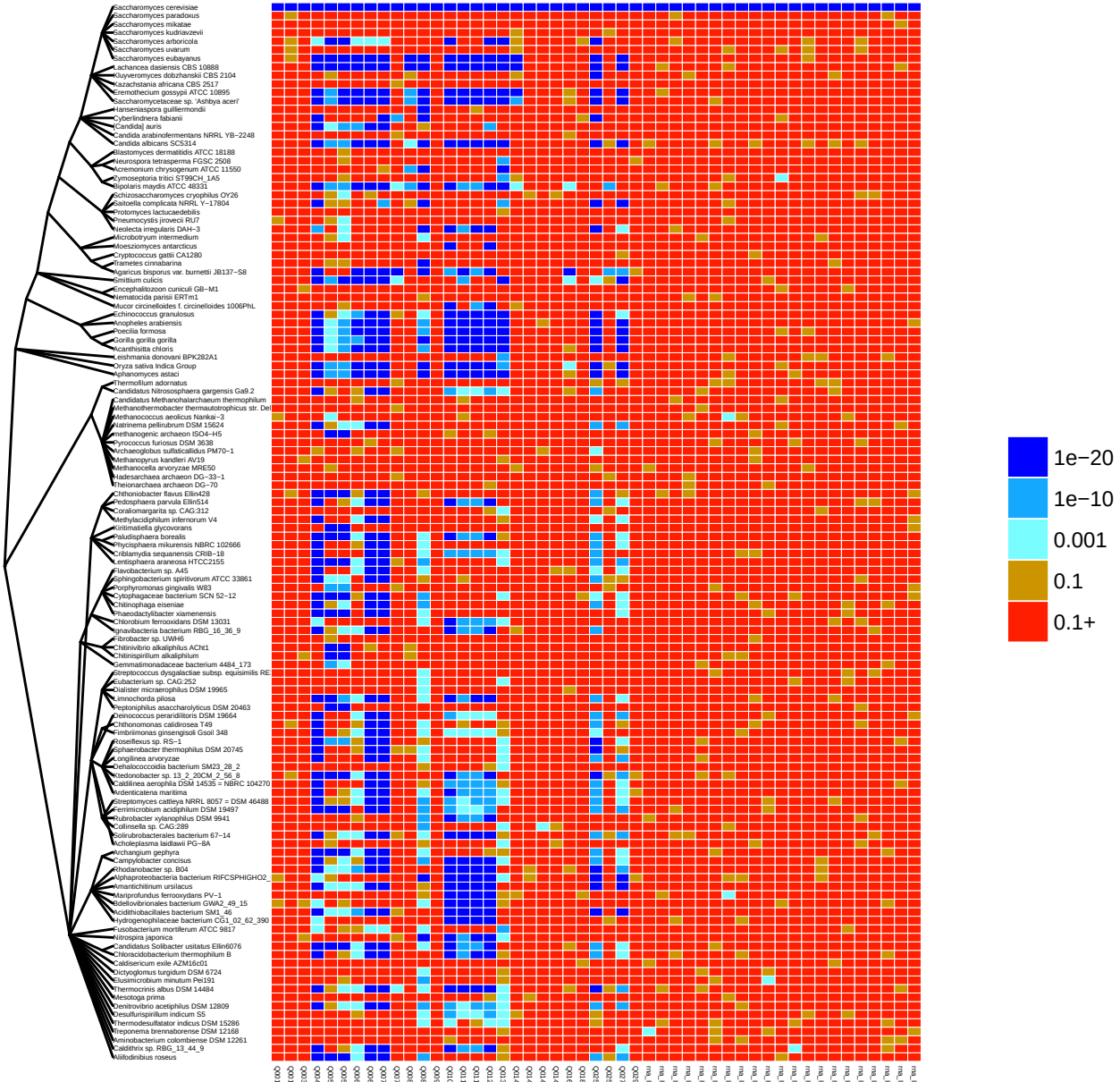
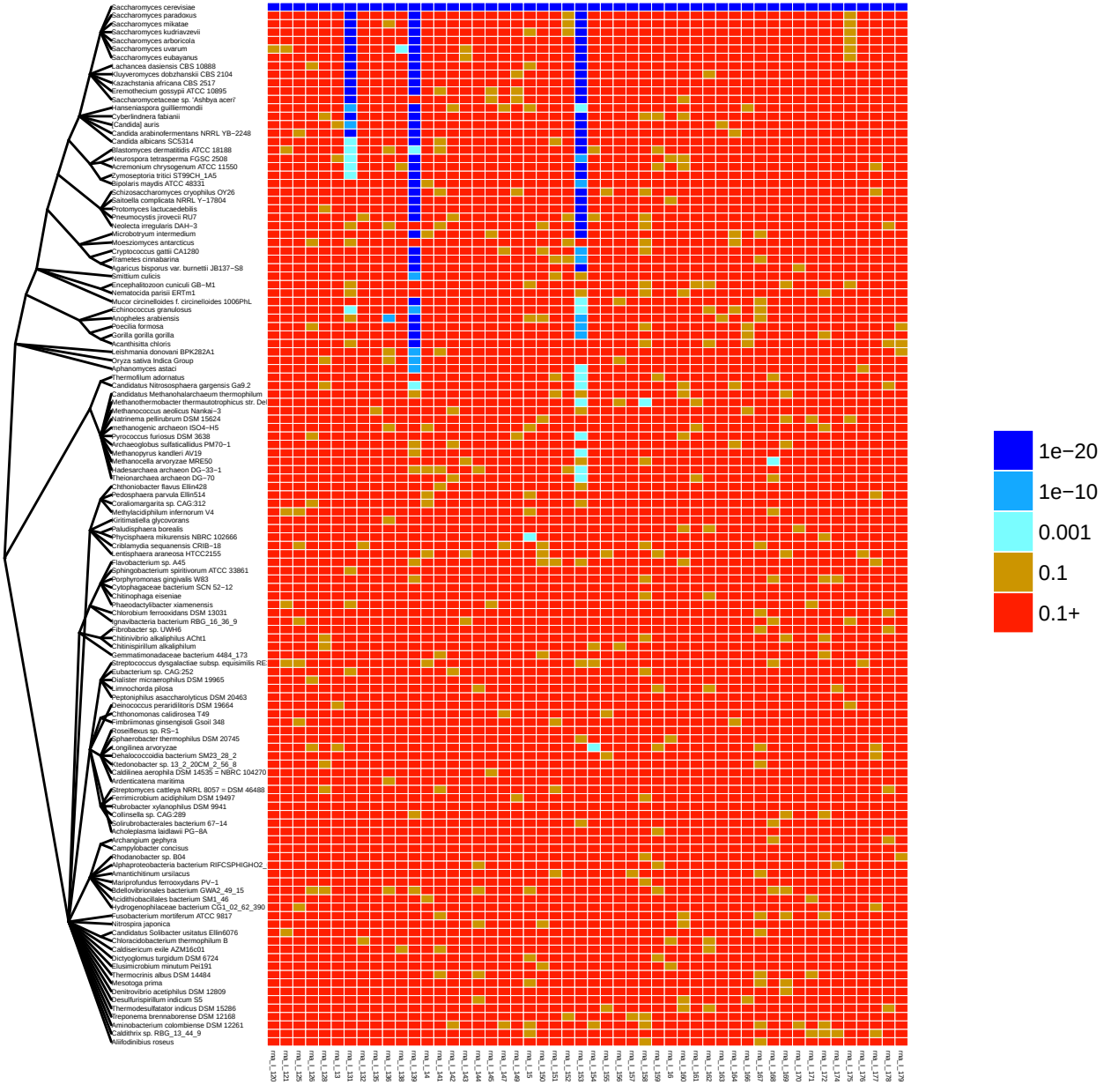
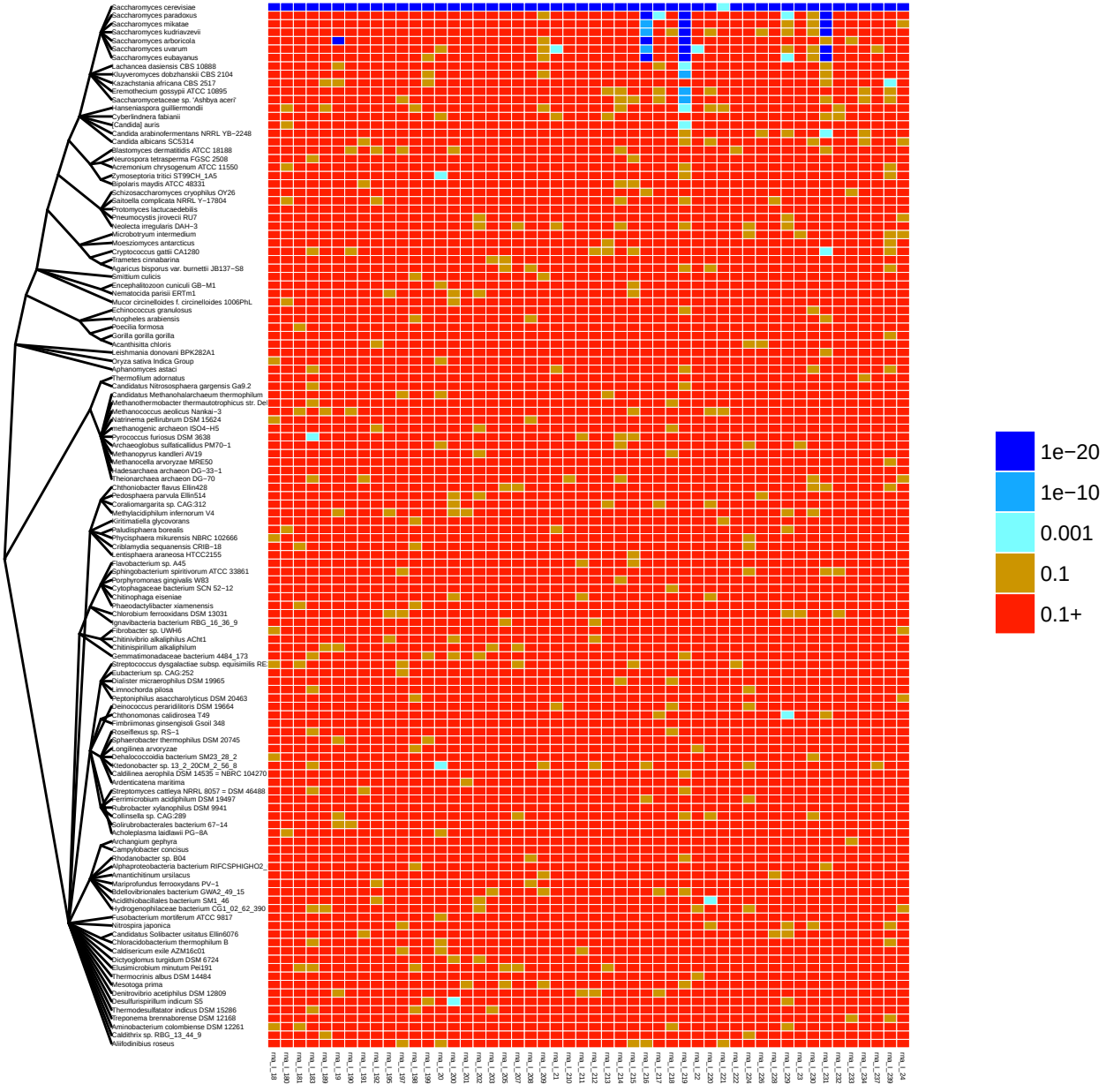
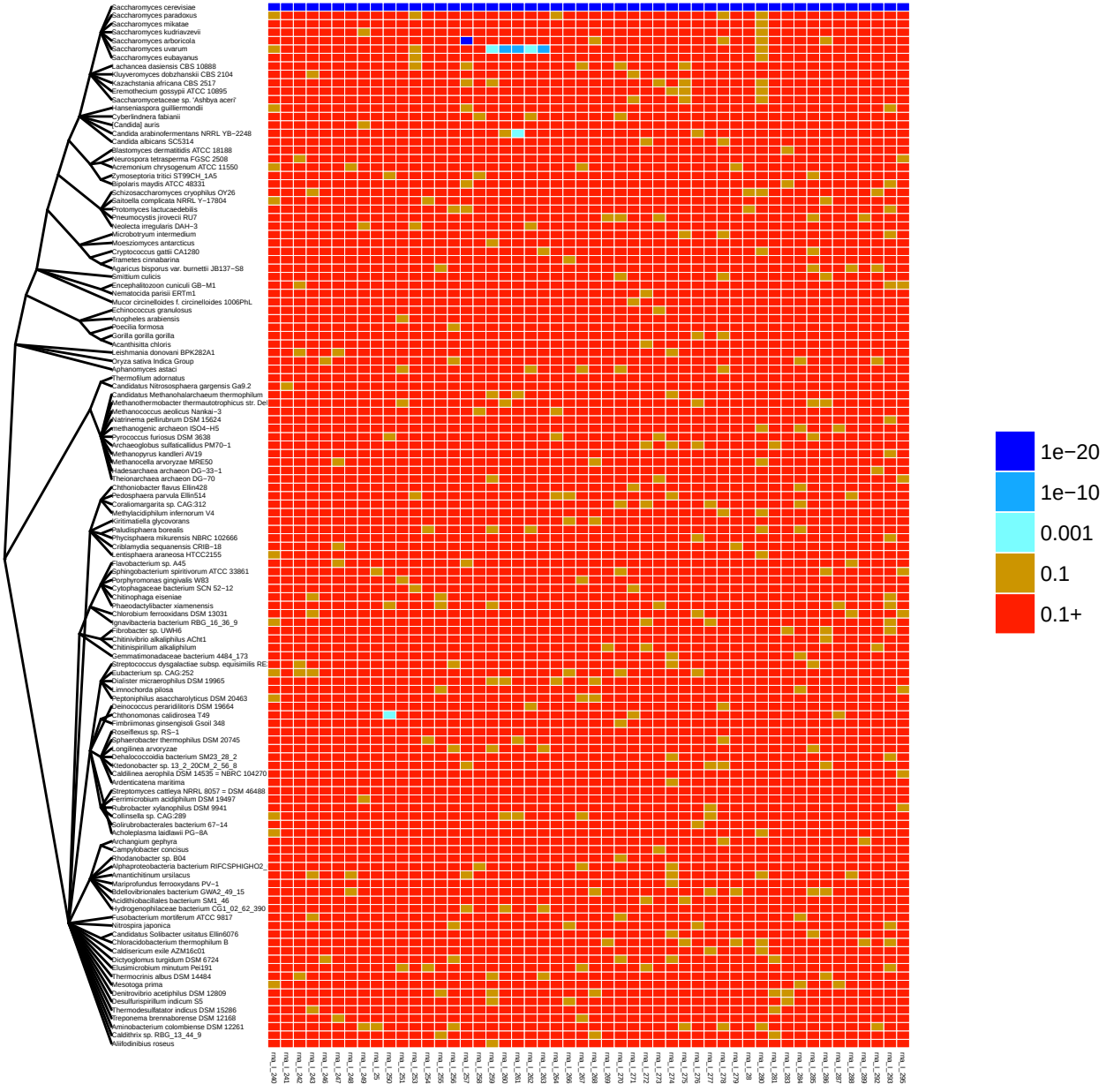
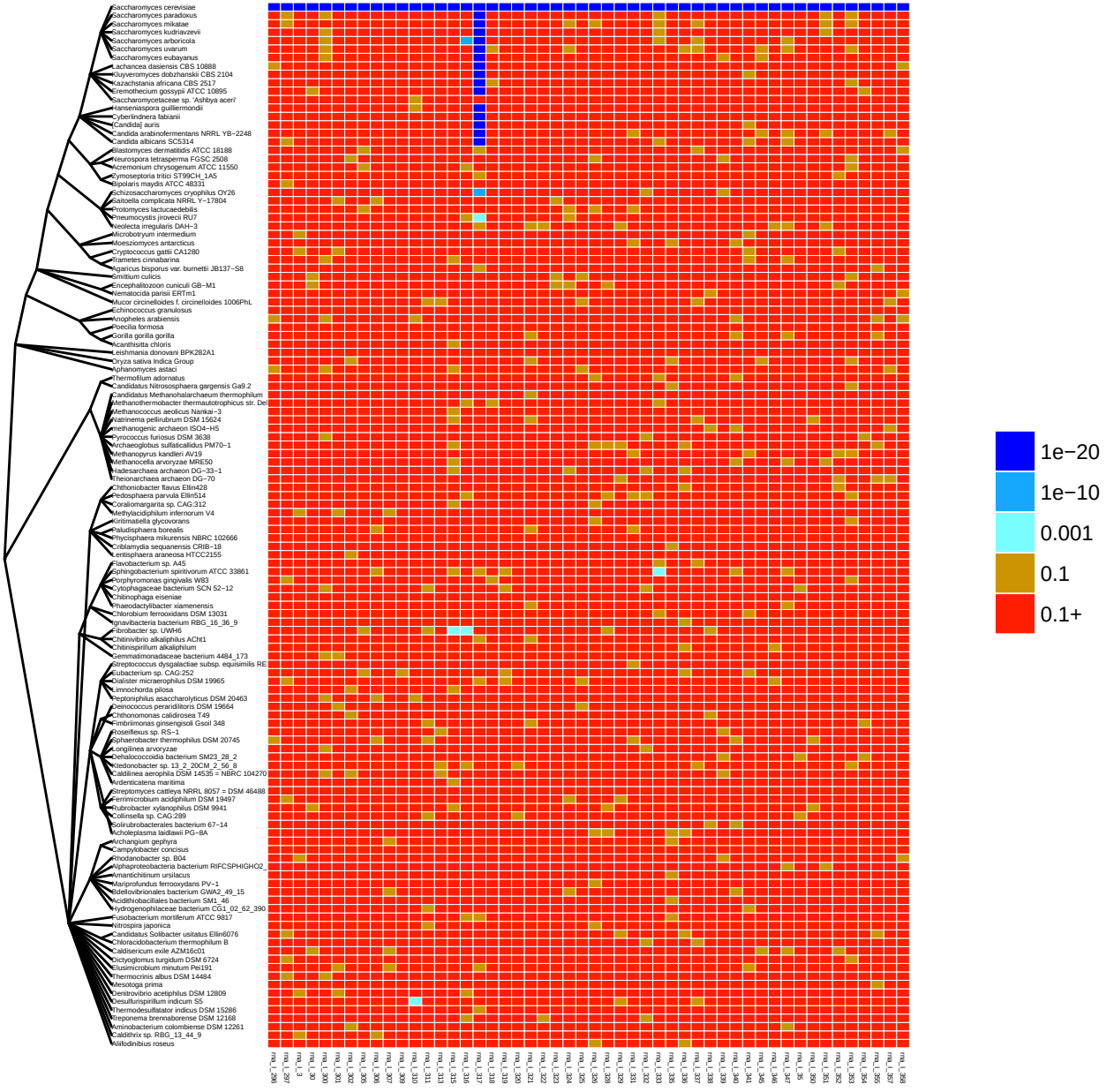
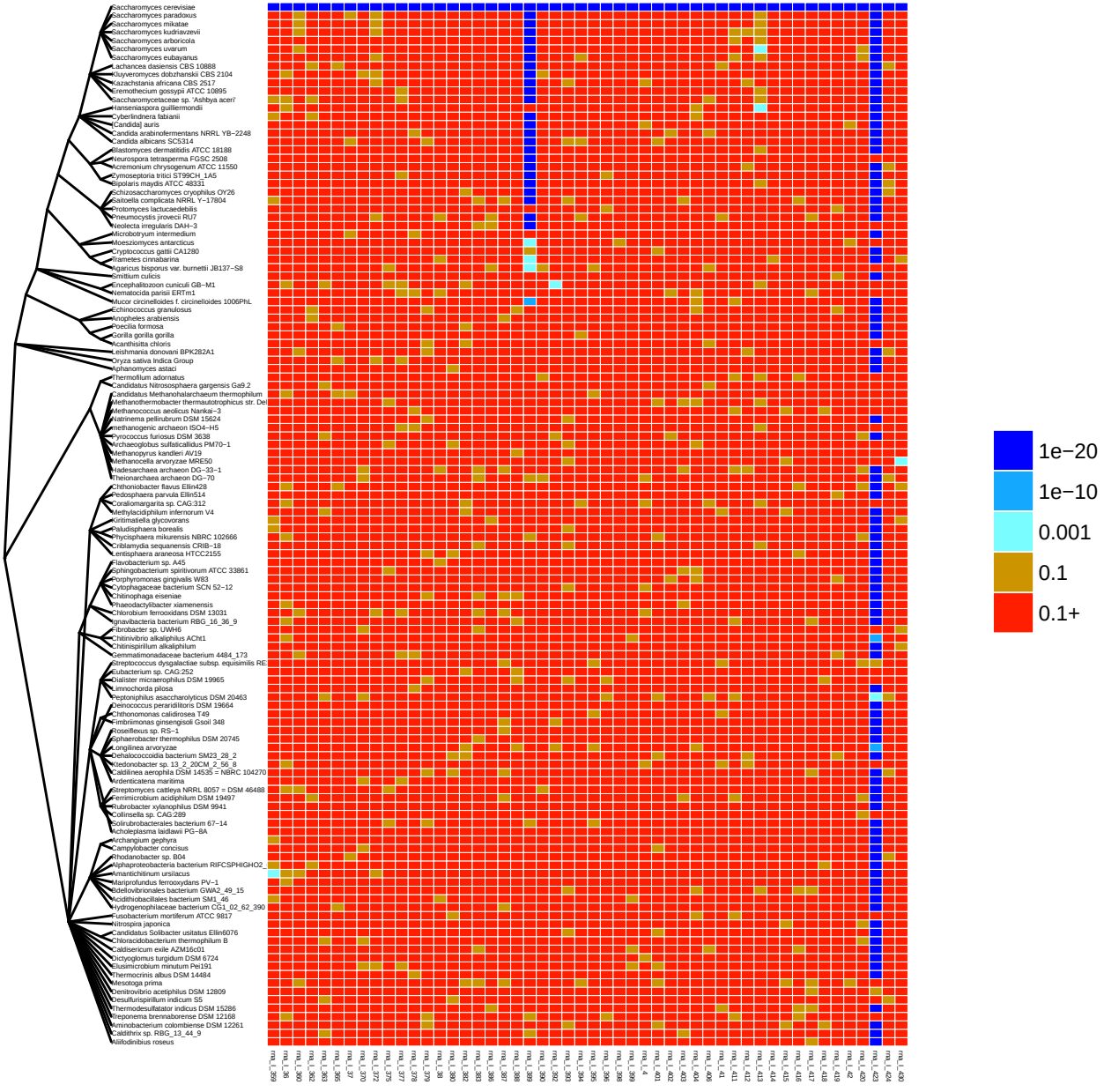

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
QQ010
QQ017
QQ032
QQ045
QQ050
QQ055
QQ060
QQ065
QQ070
QQ075
QQ080
QQ085
QQ092
QQ105
QQ110
QQ115
QQ120
QQ130
QQ140
QQ142
QQ143
QQ144
QQ160
QQ182
QQ250
QQ255
QQ275
QQ297
ma_L_001
ma_L_100
ma_L_102
ma_L_103
ma_L_104
ma_L_105
ma_L_106
ma_L_107
ma_L_108
ma_L_109
ma_L_11
ma_L_110
ma_L_111
ma_L_112
ma_L_113
ma_L_114
ma_L_115
ma_L_116
ma_L_117
ma_L_119
ma_L_12
1e−20
1e−10
0.001
0.1
0.1+

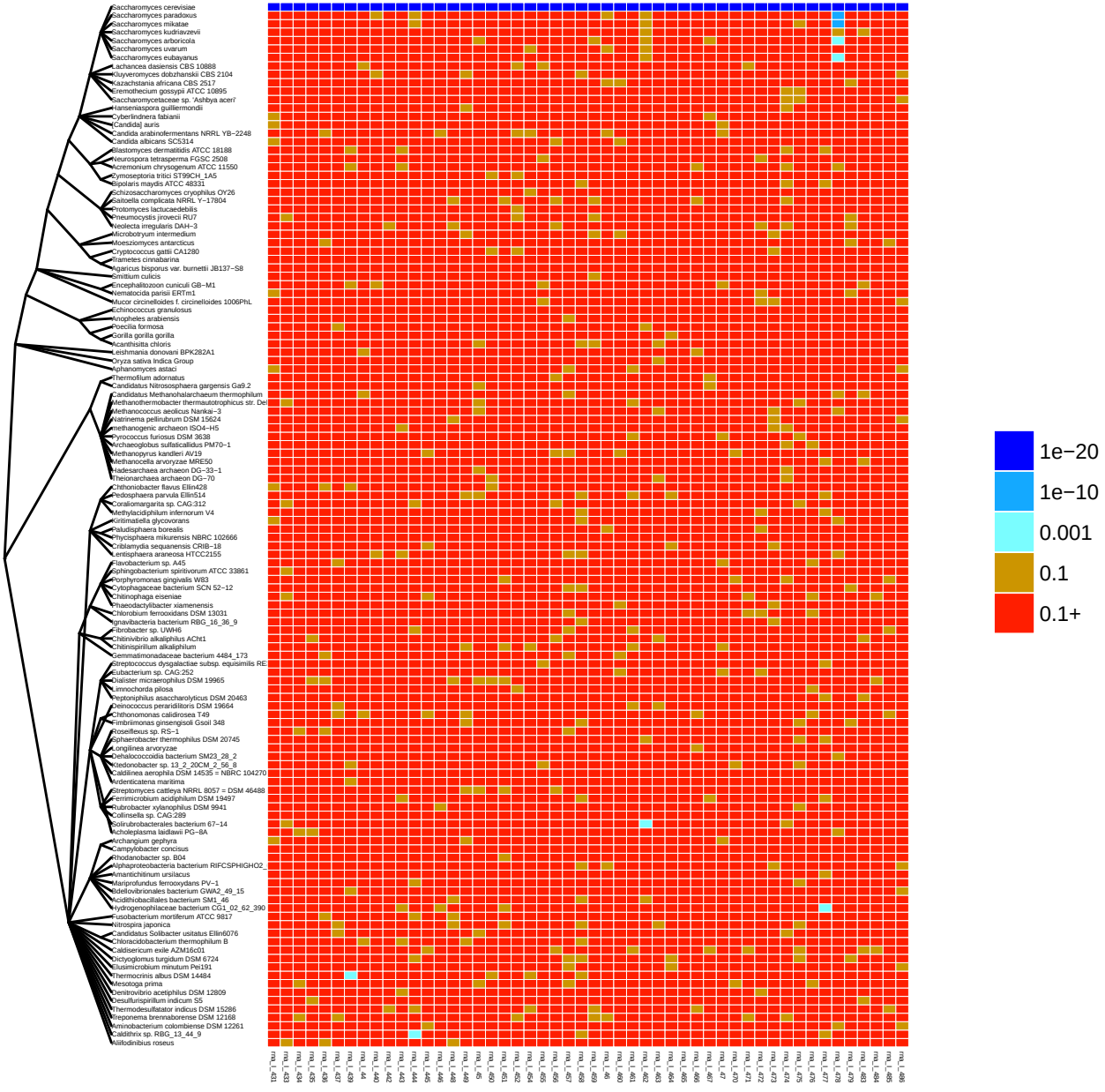

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_L_120
mu_L_121
mu_L_125
mu_L_126
mu_L_128
mu_L_13
mu_L_131
mu_L_132
mu_L_135
mu_L_136
mu_L_138
mu_L_139
mu_L_14
mu_L_141
mu_L_142
mu_L_143
mu_L_144
mu_L_145
mu_L_147
mu_L_149
mu_L_15
mu_L_150
mu_L_151
mu_L_152
mu_L_153
mu_L_154
mu_L_155
mu_L_156
mu_L_157
mu_L_158
mu_L_159
mu_L_16
mu_L_160
mu_L_161
mu_L_162
mu_L_163
mu_L_164
mu_L_166
mu_L_167
mu_L_168
mu_L_169
mu_L_170
mu_L_171
mu_L_172
mu_L_174
mu_L_175
mu_L_176
mu_L_177
mu_L_178
mu_L_179
1e−20
1e−10
0.001
0.1
0.1+

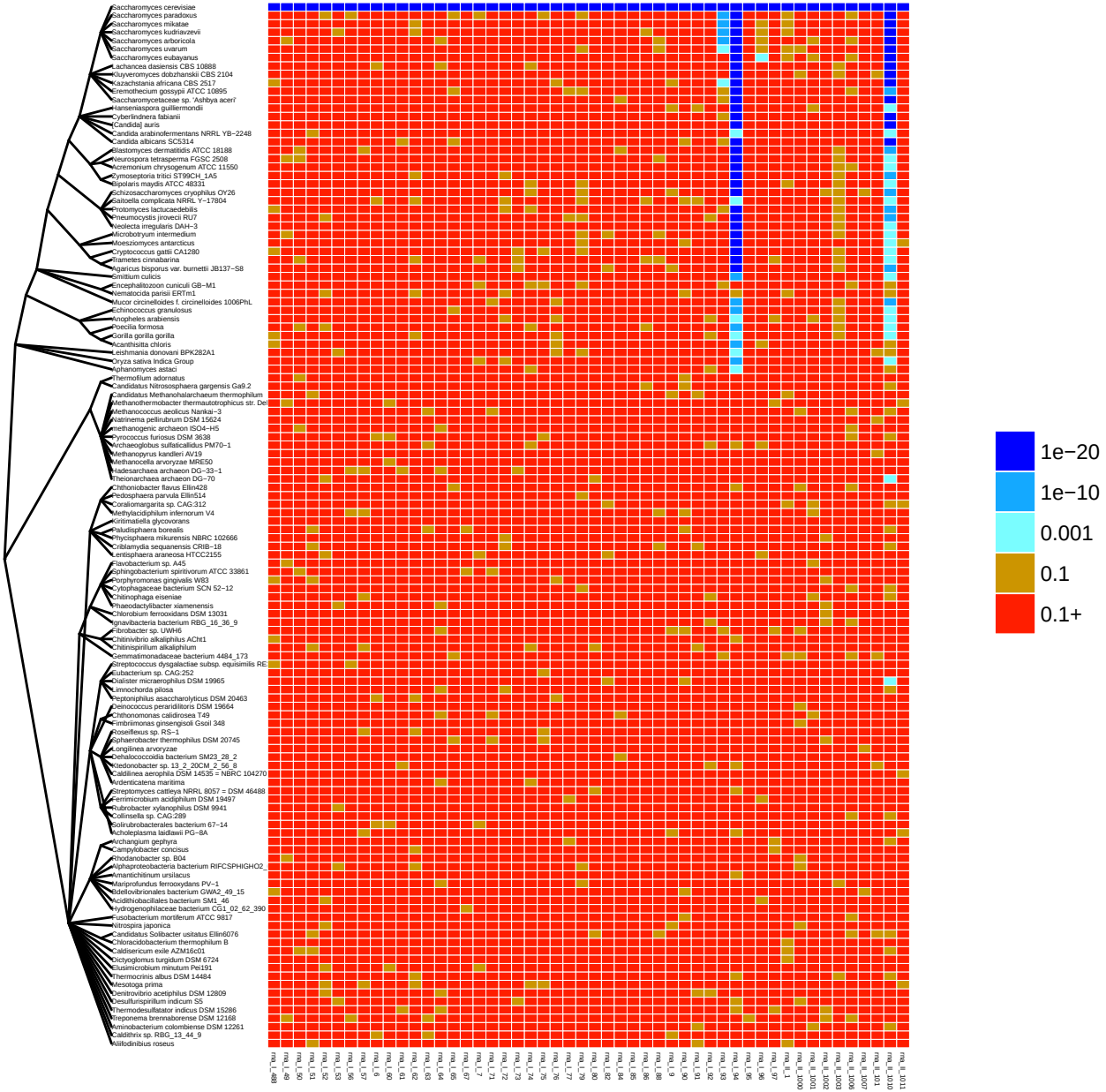

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
mu_L_18
mu_L_180
mu_L_181
mu_L_183
mu_L_189
mu_L_19
mu_L_190
mu_L_191
mu_L_192
mu_L_195
mu_L_197
mu_L_198
mu_L_199
mu_L_20
mu_L_200
mu_L_201
mu_L_202
mu_L_203
mu_L_205
mu_L_206
mu_L_207
mu_L_208
mu_L_209
mu_L_21
mu_L_210
mu_L_211
mu_L_212
mu_L_213
mu_L_214
mu_L_215
mu_L_216
mu_L_217
mu_L_218
mu_L_219
mu_L_22
mu_L_220
mu_L_221
mu_L_222
mu_L_224
mu_L_225
mu_L_226
mu_L_228
mu_L_229
mu_L_23
mu_L_230
mu_L_231
mu_L_232
mu_L_233
mu_L_234
mu_L_237
mu_L_239
mu_L_24
1e−20
1e−10
0.001
0.1
0.1+

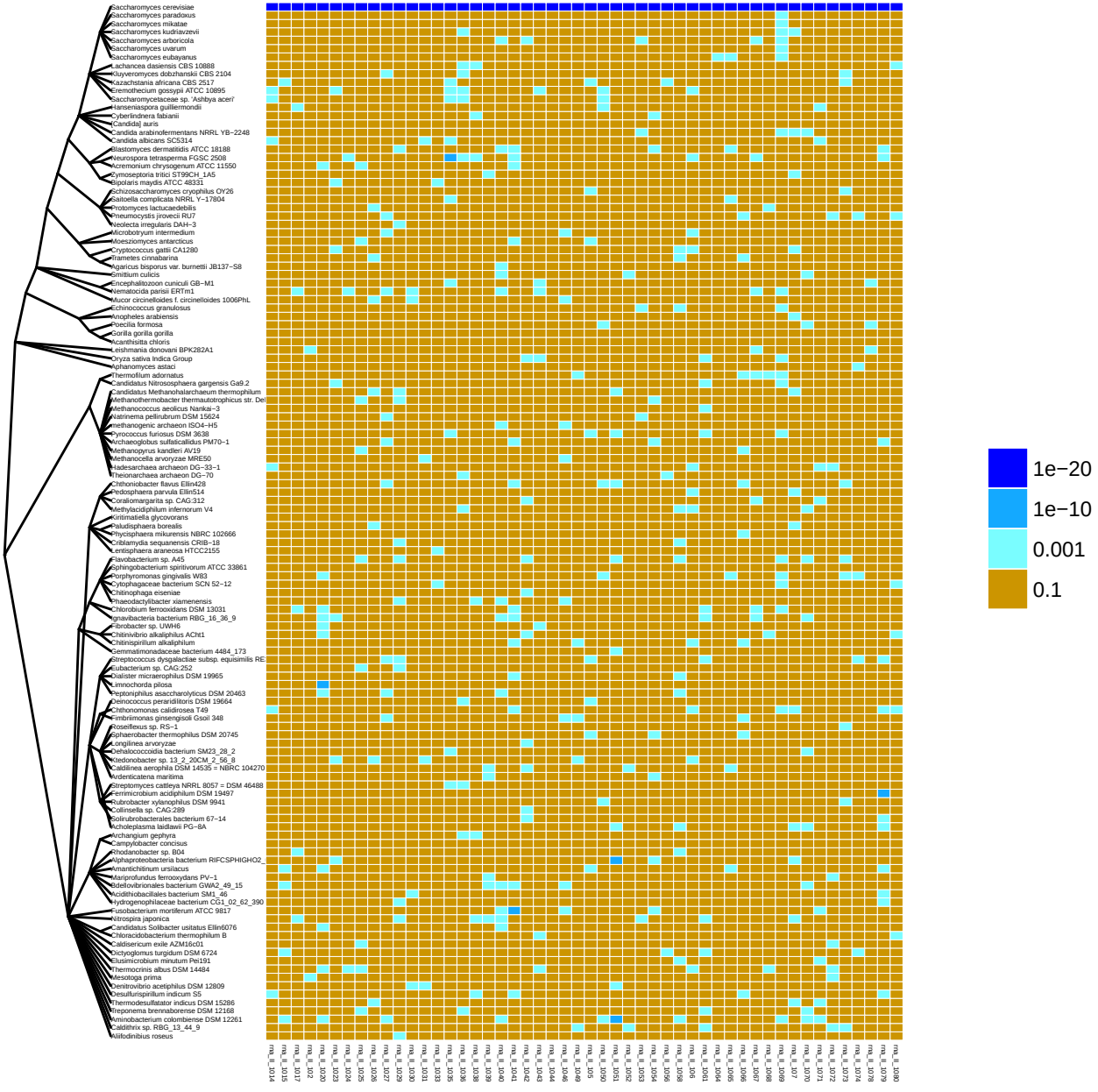

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thetionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycsiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_L240
ma_L241
ma_L242
ma_L243
ma_L246
ma_L247
ma_L248
ma_L249
ma_L25
ma_L250
ma_L251
ma_L253
ma_L254
ma_L255
ma_L256
ma_L257
ma_L258
ma_L259
ma_L260
ma_L261
ma_L262
ma_L263
ma_L264
ma_L266
ma_L267
ma_L268
ma_L269
ma_L270
ma_L271
ma_L272
ma_L273
ma_L274
ma_L275
ma_L276
ma_L277
ma_L278
ma_L279
ma_L28
ma_L280
ma_L281
ma_L283
ma_L284
ma_L285
ma_L286
ma_L287
ma_L288
ma_L289
ma_L292
ma_L293
ma_L295
1e−20
1e−10
0.001
0.1
0.1+

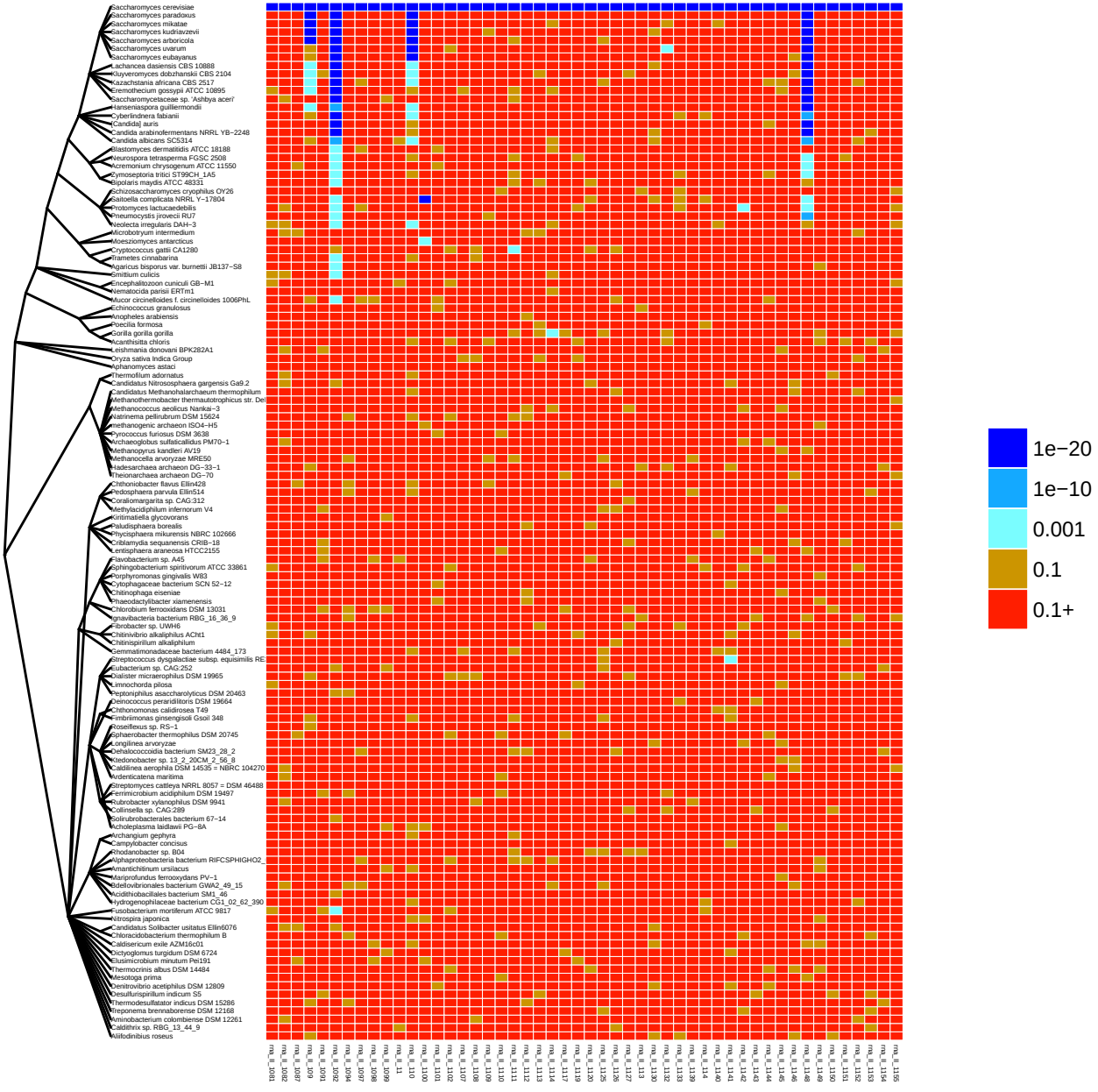

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina sp. Saccharomycetales
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas sp. Is79A3
Nitrosomonas europaea ATCC 19718
Nitrosomonas eutropha C91
Nitrosomonas sp. Is79A3
Nitrosomonas sp. AL212

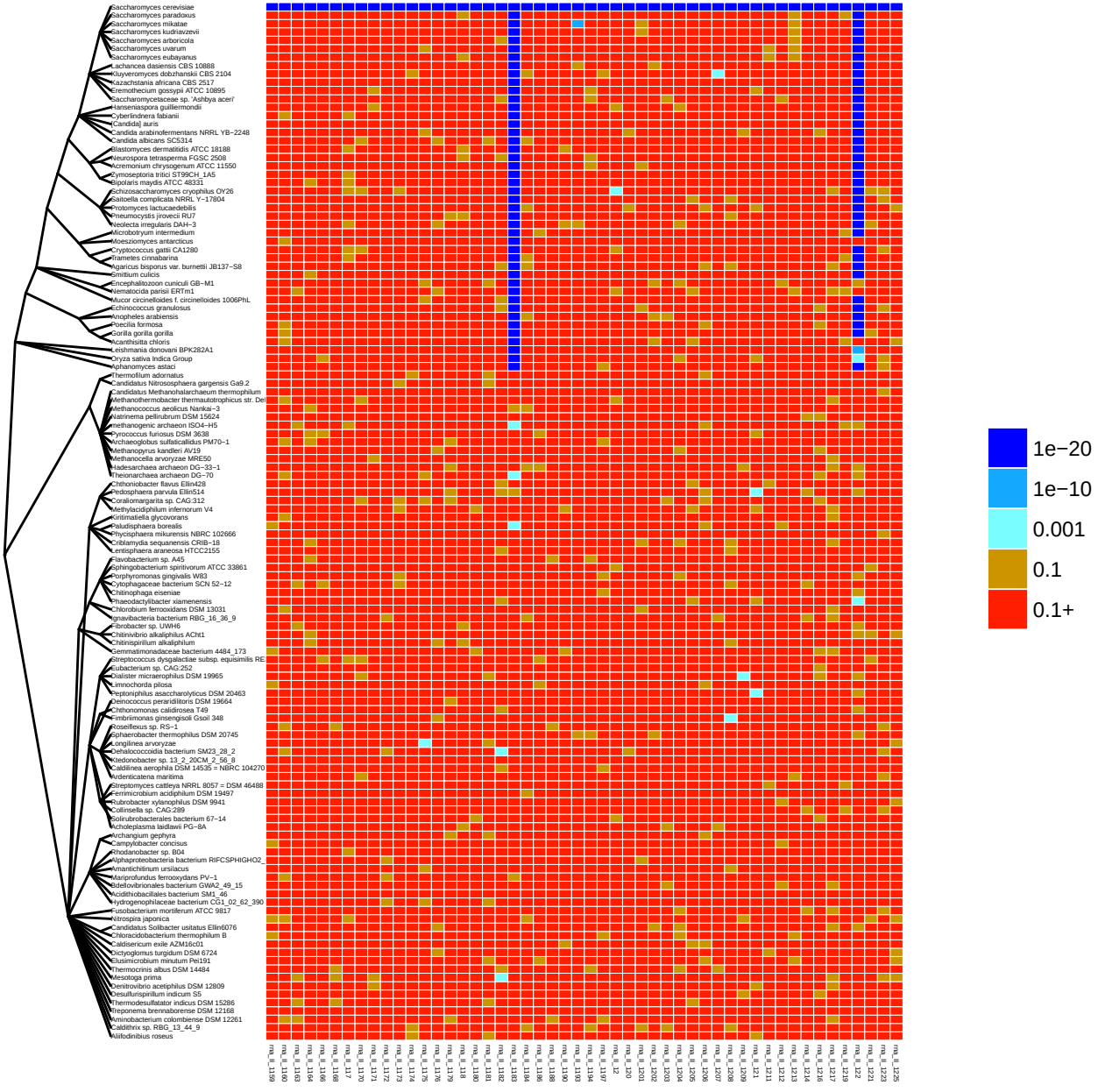

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_L_359
ma_L_36
ma_L_360
ma_L_362
ma_L_363
ma_L_365
ma_L_37
ma_L_370
ma_L_372
ma_L_375
ma_L_377
ma_L_378
ma_L_379
ma_L_38
ma_L_380
ma_L_382
ma_L_383
ma_L_386
ma_L_387
ma_L_388
ma_L_389
ma_L_390
ma_L_392
ma_L_393
ma_L_394
ma_L_395
ma_L_396
ma_L_398
ma_L_399
ma_L_4
ma_L_401
ma_L_402
ma_L_403
ma_L_404
ma_L_406
ma_L_41
ma_L_411
ma_L_412
ma_L_413
ma_L_414
ma_L_415
ma_L_416
ma_L_417
ma_L_418
ma_L_419
ma_L_42
ma_L_420
ma_L_423
ma_L_424
ma_L_430
1e−20
1e−10
0.001
0.1
0.1+

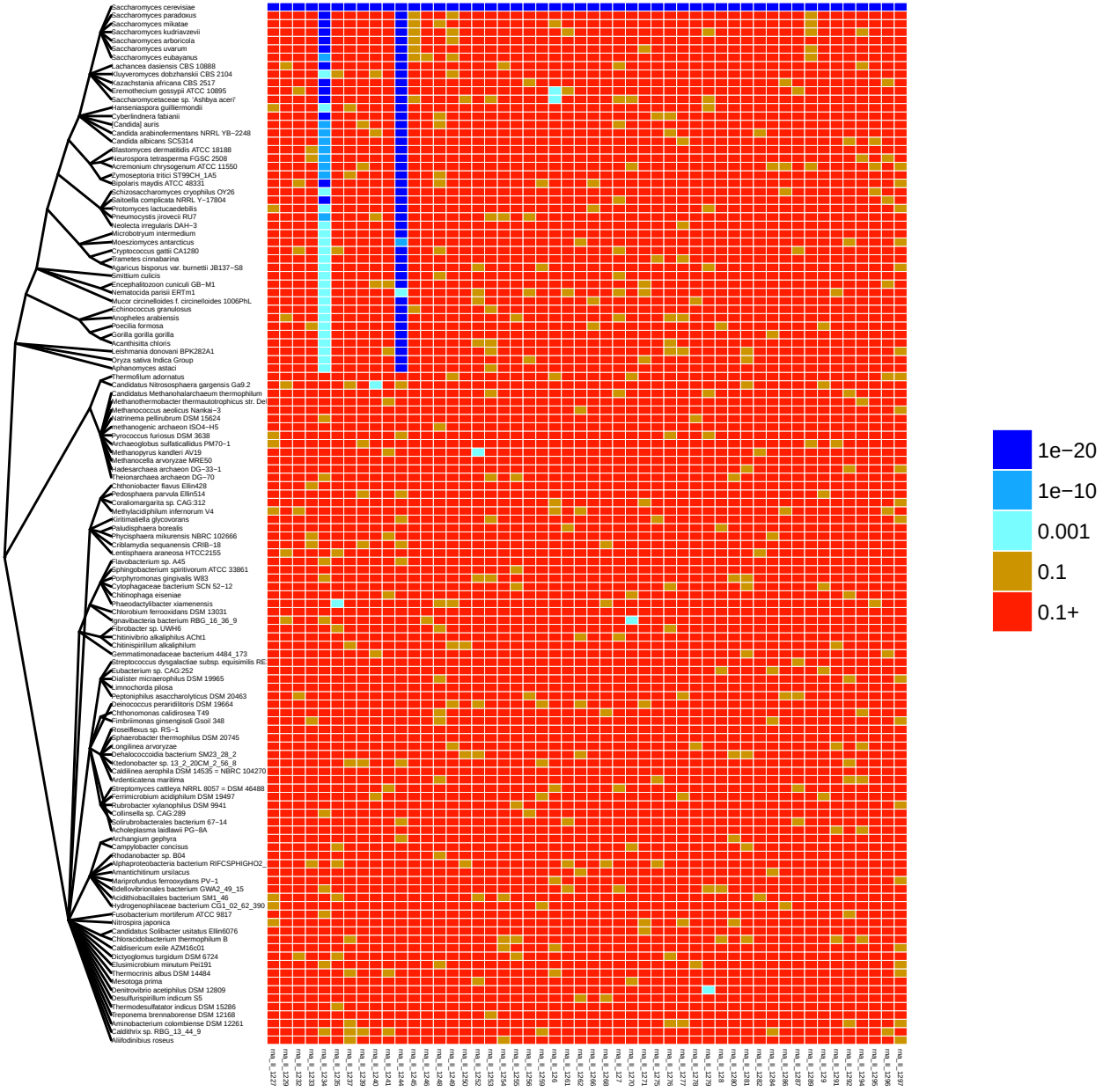

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_L633
ma_L634
ma_L635
ma_L636
ma_L637
ma_L639
ma_L44
ma_L440
ma_L442
ma_L443
ma_L444
ma_L445
ma_L446
ma_L448
ma_L449
ma_L45
ma_L450
ma_L451
ma_L452
ma_L454
ma_L455
ma_L456
ma_L457
ma_L458
ma_L459
ma_L46
ma_L460
ma_L461
ma_L462
ma_L463
ma_L464
ma_L465
ma_L466
ma_L467
ma_L47
ma_L470
ma_L471
ma_L472
ma_L473
ma_L474
ma_L475
ma_L476
ma_L477
ma_L478
ma_L479
ma_L483
ma_L484
ma_L485
ma_L486
1e−20
1e−10
0.001
0.1
0.1+

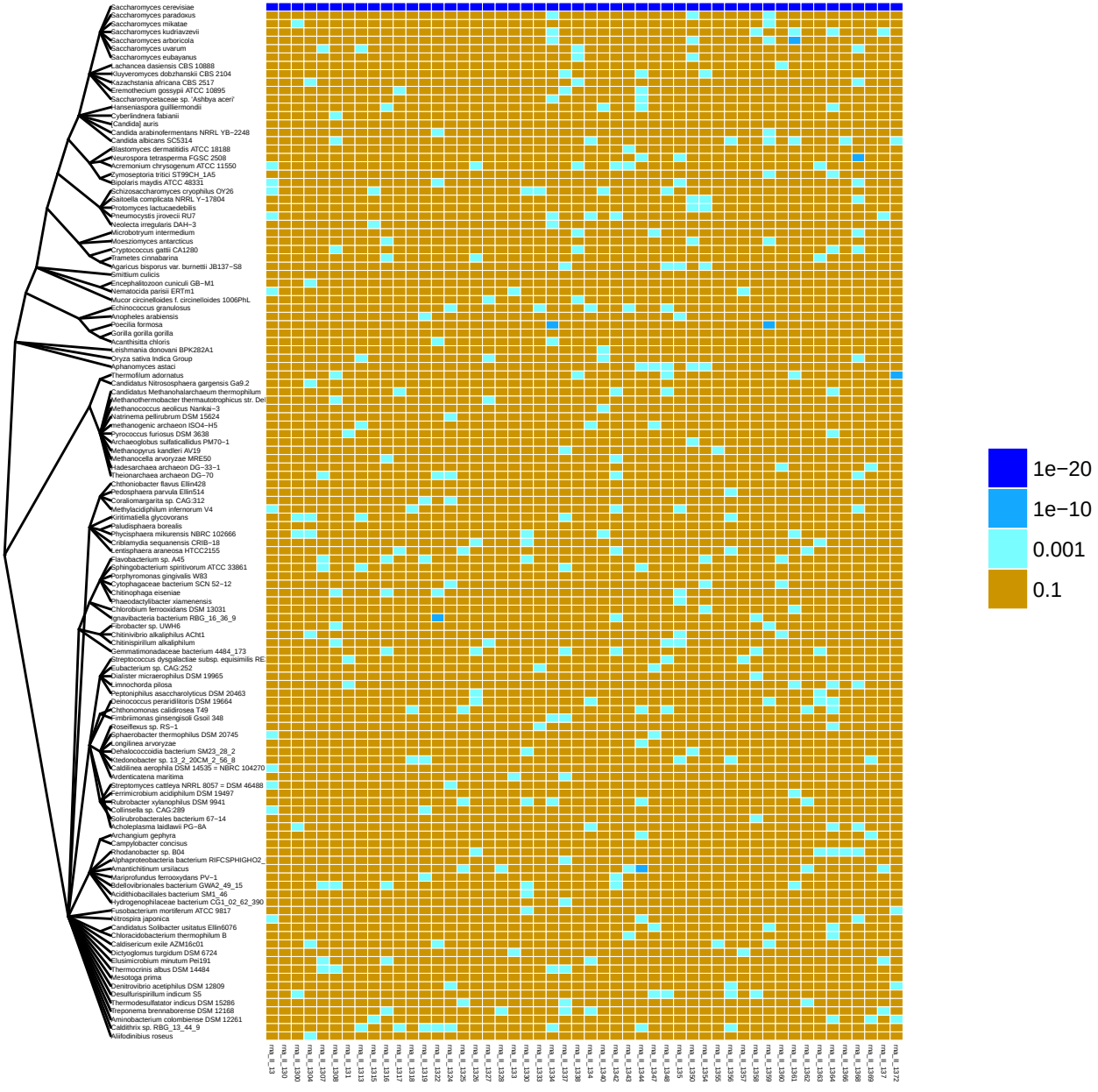

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
mu_I_89
mu_I_95
mu_I_15
mu_I_25
mu_I_53
mu_I_56
mu_I_57
mu_I_6
mu_I_60
mu_I_61
mu_I_62
mu_I_63
mu_I_64
mu_I_65
mu_I_67
mu_I_7
mu_I_71
mu_I_72
mu_I_73
mu_I_74
mu_I_75
mu_I_76
mu_I_77
mu_I_79
mu_I_80
mu_I_82
mu_I_84
mu_I_85
mu_I_86
mu_I_88
mu_I_9
mu_I_90
mu_I_91
mu_I_92
mu_I_93
mu_I_94
mu_I_95
mu_I_96
mu_I_97
mu_II_1
mu_II_100
mu_II_101
mu_II_102
mu_II_103
mu_II_106
mu_II_107
mu_II_101
mu_II_110
mu_II_111
1e−20
1e−10
0.001
0.1
0.1+

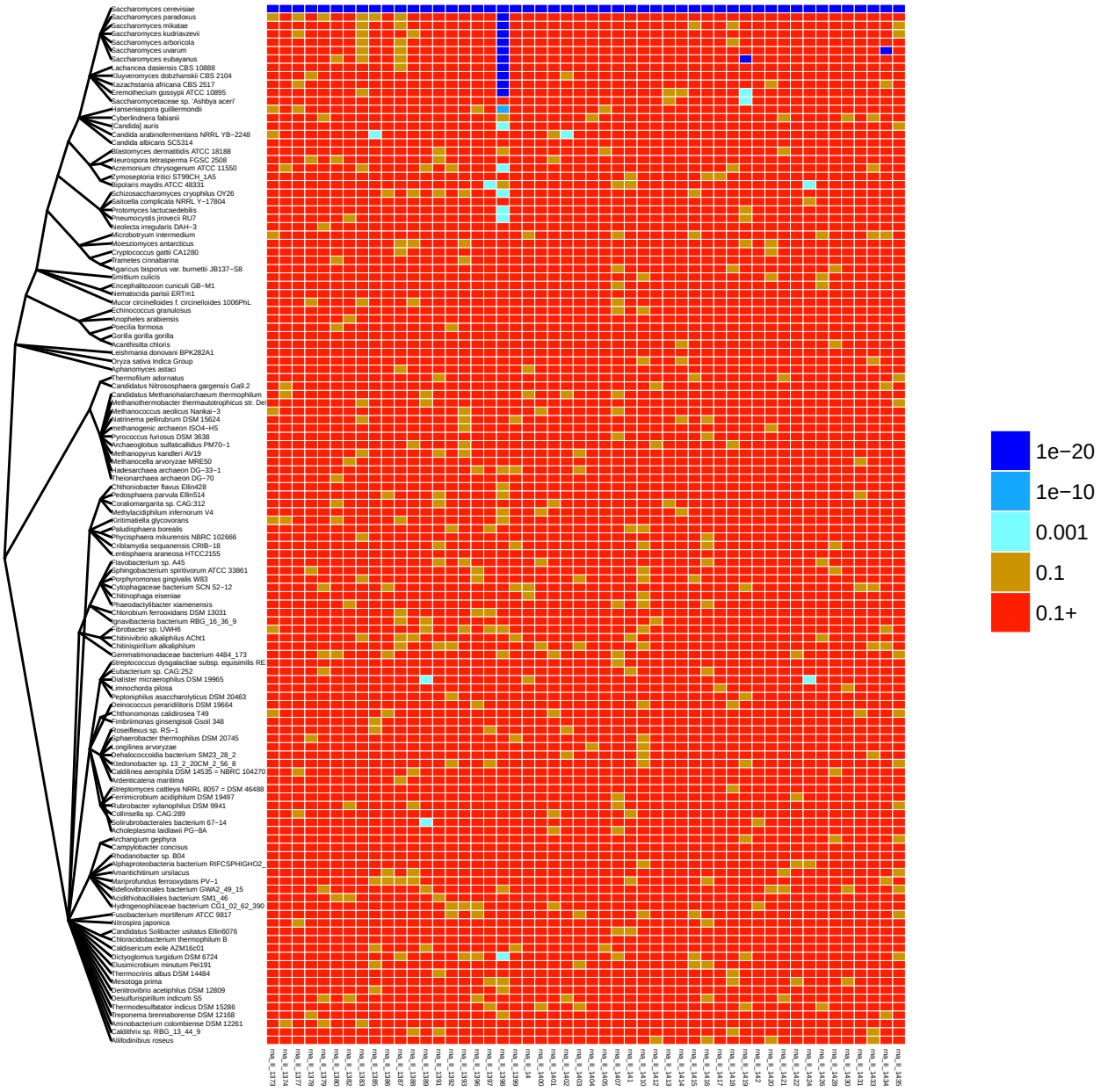

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_ll_1014
mu_ll_1015
mu_ll_1017
mu_ll_1020
mu_ll_1023
mu_ll_1024
mu_ll_1025
mu_ll_1026
mu_ll_1027
mu_ll_1029
mu_ll_1030
mu_ll_1031
mu_ll_1033
mu_ll_1035
mu_ll_1036
mu_ll_1038
mu_ll_1039
mu_ll_1040
mu_ll_1041
mu_ll_1042
mu_ll_1043
mu_ll_1044
mu_ll_1046
mu_ll_1049
mu_ll_1050
mu_ll_1051
mu_ll_1052
mu_ll_1053
mu_ll_1054
mu_ll_1056
mu_ll_1058
mu_ll_1061
mu_ll_1064
mu_ll_1065
mu_ll_1066
mu_ll_1067
mu_ll_1068
mu_ll_1069
mu_ll_107
mu_ll_1070
mu_ll_1071
mu_ll_1072
mu_ll_1073
mu_ll_1074
mu_ll_1078
mu_ll_1079
mu_ll_1080
1e−20
1e−10
0.001
0.1

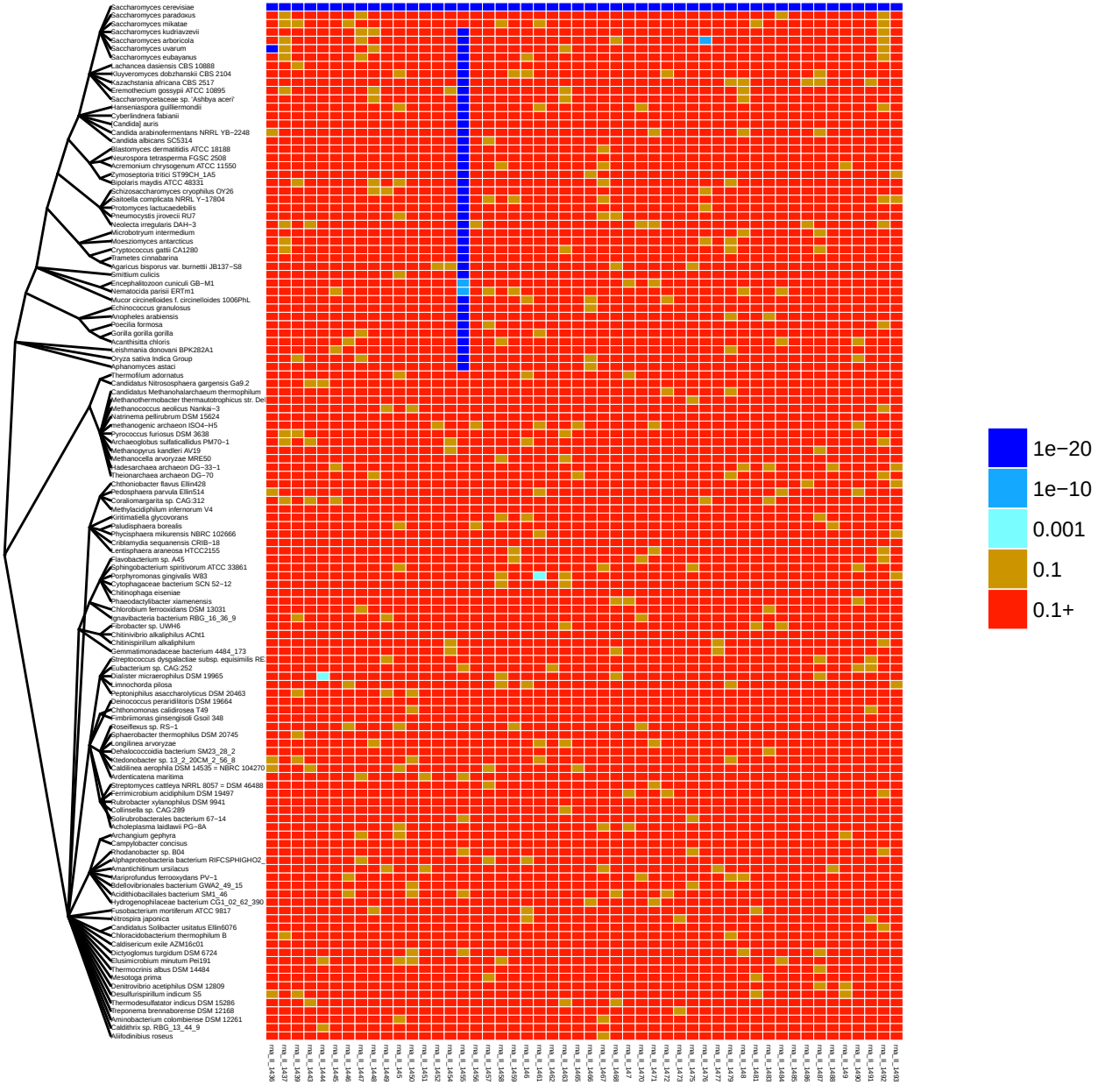

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_ti_1081
mu_ti_1082
mu_ti_1087
mu_ti_109
mu_ti_1091
mu_ti_1092
mu_ti_1094
mu_ti_1097
mu_ti_1098
mu_ti_1099
mu_ti_11
mu_ti_110
mu_ti_1100
mu_ti_1101
mu_ti_1102
mu_ti_1107
mu_ti_1108
mu_ti_1109
mu_ti_1110
mu_ti_1111
mu_ti_1112
mu_ti_1113
mu_ti_1114
mu_ti_1117
mu_ti_1119
mu_ti_1120
mu_ti_1125
mu_ti_1126
mu_ti_1127
mu_ti_113
mu_ti_1130
mu_ti_1132
mu_ti_1133
mu_ti_1139
mu_ti_114
mu_ti_1140
mu_ti_1141
mu_ti_1142
mu_ti_1143
mu_ti_1144
mu_ti_1145
mu_ti_1146
mu_ti_1148
mu_ti_1149
mu_ti_1150
mu_ti_1151
mu_ti_1152
mu_ti_1153
mu_ti_1154
mu_ti_1155
1e−20
1e−10
0.001
0.1
0.1+

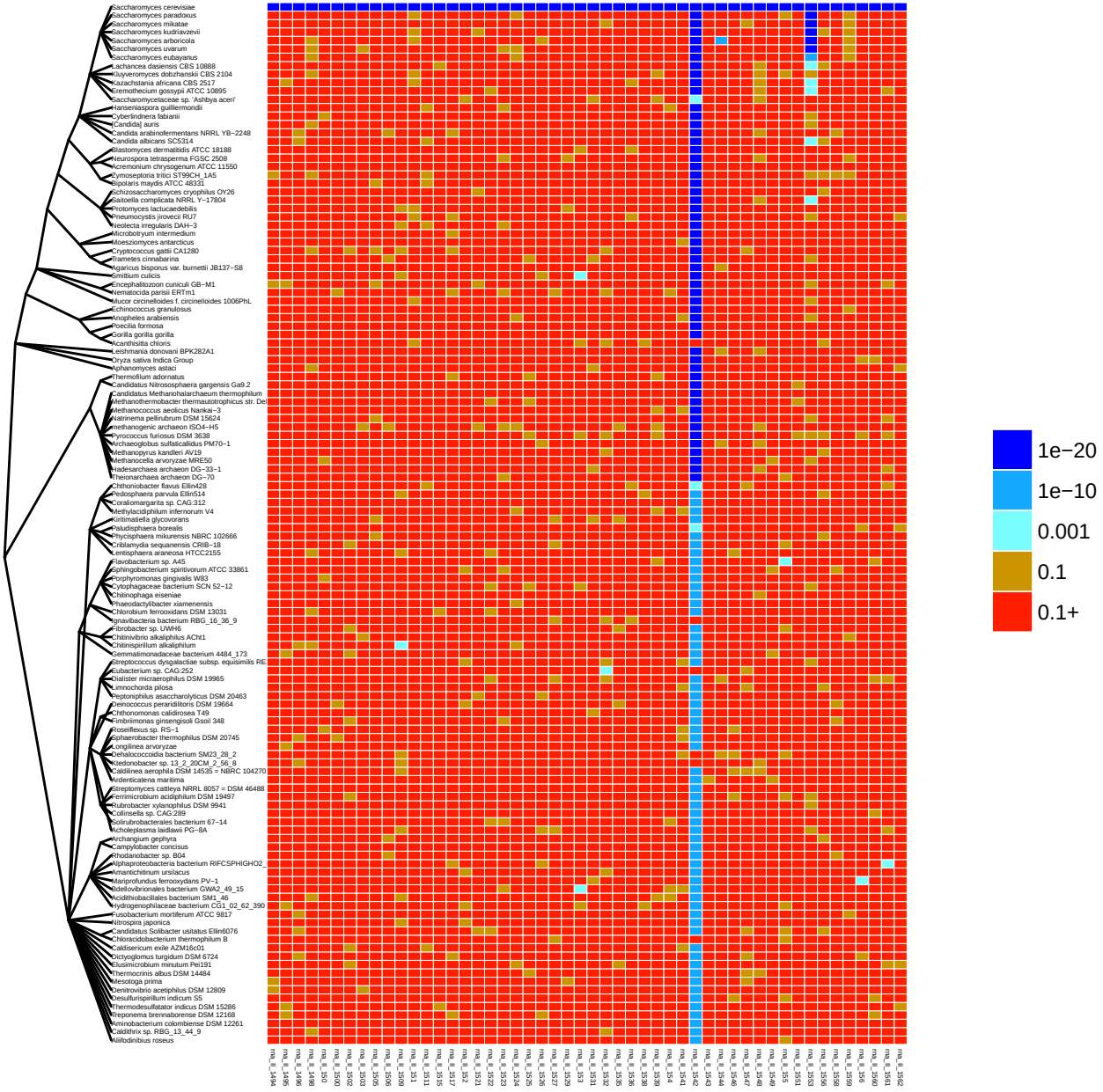

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosodinibius roseus
ma_ti_1159
ma_ti_1160
ma_ti_1163
ma_ti_1164
ma_ti_1166
ma_ti_1168
ma_ti_117
ma_ti_1170
ma_ti_1171
ma_ti_1172
ma_ti_1173
ma_ti_1174
ma_ti_1175
ma_ti_1176
ma_ti_1179
ma_ti_118
ma_ti_1180
ma_ti_1181
ma_ti_1182
ma_ti_1183
ma_ti_1184
ma_ti_1186
ma_ti_1188
ma_ti_1190
ma_ti_1193
ma_ti_1194
ma_ti_1197
ma_ti_12
ma_ti_120
ma_ti_1201
ma_ti_1202
ma_ti_1203
ma_ti_1204
ma_ti_1205
ma_ti_1206
ma_ti_1207
ma_ti_1208
ma_ti_1209
ma_ti_121
ma_ti_1211
ma_ti_1212
ma_ti_1213
ma_ti_1214
ma_ti_1216
ma_ti_1217
ma_ti_1219
ma_ti_122
ma_ti_1221
ma_ti_1223
ma_ti_1225
1e−20
1e−10
0.001
0.1
0.1+

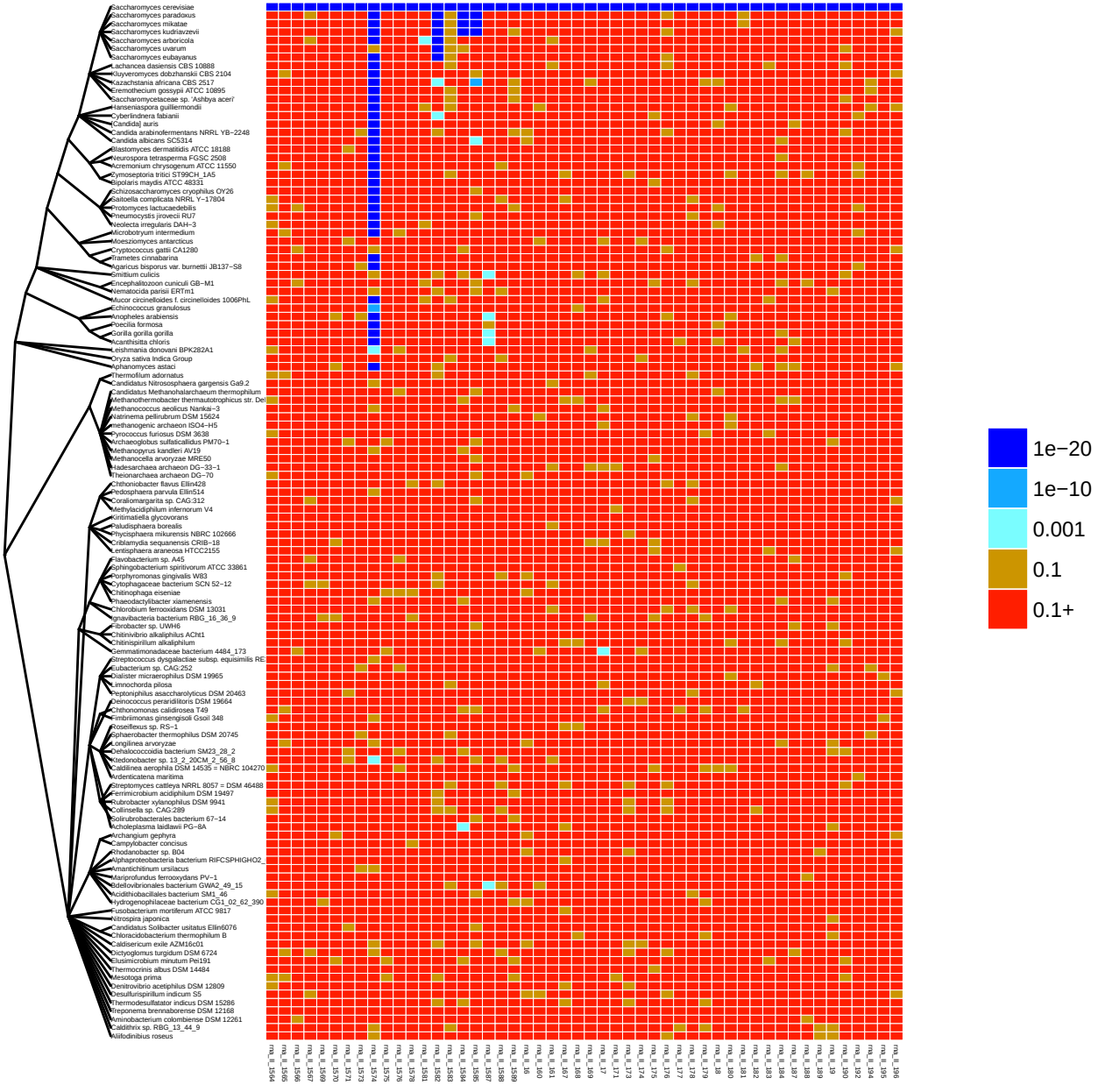

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mu_ll_1227
mu_ll_1229
mu_ll_1232
mu_ll_1233
mu_ll_1234
mu_ll_1235
mu_ll_1237
mu_ll_1239
mu_ll_1240
mu_ll_1241
mu_ll_1244
mu_ll_1245
mu_ll_1246
mu_ll_1248
mu_ll_1249
mu_ll_1250
mu_ll_1252
mu_ll_1253
mu_ll_1254
mu_ll_1255
mu_ll_1256
mu_ll_1259
mu_ll_126
mu_ll_1261
mu_ll_1262
mu_ll_1266
mu_ll_1268
mu_ll_127
mu_ll_1270
mu_ll_1271
mu_ll_1275
mu_ll_1276
mu_ll_1277
mu_ll_1278
mu_ll_1279
mu_ll_128
mu_ll_1280
mu_ll_1281
mu_ll_1282
mu_ll_1284
mu_ll_1286
mu_ll_1287
mu_ll_1289
mu_ll_129
mu_ll_1291
mu_ll_1292
mu_ll_1294
mu_ll_1295
mu_ll_1296
mu_ll_1297
1e−20
1e−10
0.001
0.1
0.1+

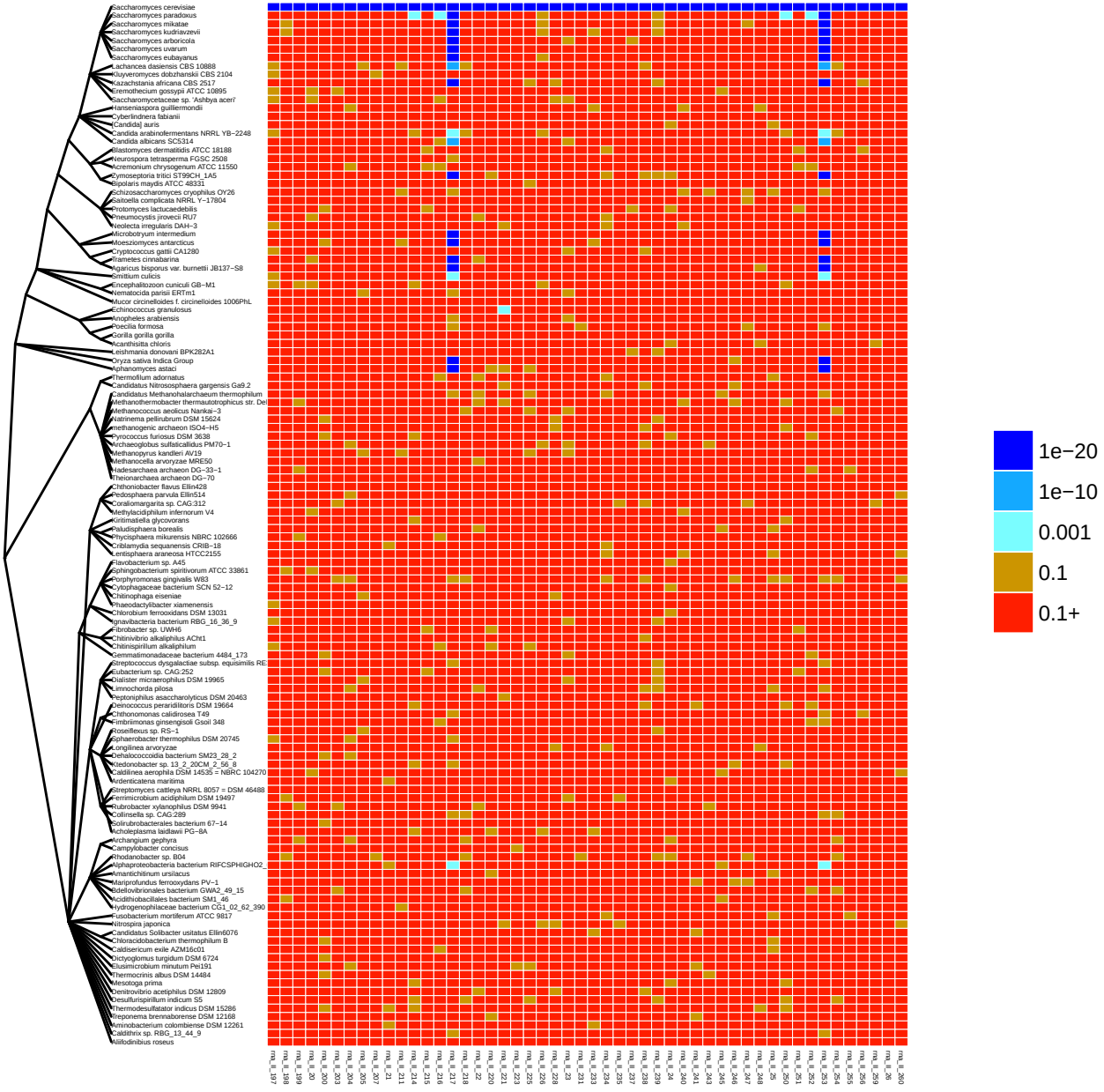

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is76
Nitrosomonas sp. Is78
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
Nitrosomonas sp. Is36
Nitrosomonas sp. Is35
Nitrosomonas sp. Is34
Nitrosomonas sp. Is33
Nitrosomonas sp. Is32
Nitrosomonas sp. Is31
Nitrosomonas sp. Is30
Nitrosomonas sp. Is29
Nitrosomonas sp. Is28
Nitrosomonas sp. Is27
Nitrosomonas sp. Is26
Nitrosomonas sp. Is25
Nitrosomonas sp. Is24
Nitrosomonas sp. Is23
Nitrosomonas sp. Is22
Nitrosomonas sp. Is21
Nitrosomonas sp. Is20
Nitrosomonas sp. Is19
Nitrosomonas sp. Is18
Nitrosomonas sp. Is17
Nitrosomonas sp. Is16
Nitrosomonas sp. Is15
Nitrosomonas sp. Is14
Nitrosomonas sp. Is13
1e−20
1e−10
0.001
0.1

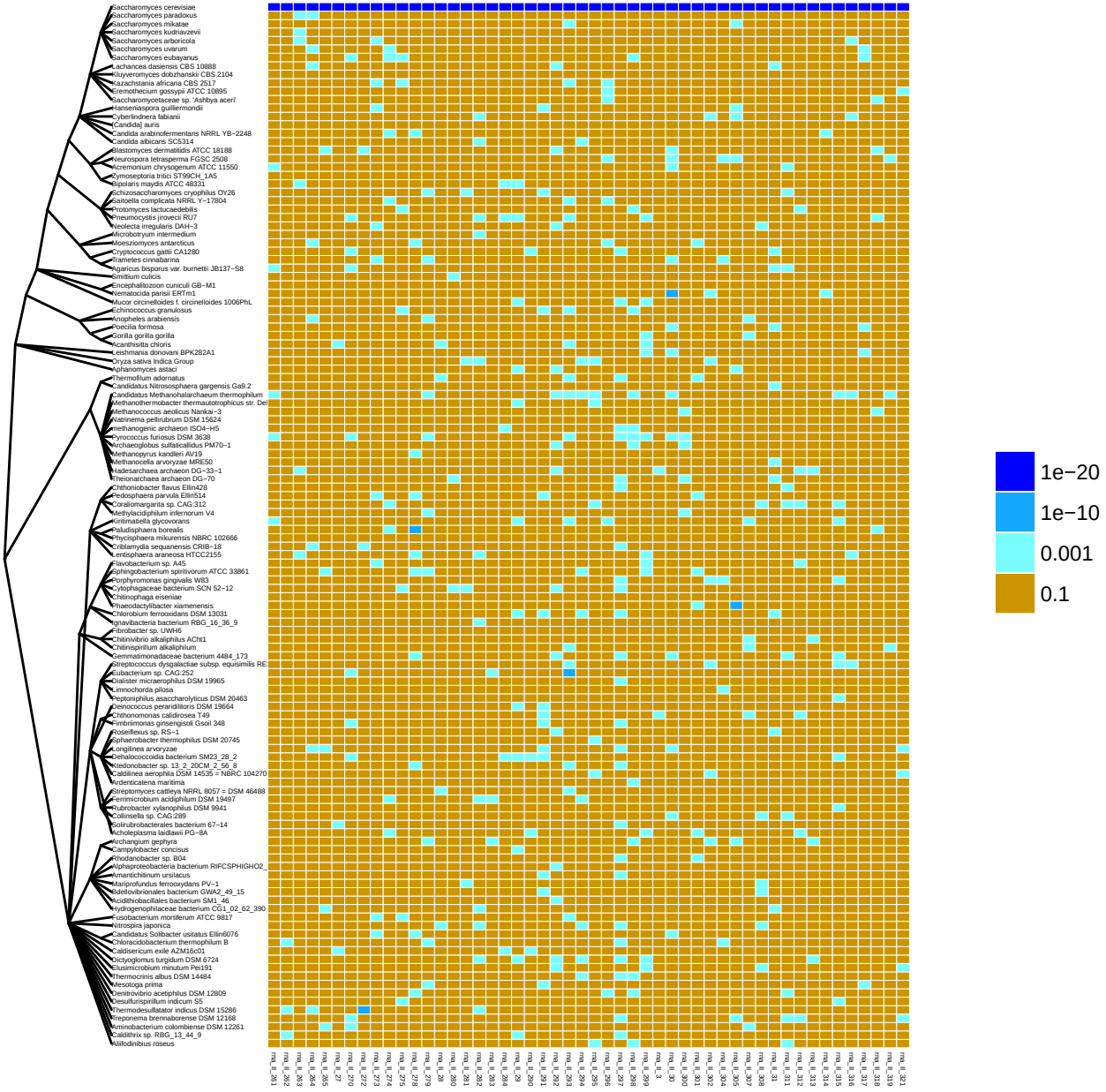

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mu_ll_1373
mu_ll_1374
mu_ll_1377
mu_ll_1379
mu_ll_1380
mu_ll_1382
mu_ll_1383
mu_ll_1385
mu_ll_1386
mu_ll_1387
mu_ll_1388
mu_ll_1389
mu_ll_1391
mu_ll_1392
mu_ll_1393
mu_ll_1396
mu_ll_1397
mu_ll_1398
mu_ll_1399
mu_ll_14
mu_ll_1400
mu_ll_1401
mu_ll_1402
mu_ll_1403
mu_ll_1404
mu_ll_1405
mu_ll_1407
mu_ll_141
mu_ll_1410
mu_ll_1412
mu_ll_1413
mu_ll_1414
mu_ll_1415
mu_ll_1416
mu_ll_1417
mu_ll_1418
mu_ll_1419
mu_ll_142
mu_ll_1420
mu_ll_1421
mu_ll_1422
mu_ll_1424
mu_ll_1426
mu_ll_1428
mu_ll_1430
mu_ll_1431
mu_ll_1433
mu_ll_1434
mu_ll_1435
1e−20
1e−10
0.001
0.1
0.1+

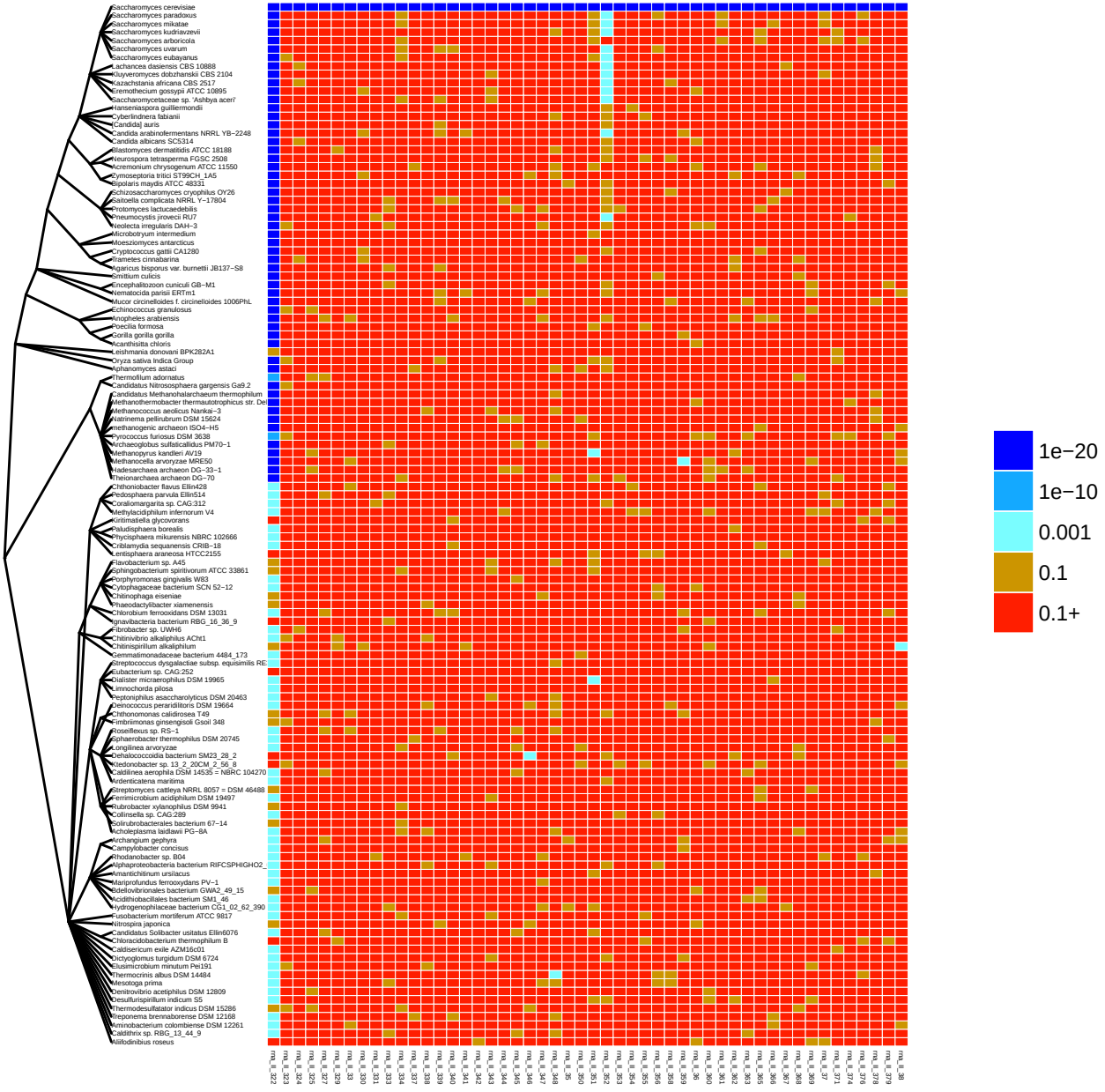

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Nitrosopumilus maritimus SCM1
Candidatus Nitrosopumilus sp. AR2
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosopumilus koreensis AR1
Candidatus Nitrosopumilus cobalami
Candidatus Nitrosopumilus sp. AK1
Candidatus Nitrosopumilus sp. AK2
Candidatus Nitrosopumilus sp. AK3
Candidatus Nitrosopumilus sp. AK4
Candidatus Nitrosopumilus sp. AK5
Candidatus Nitrosopumilus sp. AK6
Candidatus Nitrosopumilus sp. AK7
Candidatus Nitrosopumilus sp. AK8
Candidatus Nitrosopumilus sp. AK9
Candidatus Nitrosopumilus sp. AK10
Candidatus Nitrosopumilus sp. AK11
Candidatus Nitrosopumilus sp. AK12
Candidatus Nitrosopumilus sp. AK13
Candidatus Nitrosopumilus sp. AK14
Candidatus Nitrosopumilus sp. AK15
Candidatus Nitrosopumilus sp. AK16
Candidatus Nitrosopumilus sp. AK17
Candidatus Nitrosopumilus sp. AK18
Candidatus Nitrosopumilus sp. AK19
Candidatus Nitrosopumilus sp. AK20
Candidatus Nitrosopumilus sp. AK21
Candidatus Nitrosopumilus sp. AK22
Candidatus Nitrosopumilus sp. AK23
Candidatus Nitrosopumilus sp. AK24
Candidatus Nitrosopumilus sp. AK25
Candidatus Nitrosopumilus sp. AK26
Candidatus Nitrosopumilus sp. AK27
Candidatus Nitrosopumilus sp. AK28
Candidatus Nitrosopumilus sp. AK29
Candidatus Nitrosopumilus sp. AK30
Candidatus Nitrosopumilus sp. AK31
Candidatus Nitrosopumilus sp. AK32
Candidatus Nitrosopumilus sp. AK33
Candidatus Nitrosopumilus sp. AK34
Candidatus Nitrosopumilus sp. AK35
Candidatus Nitrosopumilus sp. AK36
Candidatus Nitrosopumilus sp. AK37
Candidatus Nitrosopumilus sp. AK38
Candidatus Nitrosopumilus sp. AK39
Candidatus Nitrosopumilus sp. AK40
Candidatus Nitrosopumilus sp. AK41
Candidatus Nitrosopumilus sp. AK42
Candidatus Nitrosopumilus sp. AK43
Candidatus Nitrosopumilus sp. AK44
Candidatus Nitrosopumilus sp. AK45
Candidatus Nitrosopumilus sp. AK46
Candidatus Nitrosopumilus sp. AK47
Candidatus Nitrosopumilus sp. AK48
Candidatus Nitrosopumilus sp. AK49
Candidatus Nitrosopumilus sp. AK50
Candidatus Nitrosopumilus sp. AK51
Candidatus Nitrosopumilus sp. AK52
Candidatus Nitrosopumilus sp. AK53
Candidatus Nitrosopumilus sp. AK54
Candidatus Nitrosopumilus sp. AK55
Candidatus Nitrosopumilus sp. AK56
Candidatus Nitrosopumilus sp. AK57
Candidatus Nitrosopumilus sp. AK58
Candidatus Nitrosopumilus sp. AK59
Candidatus Nitrosopumilus sp. AK60
Candidatus Nitrosopumilus sp. AK61
Candidatus Nitrosopumilus sp. AK62
Candidatus Nitrosopumilus sp. AK63
Candidatus Nitrosopumilus sp. AK64
Candidatus Nitrosopumilus sp. AK65
Candidatus Nitrosopumilus sp. AK66
Candidatus Nitrosopumilus sp. AK67
Candidatus Nitrosopumilus sp. AK68
Candidatus Nitrosopumilus sp. AK69
Candidatus Nitrosopumilus sp. AK70
Candidatus Nitrosopumilus sp. AK71
Candidatus Nitrosopumilus sp. AK72
Candidatus Nitrosopumilus sp. AK73
Candidatus Nitrosopumilus sp. AK74
Candidatus Nitrosopumilus sp. AK75
Candidatus Nitrosopumilus sp. AK76
Candidatus Nitrosopumilus sp. AK77
Candidatus Nitrosopumilus sp. AK78
Candidatus Nitrosopumilus sp. AK79
Candidatus Nitrosopumilus sp. AK80
Candidatus Nitrosopumilus sp. AK81
Candidatus Nitrosopumilus sp. AK82
Candidatus Nitrosopumilus sp. AK83
Candidatus Nitrosopumilus sp. AK84
Candidatus Nitrosopumilus sp. AK85
Candidatus Nitrosopumilus sp. AK86
Candidatus Nitrosopumilus sp. AK87
Candidatus Nitrosopumilus sp. AK88
Candidatus Nitrosopumilus sp. AK89
Candidatus Nitrosopumilus sp. AK90
Candidatus Nitrosopumilus sp. AK91
Candidatus Nitrosopumilus sp. AK92
Candidatus Nitrosopumilus sp. AK93
1e−20
1e−10
0.001
0.1
0.1+

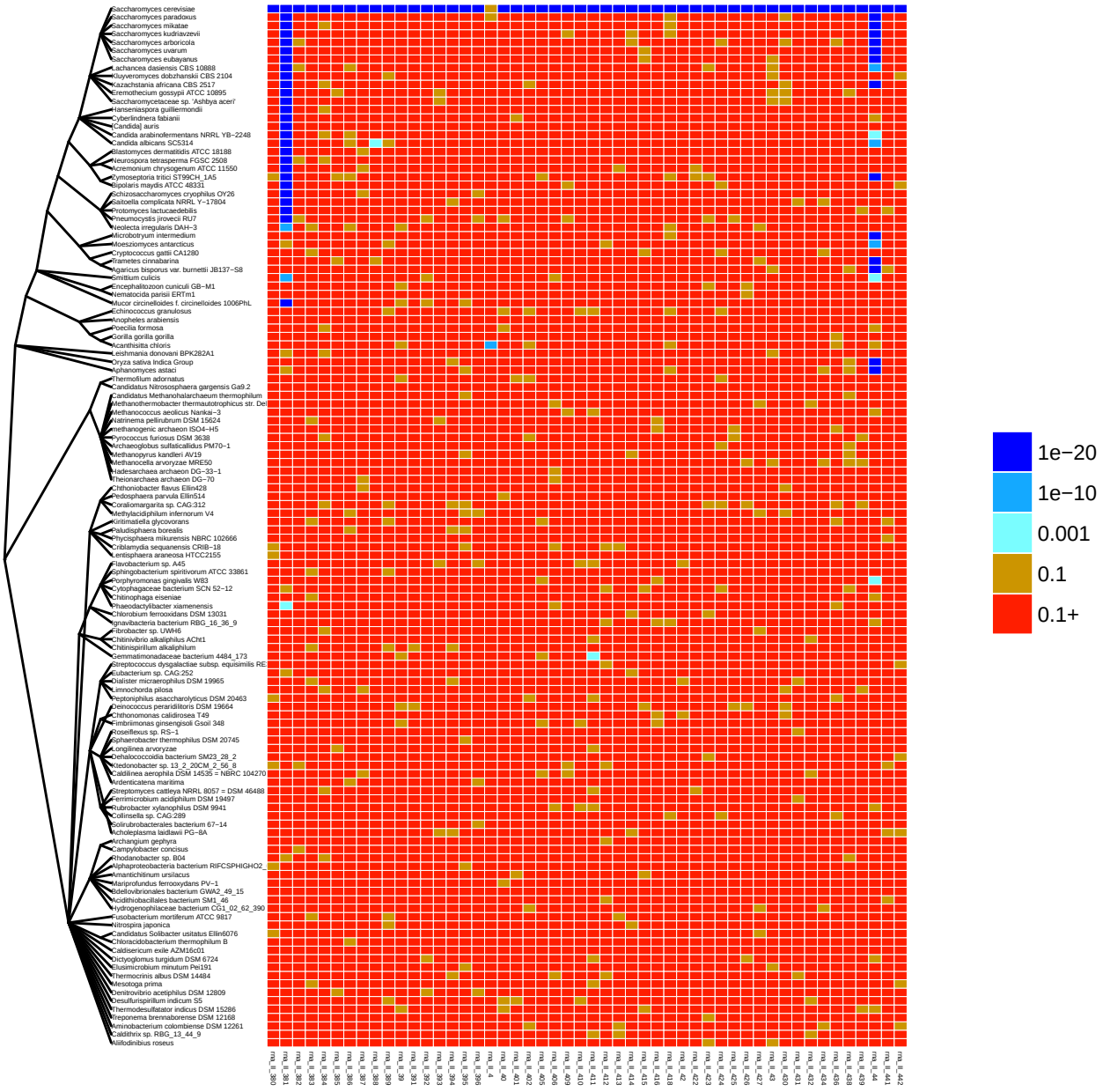

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonas
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis sp. R4
Candidatus Nitrosotenuis sp. J07TS1
Candidatus Nitrosotenuis sp. J07W1
Candidatus Nitrosotenuis sp. J07W2
Candidatus Nitrosotenuis sp. J07W3
Candidatus Nitrosotenuis sp. J07W4
Candidatus Nitrosotenuis sp. J07W5
Candidatus Nitrosotenuis sp. J07W6
Candidatus Nitrosotenuis sp. J07W7
Candidatus Nitrosotenuis sp. J07W8
Candidatus Nitrosotenuis sp. J07W9
Candidatus Nitrosotenuis sp. J07W10
Candidatus Nitrosotenuis sp. J07W11
Candidatus Nitrosotenuis sp. J07W12
Candidatus Nitrosotenuis sp. J07W13
Candidatus Nitrosotenuis sp. J07W14
Candidatus Nitrosotenuis sp. J07W15
Candidatus Nitrosotenuis sp. J07W16
Candidatus Nitrosotenuis sp. J07W17
Candidatus Nitrosotenuis sp. J07W18
Candidatus Nitrosotenuis sp. J07W19
Candidatus Nitrosotenuis sp. J07W20
Candidatus Nitrosotenuis sp. J07W21
Candidatus Nitrosotenuis sp. J07W22
Candidatus Nitrosotenuis sp. J07W23
Candidatus Nitrosotenuis sp. J07W24
Candidatus Nitrosotenuis sp. J07W25
Candidatus Nitrosotenuis sp. J07W26
Candidatus Nitrosotenuis sp. J07W27
Candidatus Nitrosotenuis sp. J07W28
Candidatus Nitrosotenuis sp. J07W29
Candidatus Nitrosotenuis sp. J07W30
Candidatus Nitrosotenuis sp. J07W31
Candidatus Nitrosotenuis sp. J07W32
Candidatus Nitrosotenuis sp. J07W33
Candidatus Nitrosotenuis sp. J07W34
Candidatus Nitrosotenuis sp. J07W35
Candidatus Nitrosotenuis sp. J07W36
Candidatus Nitrosotenuis sp. J07W37
Candidatus Nitrosotenuis sp. J07W38
Candidatus Nitrosotenuis sp. J07W39
Candidatus Nitrosotenuis sp. J07W40
Candidatus Nitrosotenuis sp. J07W41
Candidatus Nitrosotenuis sp. J07W42
Candidatus Nitrosotenuis sp. J07W43
Candidatus Nitrosotenuis sp. J07W44
Candidatus Nitrosotenuis sp. J07W45
Candidatus Nitrosotenuis sp. J07W46
Candidatus Nitrosotenuis sp. J07W47
Candidatus Nitrosotenuis sp. J07W48
Candidatus Nitrosotenuis sp. J07W49
Candidatus Nitrosotenuis sp. J07W50
Candidatus Nitrosotenuis sp. J07W51
Candidatus Nitrosotenuis sp. J07W52
Candidatus Nitrosotenuis sp. J07W53
Candidatus Nitrosotenuis sp. J07W54
Candidatus Nitrosotenuis sp. J07W55
Candidatus Nitrosotenuis sp. J07W56
Candidatus Nitrosotenuis sp. J07W57
Candidatus Nitrosotenuis sp. J07W58
Candidatus Nitrosotenuis sp. J07W59
Candidatus Nitrosotenuis sp. J07W60
Candidatus Nitrosotenuis sp. J07W61
Candidatus Nitrosotenuis sp. J07W62
1e−20
1e−10
0.001
0.1
0.1+

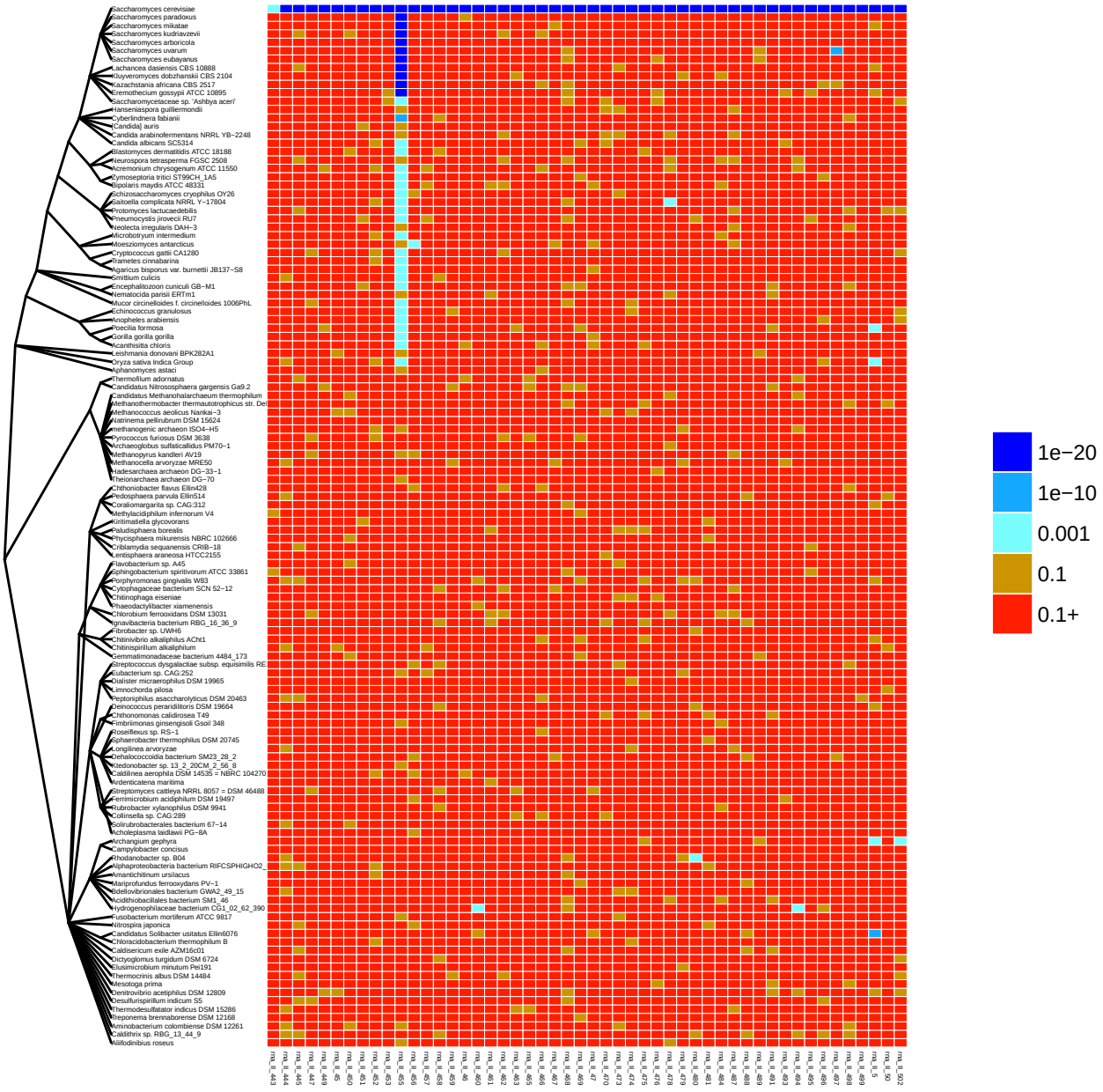

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Ruthia sp. RBG_13_44_9
Nitrosodinubius roseus
rna_ll_1564
rna_ll_1565
rna_ll_1566
rna_ll_1567
rna_ll_1569
rna_ll_1570
rna_ll_1571
rna_ll_1573
rna_ll_1574
rna_ll_1575
rna_ll_1576
rna_ll_1578
rna_ll_1581
rna_ll_1582
rna_ll_1583
rna_ll_1584
rna_ll_1585
rna_ll_1587
rna_ll_1588
rna_ll_1589
rna_ll_16
rna_ll_160
rna_ll_161
rna_ll_167
rna_ll_168
rna_ll_169
rna_ll_17
rna_ll_171
rna_ll_173
rna_ll_174
rna_ll_175
rna_ll_176
rna_ll_177
rna_ll_178
rna_ll_179
rna_ll_18
rna_ll_180
rna_ll_181
rna_ll_182
rna_ll_183
rna_ll_184
rna_ll_187
rna_ll_188
rna_ll_189
rna_ll_19
rna_ll_190
rna_ll_192
rna_ll_194
rna_ll_195
rna_ll_196
1e−20
1e−10
0.001
0.1
0.1+

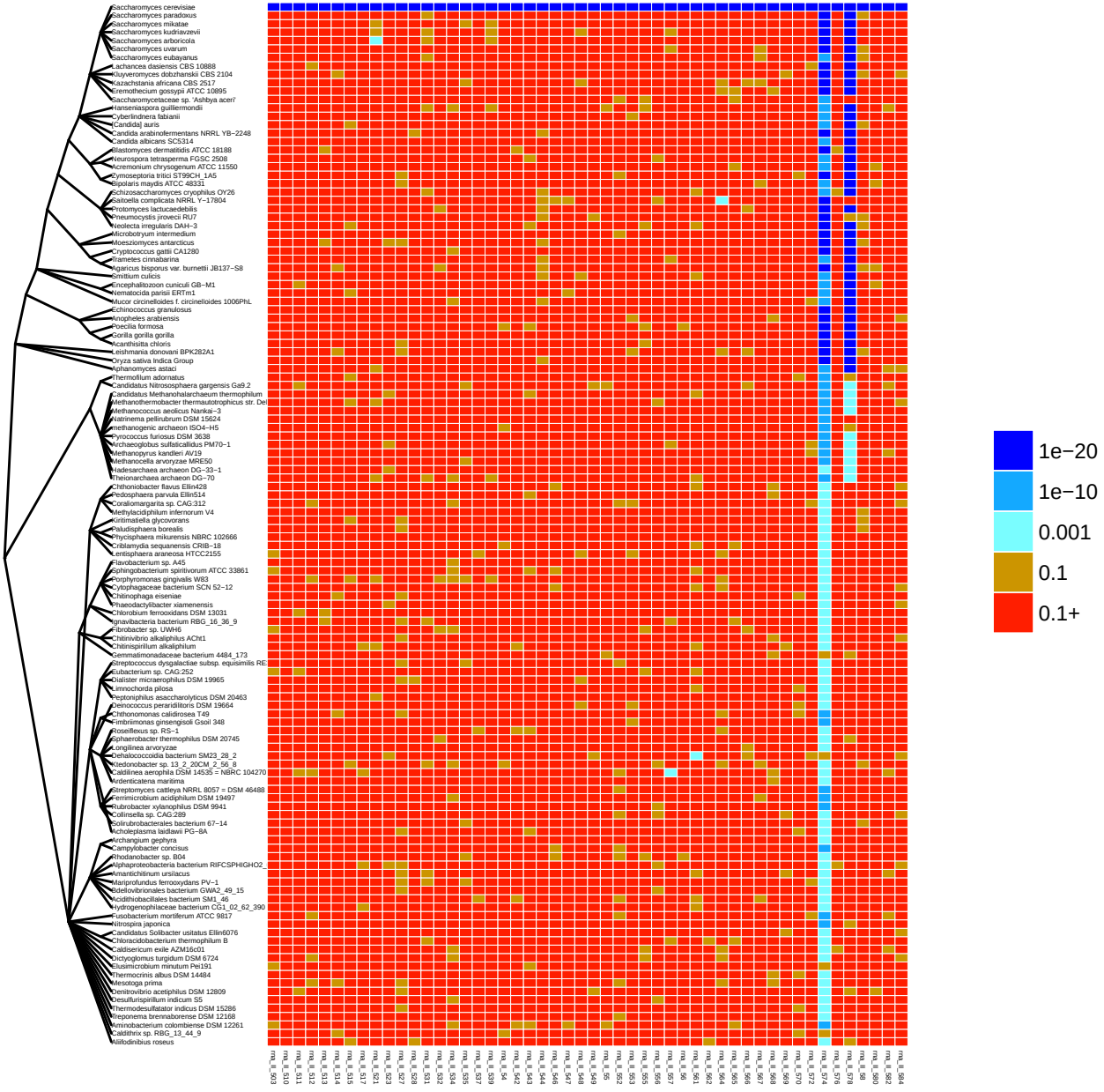

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_ll_197
ma_ll_198
ma_ll_199
ma_ll_20
ma_ll_200
ma_ll_203
ma_ll_204
ma_ll_205
ma_ll_207
ma_ll_21
ma_ll_211
ma_ll_214
ma_ll_215
ma_ll_216
ma_ll_217
ma_ll_218
ma_ll_22
ma_ll_220
ma_ll_221
ma_ll_223
ma_ll_225
ma_ll_226
ma_ll_228
ma_ll_229
ma_ll_231
ma_ll_233
ma_ll_234
ma_ll_235
ma_ll_237
ma_ll_238
ma_ll_239
ma_ll_24
ma_ll_240
ma_ll_241
ma_ll_243
ma_ll_245
ma_ll_246
ma_ll_247
ma_ll_248
ma_ll_25
ma_ll_250
ma_ll_251
ma_ll_252
ma_ll_253
ma_ll_254
ma_ll_255
ma_ll_256
ma_ll_259
ma_ll_26
ma_ll_260
1e−20
1e−10
0.001
0.1
0.1+

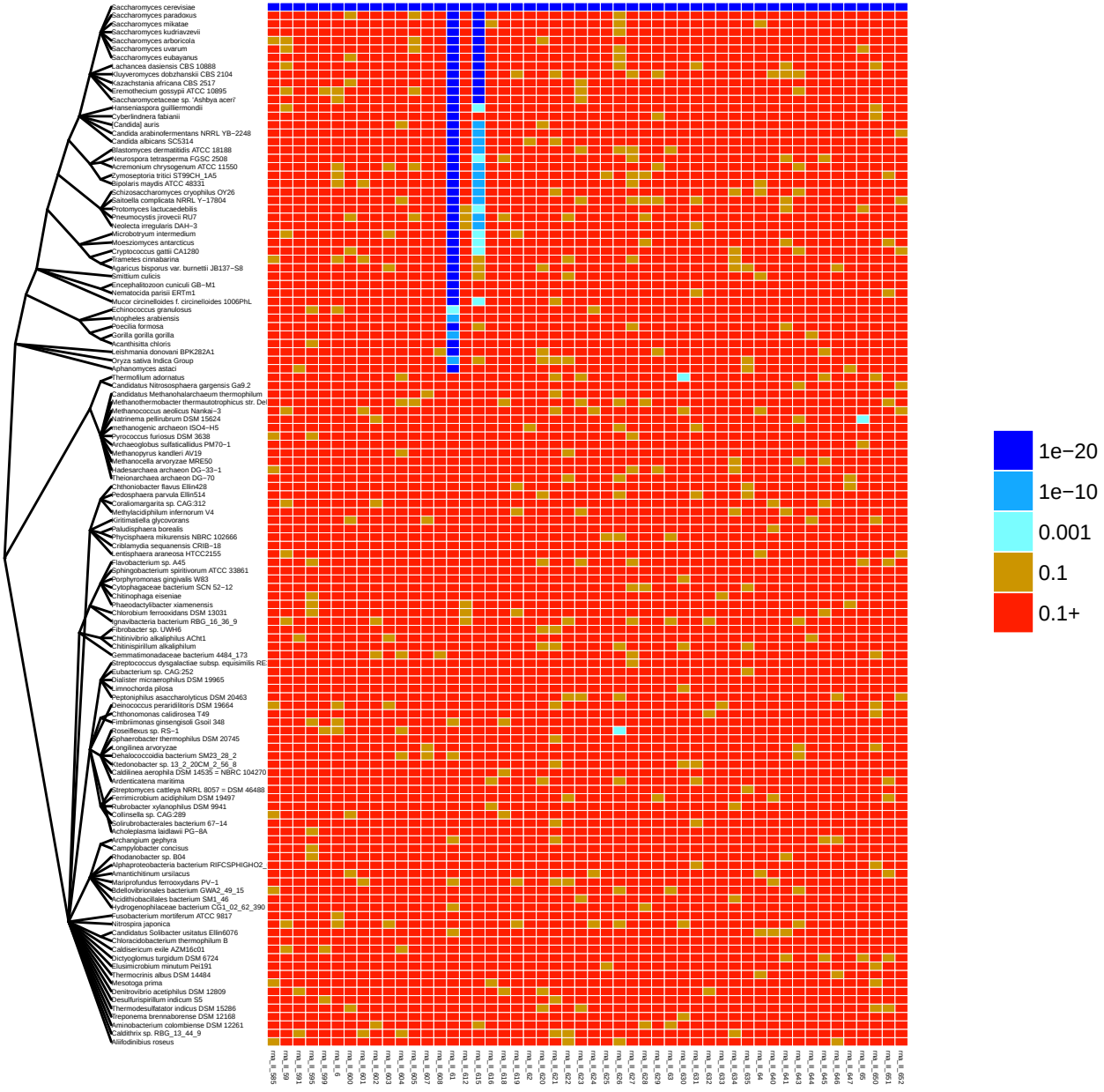

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonasi
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis sp. R4
Candidatus Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis sp. J07TS1
Candidatus Nitrosotenuis sp. J07W1
Candidatus Nitrosotenuis sp. J07W2
Candidatus Nitrosotenuis sp. J07W3
Candidatus Nitrosotenuis sp. J07W4
Candidatus Nitrosotenuis sp. J07W5
Candidatus Nitrosotenuis sp. J07W6
Candidatus Nitrosotenuis sp. J07W7
Candidatus Nitrosotenuis sp. J07W8
Candidatus Nitrosotenuis sp. J07W9
Candidatus Nitrosotenuis sp. J07W10
Candidatus Nitrosotenuis sp. J07W11
Candidatus Nitrosotenuis sp. J07W12
Candidatus Nitrosotenuis sp. J07W13
Candidatus Nitrosotenuis sp. J07W14
Candidatus Nitrosotenuis sp. J07W15
Candidatus Nitrosotenuis sp. J07W16
Candidatus Nitrosotenuis sp. J07W17
Candidatus Nitrosotenuis sp. J07W18
Candidatus Nitrosotenuis sp. J07W19
Candidatus Nitrosotenuis sp. J07W20
1e−20
1e−10
0.001
0.1

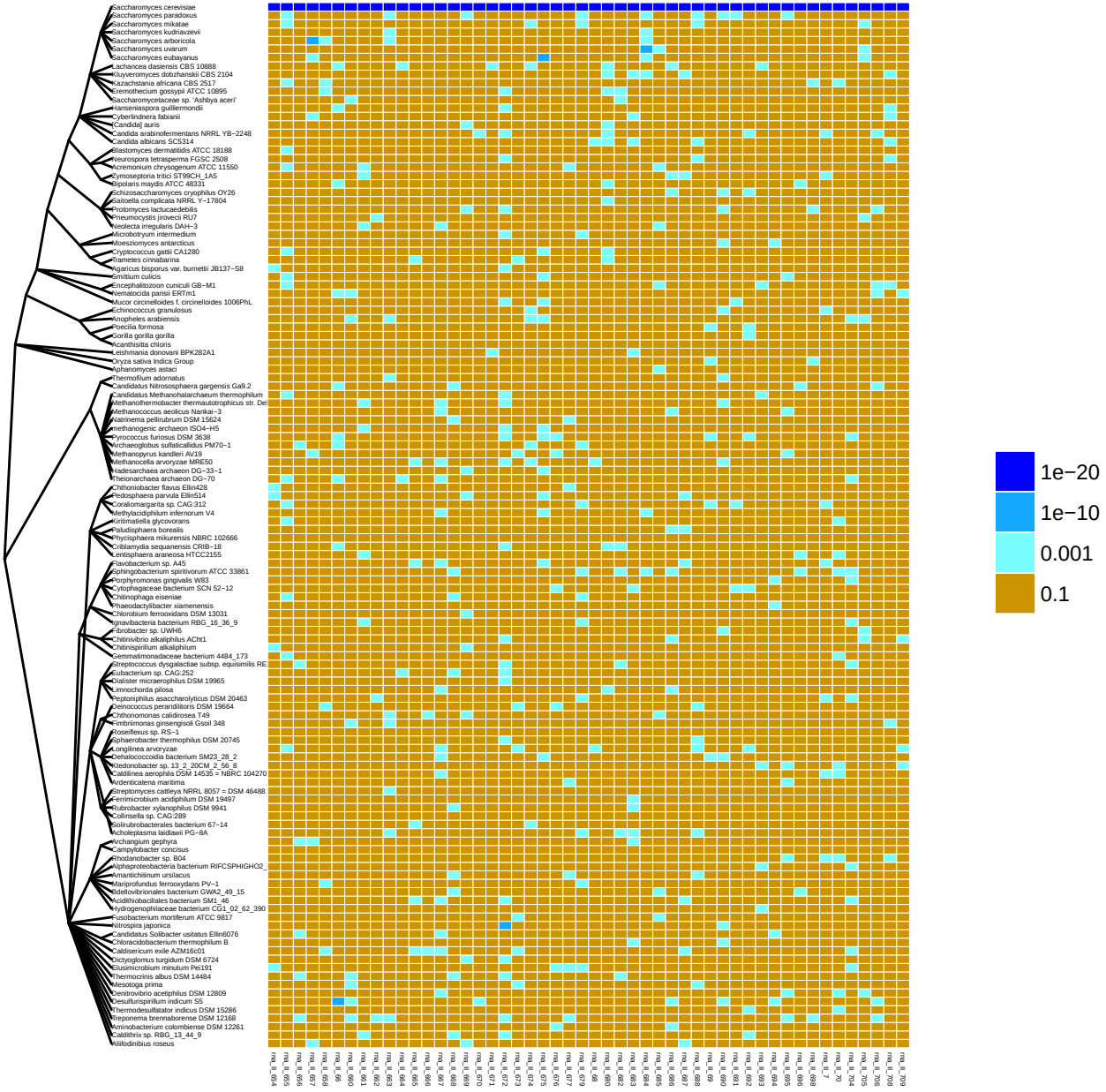

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
mu_ti_322
mu_ti_323
mu_ti_324
mu_ti_325
mu_ti_327
mu_ti_329
mu_ti_33
mu_ti_330
mu_ti_331
mu_ti_333
mu_ti_334
mu_ti_337
mu_ti_338
mu_ti_339
mu_ti_340
mu_ti_341
mu_ti_342
mu_ti_343
mu_ti_344
mu_ti_345
mu_ti_346
mu_ti_347
mu_ti_348
mu_ti_349
mu_ti_35
mu_ti_350
mu_ti_351
mu_ti_352
mu_ti_353
mu_ti_354
mu_ti_355
mu_ti_356
mu_ti_358
mu_ti_359
mu_ti_36
mu_ti_360
mu_ti_361
mu_ti_362
mu_ti_363
mu_ti_365
mu_ti_366
mu_ti_367
mu_ti_368
mu_ti_369
mu_ti_37
mu_ti_371
mu_ti_374
mu_ti_376
mu_ti_378
mu_ti_379
mu_ti_38
1e−20
1e−10
0.001
0.1
0.1+

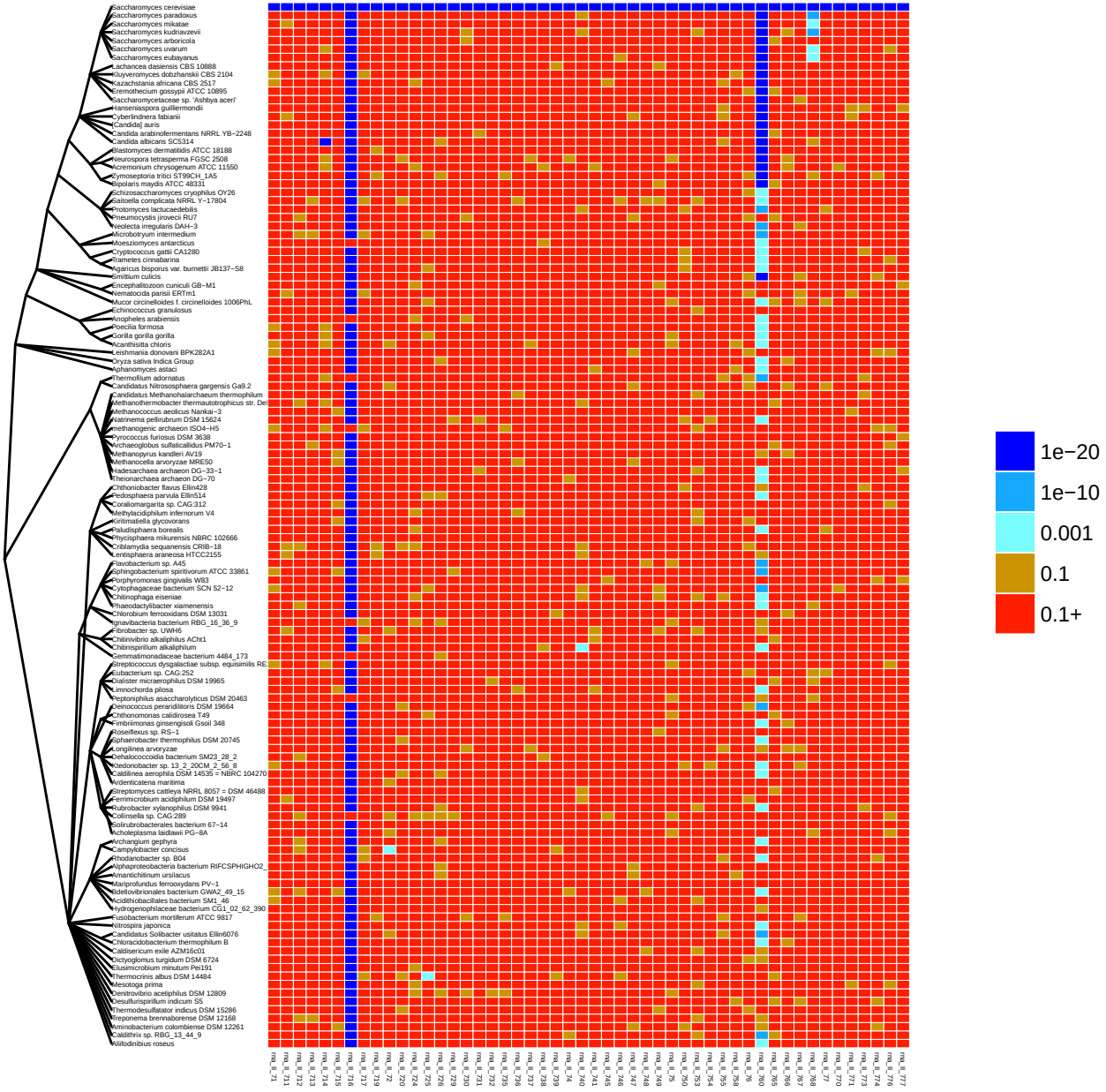

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis
Sporobolomyces salmonicolor
Rhodotorula mucilaginosa
Cryptococcus neoformans var. grubii
Cryptococcus gattii WM276
Ustilago maydis 521
Sporisorium reilianum SRS1
Pseudozyma hubeiana
Tremella mesenterica
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosopumilus koreensis AR1
Candidatus Nitrosopumilus cobalami
Candidatus Nitrosopumilus sp. AR2
Candidatus Nitrosopumilus sp. U25
Candidatus Nitrosopumilus sp. U27
Candidatus Nitrosopumilus sp. U29
Candidatus Nitrosopumilus sp. U32
Candidatus Nitrosopumilus sp. U34
Candidatus Nitrosopumilus sp. U35
Candidatus Nitrosopumilus sp. U36
Candidatus Nitrosopumilus sp. U40
Candidatus Nitrosopumilus sp. U41
Candidatus Nitrosopumilus sp. U42
Candidatus Nitrosopumilus sp. U46
Candidatus Nitrosopumilus sp. U47
Candidatus Nitrosopumilus sp. U48
Candidatus Nitrosopumilus sp. U49
Candidatus Nitrosopumilus sp. U50
Candidatus Nitrosopumilus sp. U51
Candidatus Nitrosopumilus sp. U52
Candidatus Nitrosopumilus sp. U53
Candidatus Nitrosopumilus sp. U54
Candidatus Nitrosopumilus sp. U55
Candidatus Nitrosopumilus sp. U56
Candidatus Nitrosopumilus sp. U57
Candidatus Nitrosopumilus sp. U58
Candidatus Nitrosopumilus sp. U59
Candidatus Nitrosopumilus sp. U60
Candidatus Nitrosopumilus sp. U61
Candidatus Nitrosopumilus sp. U62
Candidatus Nitrosopumilus sp. U63
Candidatus Nitrosopumilus sp. U64
Candidatus Nitrosopumilus sp. U65
Candidatus Nitrosopumilus sp. U66
Candidatus Nitrosopumilus sp. U67
Candidatus Nitrosopumilus sp. U68
Candidatus Nitrosopumilus sp. U69
Candidatus Nitrosopumilus sp. U70
Candidatus Nitrosopumilus sp. U71
Candidatus Nitrosopumilus sp. U72
Candidatus Nitrosopumilus sp. U73
Candidatus Nitrosopumilus sp. U74
Candidatus Nitrosopumilus sp. U75
Candidatus Nitrosopumilus sp. U76
Candidatus Nitrosopumilus sp. U77
Candidatus Nitrosopumilus sp. U78
Candidatus Nitrosopumilus sp. U79
Candidatus Nitrosopumilus sp. U80
Candidatus Nitrosopumilus sp. U81
Candidatus Nitrosopumilus sp. U82
Candidatus Nitrosopumilus sp. U83
Candidatus Nitrosopumilus sp. U84
Candidatus Nitrosopumilus sp. U85
Candidatus Nitrosopumilus sp. U86
Candidatus Nitrosopumilus sp. U87
Candidatus Nitrosopumilus sp. U88
Candidatus Nitrosopumilus sp. U89
Candidatus Nitrosopumilus sp. U90
Candidatus Nitrosopumilus sp. U91
Candidatus Nitrosopumilus sp. U92
Candidatus Nitrosopumilus sp. U93
Candidatus Nitrosopumilus sp. U94
Candidatus Nitrosopumilus sp. U95
Candidatus Nitrosopumilus sp. U96
Candidatus Nitrosopumilus sp. U97
Candidatus Nitrosopumilus sp. U98
Candidatus Nitrosopumilus sp. U99
Candidatus Nitrosopumilus sp. U100
Candidatus Nitrosopumilus sp. U101
Candidatus Nitrosopumilus sp. U102
Candidatus Nitrosopumilus sp. U103
Candidatus Nitrosopumilus sp. U104
Candidatus Nitrosopumilus sp. U105
Candidatus Nitrosopumilus sp. U106
Candidatus Nitrosopumilus sp. U107
Candidatus Nitrosopumilus sp. U108
Candidatus Nitrosopumilus sp. U109
Candidatus Nitrosopumilus sp. U110
Candidatus Nitrosopumilus sp. U111
Candidatus Nitrosopumilus sp. U112
Candidatus Nitrosopumilus sp. U113
Candidatus Nitrosopumilus sp. U114
Candidatus Nitrosopumilus sp. U115
Candidatus Nitrosopumilus sp. U116
Candidatus Nitrosopumilus sp. U117
Candidatus Nitrosopumilus sp. U118
Candidatus Nitrosopumilus sp. U119
Candidatus Nitrosopumilus sp. U120
Candidatus Nitrosopumilus sp. U121
Candidatus Nitrosopumilus sp. U122
Candidatus Nitrosopumilus sp. U123
Candidatus Nitrosopumilus sp. U124
Candidatus Nitrosopumilus sp. U125
Candidatus Nitrosopumilus sp. U126
Candidatus Nitrosopumilus sp. U127
Candidatus Nitrosopumilus sp. U128
Candidatus Nitrosopumilus sp. U129
Candidatus Nitrosopumilus sp. U130
Candidatus Nitrosopumilus sp. U131
Candidatus Nitrosopumilus sp. U132
Candidatus Nitrosopumilus sp. U133
Candidatus Nitrosopumilus sp. U134
Candidatus Nitrosopumilus sp. U135
Candidatus Nitrosopumilus sp. U136
Candidatus Nitrosopumilus sp. U137
Candidatus Nitrosopumilus sp. U138
Candidatus Nitrosopumilus sp. U139
Candidatus Nitrosopumilus sp. U140
Candidatus Nitrosopumilus sp. U141
Candidatus Nitrosopumilus sp. U142
1e−20
1e−10
0.001
0.1
0.1+

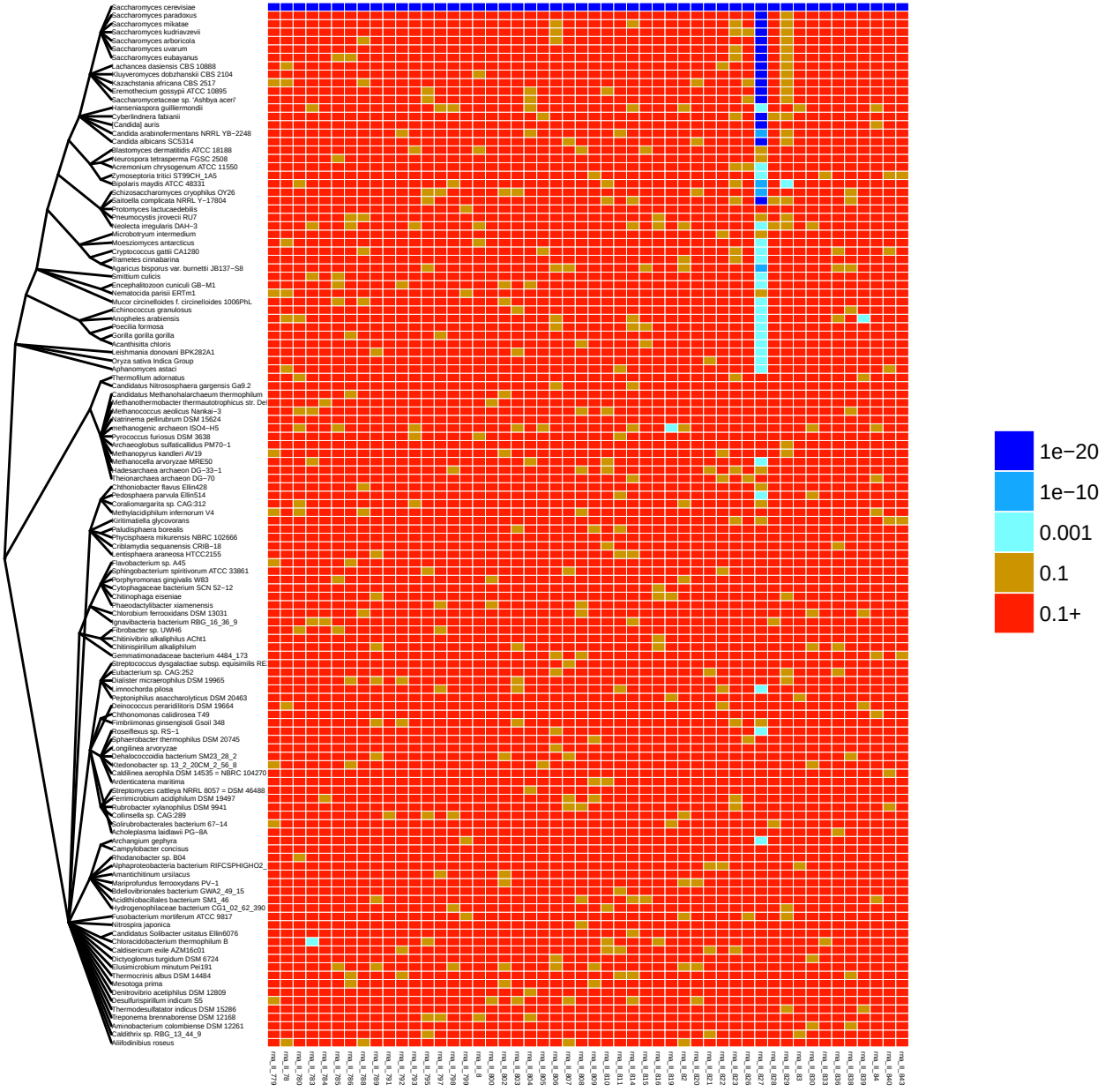

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_ll_443
mu_ll_444
mu_ll_445
mu_ll_447
mu_ll_449
mu_ll_45
mu_ll_450
mu_ll_451
mu_ll_452
mu_ll_453
mu_ll_455
mu_ll_456
mu_ll_457
mu_ll_458
mu_ll_459
mu_ll_46
mu_ll_460
mu_ll_461
mu_ll_462
mu_ll_463
mu_ll_465
mu_ll_466
mu_ll_467
mu_ll_468
mu_ll_469
mu_ll_47
mu_ll_470
mu_ll_473
mu_ll_474
mu_ll_475
mu_ll_476
mu_ll_478
mu_ll_479
mu_ll_480
mu_ll_481
mu_ll_484
mu_ll_487
mu_ll_488
mu_ll_489
mu_ll_491
mu_ll_493
mu_ll_494
mu_ll_495
mu_ll_496
mu_ll_497
mu_ll_498
mu_ll_499
mu_ll_5
mu_ll_50
mu_ll_502
1e−20
1e−10
0.001
0.1
0.1+

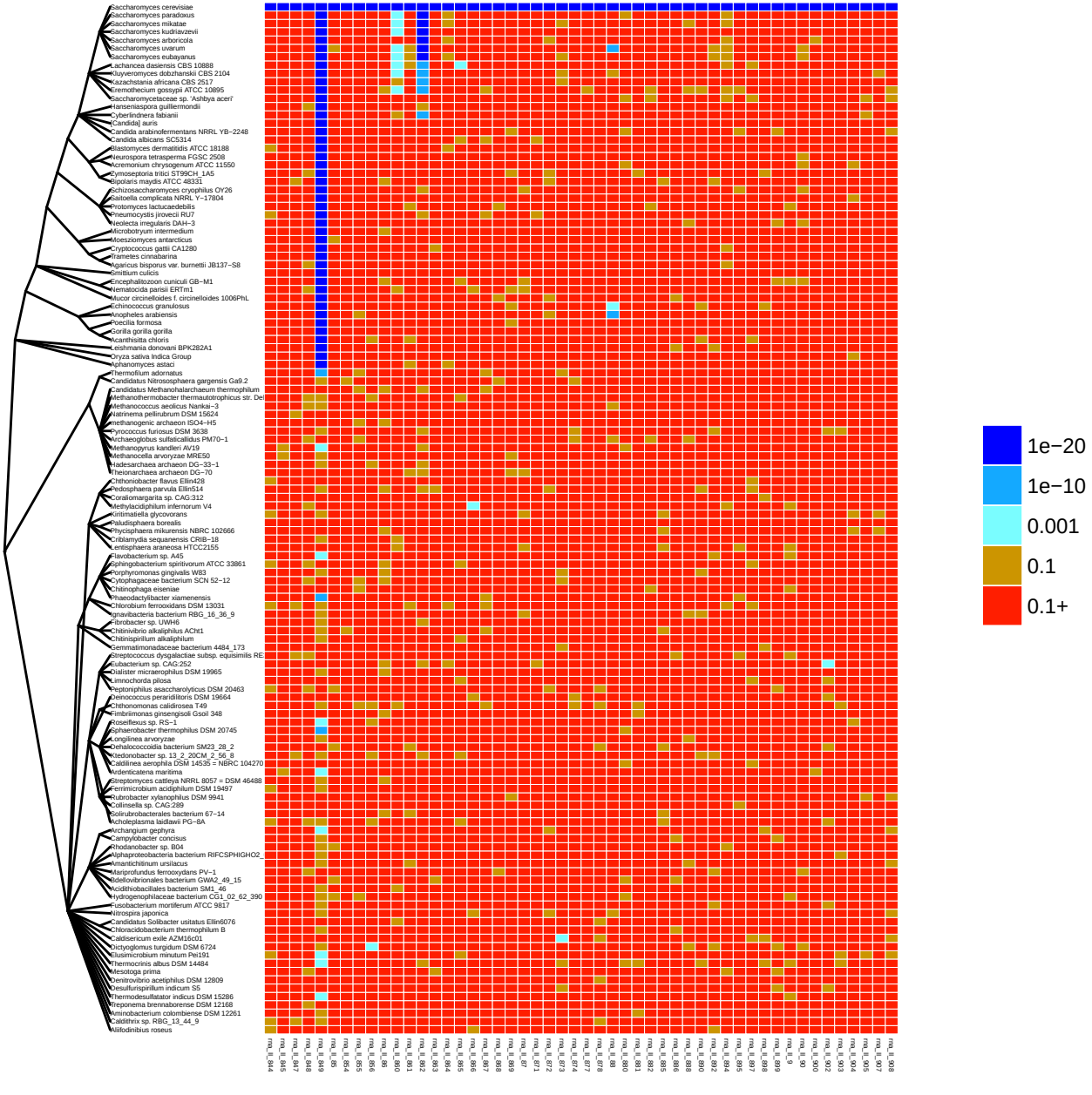

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_ll_503
ma_ll_510
ma_ll_511
ma_ll_512
ma_ll_513
ma_ll_514
ma_ll_515
ma_ll_517
ma_ll_521
ma_ll_523
ma_ll_527
ma_ll_528
ma_ll_531
ma_ll_532
ma_ll_534
ma_ll_535
ma_ll_537
ma_ll_539
ma_ll_54
ma_ll_542
ma_ll_543
ma_ll_544
ma_ll_546
ma_ll_547
ma_ll_548
ma_ll_549
ma_ll_55
ma_ll_552
ma_ll_553
ma_ll_555
ma_ll_556
ma_ll_557
ma_ll_56
ma_ll_561
ma_ll_562
ma_ll_564
ma_ll_565
ma_ll_566
ma_ll_567
ma_ll_568
ma_ll_569
ma_ll_570
ma_ll_572
ma_ll_574
ma_ll_576
ma_ll_578
ma_ll_58
ma_ll_580
ma_ll_582
ma_ll_584
1e−20
1e−10
0.001
0.1
0.1+

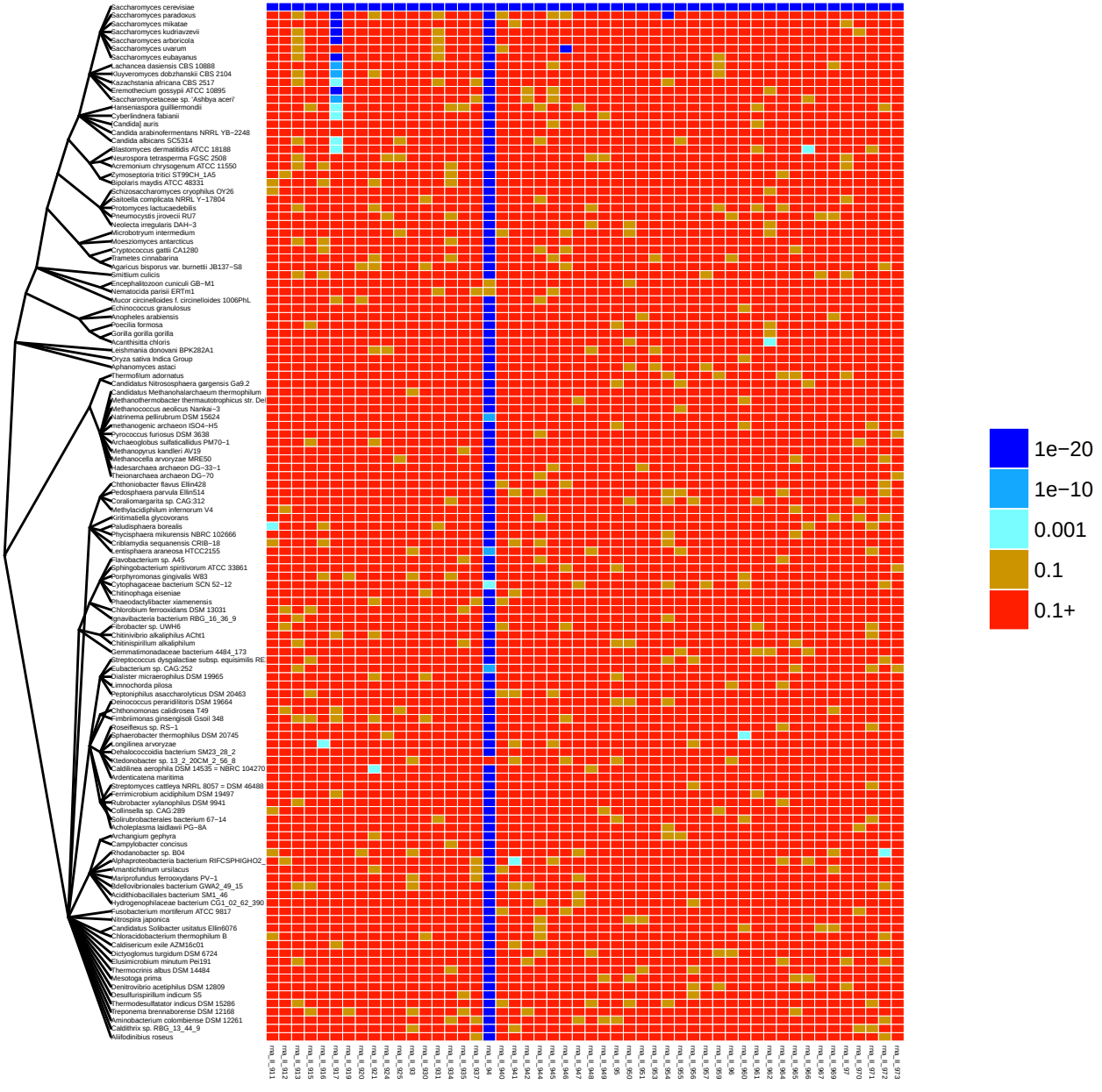

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thetionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Kiritimatiellaeota bacterium
Candidatus Xiphinematobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_ll_585
mu_ll_59
mu_ll_591
mu_ll_595
mu_ll_599
mu_ll_6
mu_ll_600
mu_ll_601
mu_ll_602
mu_ll_603
mu_ll_604
mu_ll_605
mu_ll_607
mu_ll_608
mu_ll_01
mu_ll_612
mu_ll_615
mu_ll_616
mu_ll_618
mu_ll_619
mu_ll_62
mu_ll_620
mu_ll_621
mu_ll_622
mu_ll_623
mu_ll_624
mu_ll_625
mu_ll_626
mu_ll_627
mu_ll_628
mu_ll_629
mu_ll_63
mu_ll_630
mu_ll_631
mu_ll_632
mu_ll_633
mu_ll_634
mu_ll_635
mu_ll_64
mu_ll_640
mu_ll_641
mu_ll_643
mu_ll_644
mu_ll_645
mu_ll_646
mu_ll_647
mu_ll_65
mu_ll_650
mu_ll_651
mu_ll_652
1e−20
1e−10
0.001
0.1
0.1+

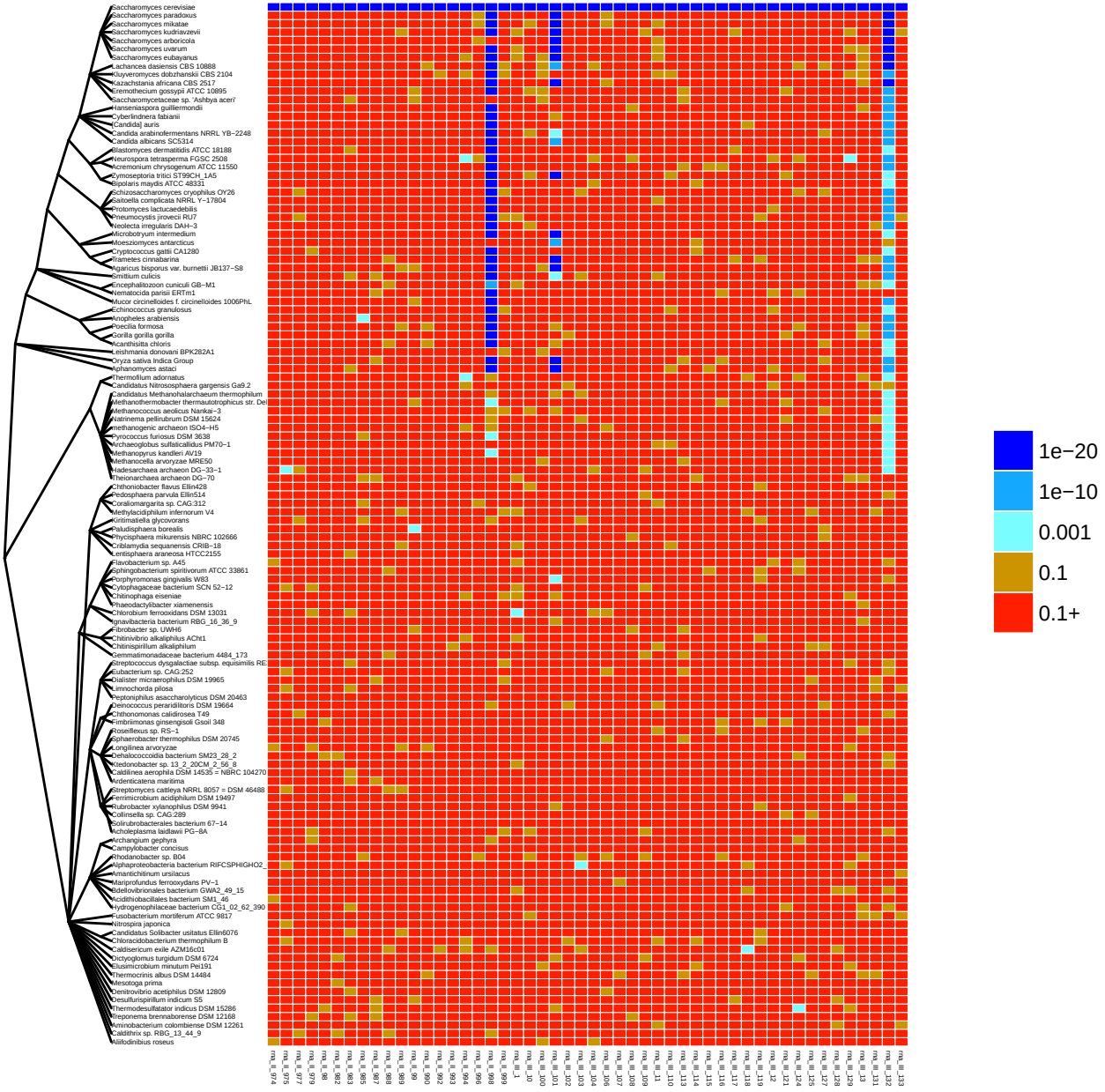

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_ii_654
mu_ii_655
mu_ii_656
mu_ii_657
mu_ii_658
mu_ii_659
mu_ii_660
mu_ii_661
mu_ii_662
mu_ii_663
mu_ii_664
mu_ii_665
mu_ii_666
mu_ii_667
mu_ii_668
mu_ii_669
mu_ii_670
mu_ii_671
mu_ii_672
mu_ii_673
mu_ii_674
mu_ii_675
mu_ii_676
mu_ii_677
mu_ii_678
mu_ii_679
mu_ii_680
mu_ii_681
mu_ii_682
mu_ii_683
mu_ii_684
mu_ii_685
mu_ii_686
mu_ii_687
mu_ii_688
mu_ii_689
mu_ii_690
mu_ii_691
mu_ii_692
mu_ii_693
mu_ii_694
mu_ii_695
mu_ii_696
mu_ii_697
mu_ii_698
mu_ii_699
mu_ii_700
mu_ii_704
mu_ii_705
mu_ii_706
mu_ii_708
mu_ii_709
1e−20
1e−10
0.001
0.1

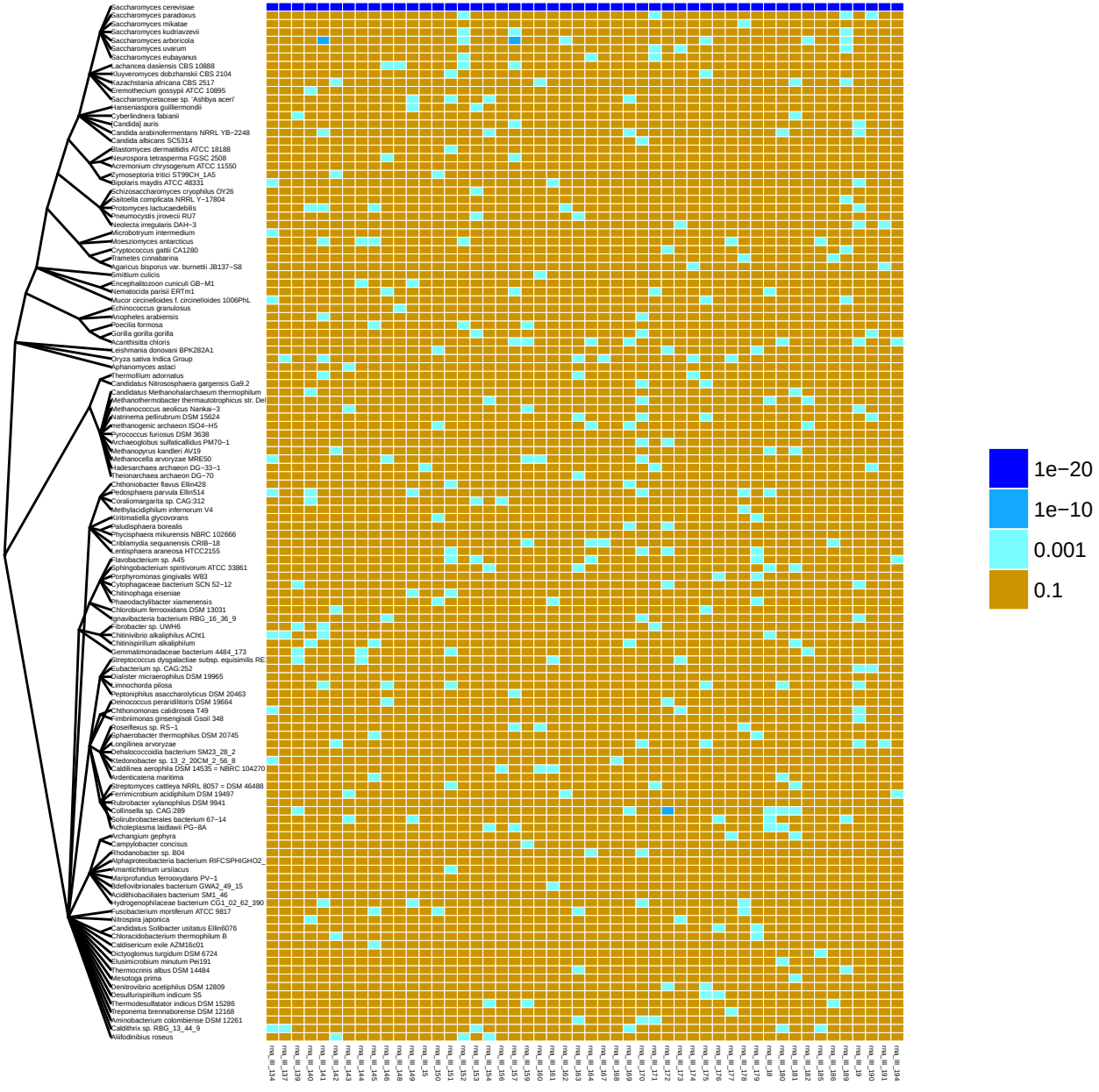

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_II_71
mu_II_711
mu_II_712
mu_II_713
mu_II_714
mu_II_715
mu_II_716
mu_II_717
mu_II_719
mu_II_720
mu_II_724
mu_II_725
mu_II_726
mu_II_729
mu_II_730
mu_II_731
mu_II_732
mu_II_735
mu_II_736
mu_II_737
mu_II_738
mu_II_739
mu_II_740
mu_II_741
mu_II_745
mu_II_746
mu_II_747
mu_II_748
mu_II_749
mu_II_75
mu_II_750
mu_II_753
mu_II_754
mu_II_755
mu_II_758
mu_II_76
mu_II_760
mu_II_765
mu_II_766
mu_II_767
mu_II_768
mu_II_77
mu_II_770
mu_II_771
mu_II_773
mu_II_774
mu_II_776
mu_II_777
1e−20
1e−10
0.001
0.1
0.1+

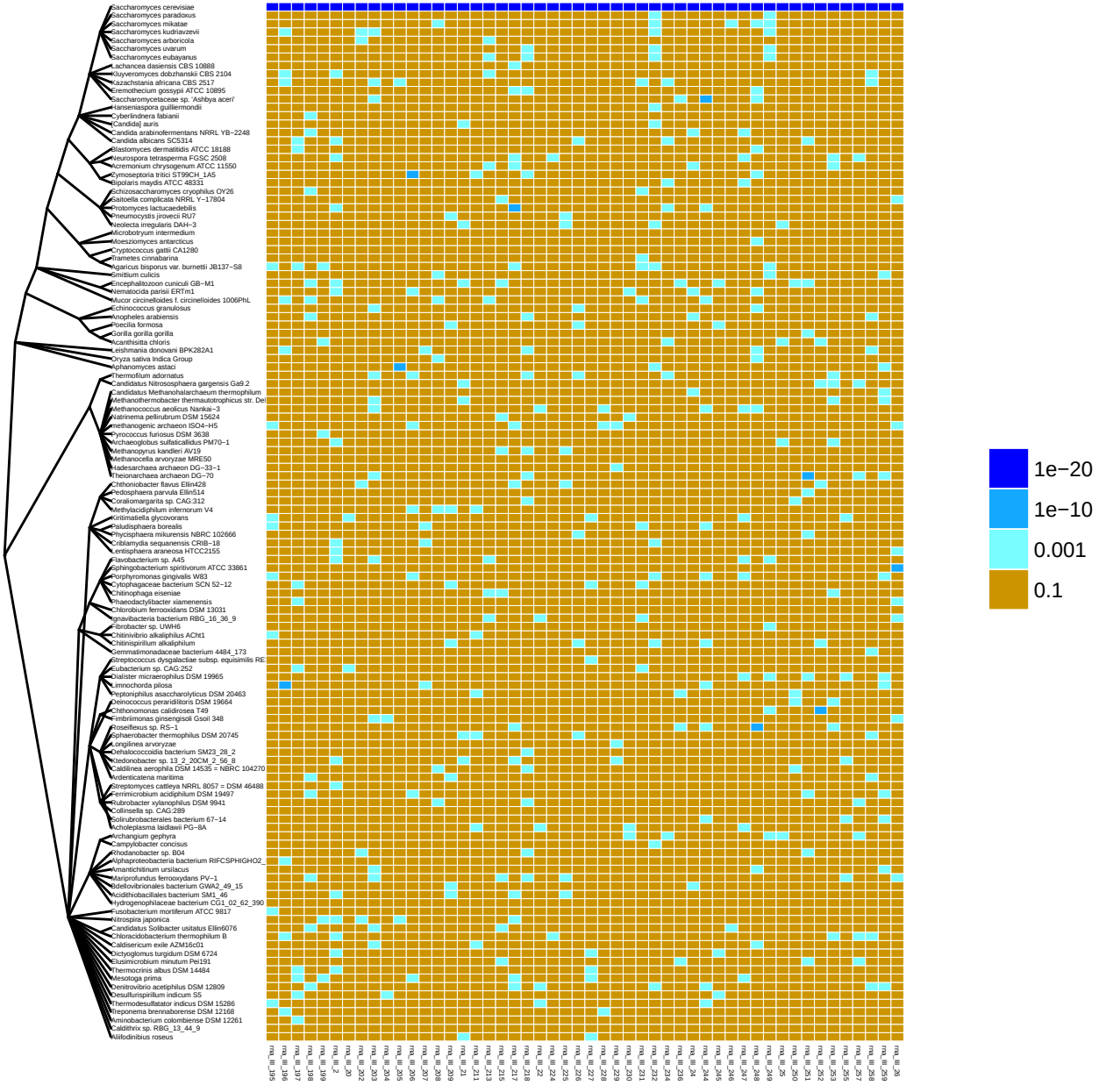

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_ll_779
mu_ll_78
mu_ll_780
mu_ll_783
mu_ll_784
mu_ll_785
mu_ll_786
mu_ll_788
mu_ll_789
mu_ll_791
mu_ll_792
mu_ll_793
mu_ll_795
mu_ll_797
mu_ll_798
mu_ll_799
mu_ll_8
mu_ll_800
mu_ll_802
mu_ll_803
mu_ll_804
mu_ll_805
mu_ll_806
mu_ll_807
mu_ll_808
mu_ll_809
mu_ll_810
mu_ll_811
mu_ll_814
mu_ll_815
mu_ll_816
mu_ll_819
mu_ll_82
mu_ll_820
mu_ll_821
mu_ll_822
mu_ll_823
mu_ll_826
mu_ll_827
mu_ll_828
mu_ll_829
mu_ll_83
mu_ll_830
mu_ll_833
mu_ll_836
mu_ll_838
mu_ll_839
mu_ll_84
mu_ll_840
mu_ll_843
1e−20
1e−10
0.001
0.1
0.1+

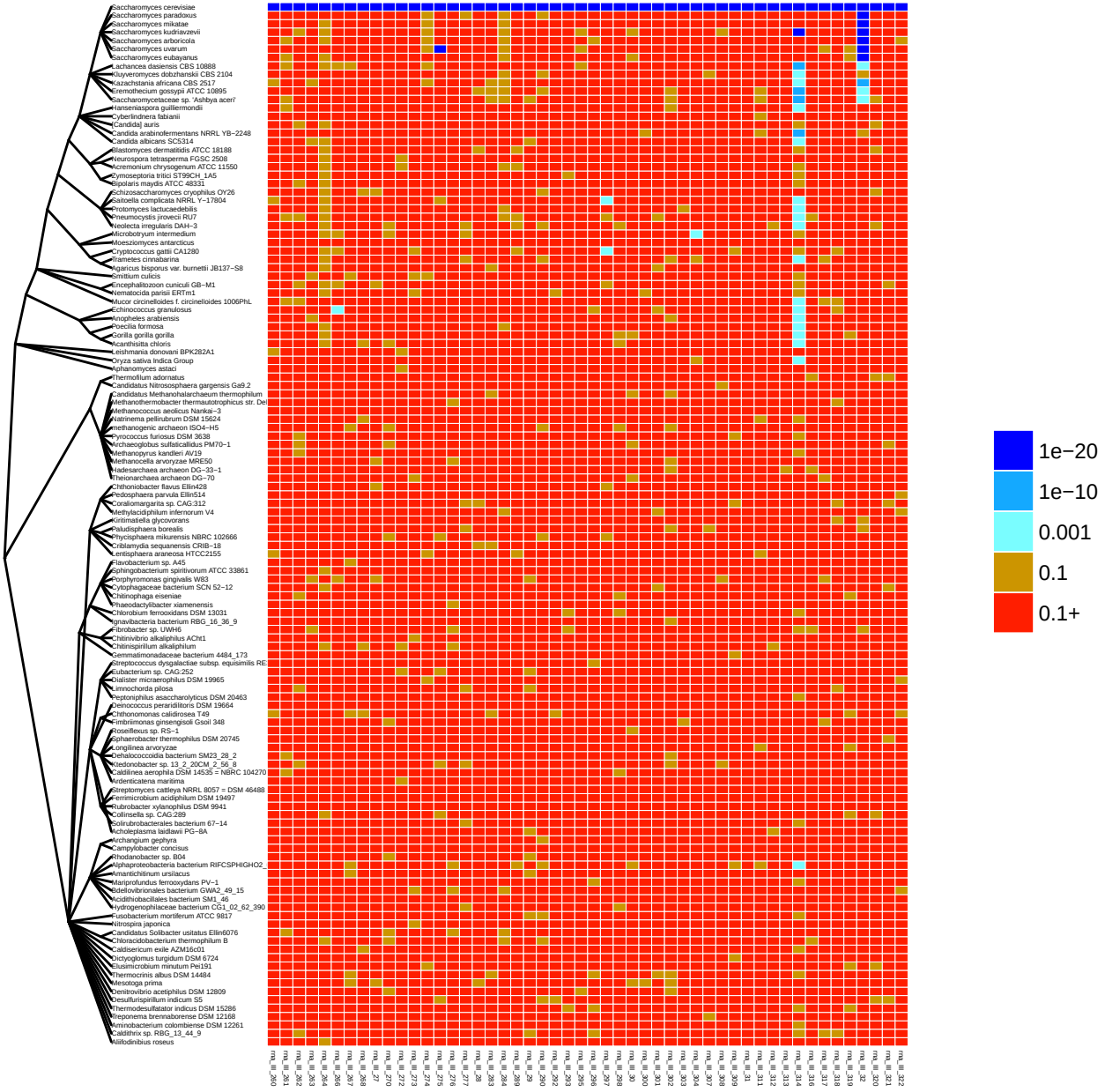

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_ll_944
mu_ll_945
mu_ll_947
mu_ll_948
mu_ll_949
mu_ll_85
mu_ll_854
mu_ll_855
mu_ll_856
mu_ll_86
mu_ll_860
mu_ll_861
mu_ll_862
mu_ll_863
mu_ll_864
mu_ll_865
mu_ll_866
mu_ll_867
mu_ll_868
mu_ll_869
mu_ll_87
mu_ll_871
mu_ll_872
mu_ll_873
mu_ll_874
mu_ll_877
mu_ll_878
mu_ll_88
mu_ll_880
mu_ll_881
mu_ll_882
mu_ll_885
mu_ll_886
mu_ll_888
mu_ll_890
mu_ll_892
mu_ll_894
mu_ll_895
mu_ll_897
mu_ll_898
mu_ll_899
mu_ll_9
mu_ll_90
mu_ll_900
mu_ll_902
mu_ll_903
mu_ll_904
mu_ll_905
mu_ll_907
mu_ll_908
1e−20
1e−10
0.001
0.1
0.1+

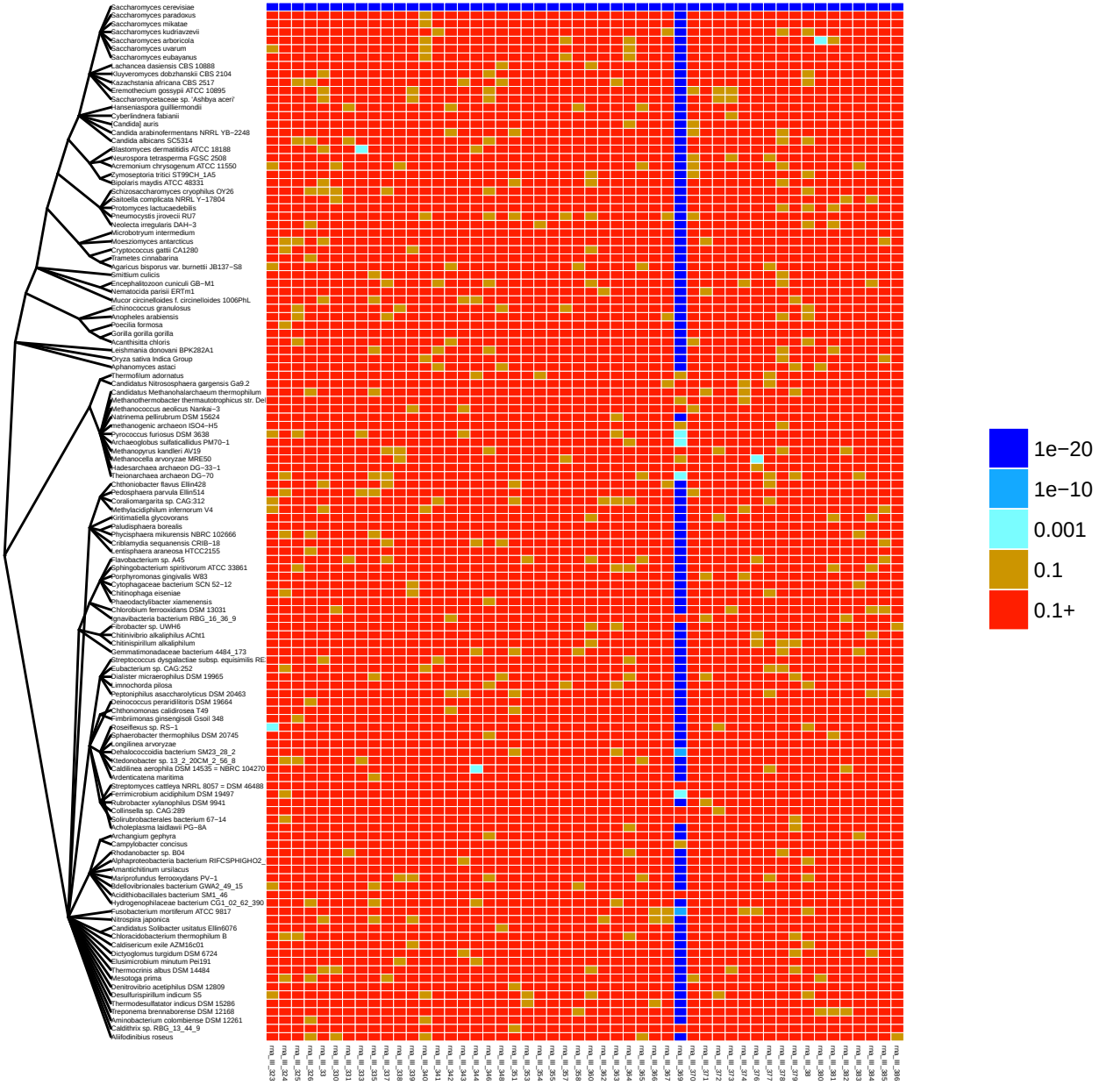

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
mu_ll_911
mu_ll_912
mu_ll_913
mu_ll_915
mu_ll_916
mu_ll_917
mu_ll_919
mu_ll_920
mu_ll_921
mu_ll_924
mu_ll_925
mu_ll_93
mu_ll_930
mu_ll_931
mu_ll_934
mu_ll_935
mu_ll_937
mu_ll_94
mu_ll_940
mu_ll_941
mu_ll_942
mu_ll_944
mu_ll_945
mu_ll_946
mu_ll_947
mu_ll_948
mu_ll_949
mu_ll_95
mu_ll_950
mu_ll_951
mu_ll_953
mu_ll_954
mu_ll_955
mu_ll_956
mu_ll_957
mu_ll_959
mu_ll_96
mu_ll_960
mu_ll_961
mu_ll_962
mu_ll_964
mu_ll_965
mu_ll_966
mu_ll_967
mu_ll_969
mu_ll_97
mu_ll_970
mu_ll_971
mu_ll_972
mu_ll_973
1e−20
1e−10
0.001
0.1
0.1+

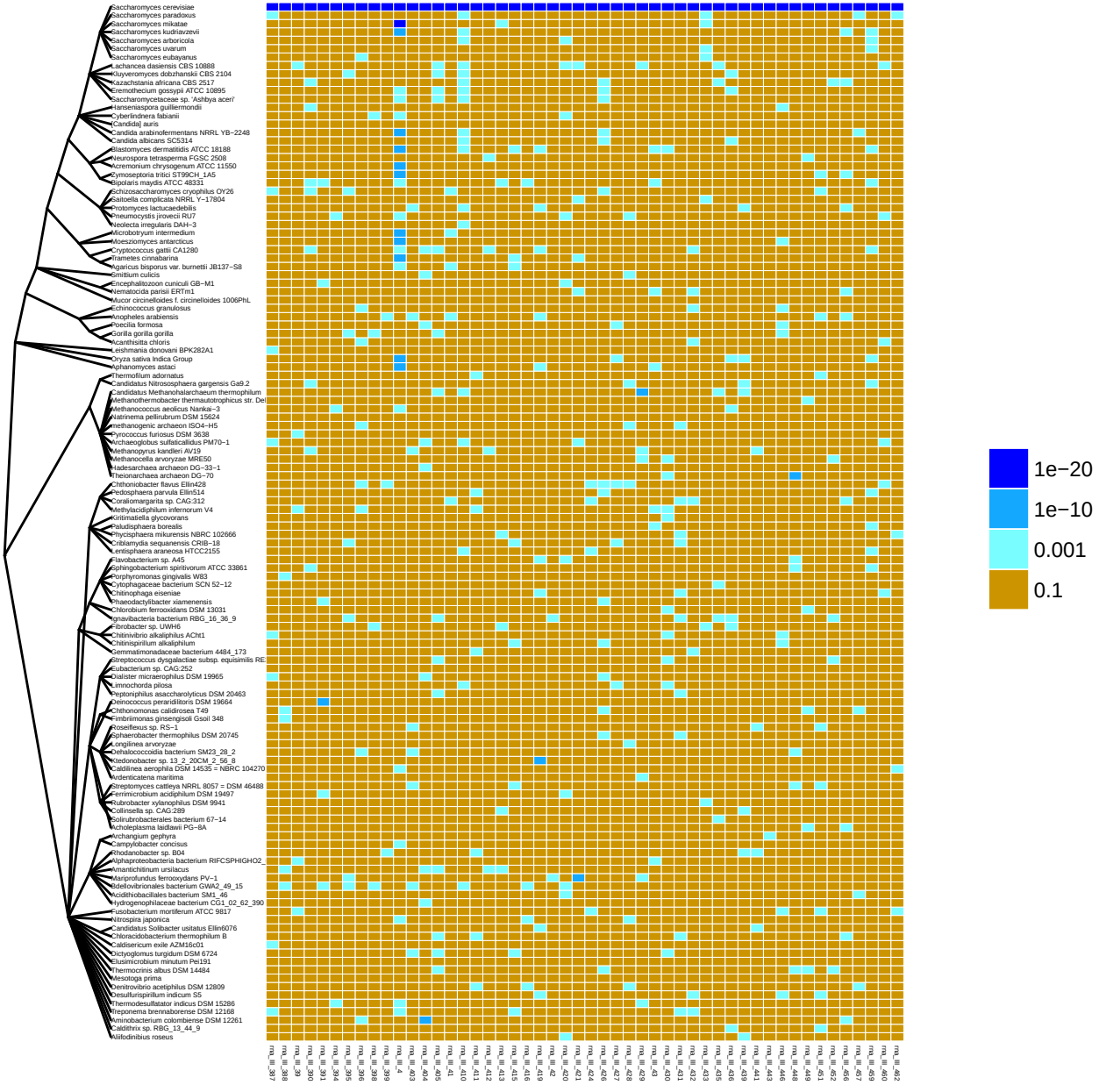

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_II_974
mu_II_975
mu_II_977
mu_II_979
mu_II_98
mu_II_982
mu_II_983
mu_II_985
mu_II_987
mu_II_988
mu_II_989
mu_II_99
mu_II_990
mu_II_992
mu_II_993
mu_II_994
mu_II_996
mu_II_998
mu_II_999
mu_II_1
mu_II_10
mu_II_100
mu_II_101
mu_II_102
mu_II_103
mu_II_104
mu_II_106
mu_II_107
mu_II_108
mu_II_109
mu_II_11
mu_II_110
mu_II_113
mu_II_114
mu_II_115
mu_II_116
mu_II_117
mu_II_118
mu_II_119
mu_II_12
mu_II_121
mu_II_124
mu_II_125
mu_II_127
mu_II_128
mu_II_129
mu_II_13
mu_II_131
mu_II_132
mu_II_133
1e−20
1e−10
0.001
0.1
0.1+

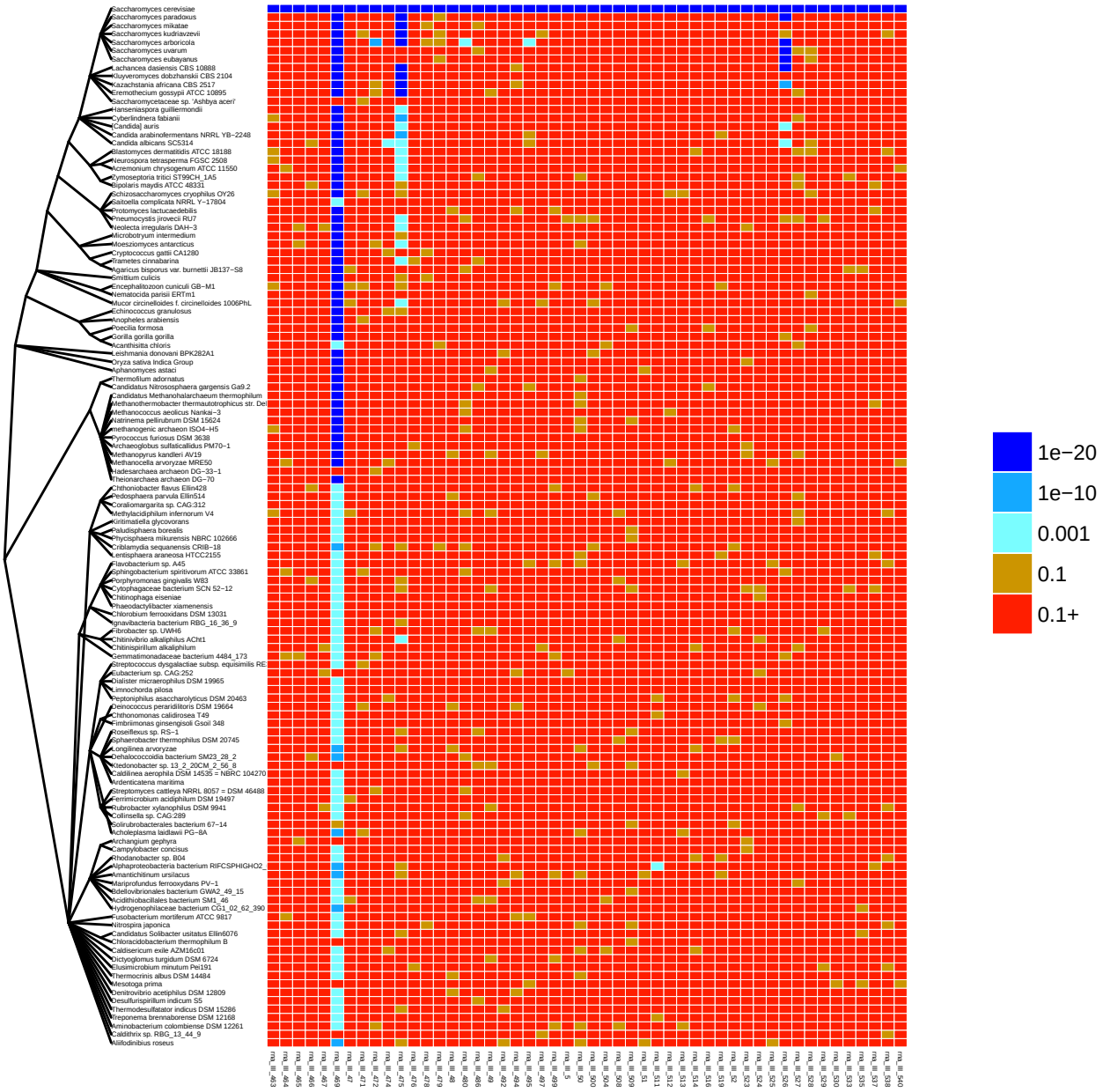

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
rna_ill_134
rna_ill_137
rna_ill_139
rna_ill_140
rna_ill_141
rna_ill_142
rna_ill_143
rna_ill_144
rna_ill_145
rna_ill_146
rna_ill_148
rna_ill_149
rna_ill_15
rna_ill_150
rna_ill_151
rna_ill_152
rna_ill_153
rna_ill_154
rna_ill_156
rna_ill_157
rna_ill_159
rna_ill_160
rna_ill_161
rna_ill_162
rna_ill_163
rna_ill_164
rna_ill_167
rna_ill_168
rna_ill_169
rna_ill_170
rna_ill_171
rna_ill_172
rna_ill_173
rna_ill_174
rna_ill_175
rna_ill_176
rna_ill_177
rna_ill_178
rna_ill_179
rna_ill_18
rna_ill_180
rna_ill_181
rna_ill_182
rna_ill_185
rna_ill_186
rna_ill_189
rna_ill_19
rna_ill_190
rna_ill_191
rna_ill_194
1e−20
1e−10
0.001
0.1

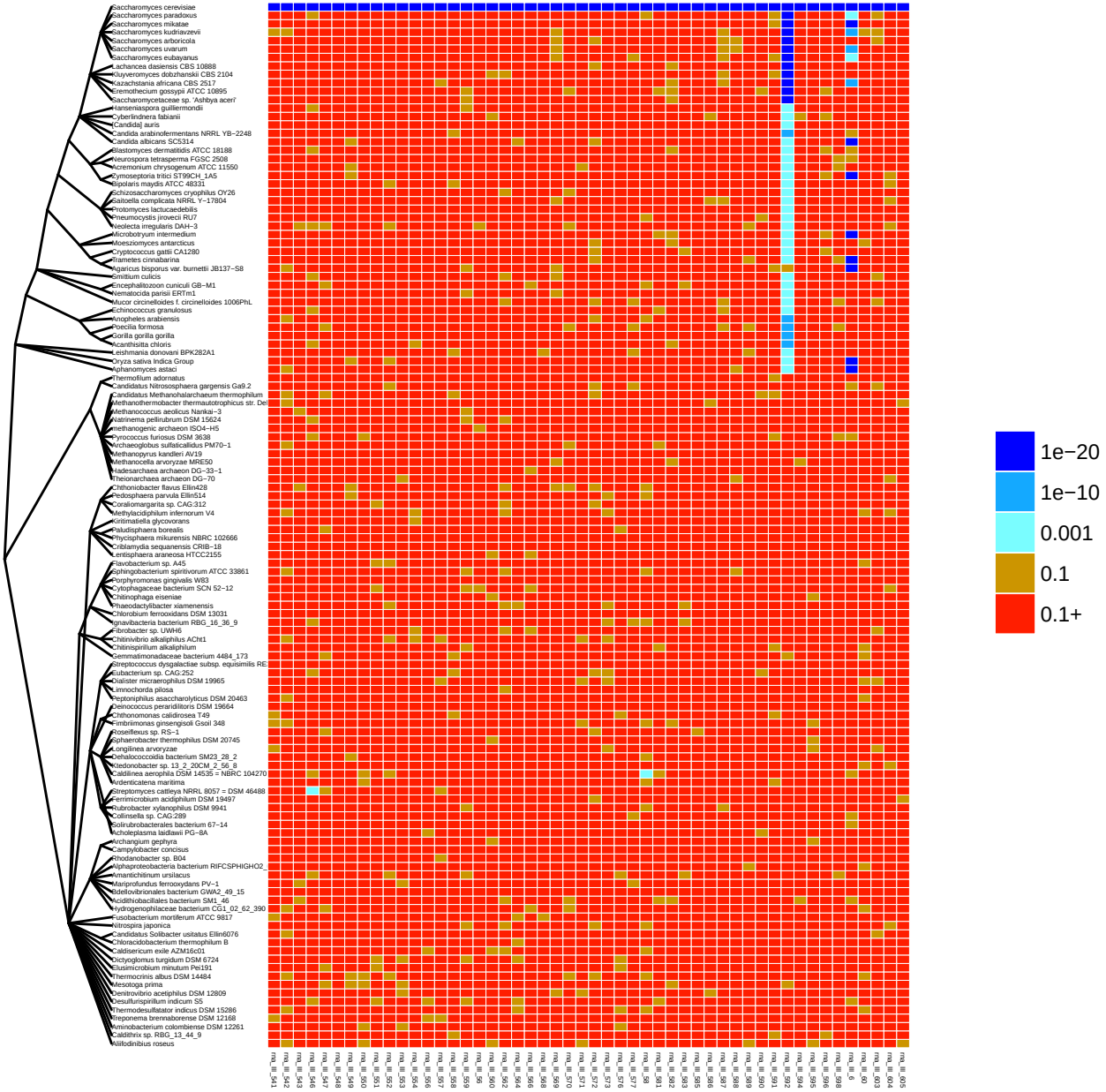

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_ili_195
mu_ili_196
mu_ili_197
mu_ili_198
mu_ili_199
mu_ili_2
mu_ili_20
mu_ili_202
mu_ili_203
mu_ili_204
mu_ili_205
mu_ili_206
mu_ili_207
mu_ili_208
mu_ili_209
mu_ili_21
mu_ili_211
mu_ili_213
mu_ili_215
mu_ili_217
mu_ili_218
mu_ili_22
mu_ili_224
mu_ili_225
mu_ili_226
mu_ili_227
mu_ili_228
mu_ili_229
mu_ili_230
mu_ili_231
mu_ili_232
mu_ili_234
mu_ili_236
mu_ili_24
mu_ili_244
mu_ili_245
mu_ili_246
mu_ili_247
mu_ili_248
mu_ili_249
mu_ili_25
mu_ili_250
mu_ili_251
mu_ili_252
mu_ili_253
mu_ili_255
mu_ili_256
mu_ili_257
mu_ili_258
mu_ili_259
mu_ili_26
1e−20
1e−10
0.001
0.1

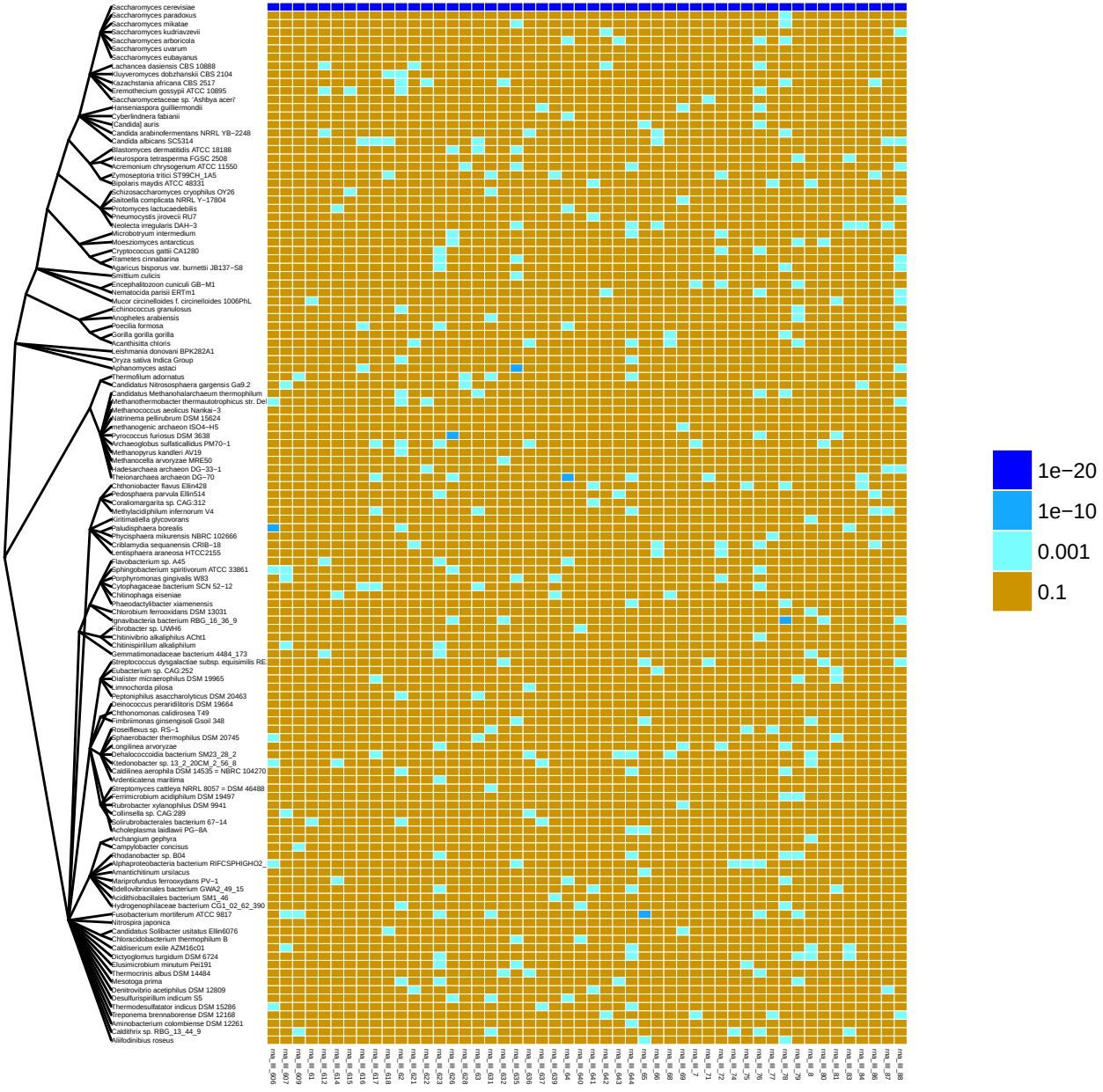

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
rna_III_260
rna_III_261
rna_III_262
rna_III_263
rna_III_264
rna_III_266
rna_III_267
rna_III_268
rna_III_27
rna_III_270
rna_III_272
rna_III_273
rna_III_274
rna_III_275
rna_III_276
rna_III_277
rna_III_28
rna_III_283
rna_III_284
rna_III_289
rna_III_29
rna_III_290
rna_III_292
rna_III_293
rna_III_295
rna_III_296
rna_III_297
rna_III_298
rna_III_30
rna_III_300
rna_III_301
rna_III_302
rna_III_303
rna_III_304
rna_III_307
rna_III_308
rna_III_309
rna_III_31
rna_III_311
rna_III_312
rna_III_313
rna_III_314
rna_III_316
rna_III_317
rna_III_318
rna_III_319
rna_III_32
rna_III_320
rna_III_321
rna_III_322
1e−20
1e−10
0.001
0.1
0.1+

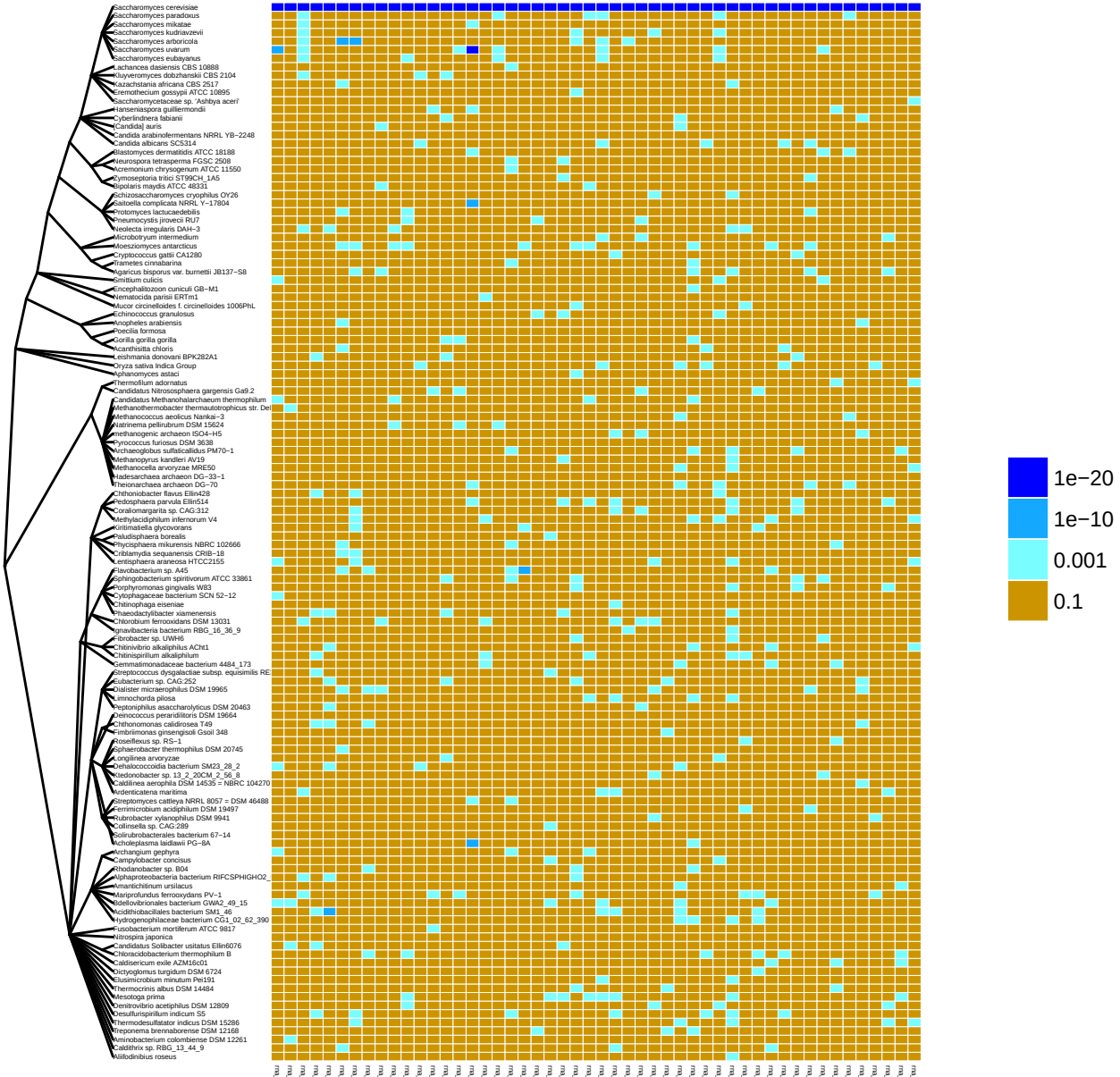

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_ill_323
ma_ill_324
ma_ill_325
ma_ill_326
ma_ill_33
ma_ill_330
ma_ill_331
ma_ill_333
ma_ill_335
ma_ill_337
ma_ill_338
ma_ill_339
ma_ill_340
ma_ill_341
ma_ill_342
ma_ill_343
ma_ill_344
ma_ill_346
ma_ill_348
ma_ill_351
ma_ill_353
ma_ill_354
ma_ill_355
ma_ill_357
ma_ill_358
ma_ill_360
ma_ill_362
ma_ill_363
ma_ill_364
ma_ill_365
ma_ill_366
ma_ill_367
ma_ill_369
ma_ill_370
ma_ill_371
ma_ill_372
ma_ill_373
ma_ill_374
ma_ill_376
ma_ill_377
ma_ill_378
ma_ill_379
ma_ill_38
ma_ill_380
ma_ill_381
ma_ill_382
ma_ill_383
ma_ill_384
ma_ill_385
ma_ill_386
1e−20
1e−10
0.001
0.1
0.1+

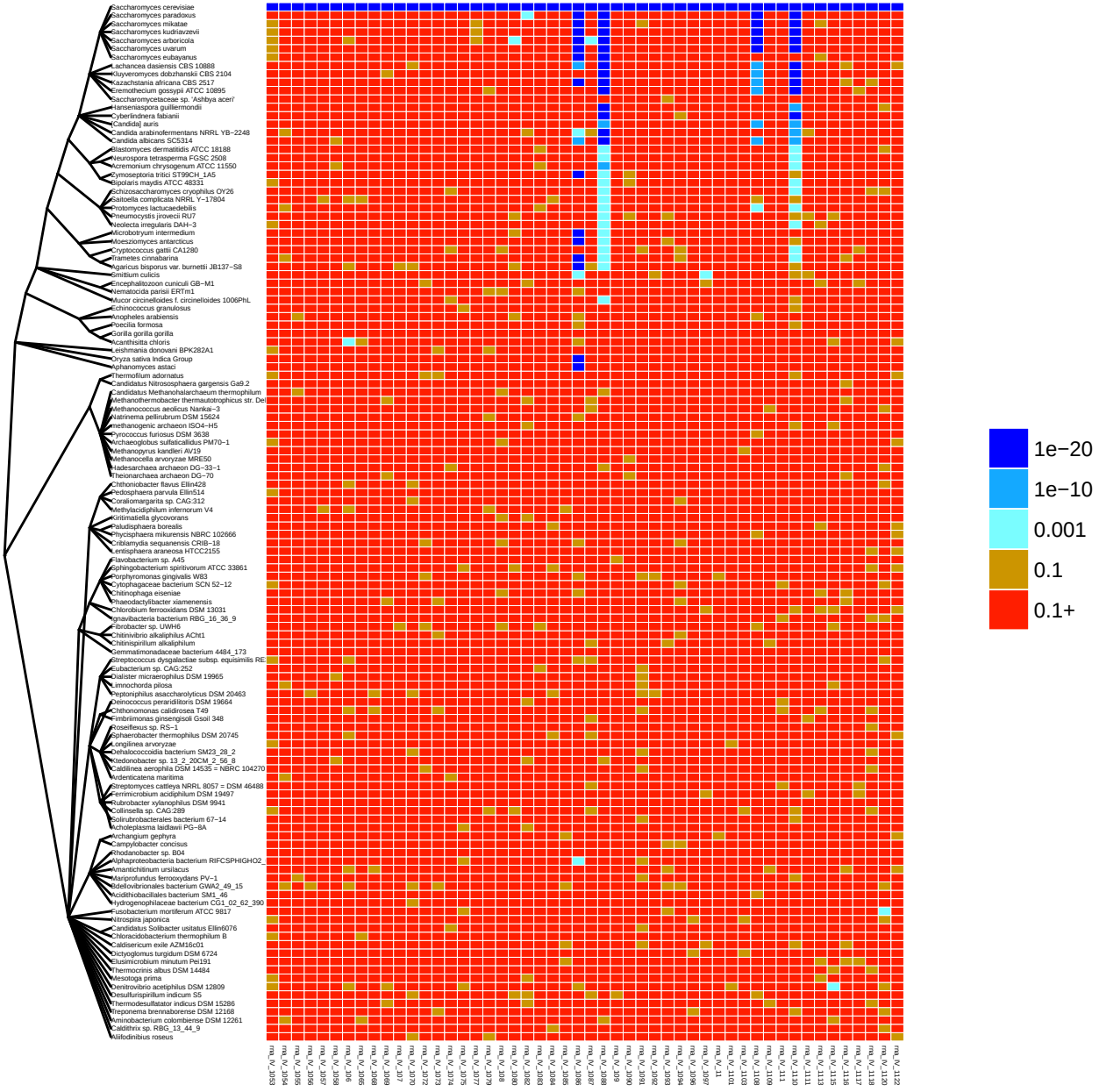

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter versatilis Ellin345
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_iii_387
mu_iii_388
mu_iii_390
mu_iii_390
mu_iii_391
mu_iii_394
mu_iii_395
mu_iii_396
mu_iii_398
mu_iii_399
mu_iii_4
mu_iii_403
mu_iii_404
mu_iii_405
mu_iii_41
mu_iii_410
mu_iii_411
mu_iii_412
mu_iii_413
mu_iii_415
mu_iii_416
mu_iii_419
mu_iii_42
mu_iii_420
mu_iii_421
mu_iii_424
mu_iii_426
mu_iii_427
mu_iii_428
mu_iii_429
mu_iii_43
mu_iii_430
mu_iii_431
mu_iii_432
mu_iii_433
mu_iii_435
mu_iii_436
mu_iii_439
mu_iii_441
mu_iii_443
mu_iii_446
mu_iii_448
mu_iii_449
mu_iii_451
mu_iii_452
mu_iii_456
mu_iii_457
mu_iii_459
mu_iii_460
mu_iii_462
1e−20
1e−10
0.001
0.1

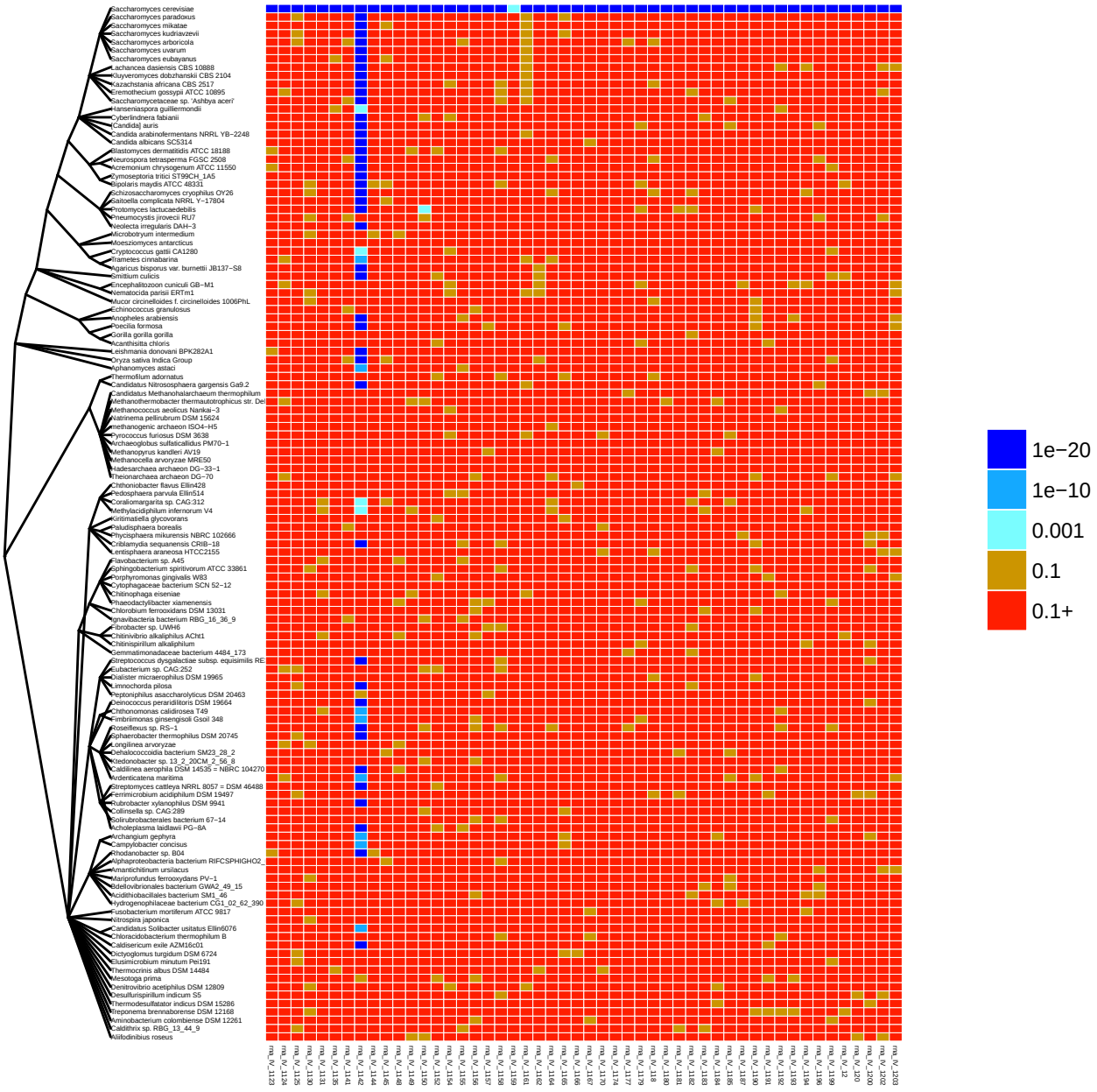

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezdonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
mu_ill_463
mu_ill_464
mu_ill_465
mu_ill_466
mu_ill_467
mu_ill_469
mu_ill_47
mu_ill_471
mu_ill_472
mu_ill_474
mu_ill_475
mu_ill_476
mu_ill_478
mu_ill_479
mu_ill_48
mu_ill_480
mu_ill_486
mu_ill_49
mu_ill_492
mu_ill_494
mu_ill_495
mu_ill_497
mu_ill_499
mu_ill_5
mu_ill_50
mu_ill_500
mu_ill_504
mu_ill_508
mu_ill_509
mu_ill_51
mu_ill_511
mu_ill_512
mu_ill_513
mu_ill_514
mu_ill_516
mu_ill_519
mu_ill_52
mu_ill_523
mu_ill_524
mu_ill_525
mu_ill_526
mu_ill_527
mu_ill_528
mu_ill_529
mu_ill_530
mu_ill_533
mu_ill_535
mu_ill_537
mu_ill_538
mu_ill_540
1e−20
1e−10
0.001
0.1
0.1+

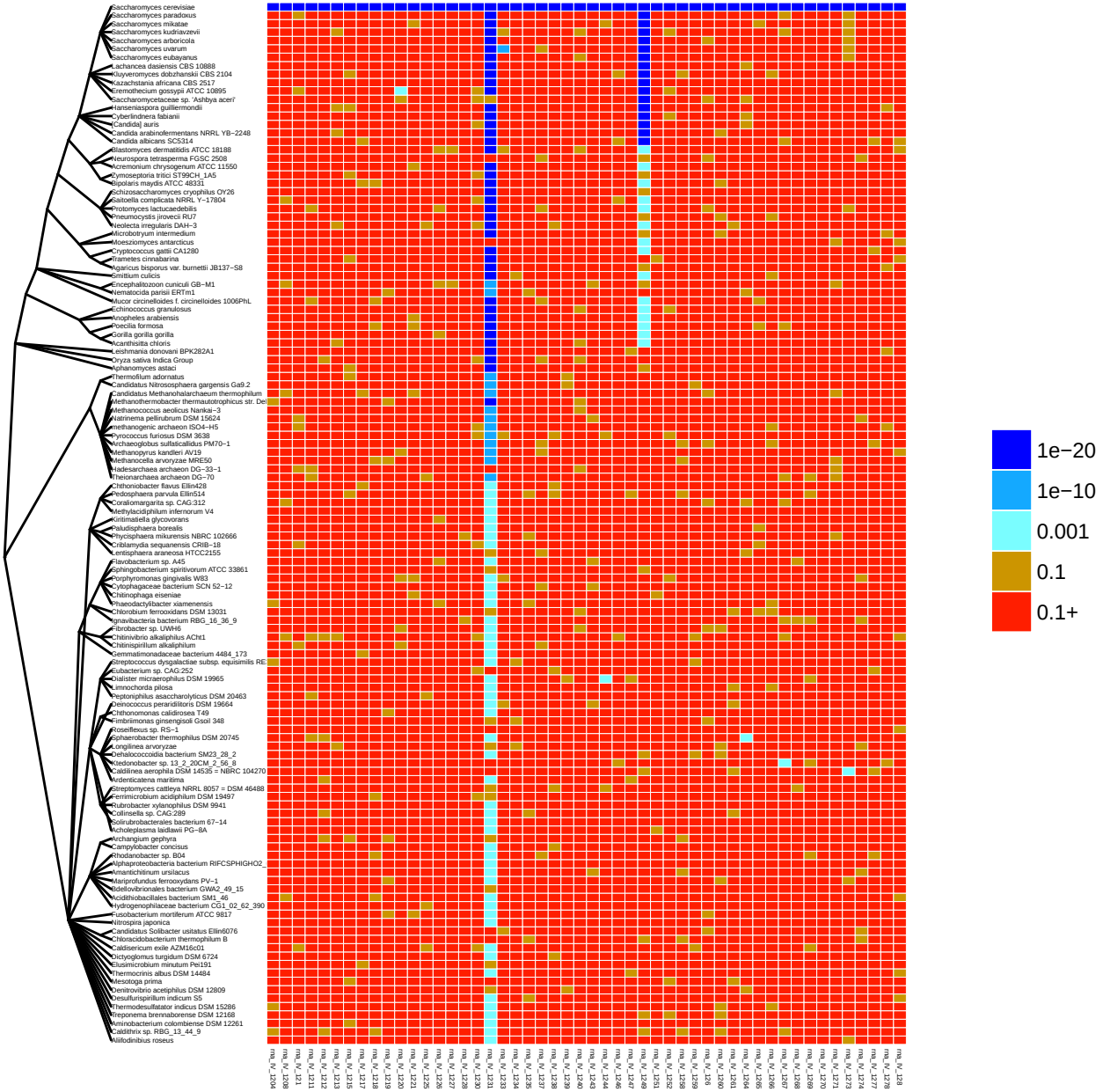

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_ill_541
mu_ill_542
mu_ill_543
mu_ill_546
mu_ill_547
mu_ill_548
mu_ill_549
mu_ill_550
mu_ill_551
mu_ill_552
mu_ill_553
mu_ill_554
mu_ill_556
mu_ill_557
mu_ill_558
mu_ill_559
mu_ill_56
mu_ill_560
mu_ill_562
mu_ill_564
mu_ill_566
mu_ill_568
mu_ill_569
mu_ill_570
mu_ill_571
mu_ill_572
mu_ill_573
mu_ill_576
mu_ill_577
mu_ill_58
mu_ill_581
mu_ill_582
mu_ill_583
mu_ill_585
mu_ill_586
mu_ill_587
mu_ill_588
mu_ill_589
mu_ill_590
mu_ill_591
mu_ill_592
mu_ill_594
mu_ill_595
mu_ill_596
mu_ill_598
mu_ill_6
mu_ill_60
mu_ill_603
mu_ill_604
mu_ill_605
1e−20
1e−10
0.001
0.1
0.1+

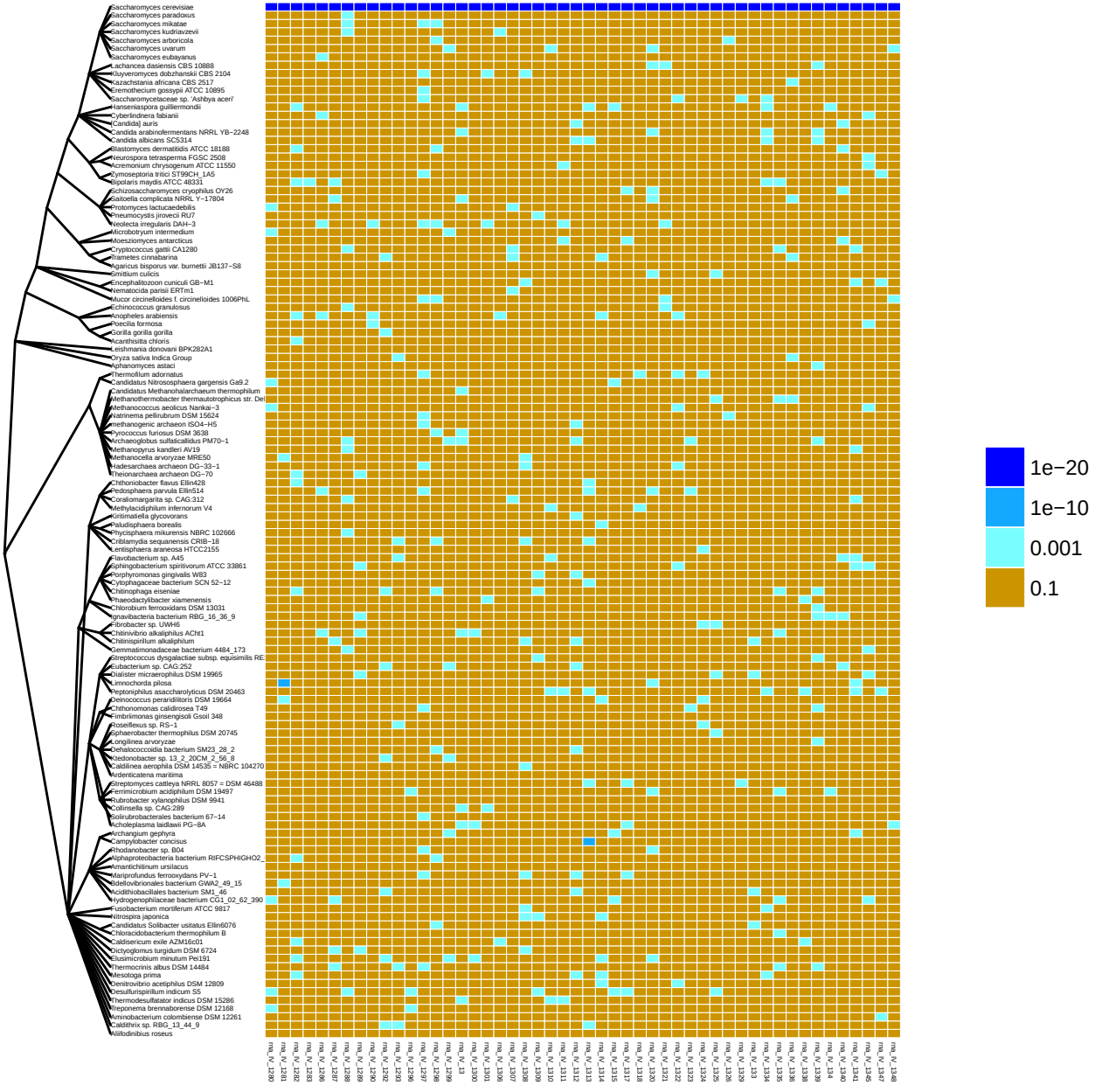

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylaciditphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mu_ii_606
mu_ii_607
mu_ii_609
mu_ii_61
mu_ii_612
mu_ii_614
mu_ii_615
mu_ii_616
mu_ii_617
mu_ii_618
mu_ii_62
mu_ii_621
mu_ii_622
mu_ii_623
mu_ii_626
mu_ii_628
mu_ii_63
mu_ii_631
mu_ii_632
mu_ii_635
mu_ii_636
mu_ii_637
mu_ii_639
mu_ii_64
mu_ii_640
mu_ii_641
mu_ii_642
mu_ii_643
mu_ii_644
mu_ii_65
mu_ii_66
mu_ii_68
mu_ii_69
mu_ii_7
mu_ii_71
mu_ii_72
mu_ii_74
mu_ii_75
mu_ii_76
mu_ii_77
mu_ii_78
mu_ii_79
mu_ii_8
mu_ii_80
mu_ii_81
mu_ii_83
mu_ii_84
mu_ii_86
mu_ii_87
mu_ii_88
1e−20
1e−10
0.001
0.1

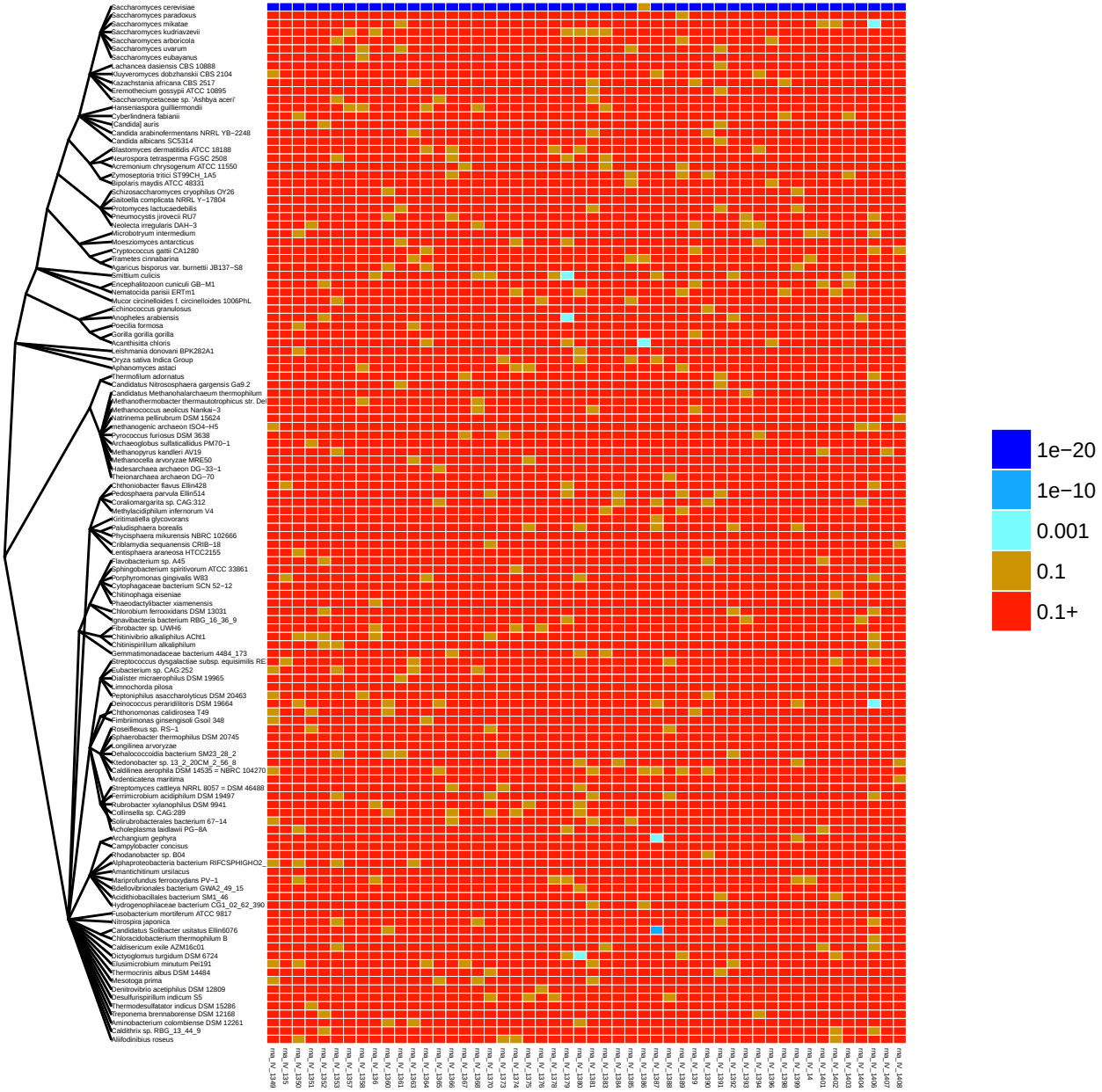

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Riflibacterium sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1

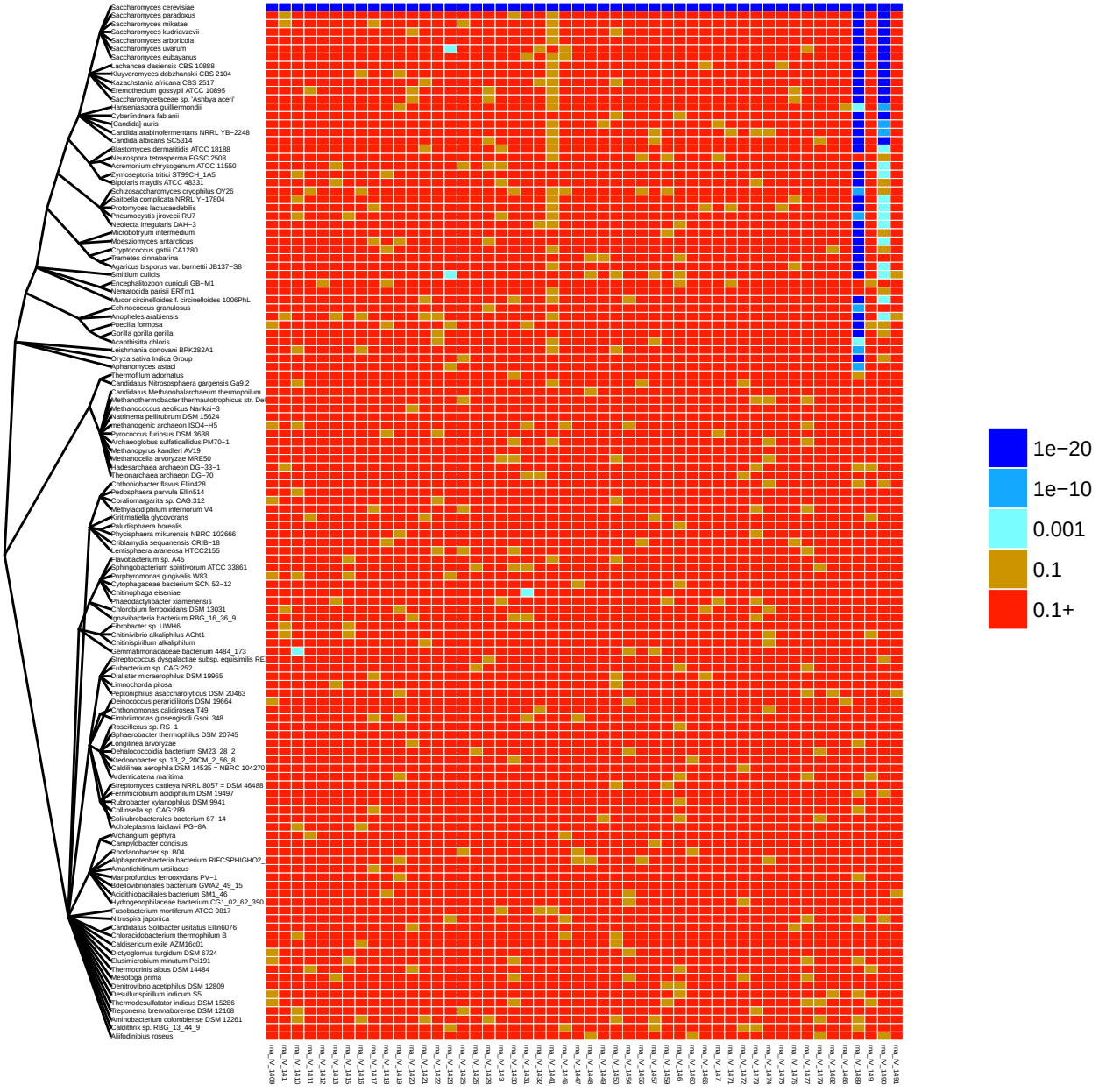

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_N_1053
ma_N_1054
ma_N_1055
ma_N_1056
ma_N_1057
ma_N_1058
ma_N_1061
ma_N_1065
ma_N_1068
ma_N_1069
ma_N_1070
ma_N_1072
ma_N_1073
ma_N_1074
ma_N_1075
ma_N_1077
ma_N_1079
ma_N_1081
ma_N_1080
ma_N_1082
ma_N_1083
ma_N_1084
ma_N_1085
ma_N_1086
ma_N_1087
ma_N_1088
ma_N_1089
ma_N_1090
ma_N_1091
ma_N_1092
ma_N_1093
ma_N_1094
ma_N_1096
ma_N_1097
ma_N_11
ma_N_1101
ma_N_1103
ma_N_1108
ma_N_1109
ma_N_111
ma_N_1110
ma_N_1111
ma_N_1113
ma_N_1115
ma_N_1116
ma_N_1117
ma_N_1118
ma_N_1100
ma_N_1122
1e−20
1e−10
0.001
0.1
0.1+

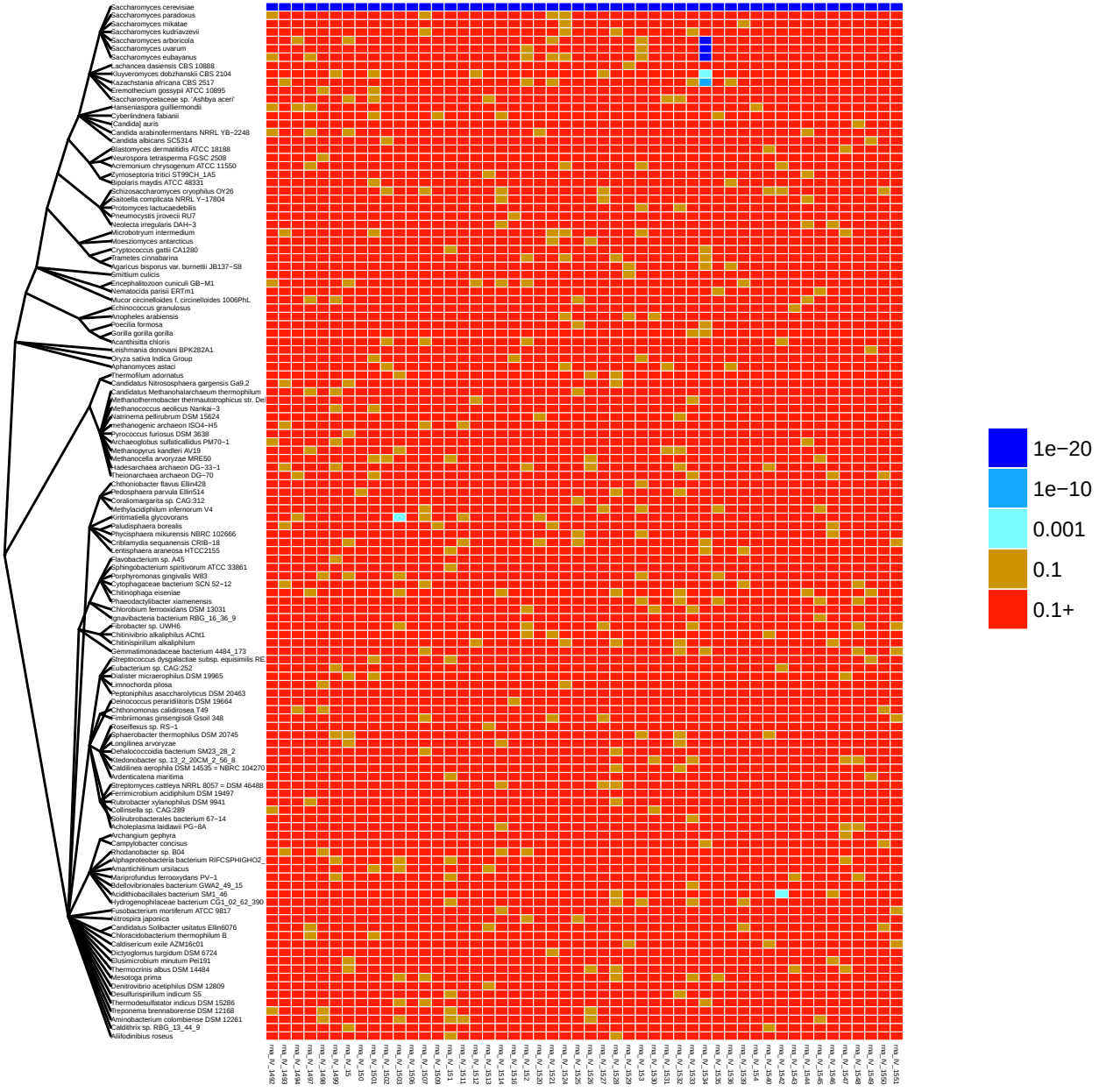

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Kiritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2

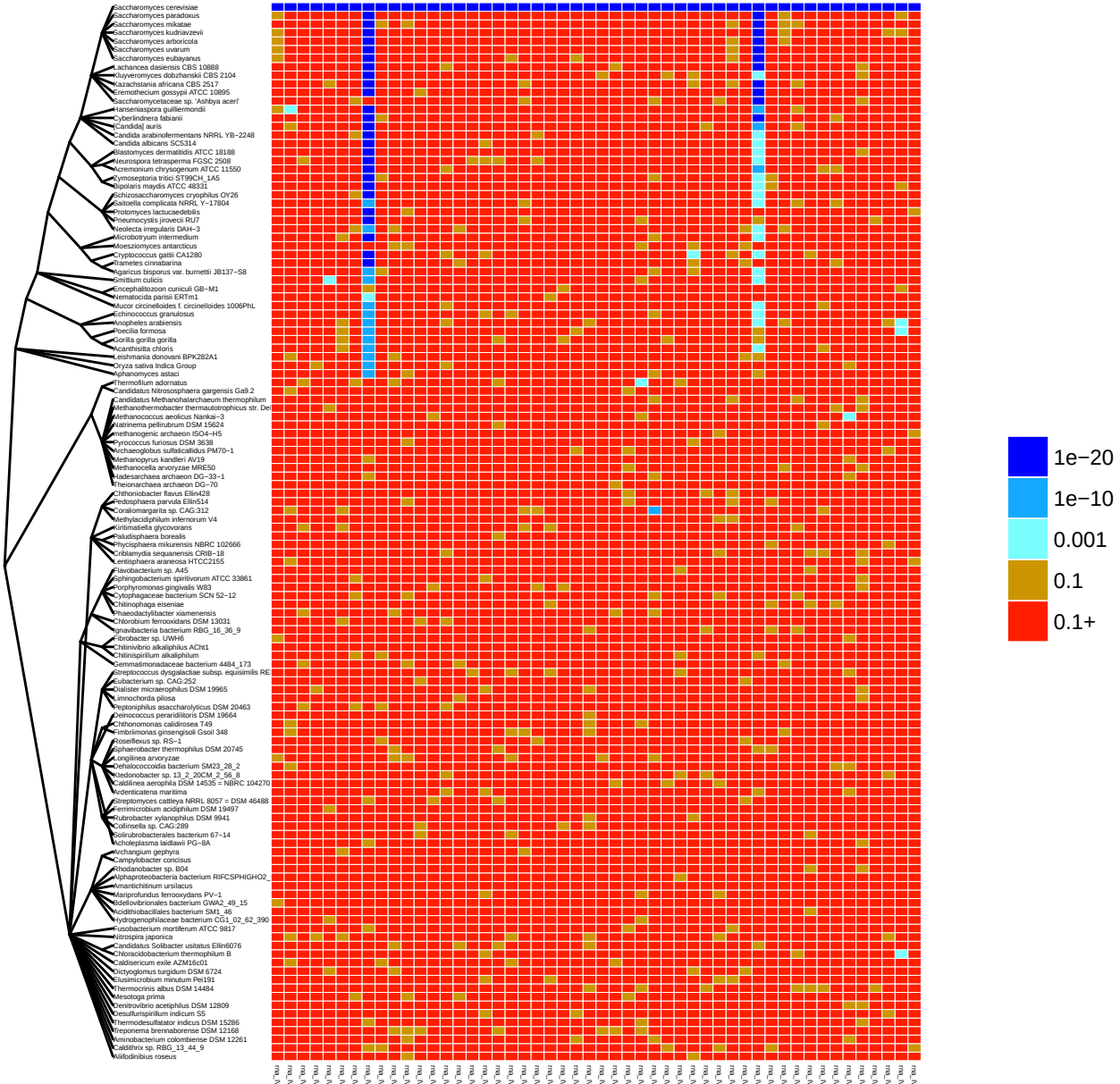

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosodinubius roseus
ma_v_1204
ma_v_1208
ma_v_121
ma_v_1211
ma_v_1212
ma_v_1213
ma_v_1215
ma_v_1217
ma_v_1218
ma_v_1219
ma_v_1220
ma_v_1221
ma_v_1225
ma_v_1226
ma_v_1227
ma_v_1228
ma_v_1230
ma_v_1231
ma_v_1233
ma_v_1234
ma_v_1235
ma_v_1237
ma_v_1238
ma_v_1239
ma_v_1240
ma_v_1243
ma_v_1244
ma_v_1246
ma_v_1247
ma_v_1249
ma_v_1251
ma_v_1252
ma_v_1258
ma_v_1259
ma_v_126
ma_v_1260
ma_v_1261
ma_v_1264
ma_v_1265
ma_v_1266
ma_v_1267
ma_v_1268
ma_v_1269
ma_v_1270
ma_v_1271
ma_v_1273
ma_v_1274
ma_v_1277
ma_v_1278
ma_v_128
1e−20
1e−10
0.001
0.1
0.1+

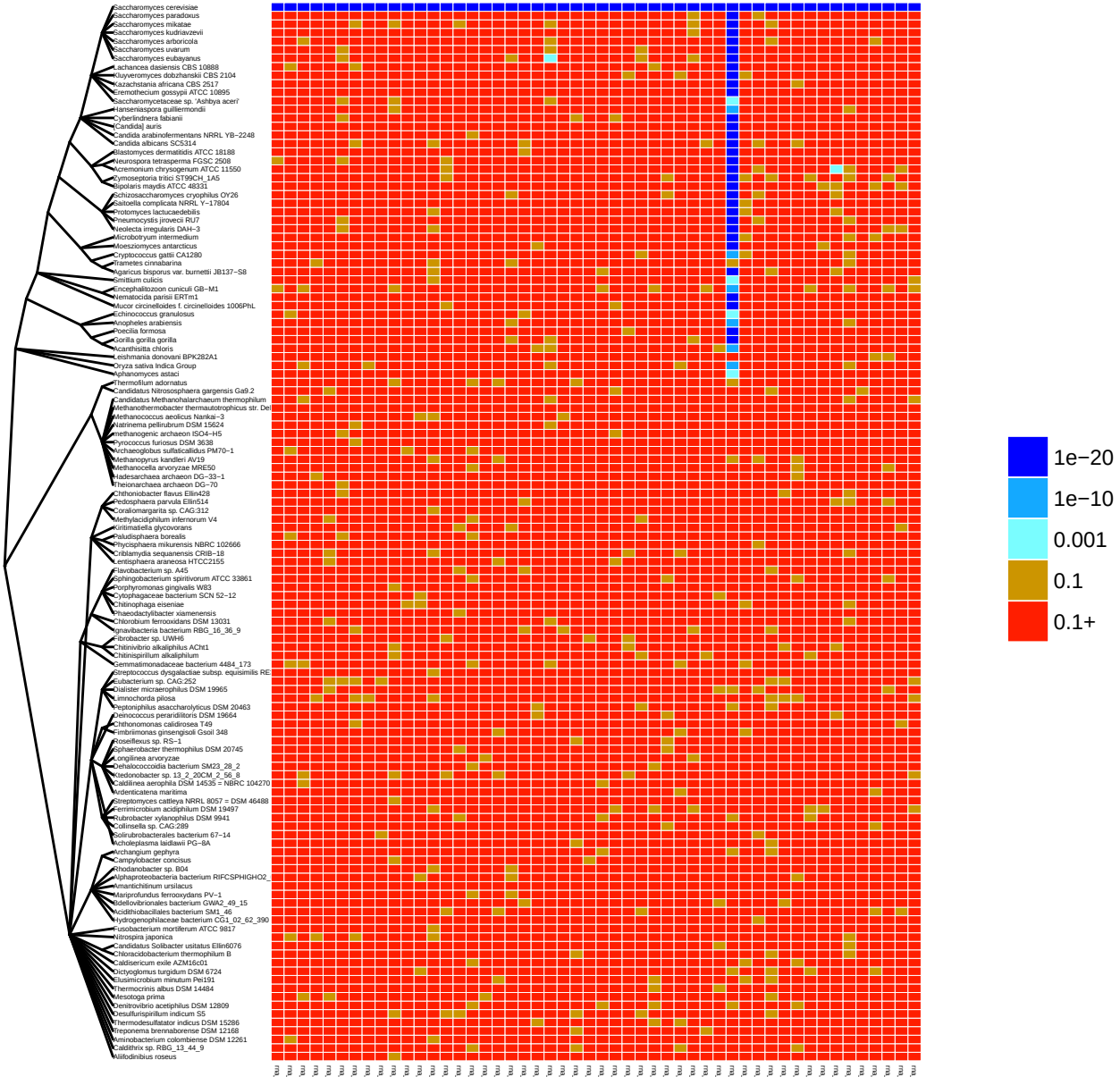

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrlamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_N_1200
mu_N_1201
mu_N_1202
mu_N_1203
mu_N_1206
mu_N_1207
mu_N_1208
mu_N_1209
mu_N_1288
mu_N_1289
mu_N_1290
mu_N_1292
mu_N_1293
mu_N_1296
mu_N_1297
mu_N_1298
mu_N_1299
mu_N_13
mu_N_1300
mu_N_1301
mu_N_1306
mu_N_1307
mu_N_1308
mu_N_1309
mu_N_1310
mu_N_1311
mu_N_1312
mu_N_1313
mu_N_1314
mu_N_1315
mu_N_1317
mu_N_1318
mu_N_1320
mu_N_1321
mu_N_1322
mu_N_1323
mu_N_1324
mu_N_1325
mu_N_1326
mu_N_1329
mu_N_1333
mu_N_1334
mu_N_1335
mu_N_1336
mu_N_1338
mu_N_1339
mu_N_1340
mu_N_1341
mu_N_1345
mu_N_1347
mu_N_1348
1e−20
1e−10
0.001
0.1

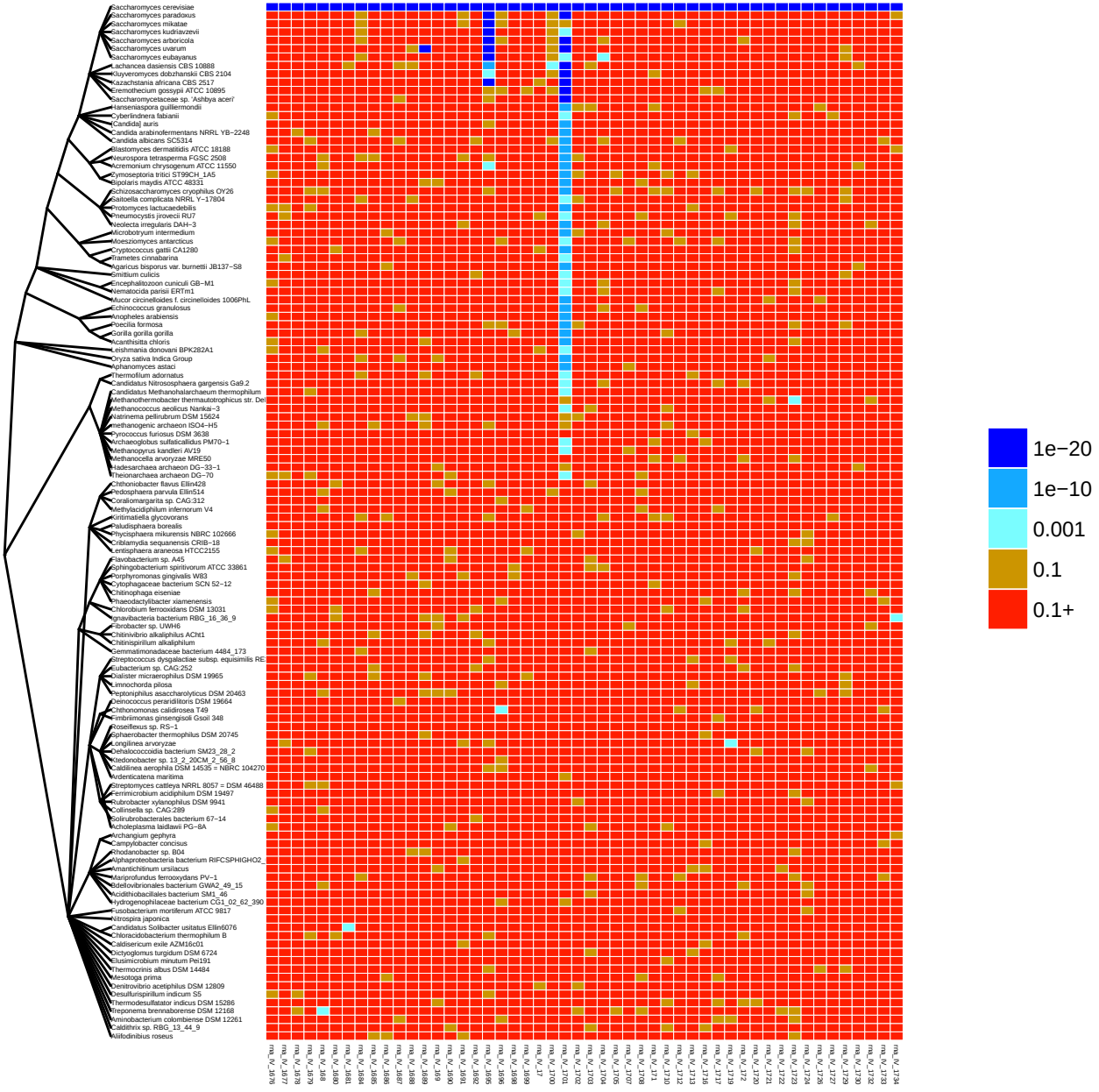

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_N_1349
mu_N_135
mu_N_1350
mu_N_1351
mu_N_1352
mu_N_1353
mu_N_1357
mu_N_1358
mu_N_136
mu_N_1360
mu_N_1361
mu_N_1363
mu_N_1364
mu_N_1365
mu_N_1366
mu_N_1367
mu_N_1368
mu_N_1370
mu_N_1373
mu_N_1374
mu_N_1375
mu_N_1376
mu_N_1378
mu_N_1379
mu_N_1380
mu_N_1381
mu_N_1383
mu_N_1384
mu_N_1385
mu_N_1386
mu_N_1387
mu_N_1388
mu_N_1389
mu_N_139
mu_N_1390
mu_N_1391
mu_N_1392
mu_N_1393
mu_N_1394
mu_N_1396
mu_N_1398
mu_N_1399
mu_N_14
mu_N_1401
mu_N_1402
mu_N_1403
mu_N_1404
mu_N_1406
mu_N_1407
mu_N_1408
1e−20
1e−10
0.001
0.1
0.1+

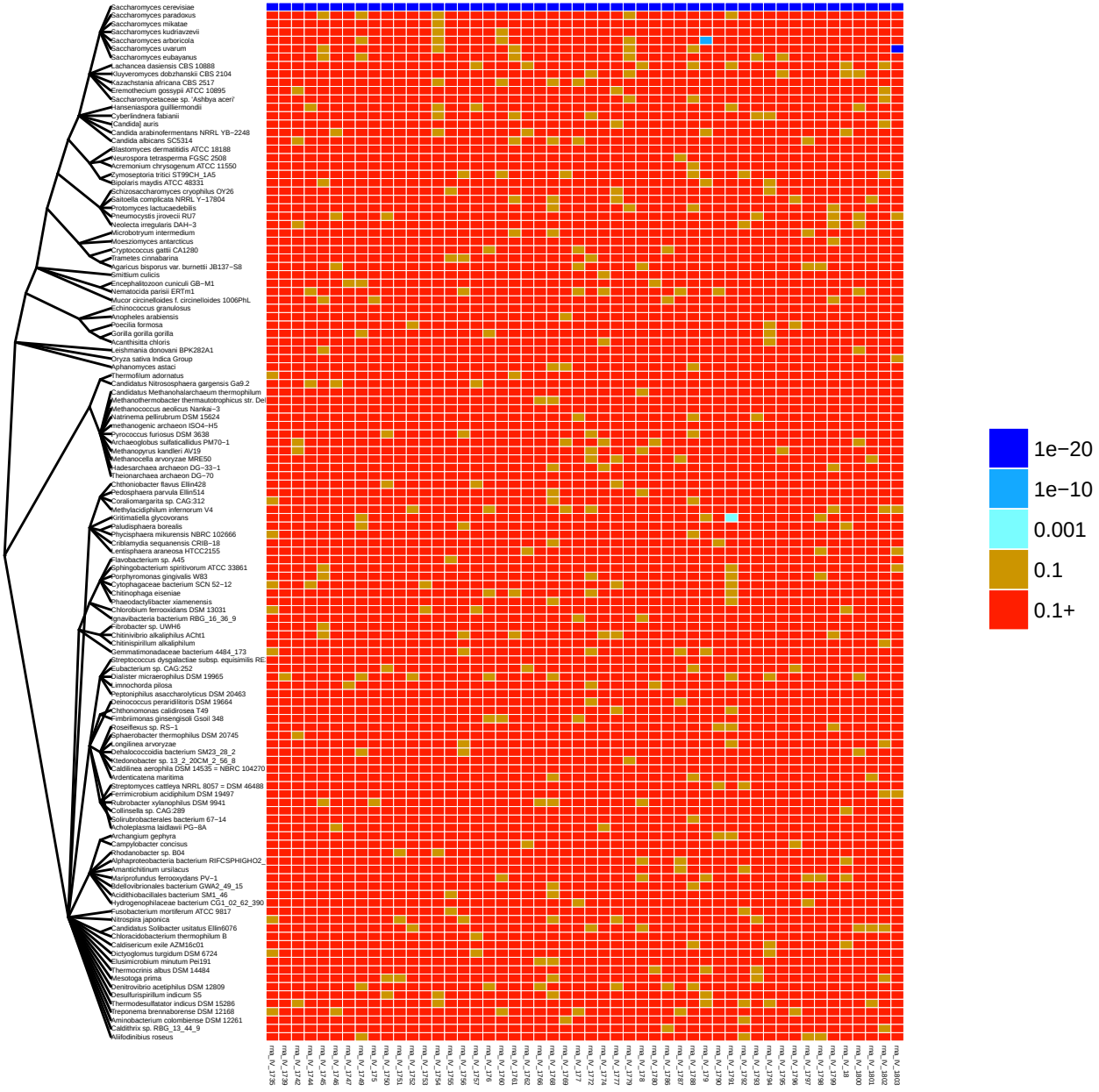

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaboronse DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_v_1409
ma_v_141
ma_v_1410
ma_v_1411
ma_v_1412
ma_v_1413
ma_v_1415
ma_v_1416
ma_v_1417
ma_v_1418
ma_v_1419
ma_v_1420
ma_v_1421
ma_v_1422
ma_v_1423
ma_v_1425
ma_v_1426
ma_v_1428
ma_v_143
ma_v_1430
ma_v_1431
ma_v_1432
ma_v_1441
ma_v_1446
ma_v_1447
ma_v_1448
ma_v_1449
ma_v_1450
ma_v_1454
ma_v_1456
ma_v_1457
ma_v_1459
ma_v_146
ma_v_1460
ma_v_1466
ma_v_147
ma_v_1471
ma_v_1472
ma_v_1473
ma_v_1474
ma_v_1475
ma_v_1476
ma_v_1477
ma_v_1479
ma_v_1482
ma_v_1486
ma_v_1489
ma_v_149
ma_v_1490
ma_v_1491
1e−20
1e−10
0.001
0.1
0.1+

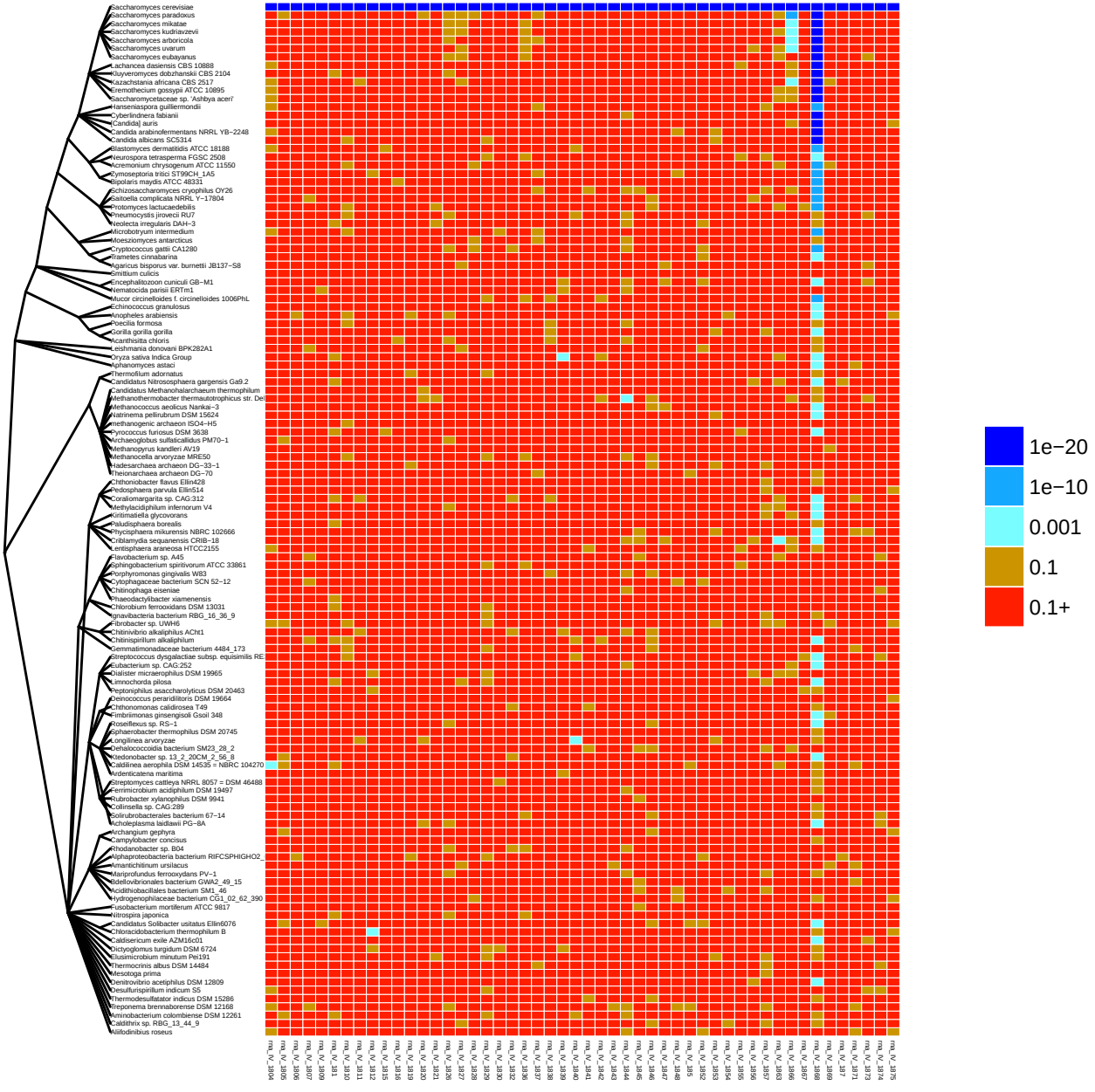

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_v_1492
ma_v_1493
ma_v_1494
ma_v_1497
ma_v_1498
ma_v_1499
ma_v_15
ma_v_150
ma_v_1501
ma_v_1502
ma_v_1503
ma_v_1506
ma_v_1507
ma_v_1509
ma_v_151
ma_v_1511
ma_v_1512
ma_v_1513
ma_v_1514
ma_v_1516
ma_v_152
ma_v_1520
ma_v_1521
ma_v_1524
ma_v_1525
ma_v_1526
ma_v_1527
ma_v_1528
ma_v_1529
ma_v_153
ma_v_1530
ma_v_1531
ma_v_1532
ma_v_1533
ma_v_1534
ma_v_1535
ma_v_1536
ma_v_1539
ma_v_154
ma_v_1540
ma_v_1542
ma_v_1543
ma_v_1544
ma_v_1545
ma_v_1546
ma_v_1547
ma_v_1548
ma_v_1549
ma_v_1550
ma_v_1551
1e−20
1e−10
0.001
0.1
0.1+

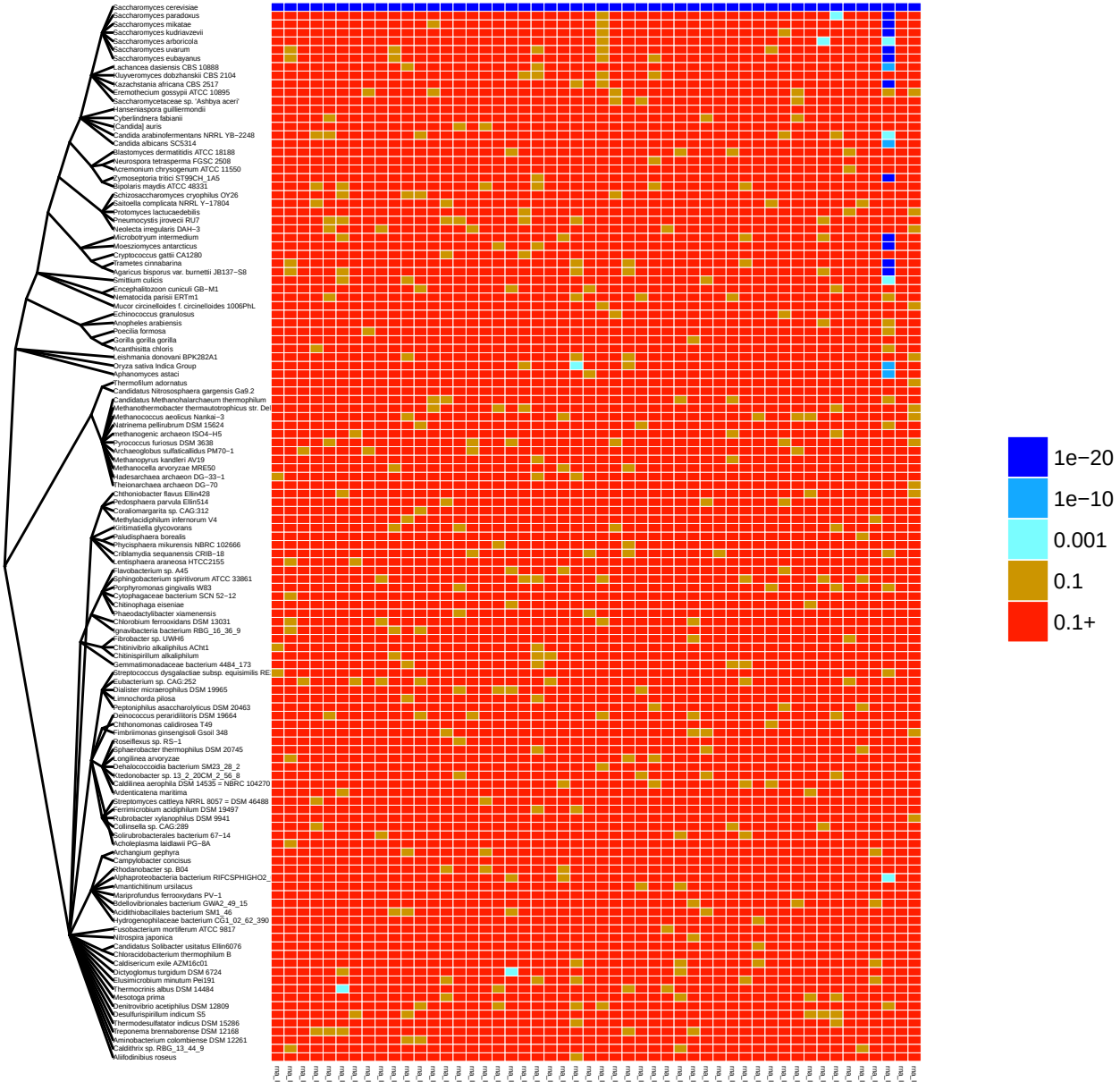

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseszoiomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mu_N_1562
mu_N_1563
mu_N_1564
mu_N_1565
mu_N_1566
mu_N_1567
mu_N_1568
mu_N_1569
mu_N_157
mu_N_1573
mu_N_1575
mu_N_1576
mu_N_1577
mu_N_1578
mu_N_1579
mu_N_158
mu_N_1580
mu_N_1581
mu_N_1582
mu_N_1583
mu_N_1586
mu_N_1587
mu_N_1588
mu_N_1589
mu_N_159
mu_N_1590
mu_N_1591
mu_N_1593
mu_N_1596
mu_N_1598
mu_N_1599
mu_N_160
mu_N_1601
mu_N_1602
mu_N_1603
mu_N_1604
mu_N_1605
mu_N_1606
mu_N_1607
mu_N_1608
mu_N_1609
mu_N_161
mu_N_1610
mu_N_1611
mu_N_1612
1e−20
1e−10
0.001
0.1
0.1+

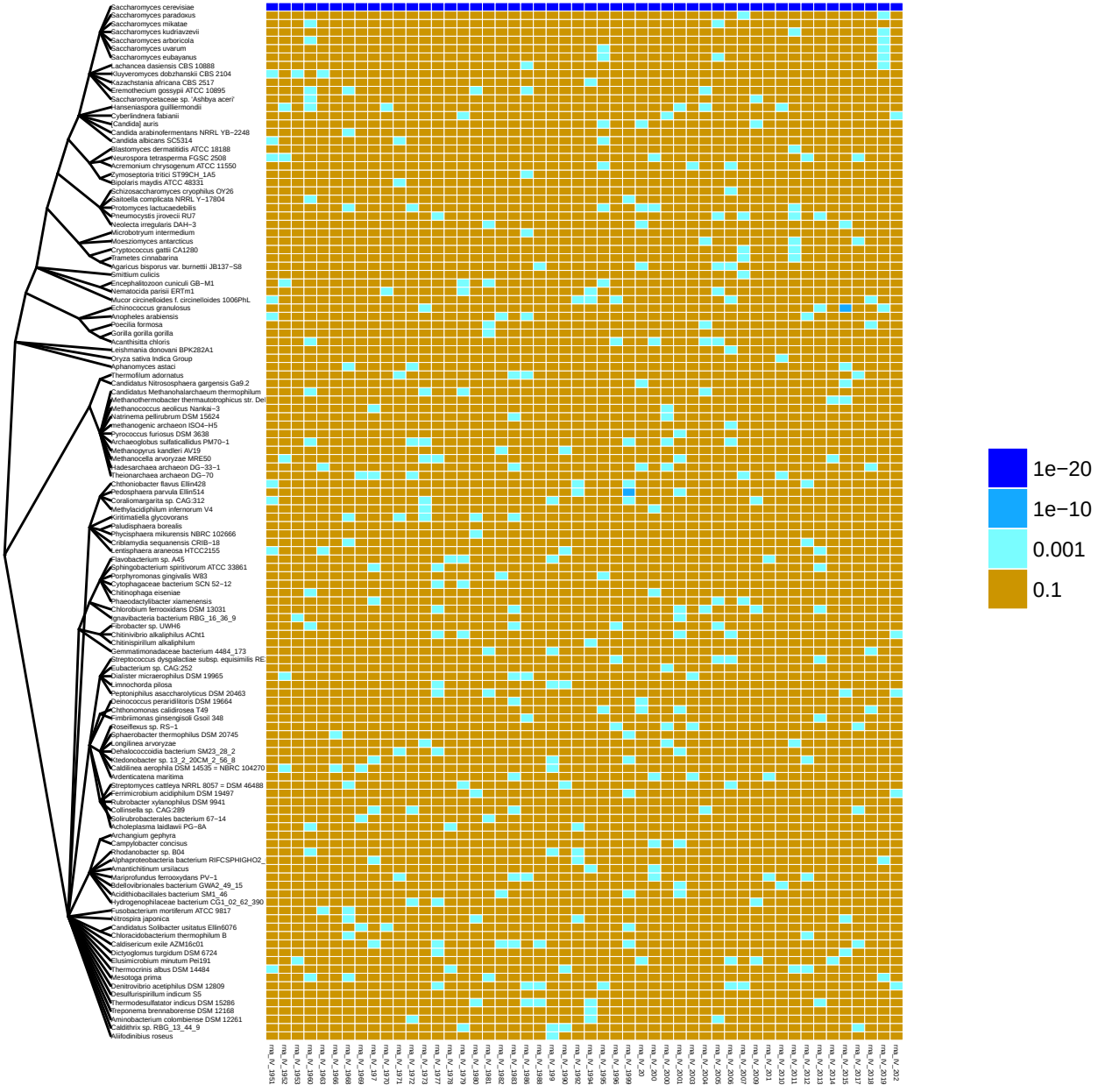

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_N_16_13
mu_N_16_14
mu_N_16_15
mu_N_16_16
mu_N_16_17
mu_N_16_18
mu_N_16_19
mu_N_16_21
mu_N_16_22
mu_N_16_23
mu_N_16_24
mu_N_16_29
mu_N_16_30
mu_N_16_32
mu_N_16_34
mu_N_16_35
mu_N_16_36
mu_N_16_39
mu_N_16_4
mu_N_16_40
mu_N_16_41
mu_N_16_42
mu_N_16_43
mu_N_16_44
mu_N_16_46
mu_N_16_47
mu_N_16_5
mu_N_16_50
mu_N_16_51
mu_N_16_53
mu_N_16_54
mu_N_16_55
mu_N_16_57
mu_N_16_58
mu_N_16_59
mu_N_16_60
mu_N_16_61
mu_N_16_62
mu_N_16_63
mu_N_16_64
mu_N_16_65
mu_N_16_66
mu_N_16_67
mu_N_16_68
mu_N_16_69
mu_N_16_7
mu_N_16_70
mu_N_16_71
mu_N_16_73
mu_N_16_74
1e−20
1e−10
0.001
0.1
0.1+

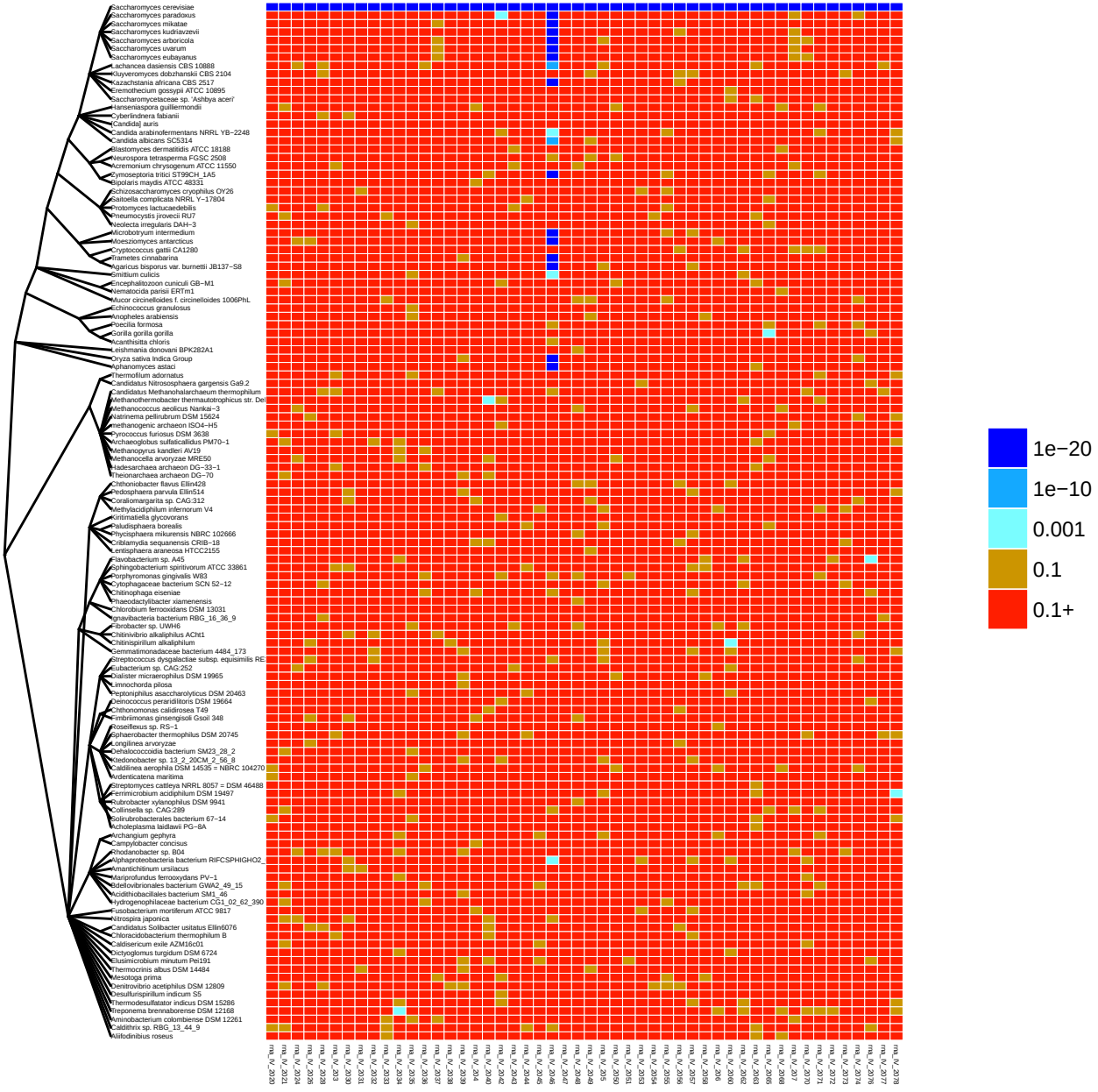

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
Malassezia globosa
Malassezia pachydermatis
Malassezia sympodialis
Malassezia furfur
Malassezia restricta
Malassezia slooffiae
Malassezia dermatis
Malassezia yamatoensis
Malassezia japonica
Malassezia cuniculorum
Malassezia obtusa
Malassezia brasiliensis
ma_N_1676
ma_N_1677
ma_N_1678
ma_N_1679
ma_N_1680
ma_N_1681
ma_N_1684
ma_N_1685
ma_N_1686
ma_N_1687
ma_N_1688
ma_N_1689
ma_N_1690
ma_N_1691
ma_N_1692
ma_N_1695
ma_N_1696
ma_N_1698
ma_N_1699
ma_N_1700
ma_N_1701
ma_N_1702
ma_N_1703
ma_N_1704
ma_N_1705
ma_N_1707
ma_N_1708
ma_N_1710
ma_N_1712
ma_N_1713
ma_N_1716
ma_N_1717
ma_N_1719
ma_N_1720
ma_N_1721
ma_N_1722
ma_N_1723
ma_N_1724
ma_N_1726
ma_N_1727
ma_N_1729
ma_N_1730
ma_N_1732
ma_N_1733
ma_N_1734
1e−20
1e−10
0.001
0.1
0.1+

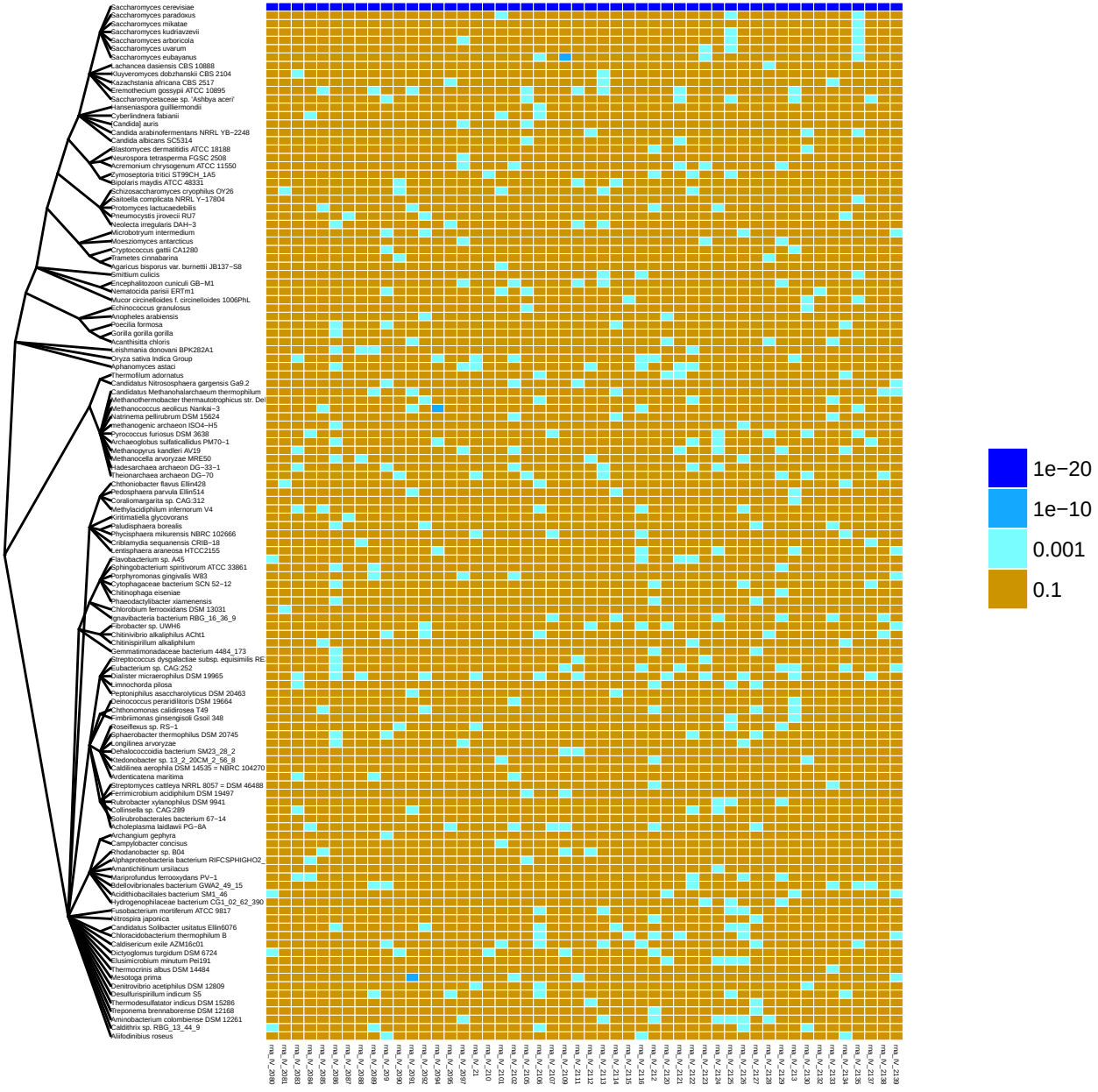

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_N_1735
ma_N_1739
ma_N_1742
ma_N_1744
ma_N_1745
ma_N_1746
ma_N_1747
ma_N_1749
ma_N_1750
ma_N_1751
ma_N_1752
ma_N_1753
ma_N_1754
ma_N_1755
ma_N_1756
ma_N_1757
ma_N_1760
ma_N_1761
ma_N_1762
ma_N_1766
ma_N_1768
ma_N_1769
ma_N_1772
ma_N_1774
ma_N_1777
ma_N_1779
ma_N_1778
ma_N_1780
ma_N_1786
ma_N_1787
ma_N_1788
ma_N_179
ma_N_1790
ma_N_1791
ma_N_1792
ma_N_1793
ma_N_1794
ma_N_1795
ma_N_1796
ma_N_1797
ma_N_1798
ma_N_1799
ma_N_18
ma_N_1800
ma_N_1801
ma_N_1802
ma_N_1803
1e−20
1e−10
0.001
0.1
0.1+

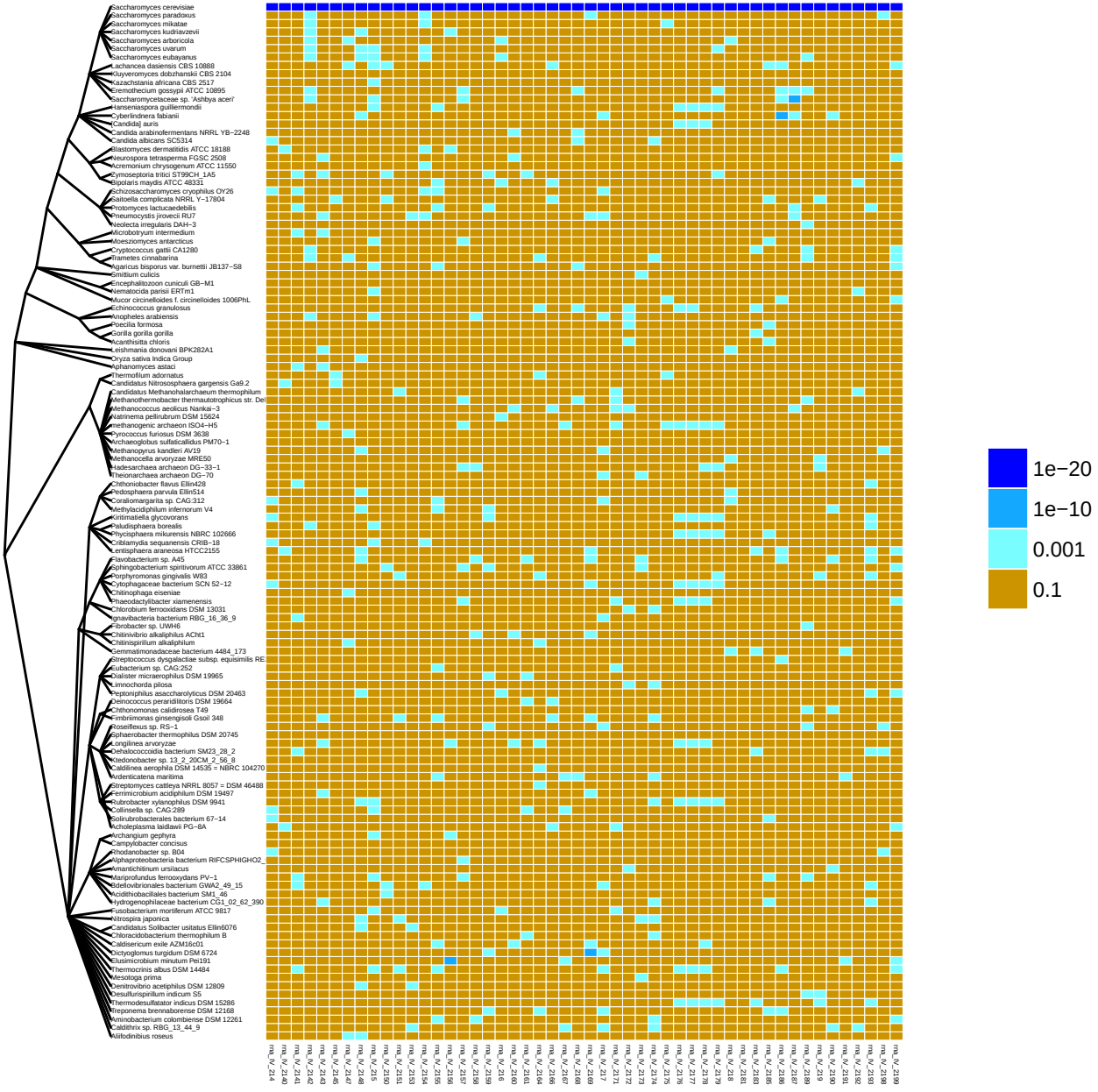

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_N_1804
ma_N_1805
ma_N_1806
ma_N_1807
ma_N_1809
ma_N_1811
ma_N_1810
ma_N_1812
ma_N_1815
ma_N_1816
ma_N_1819
ma_N_1820
ma_N_1821
ma_N_1826
ma_N_1827
ma_N_1828
ma_N_1829
ma_N_1830
ma_N_1832
ma_N_1836
ma_N_1837
ma_N_1838
ma_N_1839
ma_N_1840
ma_N_1841
ma_N_1842
ma_N_1843
ma_N_1844
ma_N_1845
ma_N_1846
ma_N_1847
ma_N_1848
ma_N_185
ma_N_1852
ma_N_1853
ma_N_1854
ma_N_1855
ma_N_1856
ma_N_1857
ma_N_1863
ma_N_1866
ma_N_1867
ma_N_1868
ma_N_1869
ma_N_187
ma_N_1871
ma_N_1873
ma_N_1874
ma_N_1875
1e−20
1e−10
0.001
0.1
0.1+

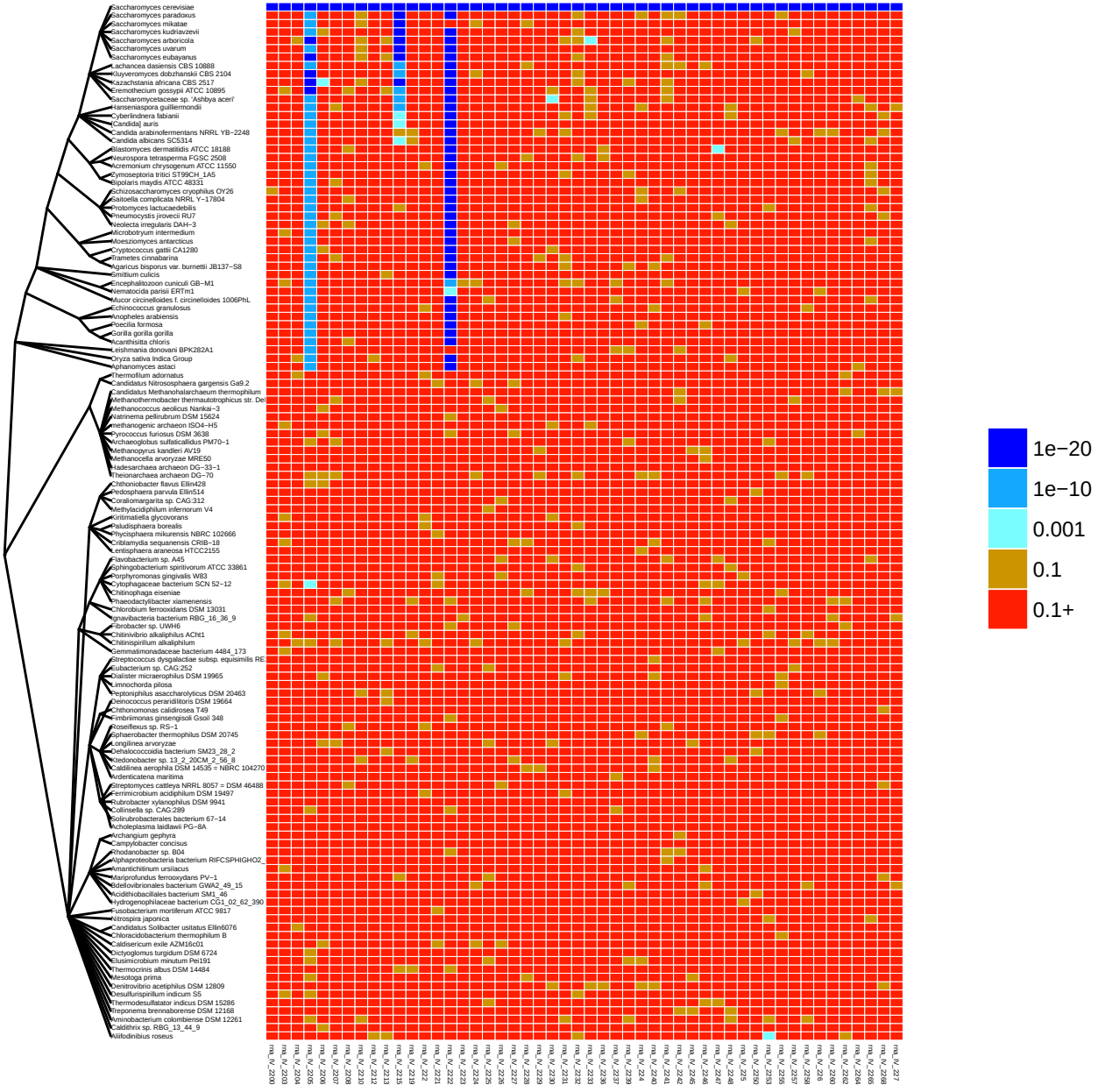

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

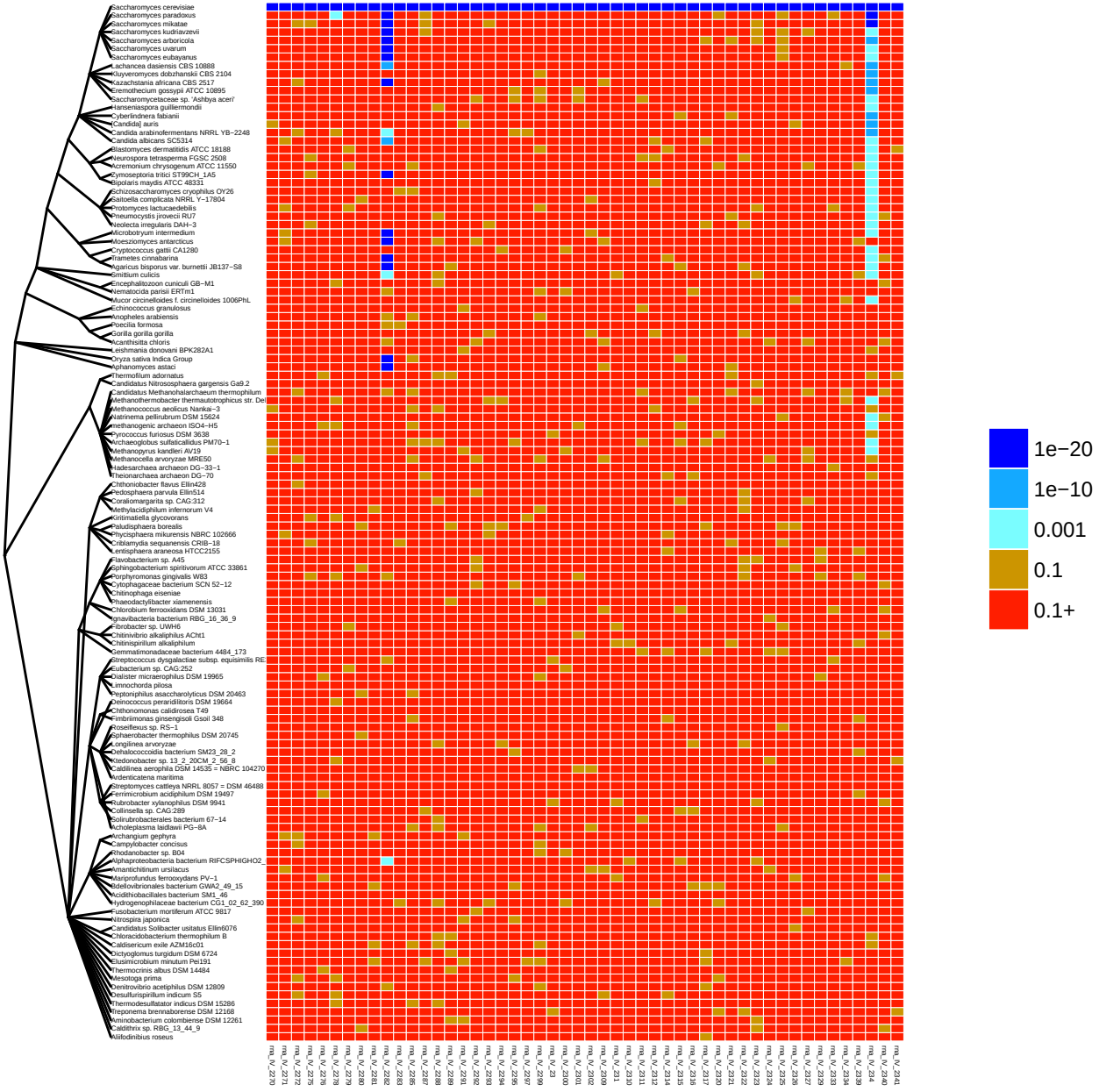

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloricrinum sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Nitrosocaldus yellowstonii HOT403
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotenuis chungbukensis MJ1
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocosmicus franklandus C13
Candidatus Nitrosocosmicus oleophilus MY3
Candidatus Nitrosocosmicus exaleni A5
Candidatus Nitrosocosmicus hydrocola A6
Candidatus Nitrosocosmicus arcticus Kg16−1
Candidatus Nitrosocosmicus franklandianus C12
Candidatus Nitrosocosmicus sp. Kg17−1
Candidatus Nitrosocosmicus sp. Kg16−2
Candidatus Nitrosocosmicus sp. Kg16−3
Candidatus Nitrosocosmicus sp. Kg16−4
Candidatus Nitrosocosmicus sp. Kg16−5
Candidatus Nitrosocosmicus sp. Kg16−6
Candidatus Nitrosocosmicus sp. Kg16−7
Candidatus Nitrosocosmicus sp. Kg16−8
Candidatus Nitrosocosmicus sp. Kg16−9
Candidatus Nitrosocosmicus sp. Kg16−10
Candidatus Nitrosocosmicus sp. Kg16−11
Candidatus Nitrosocosmicus sp. Kg16−12
Candidatus Nitrosocosmicus sp. Kg16−13
Candidatus Nitrosocosmicus sp. Kg16−14
Candidatus Nitrosocosmicus sp. Kg16−15
Candidatus Nitrosocosmicus sp. Kg16−16
Candidatus Nitrosocosmicus sp. Kg16−17
Candidatus Nitrosocosmicus sp. Kg16−18
Candidatus Nitrosocosmicus sp. Kg16−19
Candidatus Nitrosocosmicus sp. Kg16−20
Candidatus Nitrosocosmicus sp. Kg16−21
Candidatus Nitrosocosmicus sp. Kg16−22
Candidatus Nitrosocosmicus sp. Kg16−23
Candidatus Nitrosocosmicus sp. Kg16−24
Candidatus Nitrosocosmicus sp. Kg16−25
Candidatus Nitrosocosmicus sp. Kg16−26
Candidatus Nitrosocosmicus sp. Kg16−27
Candidatus Nitrosocosmicus sp. Kg16−28
Candidatus Nitrosocosmicus sp. Kg16−29
Candidatus Nitrosocosmicus sp. Kg16−30
Candidatus Nitrosocosmicus sp. Kg16−31
Candidatus Nitrosocosmicus sp. Kg16−32
Candidatus Nitrosocosmicus sp. Kg16−33
Candidatus Nitrosocosmicus sp. Kg16−34
Candidatus Nitrosocosmicus sp. Kg16−35
Candidatus Nitrosocosmicus sp. Kg16−36
Candidatus Nitrosocosmicus sp. Kg16−37
Candidatus Nitrosocosmicus sp. Kg16−38
Candidatus Nitrosocosmicus sp. Kg16−39
Candidatus Nitrosocosmicus sp. Kg16−40
Candidatus Nitrosocosmicus sp. Kg16−41
Candidatus Nitrosocosmicus sp. Kg16−42
Candidatus Nitrosocosmicus sp. Kg16−43
Candidatus Nitrosocosmicus sp. Kg16−44
Candidatus Nitrosocosmicus sp. Kg16−45
Candidatus Nitrosocosmicus sp. Kg16−46
Candidatus Nitrosocosmicus sp. Kg16−47
Candidatus Nitrosocosmicus sp. Kg16−48
Candidatus Nitrosocosmicus sp. Kg16−49
Candidatus Nitrosocosmicus sp. Kg16−50
Candidatus Nitrosocosmicus sp. Kg16−51
Candidatus Nitrosocosmicus sp. Kg16−52
Candidatus Nitrosocosmicus sp. Kg16−53
Candidatus Nitrosocosmicus sp. Kg16−54
Candidatus Nitrosocosmicus sp. Kg16−55
Candidatus Nitrosocosmicus sp. Kg16−56
Candidatus Nitrosocosmicus sp. Kg16−57
Candidatus Nitrosocosmicus sp. Kg16−58
Candidatus Nitrosocosmicus sp. Kg16−59
Candidatus Nitrosocosmicus sp. Kg16−60
Candidatus Nitrosocosmicus sp. Kg16−61
Candidatus Nitrosocosmicus sp. Kg16−62
Candidatus Nitrosocosmicus sp. Kg16−63
Candidatus Nitrosocosmicus sp. Kg16−64
Candidatus Nitrosocosmicus sp. Kg16−65
Candidatus Nitrosocosmicus sp. Kg16−66
Candidatus Nitrosocosmicus sp. Kg16−67
Candidatus Nitrosocosmicus sp. Kg16−68
Candidatus Nitrosocosmicus sp. Kg16−69
Candidatus Nitrosocosmicus sp. Kg16−70
Candidatus Nitrosocosmicus sp. Kg16−71
Candidatus Nitrosocosmicus sp. Kg16−72
Candidatus Nitrosocosmicus sp. Kg16−73
Candidatus Nitrosocosmicus sp. Kg16−74
Candidatus Nitrosocosmicus sp. Kg16−75
Candidatus Nitrosocosmicus sp. Kg16−76
Candidatus Nitrosocosmicus sp. Kg16−77
Candidatus Nitrosocosmicus sp. Kg16−78
Candidatus Nitrosocosmicus sp. Kg16−79
Candidatus Nitrosocosmicus sp. Kg16−80
Candidatus Nitrosocosmicus sp. Kg16−81
Candidatus Nitrosocosmicus sp. Kg16−82
Candidatus Nitrosocosmicus sp. Kg16−83
Candidatus Nitrosocosmicus sp. Kg16−84
Candidatus Nitrosocosmicus sp. Kg16−85
Candidatus Nitrosocosmicus sp. Kg16−86
Candidatus Nitrosocosmicus sp. Kg16−87
Candidatus Nitrosocosmicus sp. Kg16−88
Candidatus Nitrosocosmicus sp. Kg16−89
Candidatus Nitrosocosmicus sp. Kg16−90
Candidatus Nitrosocosmicus sp. Kg16−91
Candidatus Nitrosocosmicus sp. Kg16−92
Candidatus Nitrosocosmicus sp. Kg16−93
Candidatus Nitrosocosmicus sp. Kg16−94
Candidatus Nitrosocosmicus sp. Kg16−95
Candidatus Nitrosocosmicus sp. Kg16−96
Candidatus Nitrosocosmicus sp. Kg16−97
Candidatus Nitrosocosmicus sp. Kg16−98
Candidatus Nitrosocosmicus sp. Kg16−99
Candidatus Nitrosocosmicus sp. Kg16−100
Candidatus Nitrosocosmicus sp. Kg16−101
Candidatus Nitrosocosmicus sp. Kg16−102
Candidatus Nitrosocosmicus sp. Kg16−103
Candidatus Nitrosocosmicus sp. Kg16−104
Candidatus Nitrosocosmicus sp. Kg16−105
Candidatus Nitrosocosmicus sp. Kg16−106
Candidatus Nitrosocosmicus sp. Kg16−107
Candidatus Nitrosocosmicus sp. Kg16−108
Candidatus Nitrosocosmicus sp. Kg16−109
Candidatus Nitrosocosmicus sp. Kg16−110
Candidatus Nitrosocosmicus sp. Kg16−111
Candidatus Nitrosocosmicus sp. Kg16−112
Candidatus Nitrosocosmicus sp. Kg16−113
Candidatus Nitrosocosmicus sp. Kg16−114
Candidatus Nitrosocosmicus sp. Kg16−115
Candidatus Nitrosocosmicus sp. Kg16−116
Candidatus Nitrosocosmicus sp. Kg16−117
Candidatus Nitrosocosmicus sp. Kg16−118
Candidatus Nitrosocosmicus sp. Kg16−119
Candidatus Nitrosocosmicus sp. Kg16−120
Candidatus Nitrosocosmicus sp. Kg16−121
Candidatus Nitrosocosmicus sp. Kg16−122
Candidatus Nitrosocosmicus sp. Kg16−123
Candidatus Nitrosocosmicus sp. Kg16−124
Candidatus Nitrosocosmicus sp. Kg16−125
Candidatus Nitrosocosmicus sp. Kg16−126
Candidatus Nitrosocosmicus sp. Kg16−127
Candidatus Nitrosocosmicus sp. Kg16−128
Candidatus Nitrosocosmicus sp. Kg16−129
Candidatus Nitrosocosmicus sp. Kg16−130
Candidatus Nitrosocosmicus sp. Kg16−131
Candidatus Nitrosocosmicus sp. Kg16−132
Candidatus Nitrosocosmicus sp. Kg16−133
Candidatus Nitrosocosmicus sp. Kg16−134
Candidatus Nitrosocosmicus sp. Kg16−135
Candidatus Nitrosocosmicus sp. Kg16−136
Candidatus Nitrosocosmicus sp. Kg16−137
Candidatus Nitrosocosmicus sp. Kg16−138
Candidatus Nitrosocosmicus sp. Kg16−139
Candidatus Nitrosocosmicus sp. Kg16−140
Candidatus Nitrosocosmicus sp. Kg16−141
Candidatus Nitrosocosmicus sp. Kg16−142
Candidatus Nitrosocosmicus sp. Kg16−143
Candidatus Nitrosocosmicus sp. Kg16−144
Candidatus Nitrosocosmicus sp. Kg16−145
Candidatus Nitrosocosmicus sp. Kg16−146
Candidatus Nitrosocosmicus sp. Kg16−147
Candidatus Nitrosocosmicus sp. Kg16−148
Candidatus Nitrosocosmicus sp. Kg16−149
Candidatus Nitrosocosmicus sp. Kg16−150
Candidatus Nitrosocosmicus sp. Kg16−151
Candidatus Nitrosocosmicus sp. Kg16−152
Candidatus Nitrosocosmicus sp. Kg16−153
Candidatus Nitrosocosmicus sp. Kg16−154
Candidatus Nitrosocosmicus sp. Kg16−155
Candidatus Nitrosocosmicus sp. Kg16−156
Candidatus Nitrosocosmicus sp. Kg16−157
Candidatus Nitrosocosmicus sp. Kg16−158
Candidatus Nitrosocosmicus sp. Kg16−159
Candidatus Nitrosocosmicus sp. Kg16−160
Candidatus Nitrosocosmicus sp. Kg16−161
Candidatus Nitrosocosmicus sp. Kg16−162
Candidatus Nitrosocosmicus sp. Kg16−163
Candidatus Nitrosocosmicus sp. Kg16−164
Candidatus Nitrosocosmicus sp. Kg16−165
Candidatus Nitrosocosmicus sp. Kg16−166
Candidatus Nitrosocosmicus sp. Kg16−167
Candidatus Nitrosocosmicus sp. Kg16−168
Candidatus Nitrosocosmicus sp. Kg16−169
Candidatus Nitrosocosmicus sp. Kg16−170
Candidatus Nitrosocosmicus sp. Kg16−171
Candidatus Nitrosocosmicus sp. Kg16−172
Candidatus Nitrosocosmicus sp. Kg16−173
Candidatus Nitrosocosmicus sp. Kg16−174
Candidatus Nitrosocosmicus sp. Kg16−175
Candidatus Nitrosocosmicus sp. Kg16−176
Candidatus Nitrosocosmicus sp. Kg16−177
Candidatus Nitrosocosmicus sp. Kg16−178
Candidatus Nitrosocosmicus sp. Kg16−179
Candidatus Nitrosocosmicus sp. Kg16−180
Candidatus Nitrosocosmicus sp. Kg16−181
Candidatus Nitrosocosmicus sp. Kg16−182
Candidatus Nitrosocosmicus sp. Kg16−183
Candidatus Nitrosocosmicus sp. Kg16−184
Candidatus Nitrosocosmicus sp. Kg16−185
Candidatus Nitrosocosmicus sp. Kg16−186
Candidatus Nitrosocosmicus sp. Kg16−187
Candidatus Nitrosocosmicus sp. Kg16−188
Candidatus Nitrosocosmicus sp. Kg16−189
Candidatus Nitrosocosmicus sp. Kg16−190
Candidatus Nitrosocosmicus sp. Kg16−191
Candidatus Nitrosocosmicus sp. Kg16−192
Candidatus Nitrosocosmicus sp. Kg16−193
Candidatus Nitrosocosmicus sp. Kg16−194
Candidatus Nitrosocosmicus sp. Kg16−195
Candidatus Nitrosocosmicus sp. Kg16−196
Candidatus Nitrosocosmicus sp. Kg16−197
Candidatus Nitrosocosmicus sp. Kg16−198
Candidatus Nitrosocosmicus sp. Kg16−199
Candidatus Nitrosocosmicus sp. Kg16−200
Candidatus Nitrosocosmicus sp. Kg16−201
Candidatus Nitrosocosmicus sp. Kg16−202
Candidatus Nitrosocosmicus sp. Kg16−203
Candidatus Nitrosocosmicus sp. Kg16−204
Candidatus Nitrosocosmicus sp. Kg16−205
Candidatus Nitrosocosmicus sp. Kg16−206
Candidatus Nitrosocosmicus sp. Kg16−207
Candidatus Nitrosocosmicus sp. Kg16−208
Candidatus Nitrosocosmicus sp. Kg16−209
Candidatus Nitrosocosmicus sp. Kg16−210
Candidatus Nitrosocosmicus sp. Kg16−211
Candidatus Nitrosocosmicus sp. Kg16−212
Candidatus Nitrosocosmicus sp. Kg16−213
Candidatus Nitrosocosmicus sp. Kg16−214
Candidatus Nitrosocosmicus sp. Kg16−215
Candidatus Nitrosocosmicus sp. Kg16−216
Candidatus Nitrosocosmicus sp. Kg16−217
Candidatus Nitrosocosmicus sp. Kg16−218
Candidatus Nitrosocosmicus sp. Kg16−219
Candidatus Nitrosocosmicus sp. Kg16−220
1e−20
1e−10
0.001
0.1

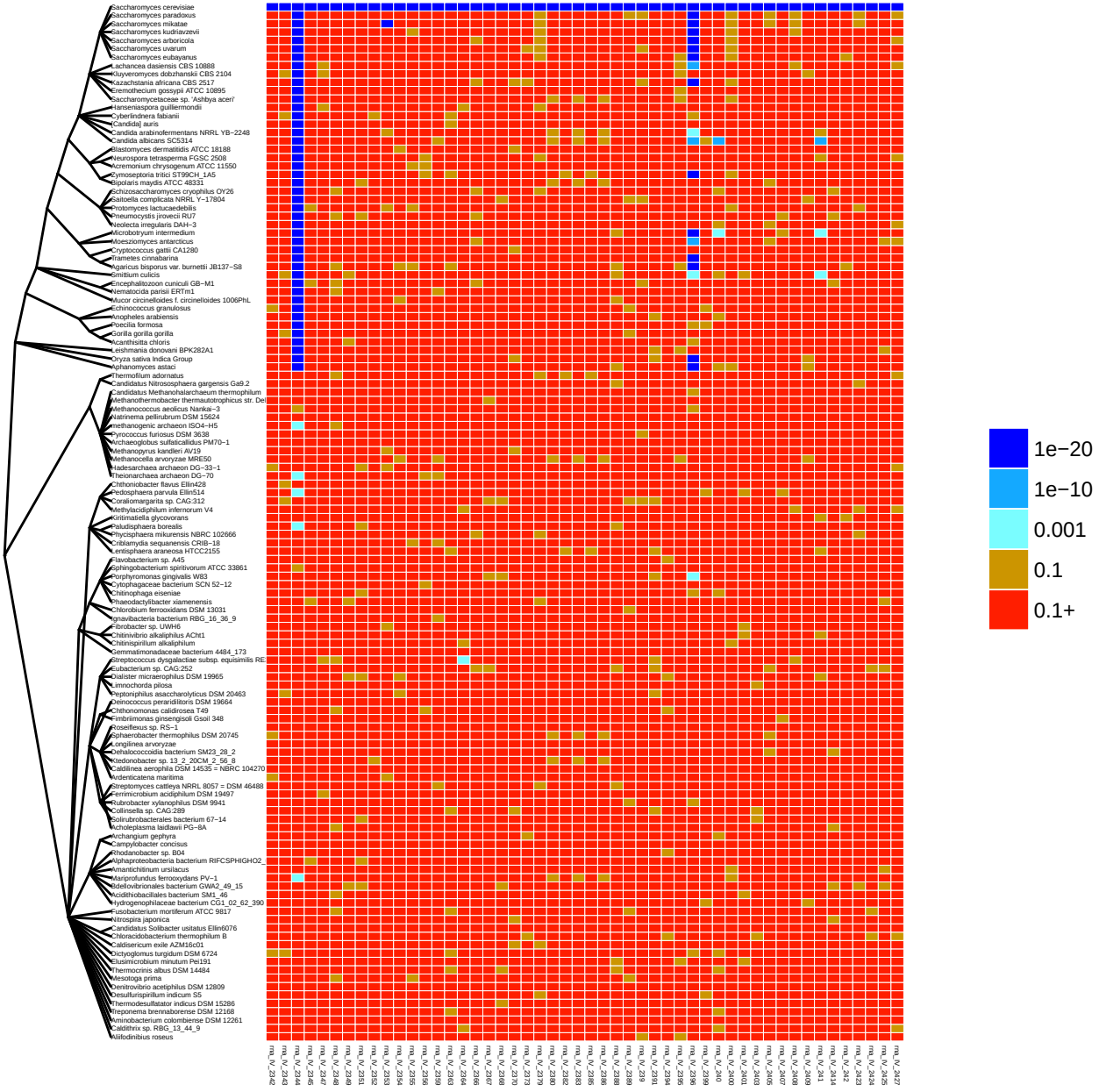

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mu_N_2020
mu_N_2021
mu_N_2024
mu_N_2026
mu_N_2028
mu_N_2023
mu_N_2030
mu_N_2031
mu_N_2032
mu_N_2033
mu_N_2034
mu_N_2035
mu_N_2036
mu_N_2037
mu_N_2038
mu_N_2039
mu_N_2041
mu_N_2040
mu_N_2042
mu_N_2043
mu_N_2044
mu_N_2045
mu_N_2046
mu_N_2047
mu_N_2048
mu_N_2049
mu_N_2025
mu_N_2050
mu_N_2051
mu_N_2053
mu_N_2054
mu_N_2055
mu_N_2056
mu_N_2057
mu_N_2058
mu_N_2059
mu_N_2060
mu_N_2061
mu_N_2062
mu_N_2063
mu_N_2065
mu_N_2068
mu_N_2067
mu_N_2070
mu_N_2071
mu_N_2072
mu_N_2073
mu_N_2074
mu_N_2076
mu_N_2077
mu_N_2078
1e−20
1e−10
0.001
0.1
0.1+

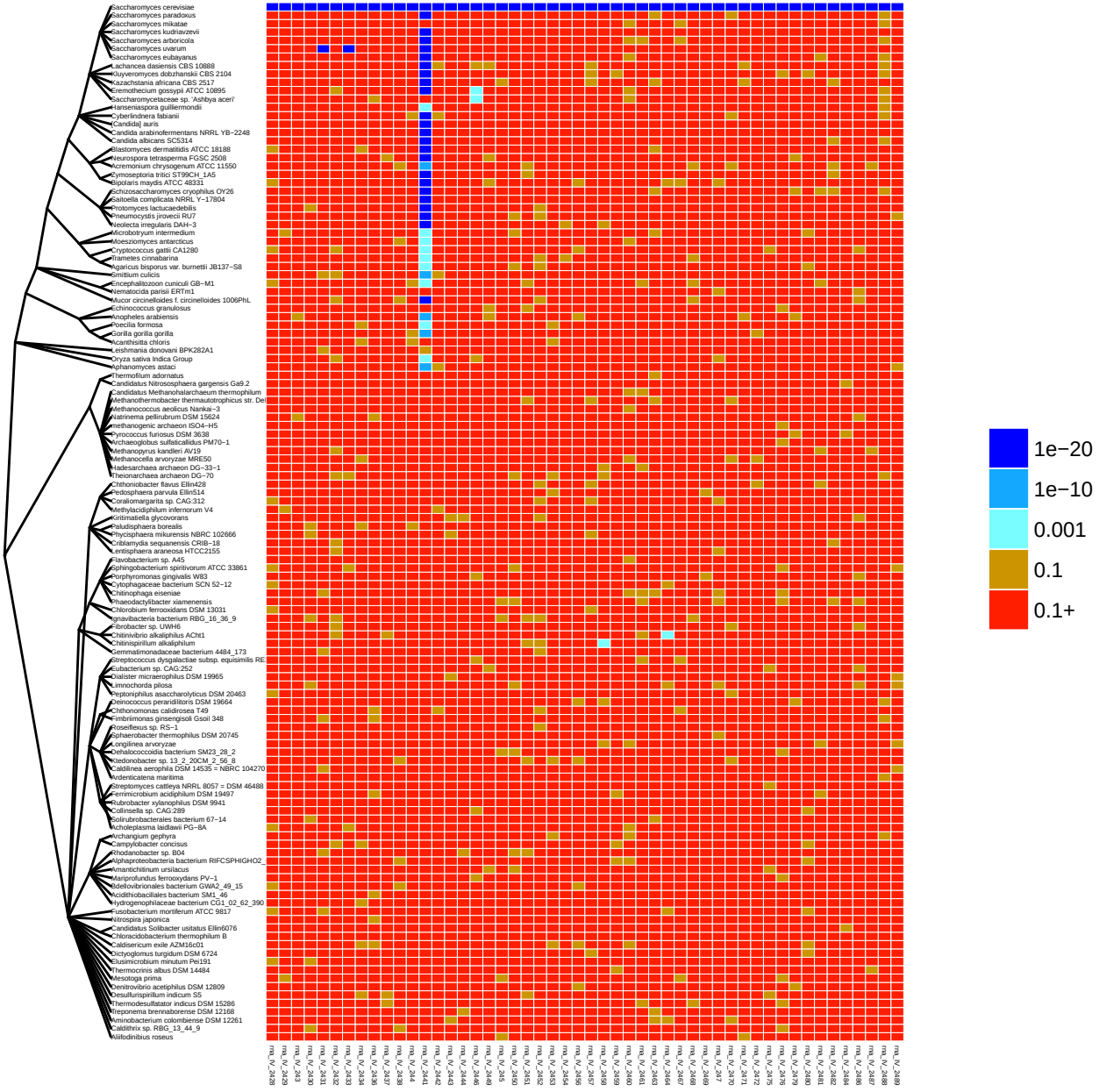

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_V_2080
ma_V_2081
ma_V_2083
ma_V_2084
ma_V_2085
ma_V_2086
ma_V_2087
ma_V_2088
ma_V_2089
ma_V_209
ma_V_2090
ma_V_2091
ma_V_2092
ma_V_2094
ma_V_2095
ma_V_2097
ma_V_21
ma_V_210
ma_V_2101
ma_V_2102
ma_V_2105
ma_V_2106
ma_V_2107
ma_V_2109
ma_V_211
ma_V_2112
ma_V_2113
ma_V_2114
ma_V_2115
ma_V_2116
ma_V_212
ma_V_2120
ma_V_2121
ma_V_2122
ma_V_2123
ma_V_2124
ma_V_2125
ma_V_2126
ma_V_2127
ma_V_2128
ma_V_2129
ma_V_213
ma_V_2130
ma_V_2132
ma_V_2133
ma_V_2134
ma_V_2135
ma_V_2137
ma_V_2138
ma_V_2139
1e−20
1e−10
0.001
0.1

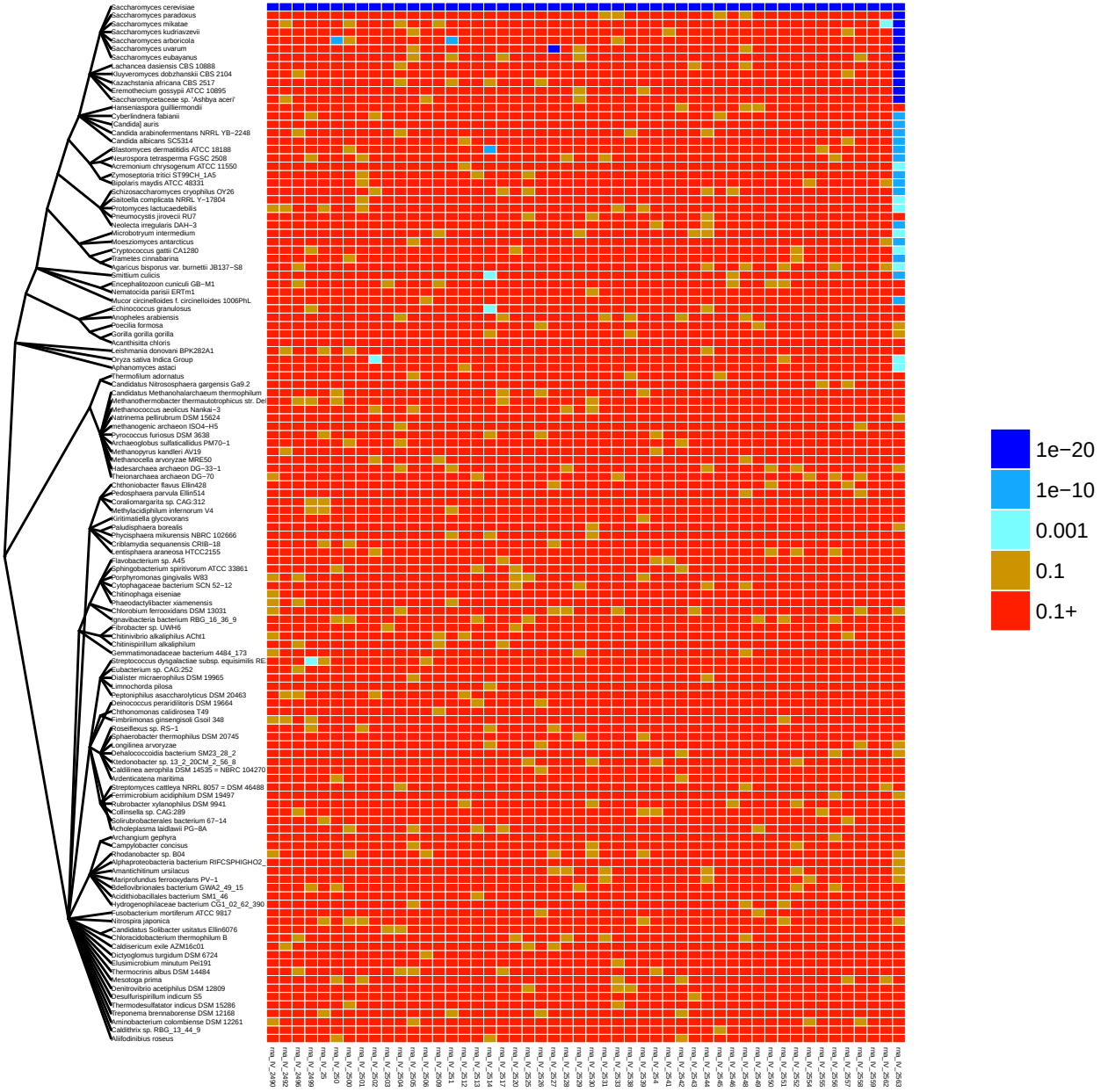

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
ma_v_214
ma_v_2140
ma_v_2141
ma_v_2142
ma_v_2143
ma_v_2145
ma_v_2147
ma_v_2148
ma_v_215
ma_v_2150
ma_v_2151
ma_v_2153
ma_v_2154
ma_v_2155
ma_v_2156
ma_v_2157
ma_v_2158
ma_v_2159
ma_v_216
ma_v_2160
ma_v_2161
ma_v_2164
ma_v_2166
ma_v_2167
ma_v_2168
ma_v_2169
ma_v_217
ma_v_2171
ma_v_2172
ma_v_2173
ma_v_2174
ma_v_2175
ma_v_2176
ma_v_2177
ma_v_2178
ma_v_2179
ma_v_218
ma_v_2181
ma_v_2183
ma_v_2185
ma_v_2186
ma_v_2187
ma_v_2189
ma_v_219
ma_v_2190
ma_v_2191
ma_v_2192
ma_v_2193
ma_v_2198
ma_v_2199
1e−20
1e−10
0.001
0.1

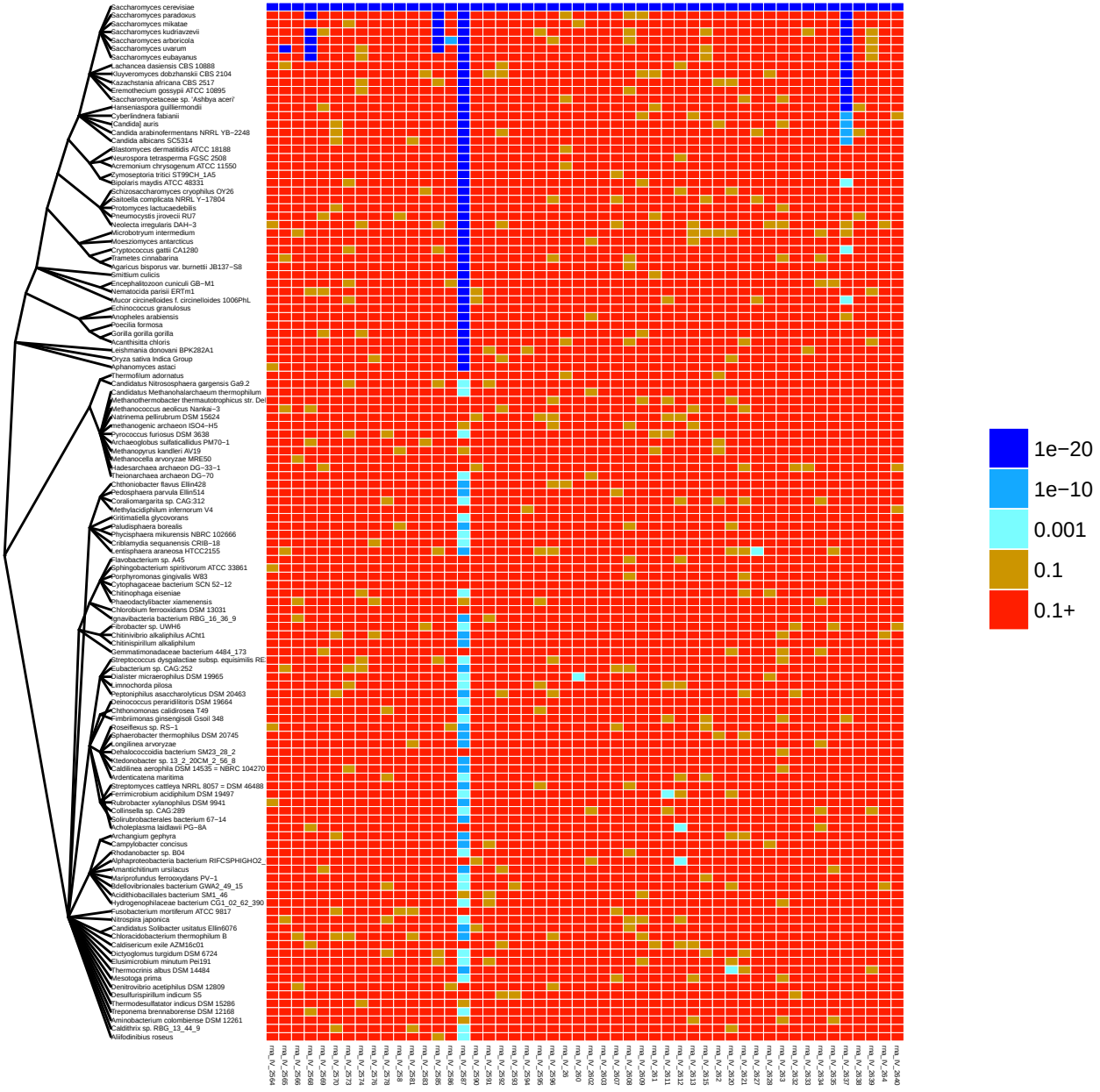

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_V_2200
ma_V_2203
ma_V_2204
ma_V_2205
ma_V_2206
ma_V_2207
ma_V_2208
ma_V_2210
ma_V_2212
ma_V_2213
ma_V_2215
ma_V_2219
ma_V_2221
ma_V_2222
ma_V_2223
ma_V_2224
ma_V_2225
ma_V_2226
ma_V_2227
ma_V_2228
ma_V_2229
ma_V_2230
ma_V_2231
ma_V_2232
ma_V_2233
ma_V_2236
ma_V_2237
ma_V_2239
ma_V_2240
ma_V_2241
ma_V_2242
ma_V_2245
ma_V_2246
ma_V_2247
ma_V_2248
ma_V_2250
ma_V_2253
ma_V_2255
ma_V_2257
ma_V_2258
ma_V_2261
ma_V_2260
ma_V_2262
ma_V_2264
ma_V_2265
ma_V_2268
ma_V_227
1e−20
1e−10
0.001
0.1
0.1+

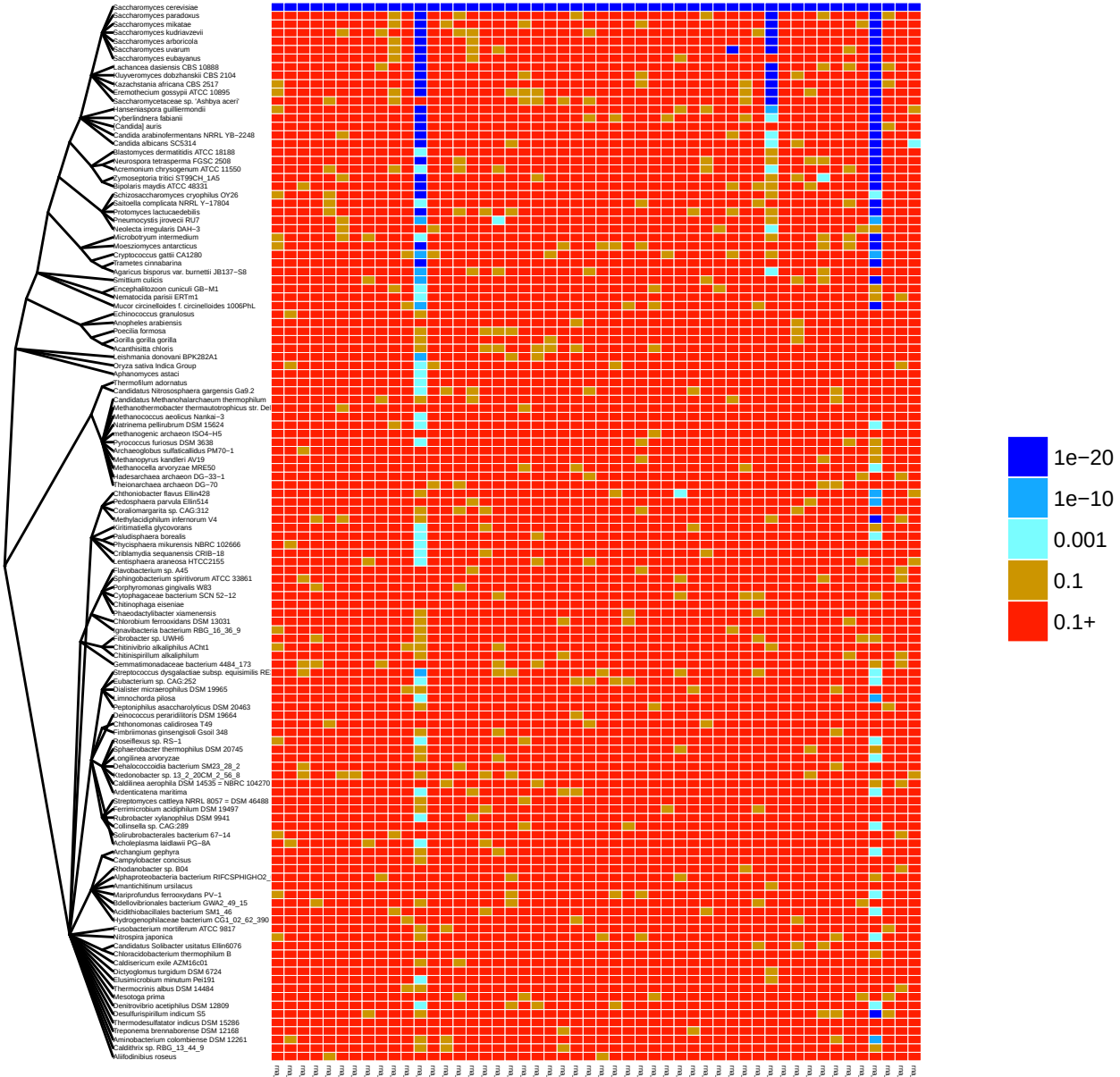

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eisenia
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
ma_N_2270
ma_N_2271
ma_N_2272
ma_N_2275
ma_N_2276
ma_N_2278
ma_N_2279
ma_N_2280
ma_N_2281
ma_N_2282
ma_N_2283
ma_N_2285
ma_N_2287
ma_N_2288
ma_N_2289
ma_N_2291
ma_N_2292
ma_N_2293
ma_N_2294
ma_N_2295
ma_N_2297
ma_N_2299
ma_N_23
ma_N_2300
ma_N_2301
ma_N_2302
ma_N_2309
ma_N_231
ma_N_2310
ma_N_2311
ma_N_2312
ma_N_2314
ma_N_2315
ma_N_2316
ma_N_2317
ma_N_2320
ma_N_2321
ma_N_2322
ma_N_2323
ma_N_2324
ma_N_2325
ma_N_2326
ma_N_2327
ma_N_2329
ma_N_2333
ma_N_2334
ma_N_2339
ma_N_234
ma_N_2340
ma_N_2341
1e−20
1e−10
0.001
0.1
0.1+

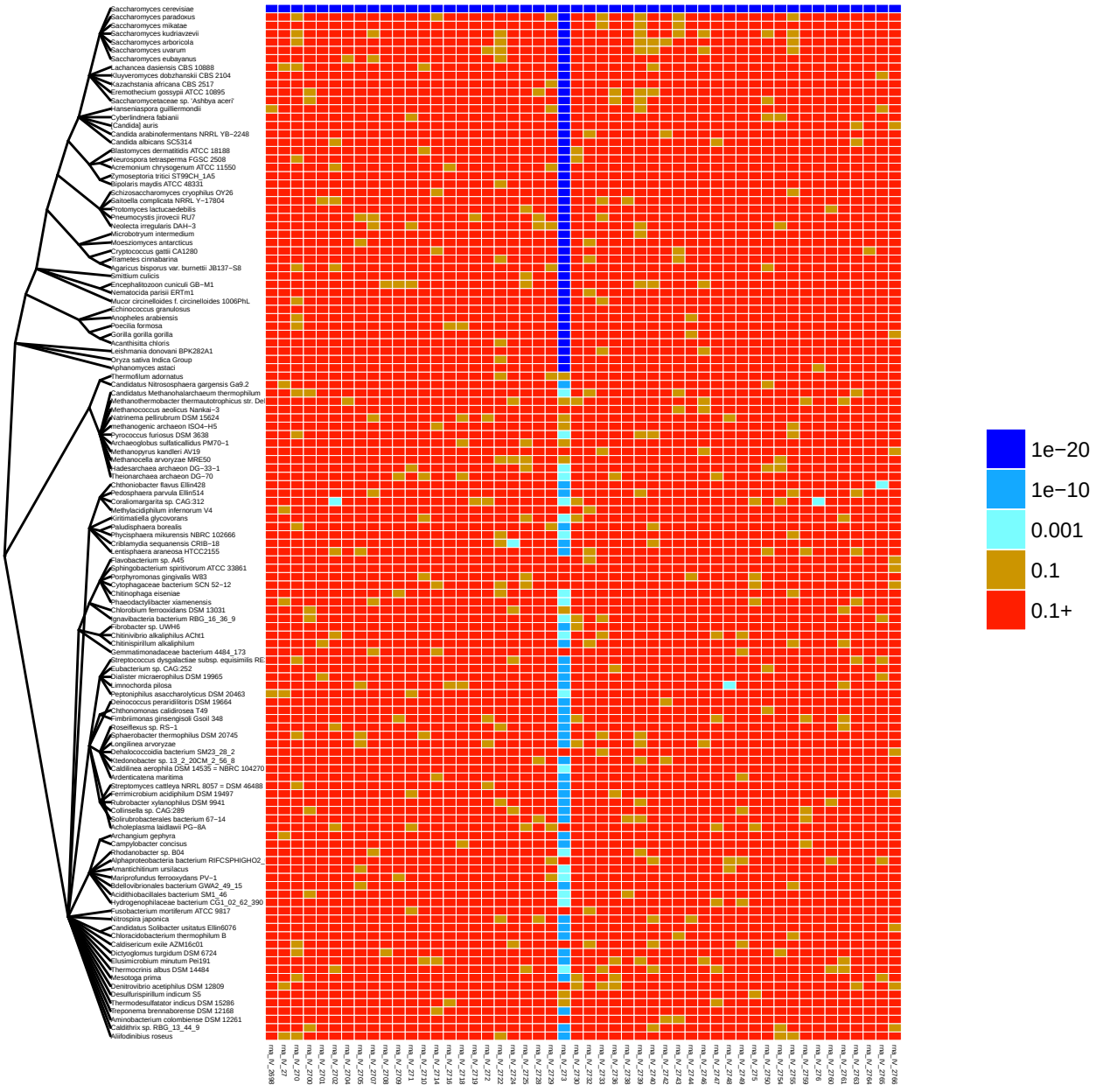

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonas
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis sp. R4
Candidatus Nitrosotenuis sp. J07B415
Candidatus Nitrosotenuis sp. J07B416
Candidatus Nitrosotenuis sp. J07B417
Candidatus Nitrosotenuis sp. J07B418
Candidatus Nitrosotenuis sp. J07B420
Candidatus Nitrosotenuis sp. J07B421
Candidatus Nitrosotenuis sp. J07B422
Candidatus Nitrosotenuis sp. J07B423
Candidatus Nitrosotenuis sp. J07B424
Candidatus Nitrosotenuis sp. J07B425
Candidatus Nitrosotenuis sp. J07B426
Candidatus Nitrosotenuis sp. J07B427
1e−20
1e−10
0.001
0.1
0.1+

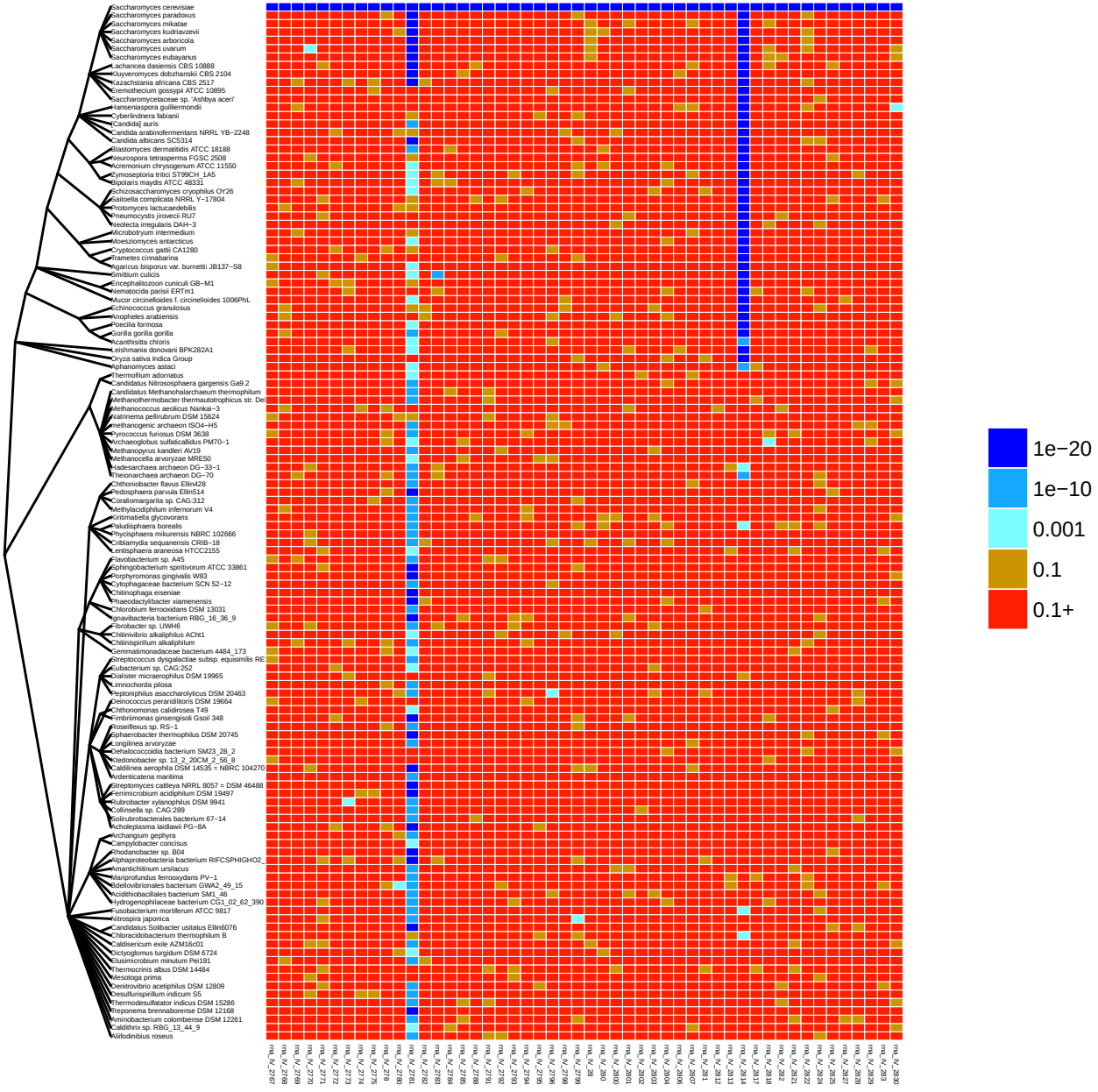

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Kinibacter sp. RBG_13_44_9
Niastella koreensis
ma_N_2428
ma_N_2429
ma_N_243
ma_N_2430
ma_N_2431
ma_N_2432
ma_N_2433
ma_N_2434
ma_N_2436
ma_N_2437
ma_N_2438
ma_N_244
ma_N_2441
ma_N_2442
ma_N_2443
ma_N_2444
ma_N_2446
ma_N_2449
ma_N_245
ma_N_2450
ma_N_2451
ma_N_2452
ma_N_2453
ma_N_2454
ma_N_2456
ma_N_2457
ma_N_2458
ma_N_2459
ma_N_2460
ma_N_2461
ma_N_2463
ma_N_2464
ma_N_2467
ma_N_2468
ma_N_2469
ma_N_247
ma_N_2470
ma_N_2471
ma_N_2472
ma_N_2475
ma_N_2476
ma_N_2479
ma_N_2480
ma_N_2481
ma_N_2482
ma_N_2484
ma_N_2486
ma_N_2487
ma_N_2488
ma_N_2489
1e−20
1e−10
0.001
0.1
0.1+

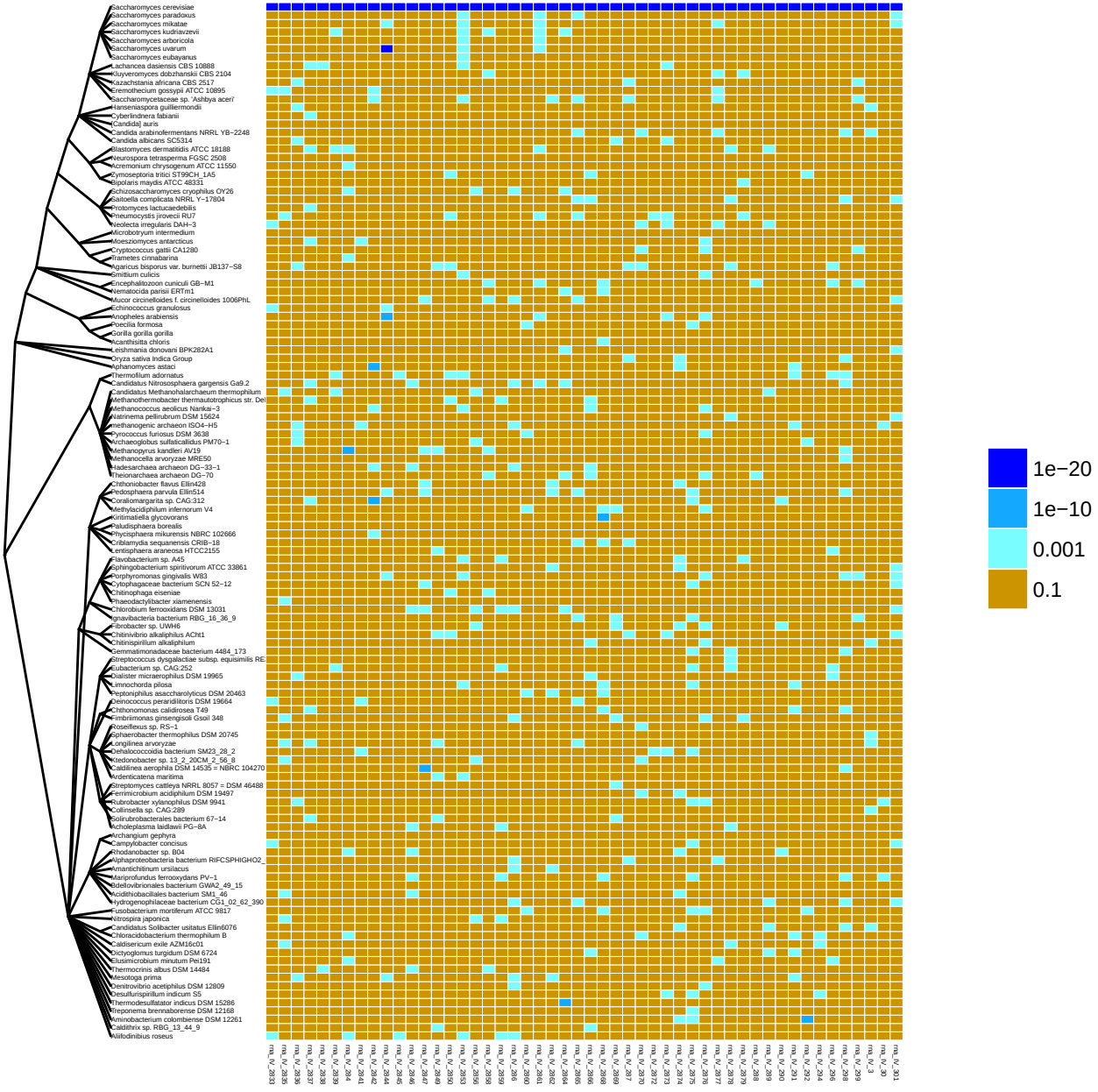

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mu_v_2490
mu_v_2492
mu_v_2496
mu_v_2499
mu_v_25
mu_v_250
mu_v_2500
mu_v_2501
mu_v_2502
mu_v_2503
mu_v_2504
mu_v_2505
mu_v_2506
mu_v_2509
mu_v_251
mu_v_2512
mu_v_2513
mu_v_2514
mu_v_2517
mu_v_2520
mu_v_2525
mu_v_2526
mu_v_2527
mu_v_2528
mu_v_2529
mu_v_2530
mu_v_2531
mu_v_2533
mu_v_2538
mu_v_2539
mu_v_254
mu_v_2541
mu_v_2542
mu_v_2543
mu_v_2544
mu_v_2545
mu_v_2546
mu_v_2548
mu_v_2549
mu_v_2550
mu_v_2551
mu_v_2552
mu_v_2554
mu_v_2555
mu_v_2556
mu_v_2557
mu_v_2558
mu_v_2559
mu_v_2562
mu_v_2563
1e−20
1e−10
0.001
0.1
0.1+

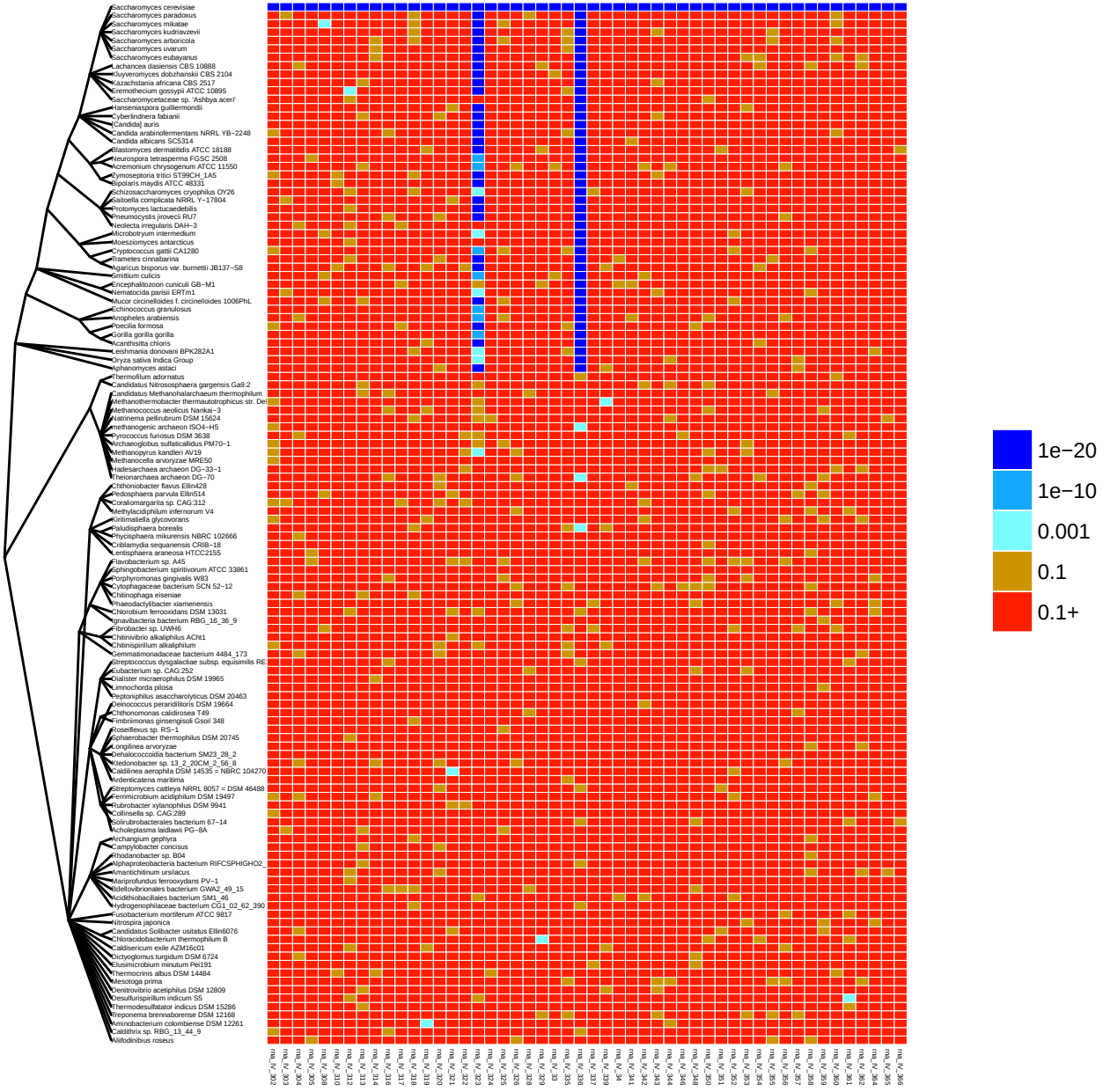

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_N_2564
ma_N_2565
ma_N_2566
ma_N_2568
ma_N_2569
ma_N_2570
ma_N_2573
ma_N_2574
ma_N_2576
ma_N_2578
ma_N_258
ma_N_2581
ma_N_2583
ma_N_2585
ma_N_2586
ma_N_2587
ma_N_2590
ma_N_2591
ma_N_2592
ma_N_2593
ma_N_2594
ma_N_2595
ma_N_2596
ma_N_28
ma_N_2601
ma_N_2602
ma_N_2603
ma_N_2607
ma_N_2608
ma_N_2609
ma_N_261
ma_N_2611
ma_N_2612
ma_N_2613
ma_N_2615
ma_N_262
ma_N_2620
ma_N_2621
ma_N_2627
ma_N_2628
ma_N_263
ma_N_2632
ma_N_2633
ma_N_2634
ma_N_2635
ma_N_2637
ma_N_2638
ma_N_2639
ma_N_264
ma_N_2640
1e−20
1e−10
0.001
0.1
0.1+

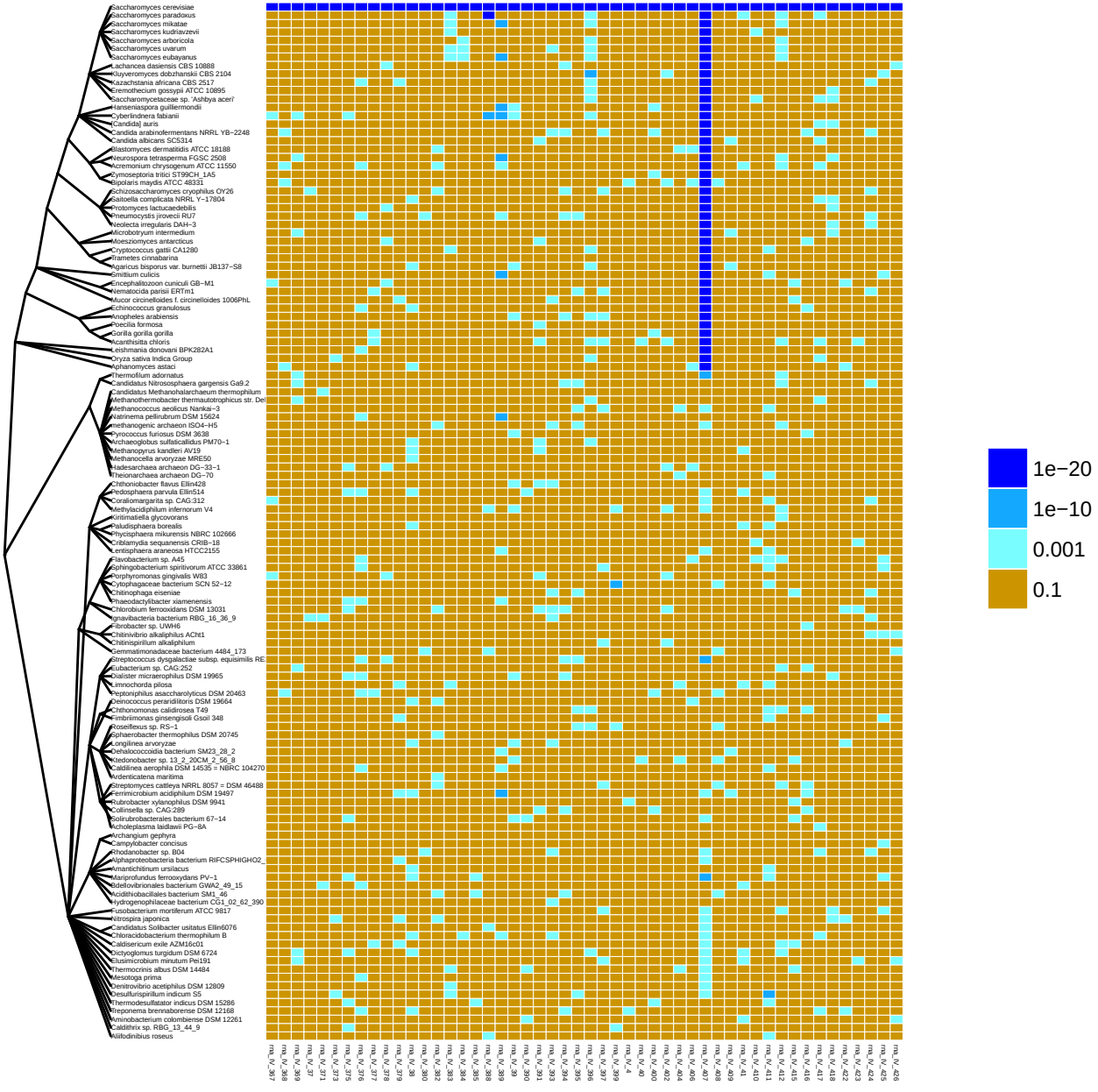

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

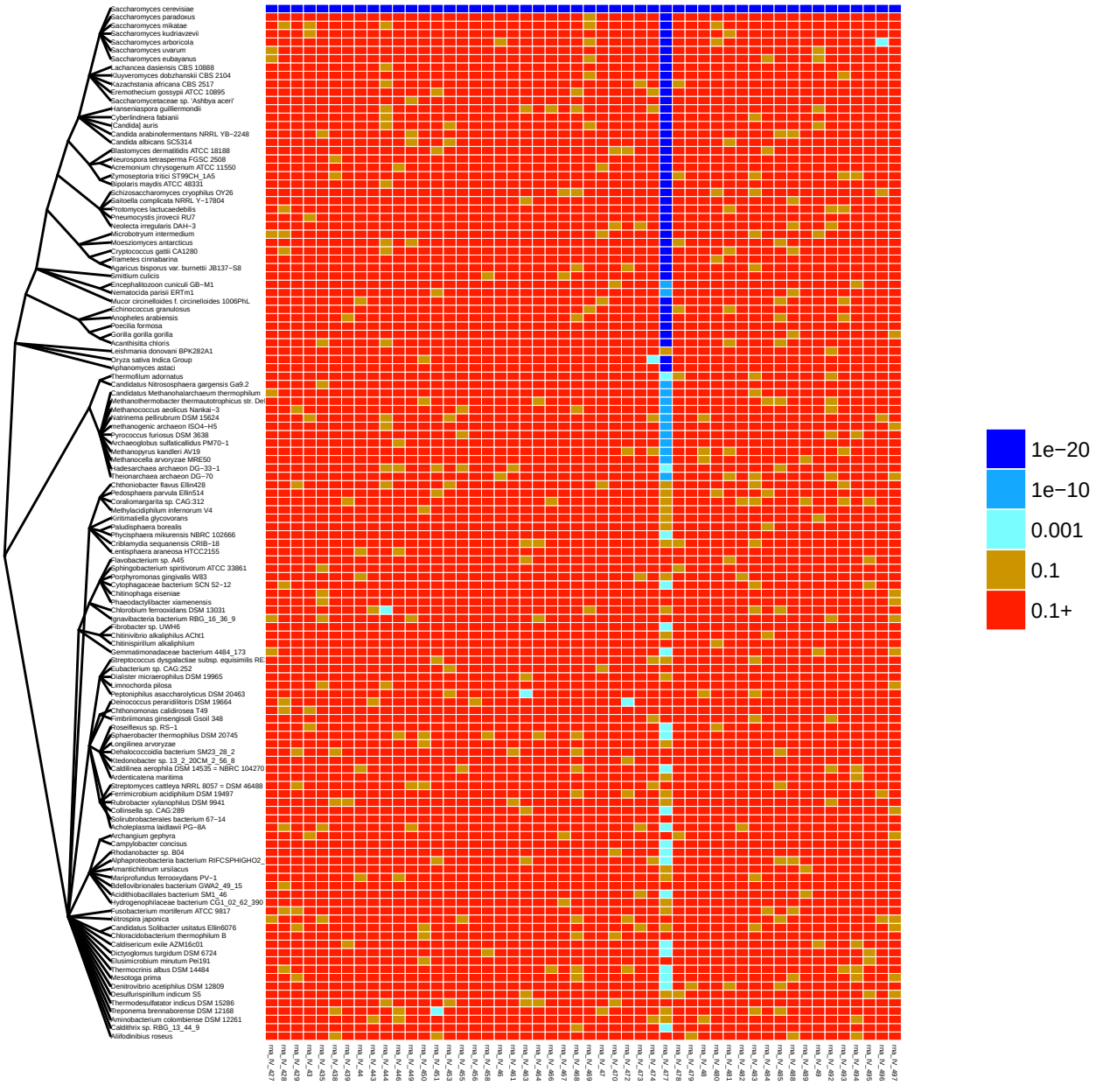

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_N_2698
mu_N_27
mu_N_270
mu_N_2700
mu_N_2701
mu_N_2702
mu_N_2704
mu_N_2705
mu_N_2707
mu_N_2708
mu_N_2709
mu_N_271
mu_N_2710
mu_N_2714
mu_N_2716
mu_N_2718
mu_N_2719
mu_N_272
mu_N_2722
mu_N_2724
mu_N_2725
mu_N_2728
mu_N_2729
mu_N_273
mu_N_2730
mu_N_2732
mu_N_2733
mu_N_2736
mu_N_2738
mu_N_2739
mu_N_2740
mu_N_2742
mu_N_2743
mu_N_2744
mu_N_2746
mu_N_2747
mu_N_2748
mu_N_2749
mu_N_275
mu_N_2750
mu_N_2754
mu_N_2755
mu_N_2759
mu_N_276
mu_N_2760
mu_N_2761
mu_N_2763
mu_N_2764
mu_N_2765
mu_N_2766
1e−20
1e−10
0.001
0.1
0.1+

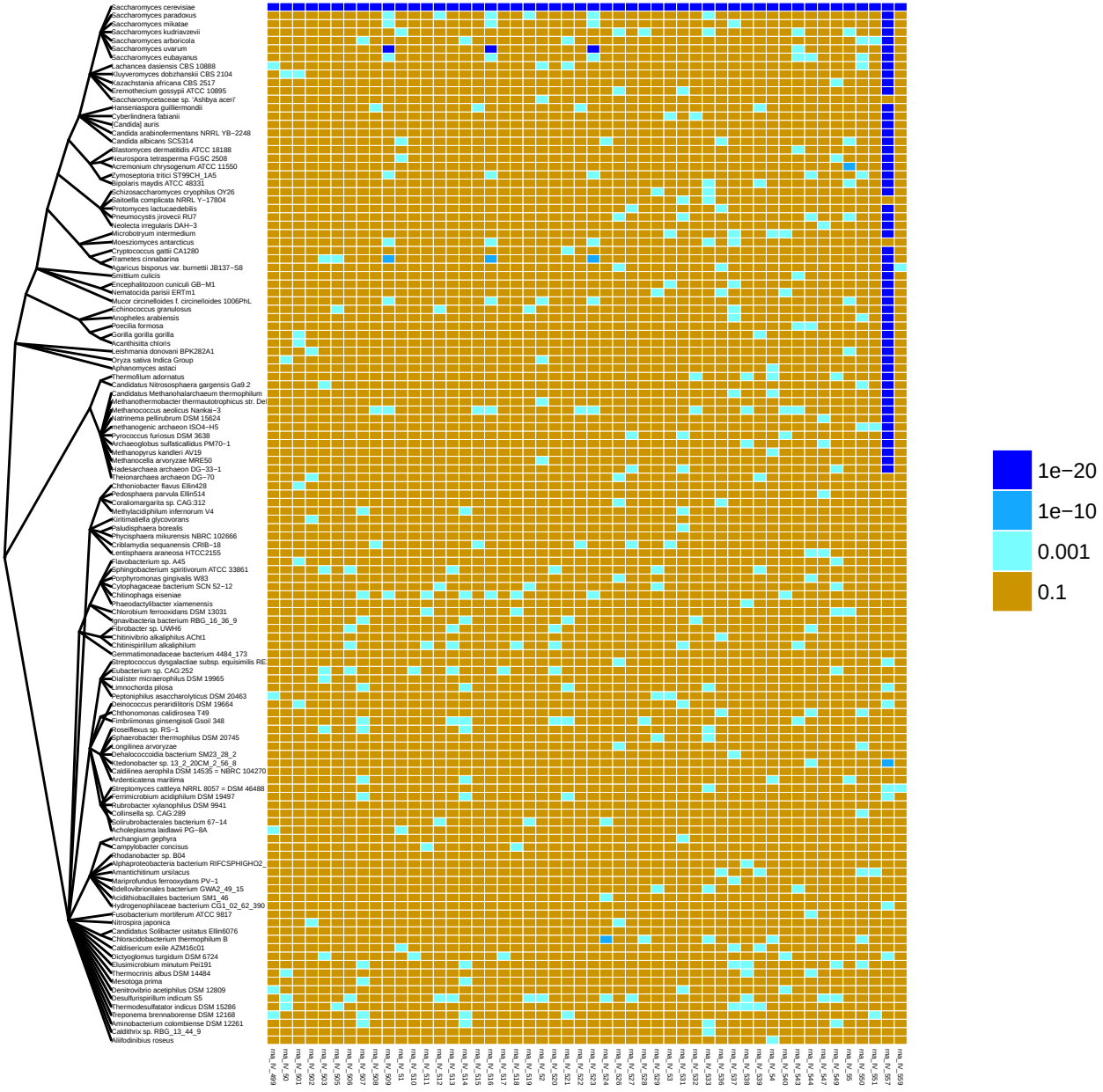

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moeszziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_N_2767
ma_N_2768
ma_N_2769
ma_N_2770
ma_N_2771
ma_N_2772
ma_N_2773
ma_N_2774
ma_N_2775
ma_N_2778
ma_N_2780
ma_N_2781
ma_N_2782
ma_N_2783
ma_N_2784
ma_N_2785
ma_N_2788
ma_N_2791
ma_N_2792
ma_N_2793
ma_N_2794
ma_N_2795
ma_N_2796
ma_N_2798
ma_N_2799
ma_N_28
ma_N_2800
ma_N_2801
ma_N_2802
ma_N_2803
ma_N_2804
ma_N_2806
ma_N_2807
ma_N_281
ma_N_2812
ma_N_2813
ma_N_2814
ma_N_2817
ma_N_2818
ma_N_282
ma_N_2821
ma_N_2822
ma_N_2824
ma_N_2825
ma_N_2827
ma_N_2828
ma_N_2829
ma_N_283
ma_N_2830
1e−20
1e−10
0.001
0.1
0.1+

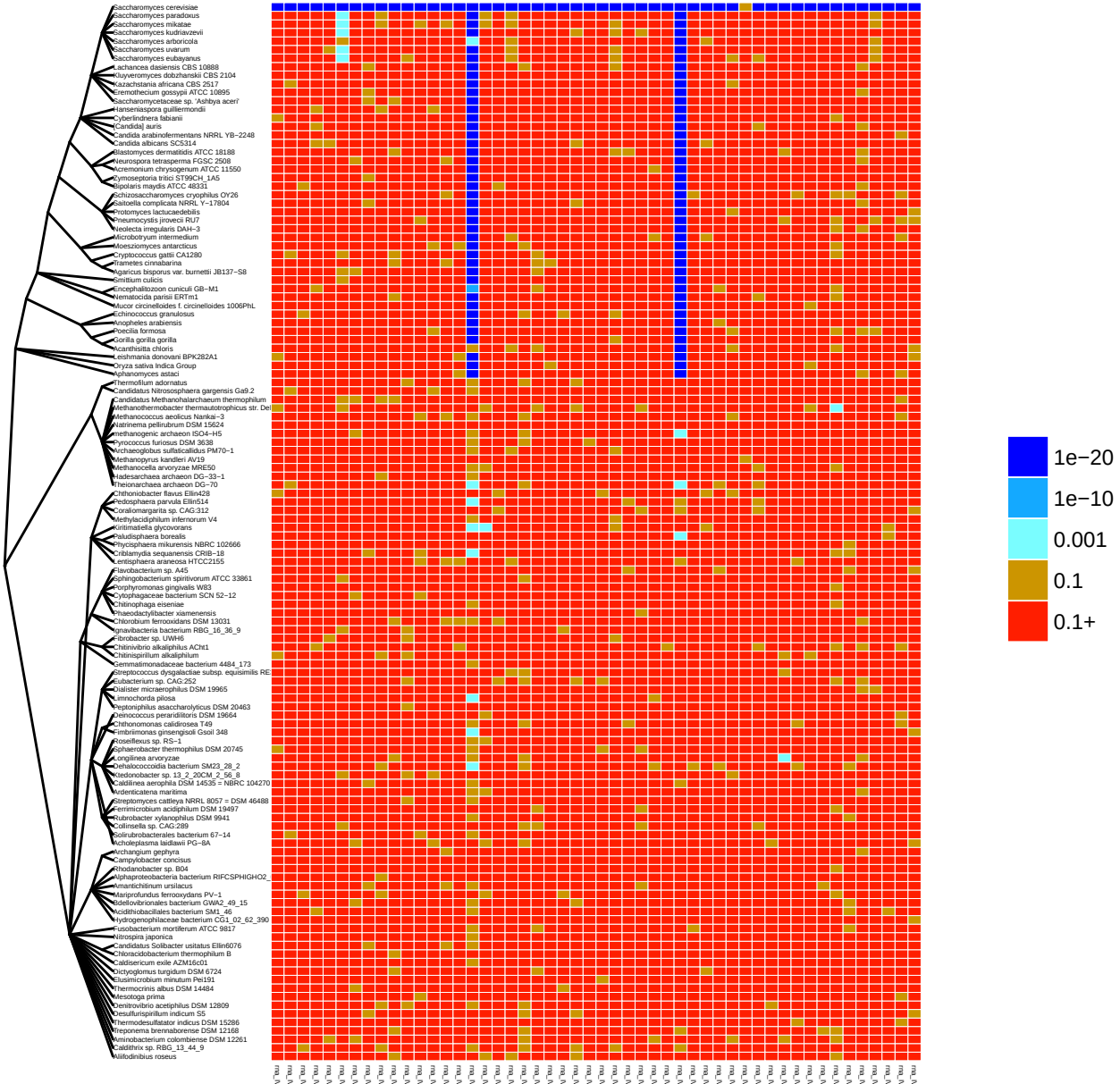

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_N_2833
ma_N_2835
ma_N_2836
ma_N_2837
ma_N_2838
ma_N_2839
ma_N_2841
ma_N_2842
ma_N_2844
ma_N_2845
ma_N_2846
ma_N_2847
ma_N_2849
ma_N_2850
ma_N_2853
ma_N_2856
ma_N_2858
ma_N_2859
ma_N_2861
ma_N_2860
ma_N_2862
ma_N_2864
ma_N_2865
ma_N_2866
ma_N_2868
ma_N_2869
ma_N_2871
ma_N_2870
ma_N_2872
ma_N_2873
ma_N_2874
ma_N_2875
ma_N_2876
ma_N_2877
ma_N_2878
ma_N_2879
ma_N_2881
ma_N_2888
ma_N_2889
ma_N_2890
ma_N_2891
ma_N_2892
ma_N_2894
ma_N_2896
ma_N_2898
ma_N_2899
ma_N_3
ma_N_30
ma_N_301
1e−20
1e−10
0.001
0.1

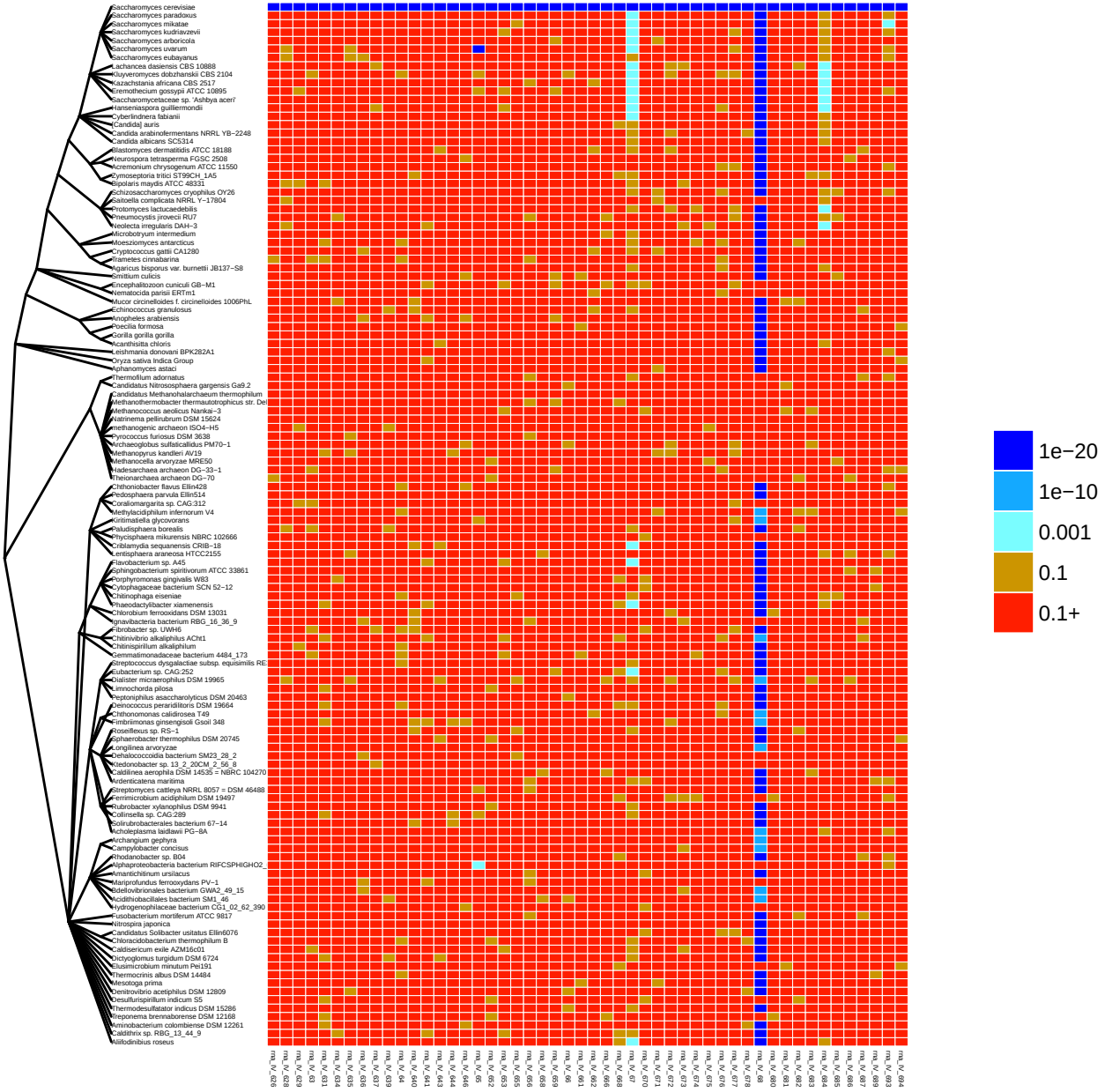

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycoverans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_V_302
ma_V_303
ma_V_304
ma_V_305
ma_V_308
ma_V_310
ma_V_312
ma_V_313
ma_V_314
ma_V_316
ma_V_317
ma_V_318
ma_V_319
ma_V_320
ma_V_321
ma_V_322
ma_V_323
ma_V_324
ma_V_325
ma_V_326
ma_V_328
ma_V_329
ma_V_33
ma_V_335
ma_V_336
ma_V_337
ma_V_339
ma_V_341
ma_V_342
ma_V_343
ma_V_344
ma_V_346
ma_V_348
ma_V_350
ma_V_351
ma_V_352
ma_V_353
ma_V_354
ma_V_355
ma_V_356
ma_V_357
ma_V_358
ma_V_359
ma_V_360
ma_V_361
ma_V_362
ma_V_364
ma_V_365
ma_V_366
1e−20
1e−10
0.001
0.1
0.1+

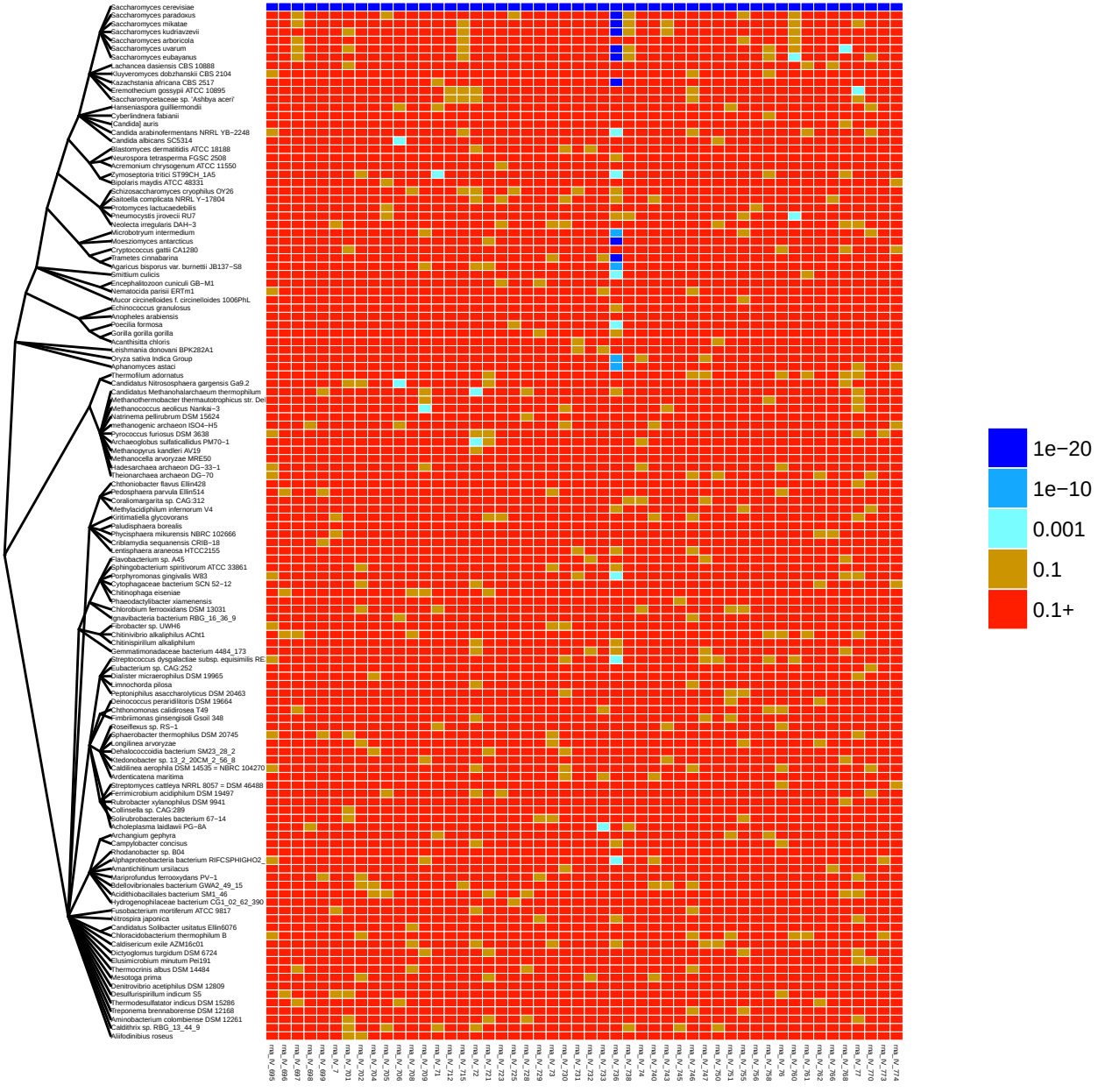

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR2
Nitrosopumilus sp. K8
Nitrosopumilus sp. U25
Nitrosopumilus sp. U27
Nitrosopumilus sp. U34
Nitrosopumilus sp. U35
Nitrosopumilus sp. U38
Nitrosopumilus sp. U39
Nitrosopumilus sp. U40
Nitrosopumilus sp. U41
Nitrosopumilus sp. U42
Nitrosopumilus sp. U43
Nitrosopumilus sp. U44
Nitrosopumilus sp. U45
Nitrosopumilus sp. U46
Nitrosopumilus sp. U47
Nitrosopumilus sp. U48
Nitrosopumilus sp. U49
Nitrosopumilus sp. U50
Nitrosopumilus sp. U51
Nitrosopumilus sp. U52
Nitrosopumilus sp. U53
Nitrosopumilus sp. U54
Nitrosopumilus sp. U55
Nitrosopumilus sp. U56
Nitrosopumilus sp. U57
Nitrosopumilus sp. U58
Nitrosopumilus sp. U59
Nitrosopumilus sp. U60
Nitrosopumilus sp. U61
Nitrosopumilus sp. U62
Nitrosopumilus sp. U63
Nitrosopumilus sp. U64
Nitrosopumilus sp. U65
Nitrosopumilus sp. U66
Nitrosopumilus sp. U67
Nitrosopumilus sp. U68
Nitrosopumilus sp. U69
Nitrosopumilus sp. U70
Nitrosopumilus sp. U71
Nitrosopumilus sp. U72
Nitrosopumilus sp. U73
Nitrosopumilus sp. U74
Nitrosopumilus sp. U75
Nitrosopumilus sp. U76
Nitrosopumilus sp. U77
Nitrosopumilus sp. U78
Nitrosopumilus sp. U79
Nitrosopumilus sp. U80
Nitrosopumilus sp. U81
Nitrosopumilus sp. U82
Nitrosopumilus sp. U83
Nitrosopumilus sp. U84
Nitrosopumilus sp. U85
Nitrosopumilus sp. U86
Nitrosopumilus sp. U87
Nitrosopumilus sp. U88
Nitrosopumilus sp. U89
Nitrosopumilus sp. U90
Nitrosopumilus sp. U91
Nitrosopumilus sp. U92
Nitrosopumilus sp. U93
Nitrosopumilus sp. U94
Nitrosopumilus sp. U95
Nitrosopumilus sp. U96
Nitrosopumilus sp. U97
Nitrosopumilus sp. U98
Nitrosopumilus sp. U99
Nitrosopumilus sp. U100
Nitrosopumilus sp. U101
Nitrosopumilus sp. U102
Nitrosopumilus sp. U103
Nitrosopumilus sp. U104
Nitrosopumilus sp. U105
Nitrosopumilus sp. U106
Nitrosopumilus sp. U107
Nitrosopumilus sp. U108
Nitrosopumilus sp. U109
Nitrosopumilus sp. U110
Nitrosopumilus sp. U111
Nitrosopumilus sp. U112
Nitrosopumilus sp. U113
Nitrosopumilus sp. U114
Nitrosopumilus sp. U115
Nitrosopumilus sp. U116
Nitrosopumilus sp. U117
Nitrosopumilus sp. U118
Nitrosopumilus sp. U119
Nitrosopumilus sp. U120
Nitrosopumilus sp. U121
Nitrosopumilus sp. U122
Nitrosopumilus sp. U123
Nitrosopumilus sp. U124
Nitrosopumilus sp. U125
Nitrosopumilus sp. U126
1e−20
1e−10
0.001
0.1

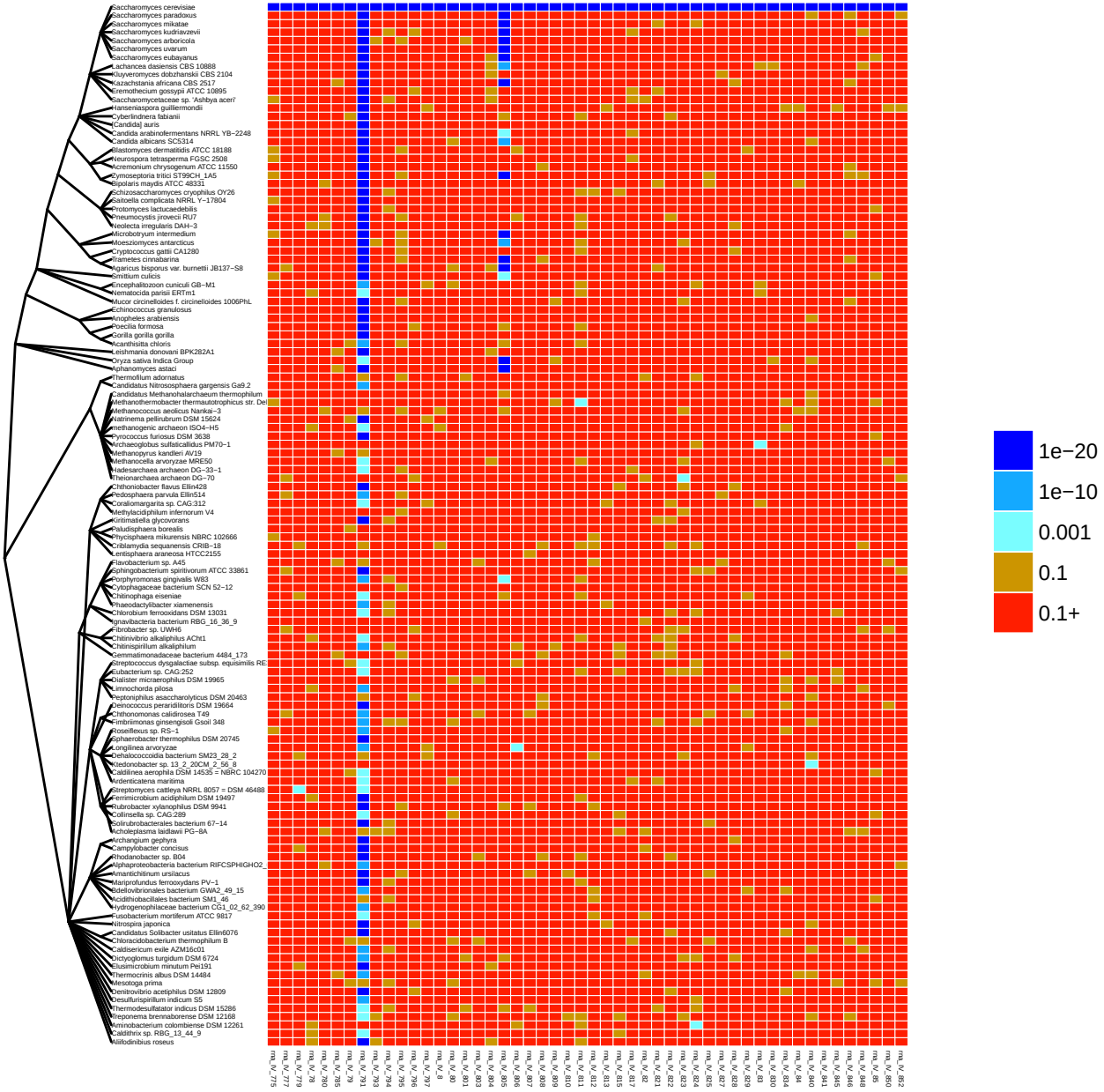

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_N_427
ma_N_428
ma_N_429
ma_N_43
ma_N_435
ma_N_438
ma_N_439
ma_N_44
ma_N_443
ma_N_444
ma_N_446
ma_N_449
ma_N_450
ma_N_451
ma_N_453
ma_N_455
ma_N_456
ma_N_458
ma_N_46
ma_N_461
ma_N_463
ma_N_464
ma_N_466
ma_N_467
ma_N_468
ma_N_469
ma_N_47
ma_N_470
ma_N_472
ma_N_473
ma_N_474
ma_N_477
ma_N_478
ma_N_479
ma_N_48
ma_N_480
ma_N_481
ma_N_482
ma_N_483
ma_N_484
ma_N_485
ma_N_488
ma_N_489
ma_N_49
ma_N_492
ma_N_493
ma_N_494
ma_N_495
ma_N_496
ma_N_497
1e−20
1e−10
0.001
0.1
0.1+

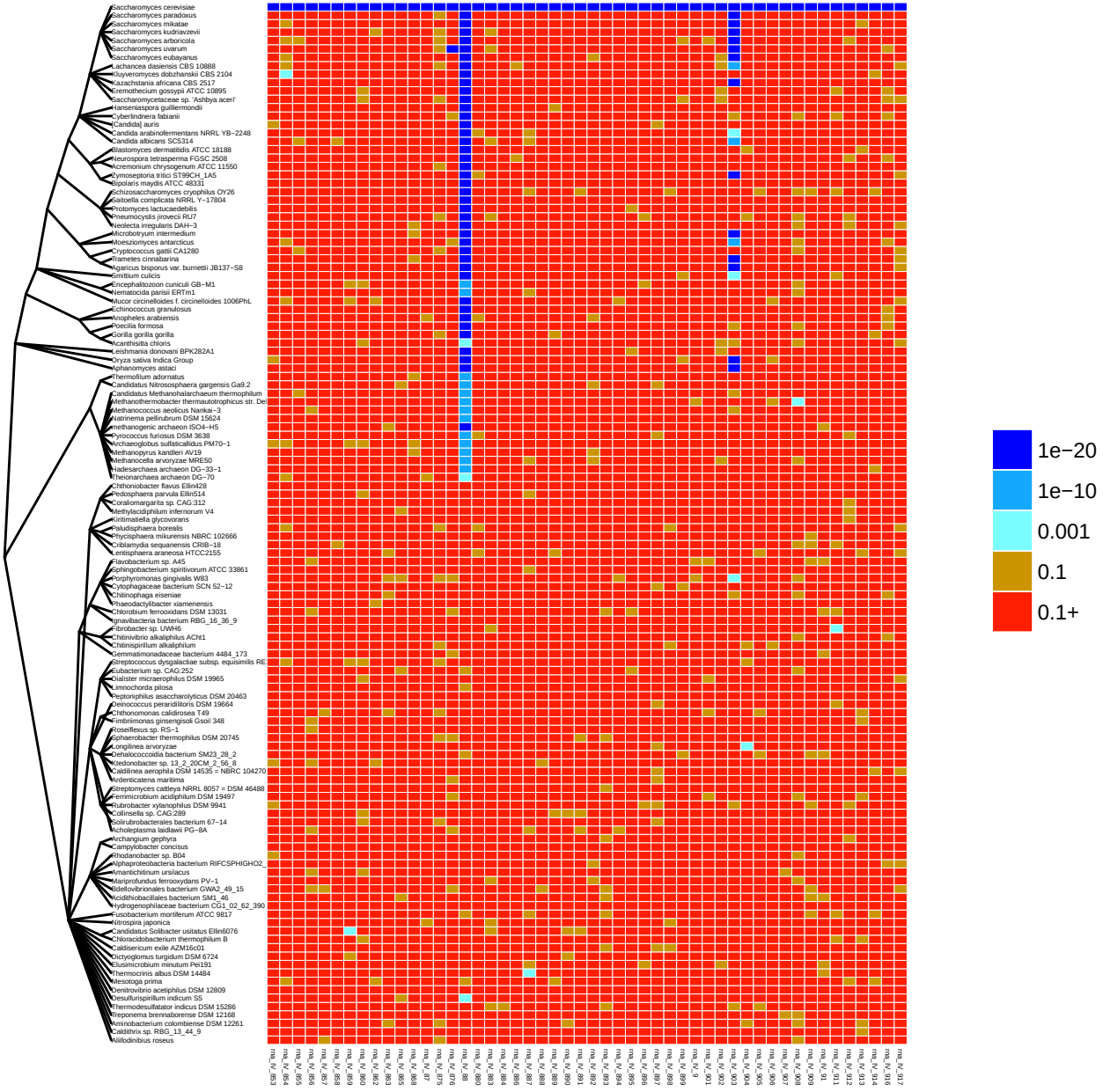

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_V_499
mu_V_50
mu_V_501
mu_V_502
mu_V_503
mu_V_505
mu_V_506
mu_V_507
mu_V_508
mu_V_509
mu_V_51
mu_V_510
mu_V_511
mu_V_512
mu_V_513
mu_V_514
mu_V_515
mu_V_516
mu_V_517
mu_V_518
mu_V_519
mu_V_52
mu_V_520
mu_V_521
mu_V_522
mu_V_523
mu_V_524
mu_V_526
mu_V_527
mu_V_528
mu_V_529
mu_V_53
mu_V_531
mu_V_532
mu_V_533
mu_V_536
mu_V_537
mu_V_538
mu_V_539
mu_V_54
mu_V_540
mu_V_543
mu_V_544
mu_V_547
mu_V_549
mu_V_55
mu_V_550
mu_V_551
mu_V_557
mu_V_559
1e−20
1e−10
0.001
0.1

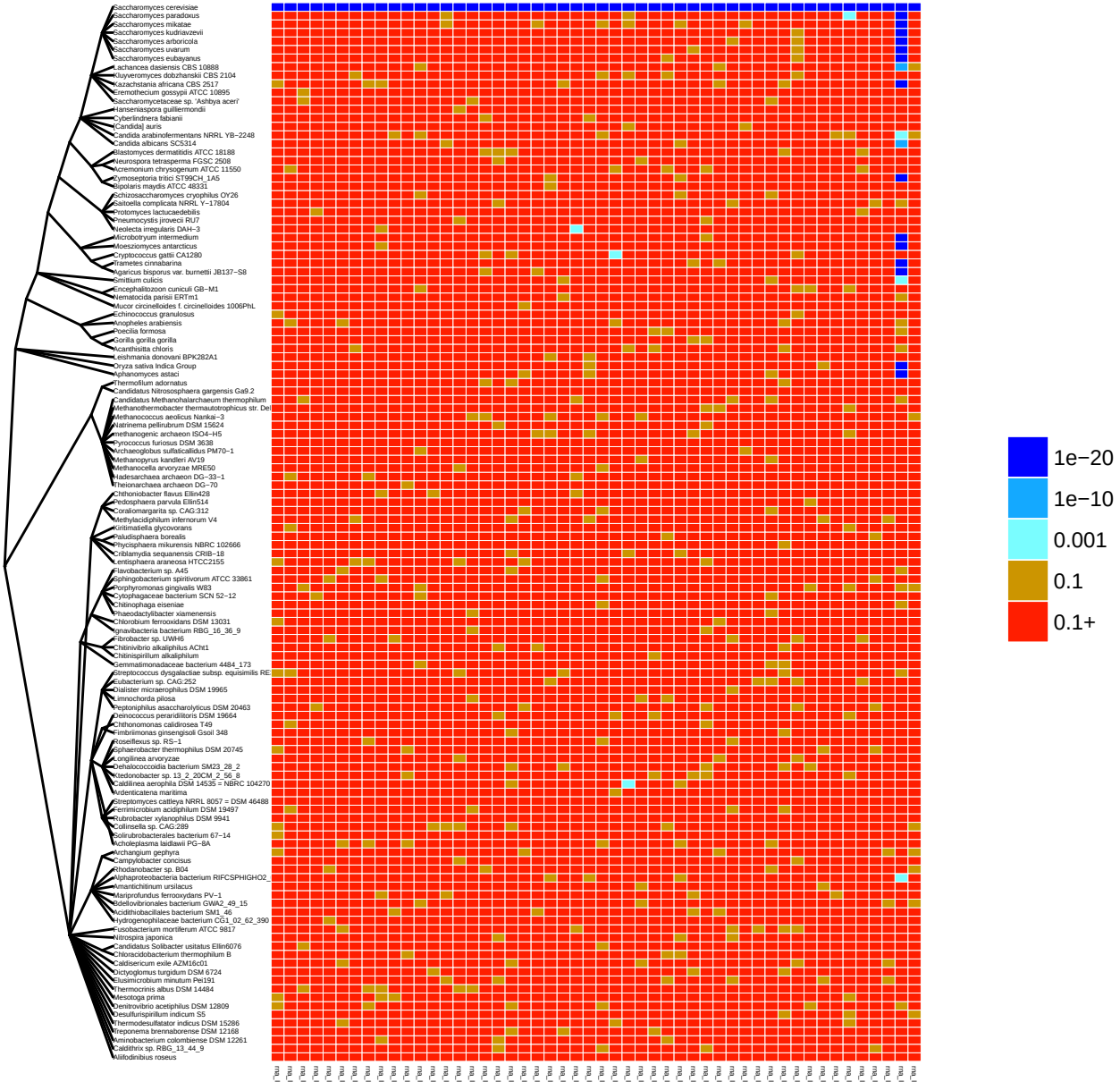

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_N_56
ma_N_560
ma_N_562
ma_N_563
ma_N_564
ma_N_566
ma_N_567
ma_N_568
ma_N_569
ma_N_571
ma_N_576
ma_N_578
ma_N_58
ma_N_581
ma_N_582
ma_N_585
ma_N_587
ma_N_588
ma_N_589
ma_N_59
ma_N_590
ma_N_592
ma_N_593
ma_N_594
ma_N_595
ma_N_596
ma_N_598
ma_N_6
ma_N_60
ma_N_600
ma_N_601
ma_N_602
ma_N_603
ma_N_604
ma_N_609
ma_N_61
ma_N_610
ma_N_611
ma_N_612
ma_N_613
ma_N_614
ma_N_615
ma_N_616
ma_N_617
ma_N_618
ma_N_619
ma_N_621
ma_N_623
ma_N_624
ma_N_625
1e−20
1e−10
0.001
0.1
0.1+

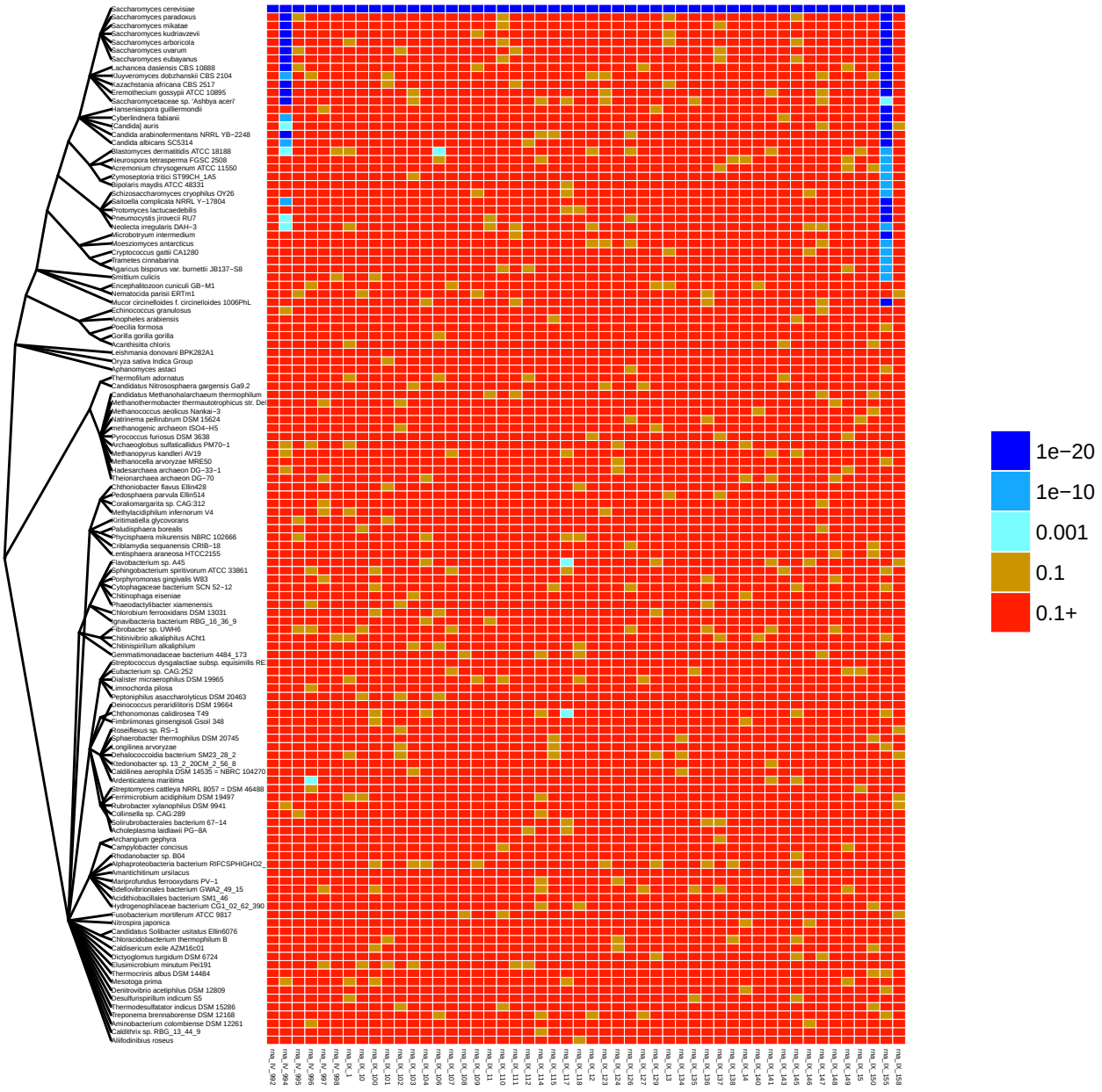

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella oryzvae MRE50
Hadesarchaea archaeon DG−33−1
Thaionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomarganta sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is53
Nitrosomonas sp. Is52
Nitrosomonas sp. Is51
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
1e−20
1e−10
0.001
0.1
0.1+

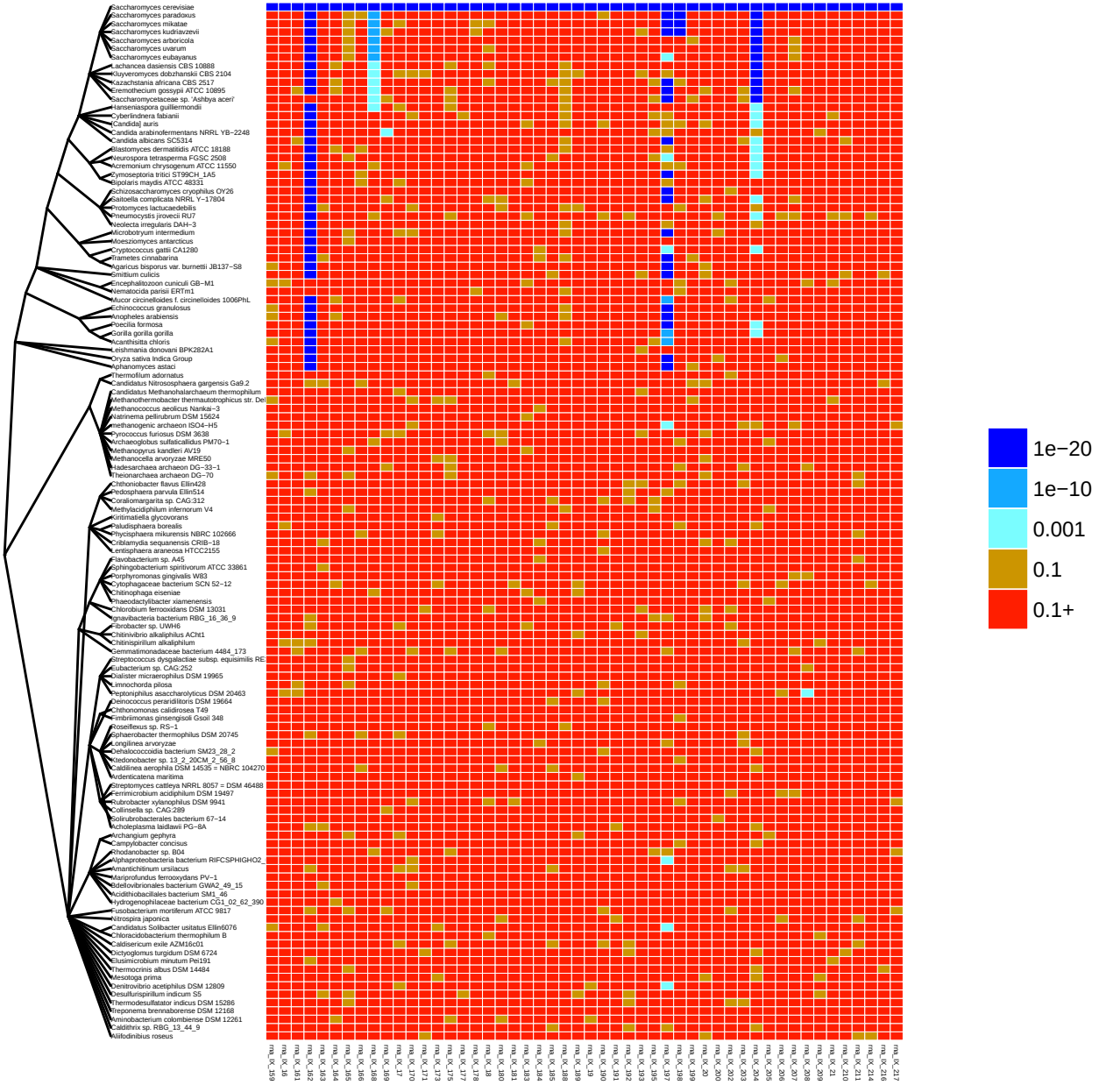

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_N_693
ma_N_696
ma_N_697
ma_N_698
ma_N_699
ma_N_7
ma_N_701
ma_N_702
ma_N_704
ma_N_705
ma_N_706
ma_N_708
ma_N_709
ma_N_71
ma_N_712
ma_N_715
ma_N_72
ma_N_721
ma_N_723
ma_N_725
ma_N_728
ma_N_729
ma_N_73
ma_N_730
ma_N_731
ma_N_732
ma_N_733
ma_N_736
ma_N_738
ma_N_74
ma_N_740
ma_N_743
ma_N_745
ma_N_746
ma_N_747
ma_N_750
ma_N_751
ma_N_755
ma_N_756
ma_N_758
ma_N_76
ma_N_760
ma_N_761
ma_N_762
ma_N_766
ma_N_768
ma_N_77
ma_N_770
ma_N_773
ma_N_774
1e−20
1e−10
0.001
0.1
0.1+

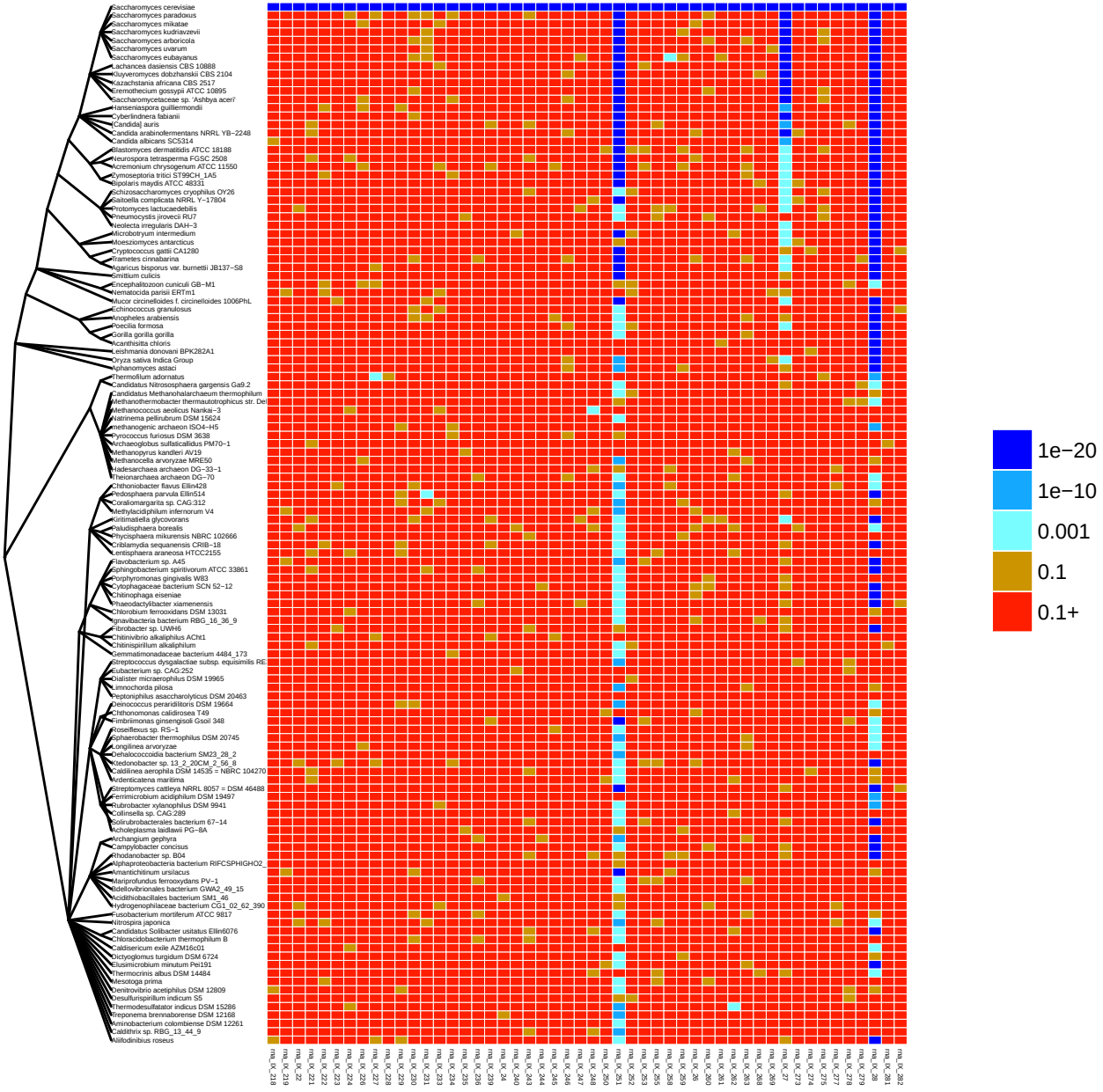

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_N_775
ma_N_777
ma_N_779
ma_N_78
ma_N_780
ma_N_785
ma_N_79
ma_N_791
ma_N_793
ma_N_794
ma_N_795
ma_N_796
ma_N_797
ma_N_8
ma_N_80
ma_N_801
ma_N_803
ma_N_804
ma_N_805
ma_N_806
ma_N_807
ma_N_808
ma_N_809
ma_N_810
ma_N_811
ma_N_812
ma_N_813
ma_N_815
ma_N_817
ma_N_82
ma_N_821
ma_N_822
ma_N_823
ma_N_824
ma_N_825
ma_N_827
ma_N_828
ma_N_829
ma_N_83
ma_N_830
ma_N_834
ma_N_84
ma_N_840
ma_N_841
ma_N_845
ma_N_846
ma_N_848
ma_N_85
ma_N_850
ma_N_852
1e−20
1e−10
0.001
0.1
0.1+

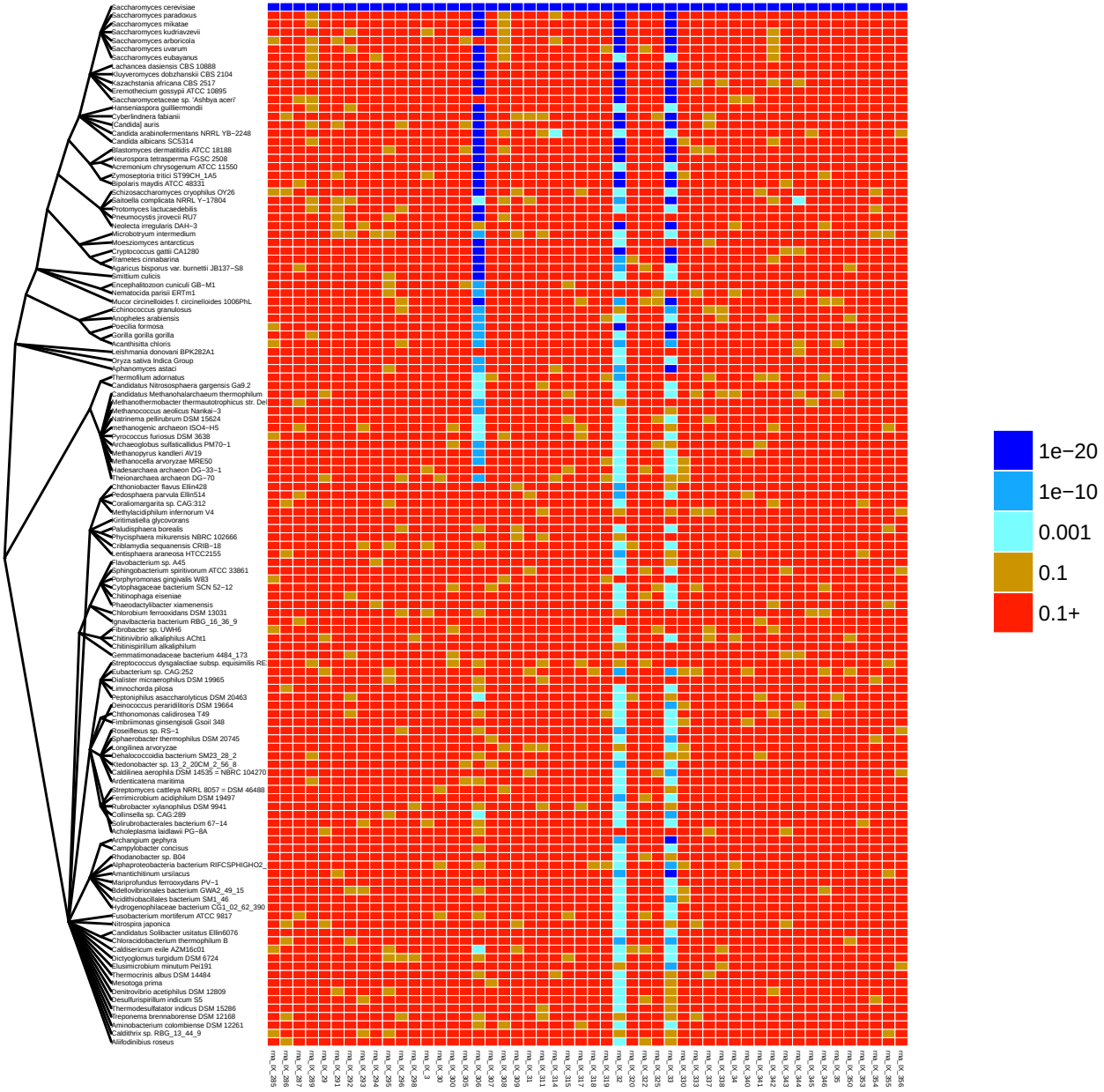

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Cuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
ma_N_863
ma_N_864
ma_N_865
ma_N_866
ma_N_867
ma_N_868
ma_N_869
ma_N_860
ma_N_862
ma_N_863
ma_N_865
ma_N_868
ma_N_87
ma_N_875
ma_N_876
ma_N_88
ma_N_880
ma_N_883
ma_N_884
ma_N_886
ma_N_887
ma_N_888
ma_N_889
ma_N_890
ma_N_891
ma_N_892
ma_N_893
ma_N_894
ma_N_895
ma_N_896
ma_N_897
ma_N_898
ma_N_899
ma_N_9
ma_N_901
ma_N_902
ma_N_903
ma_N_904
ma_N_905
ma_N_906
ma_N_907
ma_N_908
ma_N_909
ma_N_91
ma_N_911
ma_N_912
ma_N_913
ma_N_914
ma_N_916
ma_N_917
1e−20
1e−10
0.001
0.1
0.1+

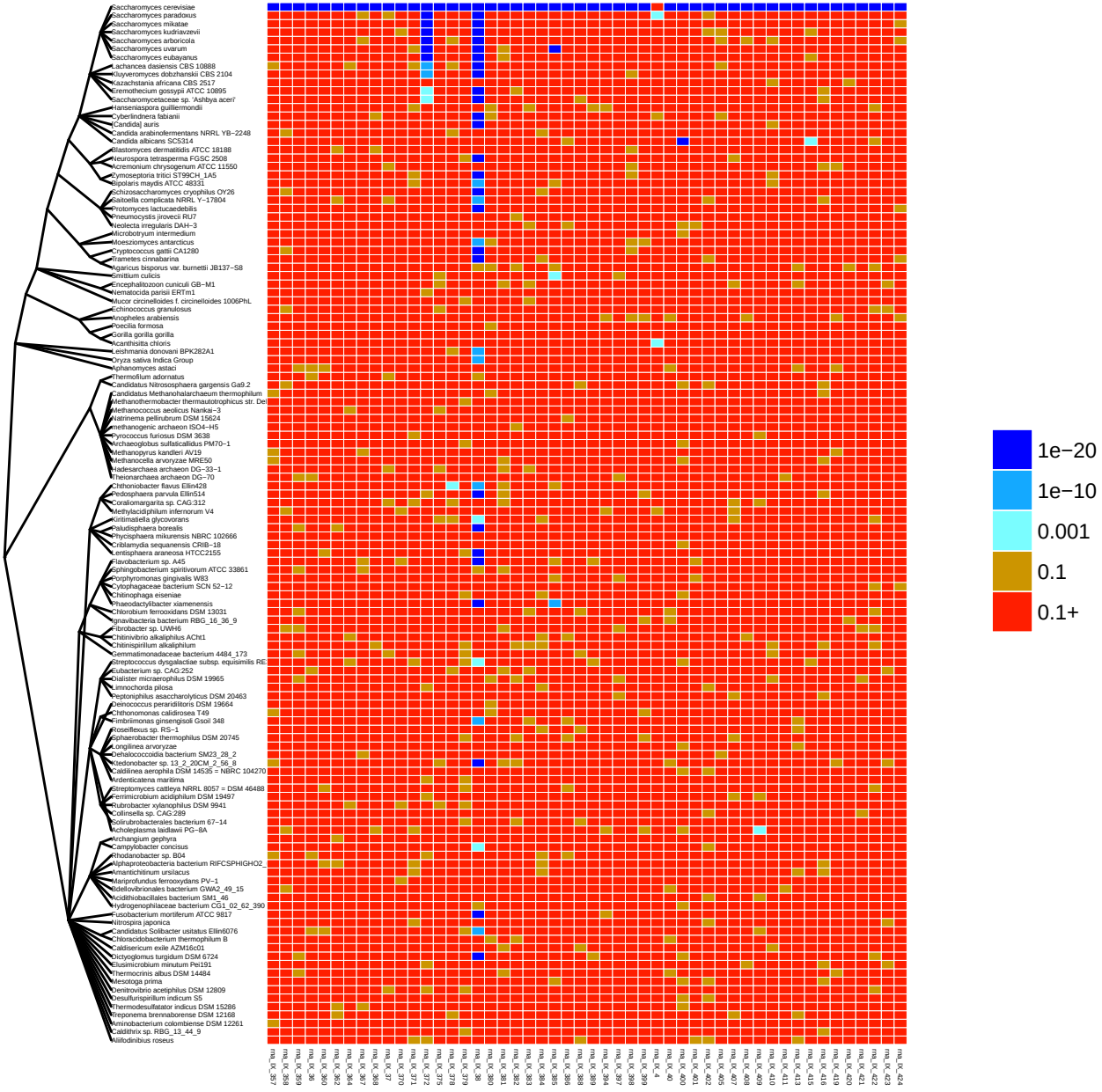

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_N_925
ma_N_926
ma_N_927
ma_N_929
ma_N_930
ma_N_931
ma_N_934
ma_N_935
ma_N_936
ma_N_937
ma_N_938
ma_N_939
ma_N_943
ma_N_946
ma_N_947
ma_N_948
ma_N_949
ma_N_95
ma_N_950
ma_N_951
ma_N_952
ma_N_954
ma_N_955
ma_N_957
ma_N_958
ma_N_96
ma_N_960
ma_N_961
ma_N_964
ma_N_965
ma_N_968
ma_N_969
ma_N_97
ma_N_970
ma_N_971
ma_N_972
ma_N_973
ma_N_974
ma_N_976
ma_N_977
ma_N_978
ma_N_979
ma_N_980
ma_N_981
ma_N_982
ma_N_984
ma_N_986
ma_N_987
ma_N_988
ma_N_989
ma_N_990
ma_N_991
1e−20
1e−10
0.001
0.1
0.1+

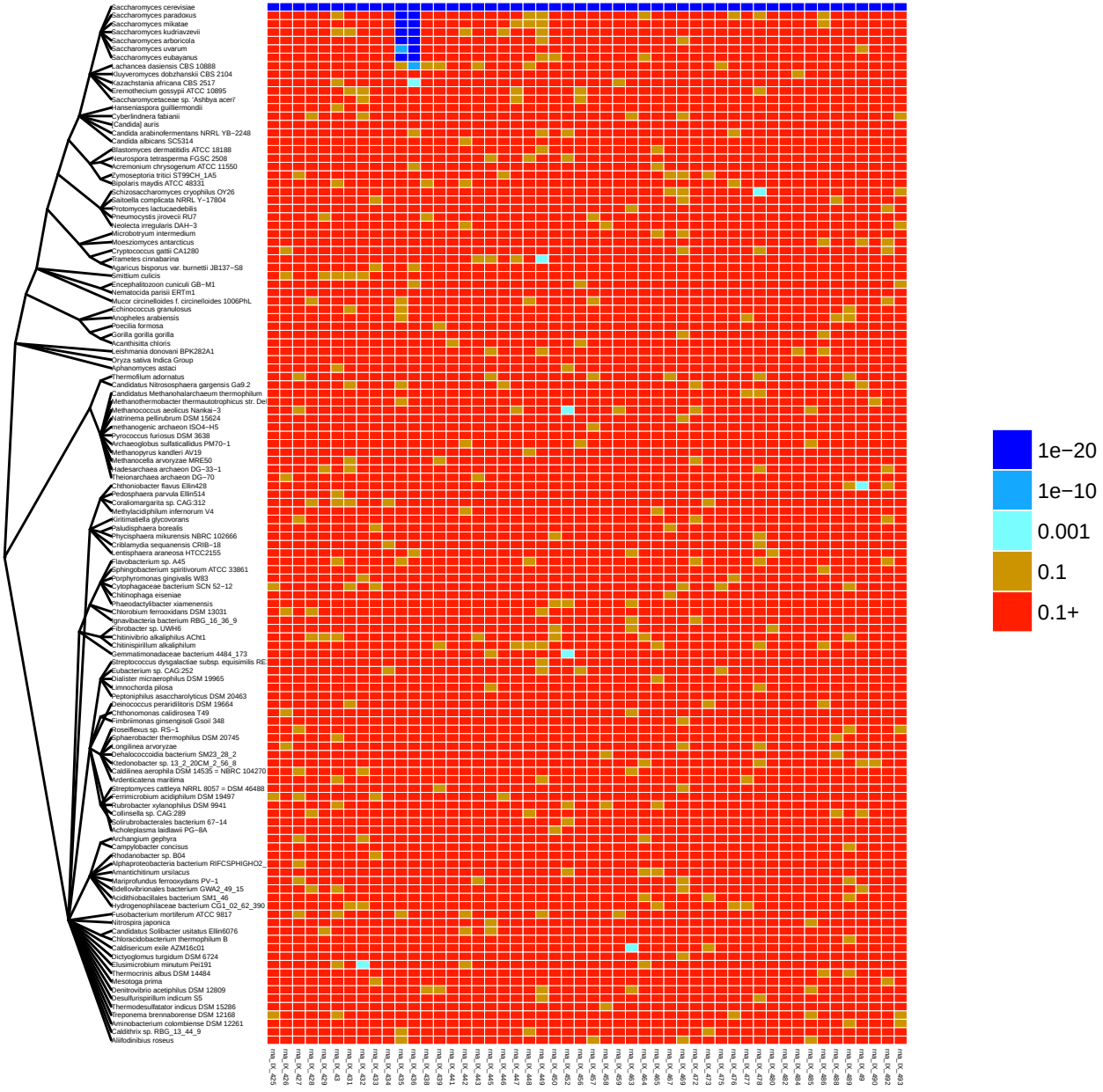

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Biopolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_IV_992
ma_IV_994
ma_IV_995
ma_IV_996
ma_IV_997
ma_IV_998
ma_IX_1
ma_IX_10
ma_IX_100
ma_IX_101
ma_IX_102
ma_IX_103
ma_IX_104
ma_IX_106
ma_IX_107
ma_IX_108
ma_IX_109
ma_IX_11
ma_IX_110
ma_IX_111
ma_IX_112
ma_IX_114
ma_IX_115
ma_IX_117
ma_IX_118
ma_IX_12
ma_IX_123
ma_IX_124
ma_IX_126
ma_IX_127
ma_IX_129
ma_IX_13
ma_IX_134
ma_IX_135
ma_IX_136
ma_IX_137
ma_IX_138
ma_IX_14
ma_IX_140
ma_IX_141
ma_IX_143
ma_IX_145
ma_IX_146
ma_IX_147
ma_IX_148
ma_IX_149
ma_IX_15
ma_IX_150
ma_IX_155
ma_IX_158
1e−20
1e−10
0.001
0.1
0.1+

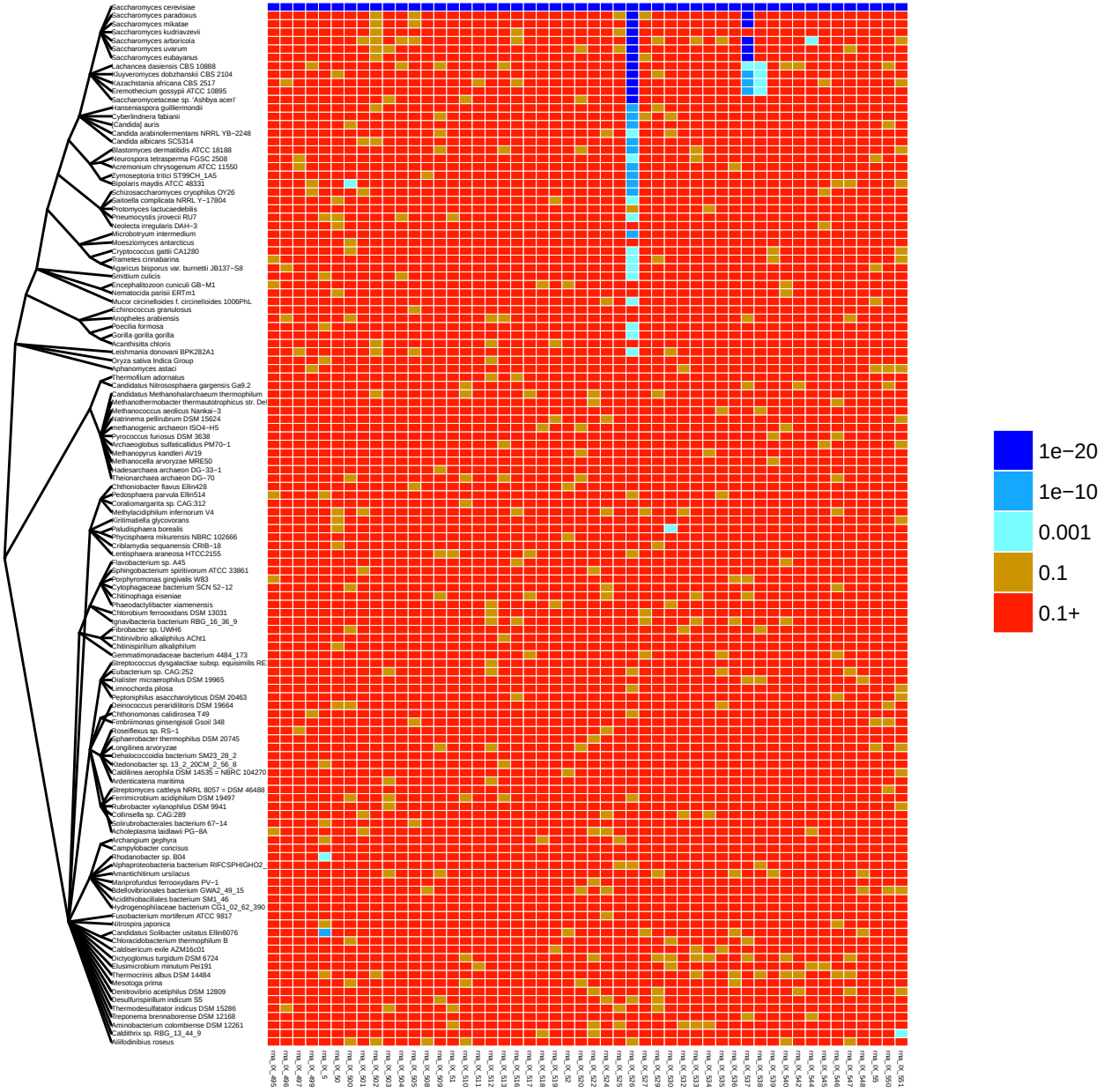

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
rna_K_159
rna_K_16
rna_K_161
rna_K_162
rna_K_163
rna_K_164
rna_K_165
rna_K_166
rna_K_168
rna_K_169
rna_K_17
rna_K_170
rna_K_171
rna_K_173
rna_K_175
rna_K_177
rna_K_178
rna_K_18
rna_K_180
rna_K_181
rna_K_183
rna_K_184
rna_K_185
rna_K_188
rna_K_189
rna_K_19
rna_K_190
rna_K_191
rna_K_192
rna_K_193
rna_K_195
rna_K_197
rna_K_198
rna_K_199
rna_K_20
rna_K_200
rna_K_202
rna_K_203
rna_K_204
rna_K_205
rna_K_206
rna_K_207
rna_K_208
rna_K_209
rna_K_21
rna_K_210
rna_K_211
rna_K_214
rna_K_216
rna_K_217
1e−20
1e−10
0.001
0.1
0.1+

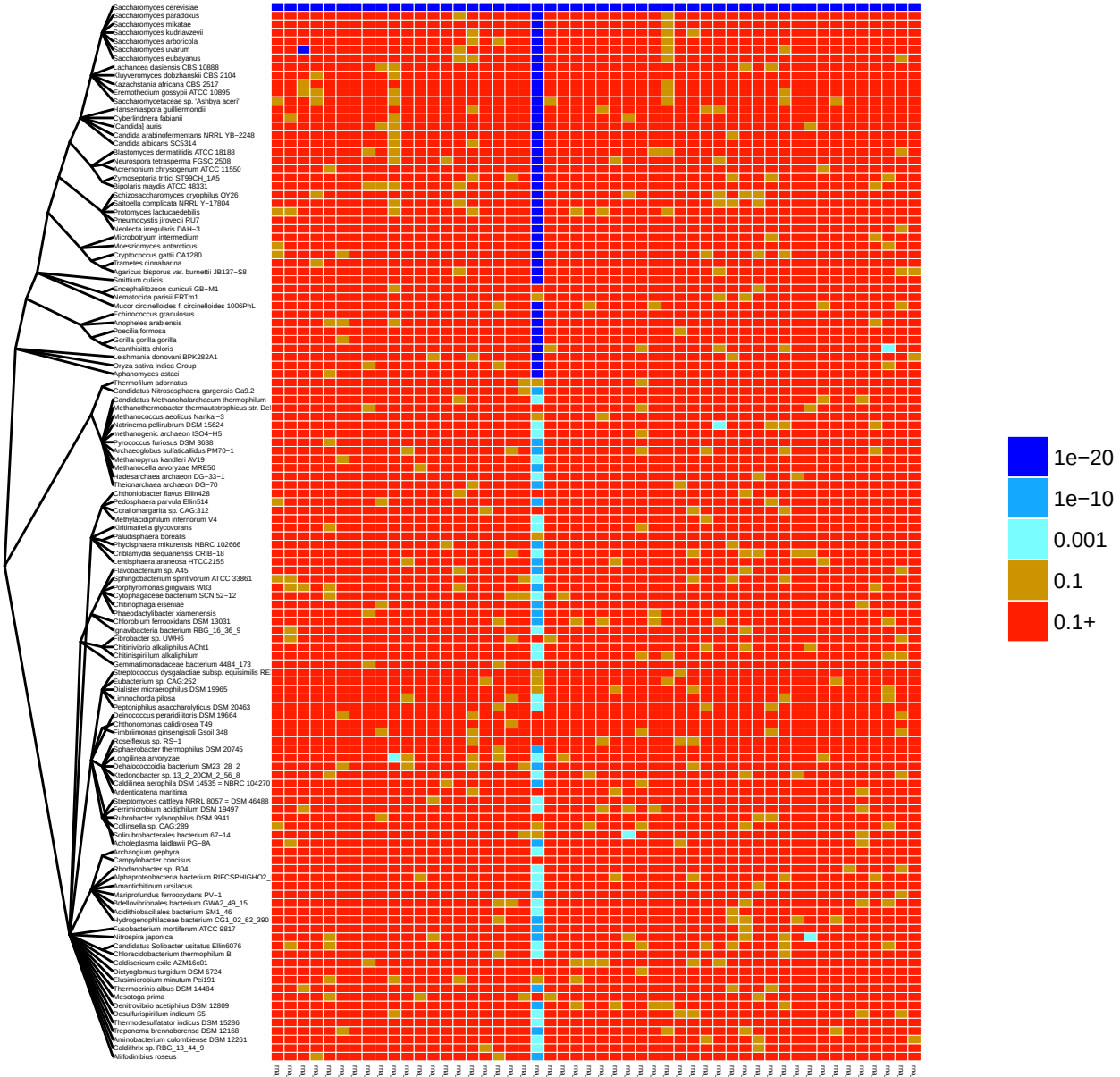

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_IX_218
mu_IX_219
mu_IX_22
mu_IX_221
mu_IX_222
mu_IX_223
mu_IX_224
mu_IX_226
mu_IX_227
mu_IX_228
mu_IX_229
mu_IX_230
mu_IX_231
mu_IX_233
mu_IX_234
mu_IX_235
mu_IX_236
mu_IX_239
mu_IX_24
mu_IX_240
mu_IX_243
mu_IX_244
mu_IX_245
mu_IX_246
mu_IX_247
mu_IX_248
mu_IX_250
mu_IX_251
mu_IX_252
mu_IX_253
mu_IX_255
mu_IX_258
mu_IX_259
mu_IX_26
mu_IX_260
mu_IX_261
mu_IX_262
mu_IX_263
mu_IX_268
mu_IX_269
mu_IX_27
mu_IX_273
mu_IX_274
mu_IX_275
mu_IX_277
mu_IX_278
mu_IX_279
mu_IX_28
mu_IX_281
mu_IX_282
1e−20
1e−10
0.001
0.1
0.1+

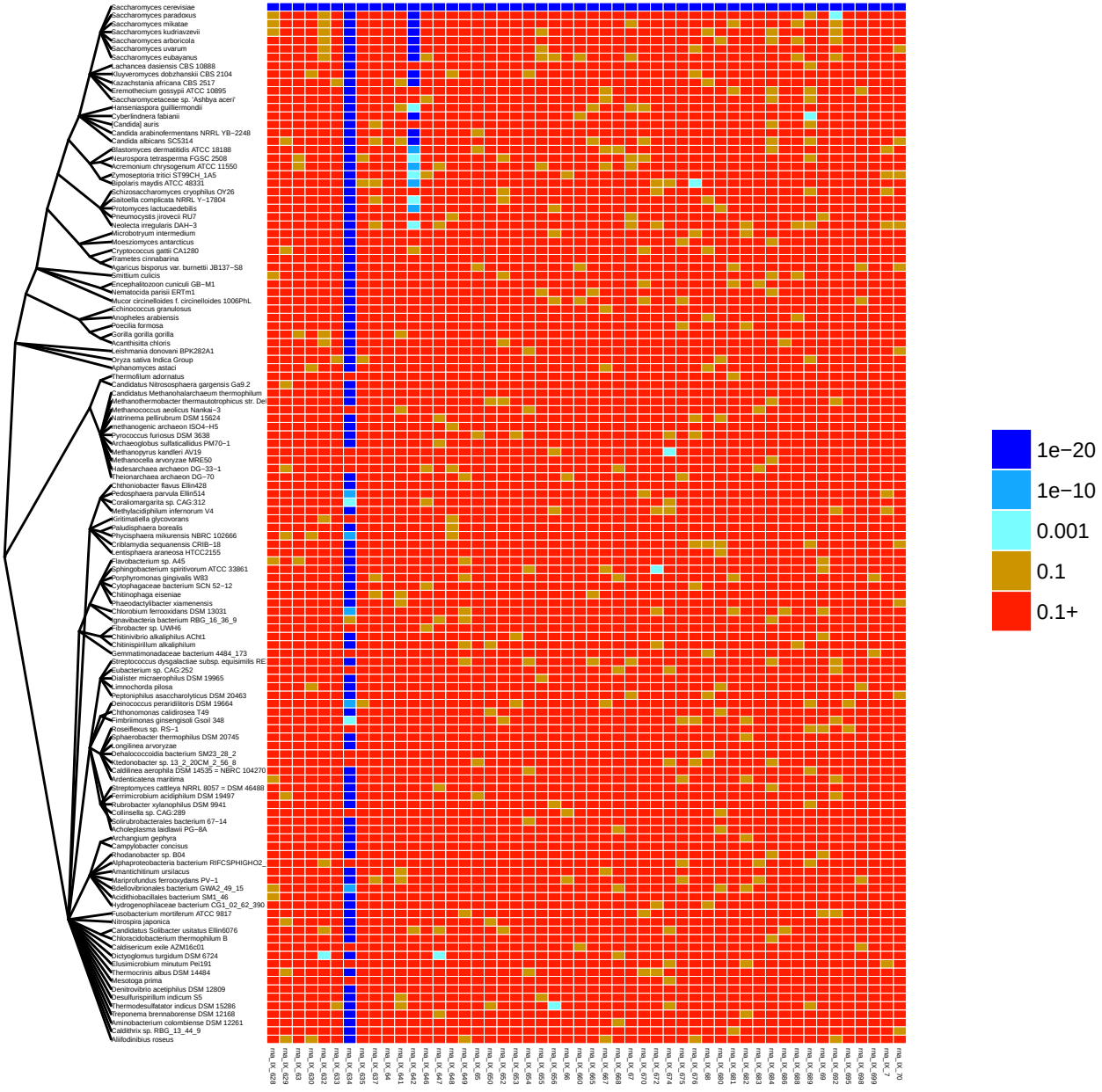

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_IX_285
ma_IX_286
ma_IX_287
ma_IX_289
ma_IX_29
ma_IX_291
ma_IX_292
ma_IX_293
ma_IX_294
ma_IX_295
ma_IX_296
ma_IX_298
ma_IX_3
ma_IX_30
ma_IX_300
ma_IX_305
ma_IX_306
ma_IX_307
ma_IX_308
ma_IX_309
ma_IX_31
ma_IX_311
ma_IX_314
ma_IX_315
ma_IX_317
ma_IX_318
ma_IX_319
ma_IX_32
ma_IX_320
ma_IX_322
ma_IX_325
ma_IX_33
ma_IX_330
ma_IX_333
ma_IX_337
ma_IX_338
ma_IX_34
ma_IX_340
ma_IX_341
ma_IX_342
ma_IX_343
ma_IX_344
ma_IX_345
ma_IX_346
ma_IX_35
ma_IX_350
ma_IX_353
ma_IX_354
ma_IX_355
ma_IX_356
1e−20
1e−10
0.001
0.1
0.1+

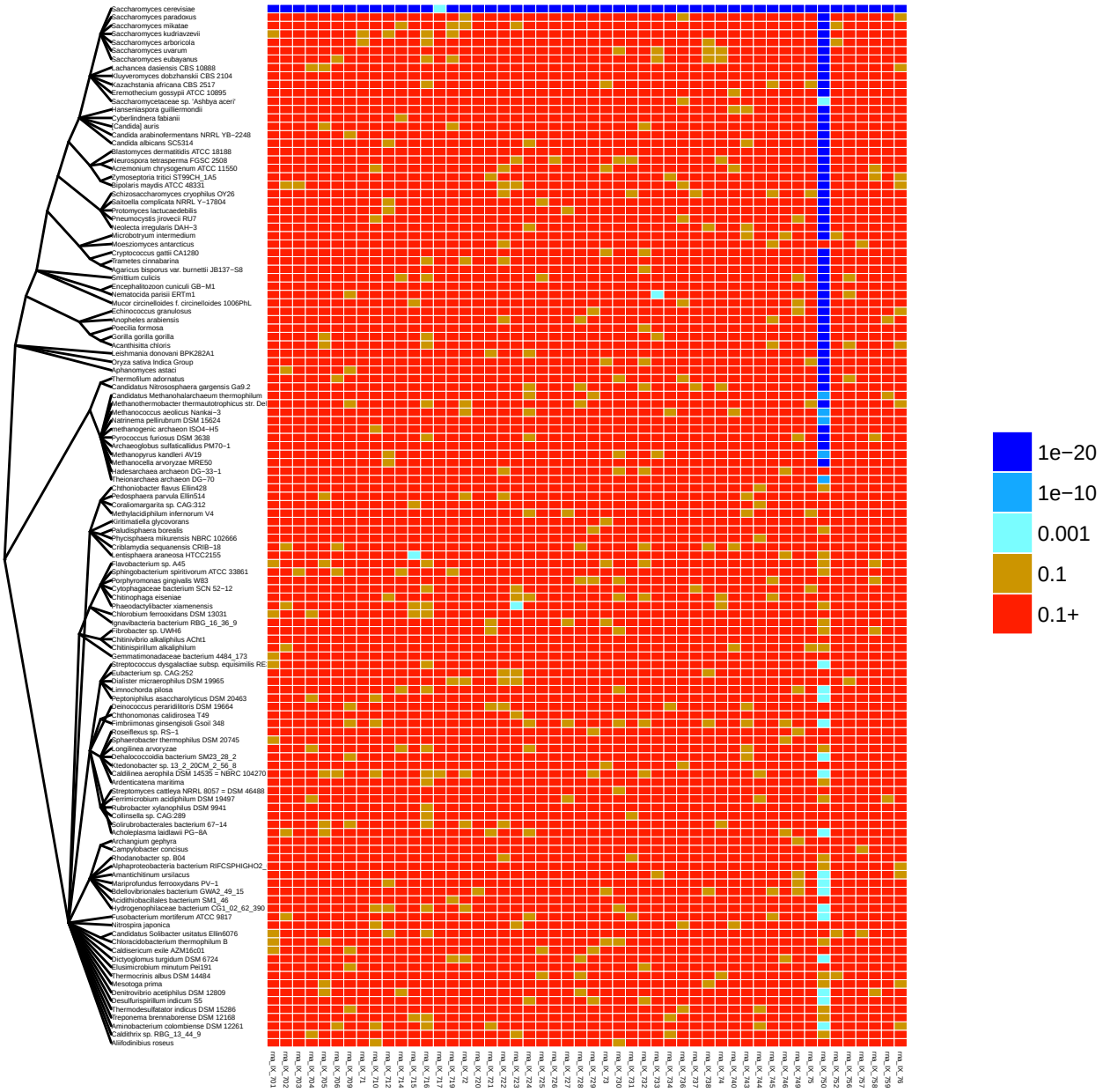

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter versatilis Ellin345
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is76
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is53
Nitrosomonas sp. Is52
Nitrosomonas sp. Is51
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
Nitrosomonas sp. Is36
Nitrosomonas sp. Is35
Nitrosomonas sp. Is34
Nitrosomonas sp. Is33
Nitrosomonas sp. Is32
Nitrosomonas sp. Is31
Nitrosomonas sp. Is30
Nitrosomonas sp. Is29
Nitrosomonas sp. Is28
Nitrosomonas sp. Is27
Nitrosomonas sp. Is26
Nitrosomonas sp. Is25
Nitrosomonas sp. Is24
Nitrosomonas sp. Is23
Nitrosomonas sp. Is22
Nitrosomonas sp. Is21
Nitrosomonas sp. Is20
Nitrosomonas sp. Is19
Nitrosomonas sp. Is18
Nitrosomonas sp. Is17
Nitrosomonas sp. Is16
Nitrosomonas sp. Is15
Nitrosomonas sp. Is14
Nitrosomonas sp. Is13
Nitrosomonas sp. Is12
Nitrosomonas sp. Is11
Nitrosomonas sp. Is10
Nitrosomonas sp. Is9
Nitrosomonas sp. Is8
Nitrosomonas sp. Is7
Nitrosomonas sp. Is6
Nitrosomonas sp. Is5
Nitrosomonas sp. Is4
Nitrosomonas sp. Is3
Nitrosomonas sp. Is2
Nitrosomonas sp. Is1
1e−20
1e−10
0.001
0.1
0.1+

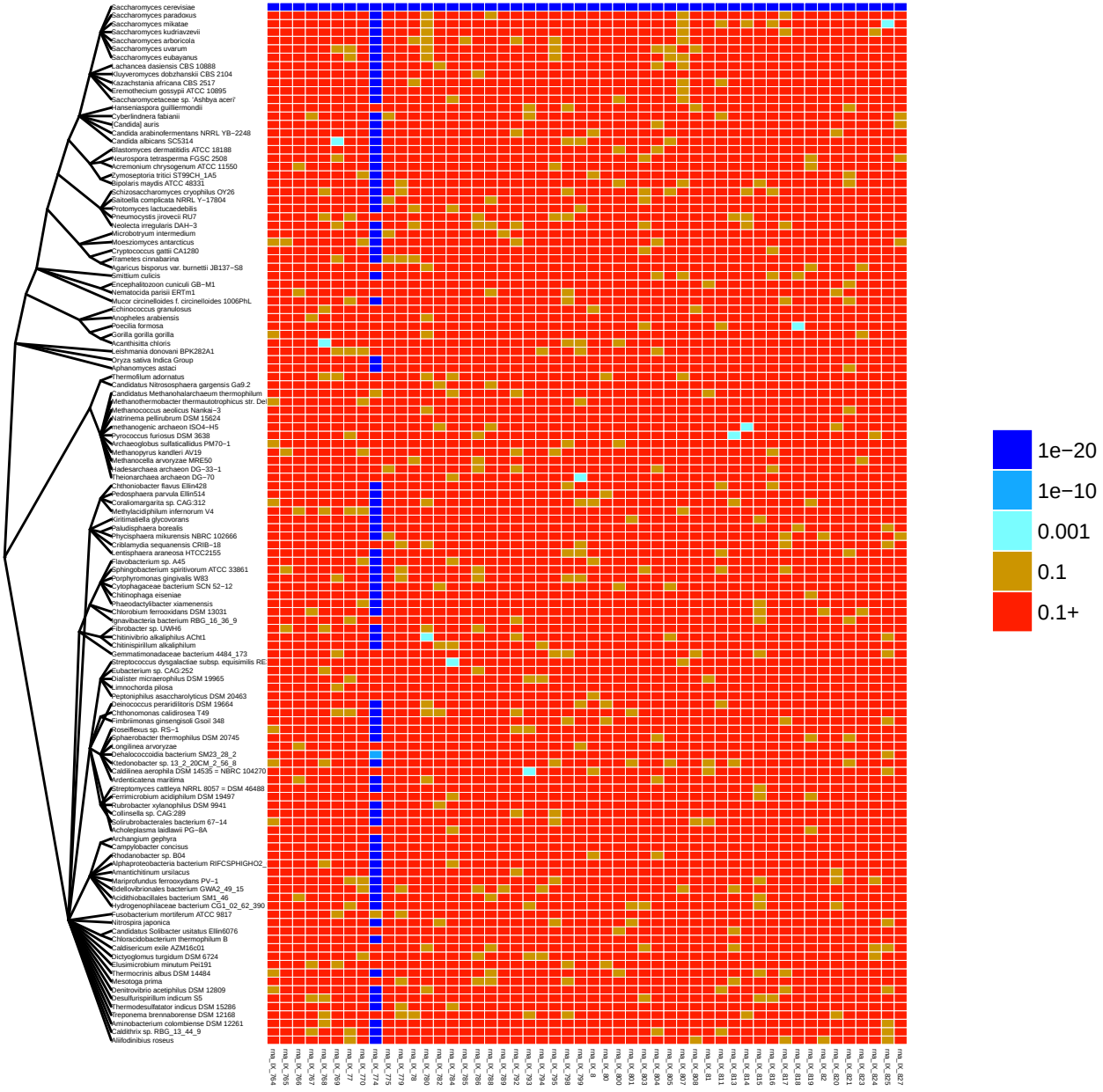

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_K_425
ma_K_426
ma_K_427
ma_K_428
ma_K_429
ma_K_43
ma_K_431
ma_K_432
ma_K_433
ma_K_434
ma_K_435
ma_K_436
ma_K_438
ma_K_439
ma_K_441
ma_K_442
ma_K_443
ma_K_445
ma_K_446
ma_K_447
ma_K_448
ma_K_449
ma_K_450
ma_K_452
ma_K_456
ma_K_457
ma_K_458
ma_K_459
ma_K_463
ma_K_464
ma_K_465
ma_K_467
ma_K_469
ma_K_472
ma_K_473
ma_K_475
ma_K_476
ma_K_477
ma_K_478
ma_K_479
ma_K_480
ma_K_482
ma_K_484
ma_K_485
ma_K_486
ma_K_488
ma_K_489
ma_K_49
ma_K_490
ma_K_492
ma_K_493
1e−20
1e−10
0.001
0.1
0.1+

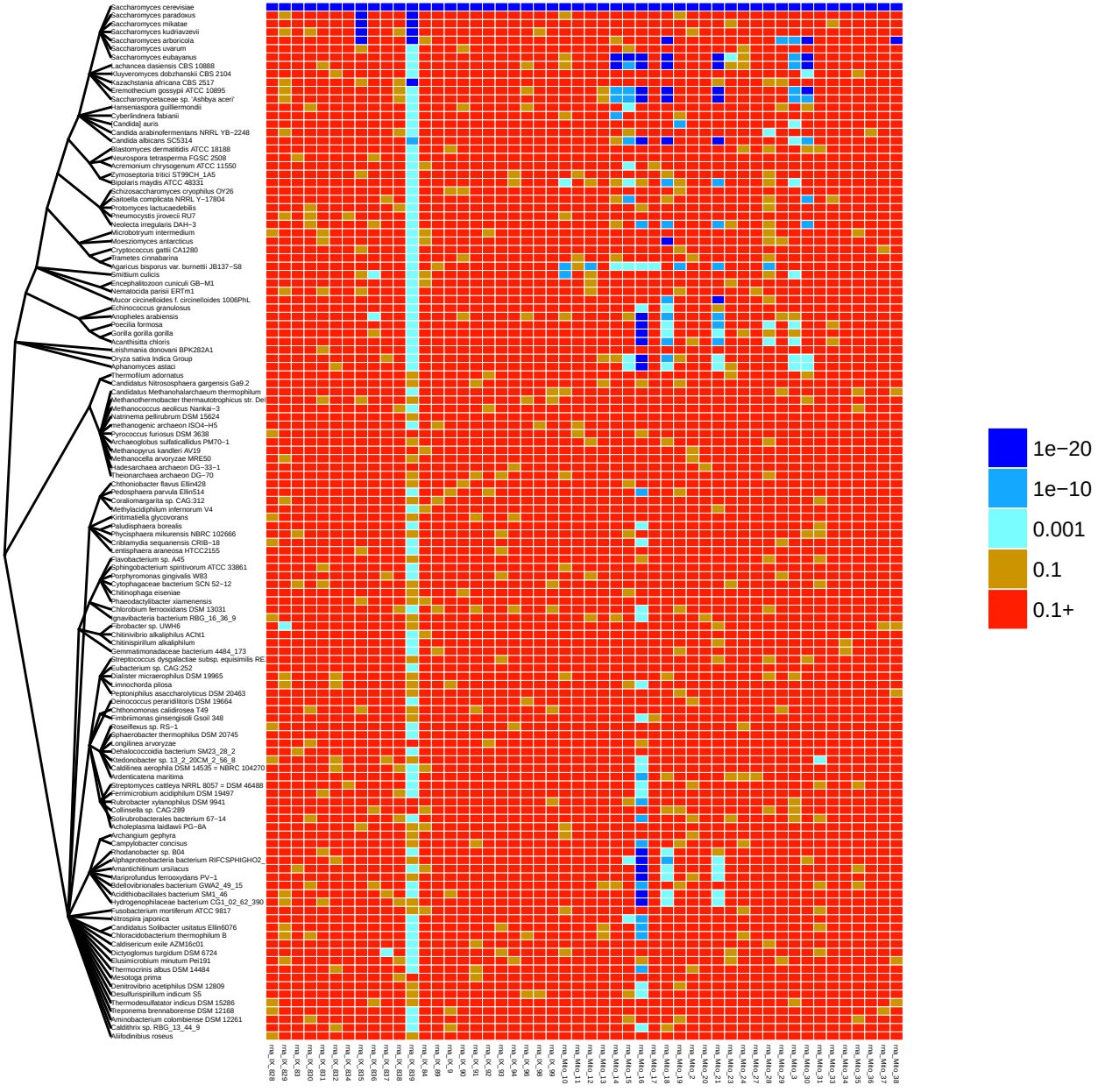

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinitibius roseus
ma_IX_495
ma_IX_496
ma_IX_497
ma_IX_499
ma_IX_5
ma_IX_50
ma_IX_500
ma_IX_501
ma_IX_502
ma_IX_503
ma_IX_504
ma_IX_505
ma_IX_508
ma_IX_509
ma_IX_51
ma_IX_510
ma_IX_511
ma_IX_512
ma_IX_513
ma_IX_516
ma_IX_517
ma_IX_518
ma_IX_519
ma_IX_52
ma_IX_520
ma_IX_522
ma_IX_524
ma_IX_525
ma_IX_526
ma_IX_527
ma_IX_529
ma_IX_530
ma_IX_532
ma_IX_533
ma_IX_534
ma_IX_535
ma_IX_536
ma_IX_537
ma_IX_538
ma_IX_539
ma_IX_540
ma_IX_542
ma_IX_544
ma_IX_545
ma_IX_546
ma_IX_547
ma_IX_548
ma_IX_55
ma_IX_550
ma_IX_551
1e−20
1e−10
0.001
0.1
0.1+

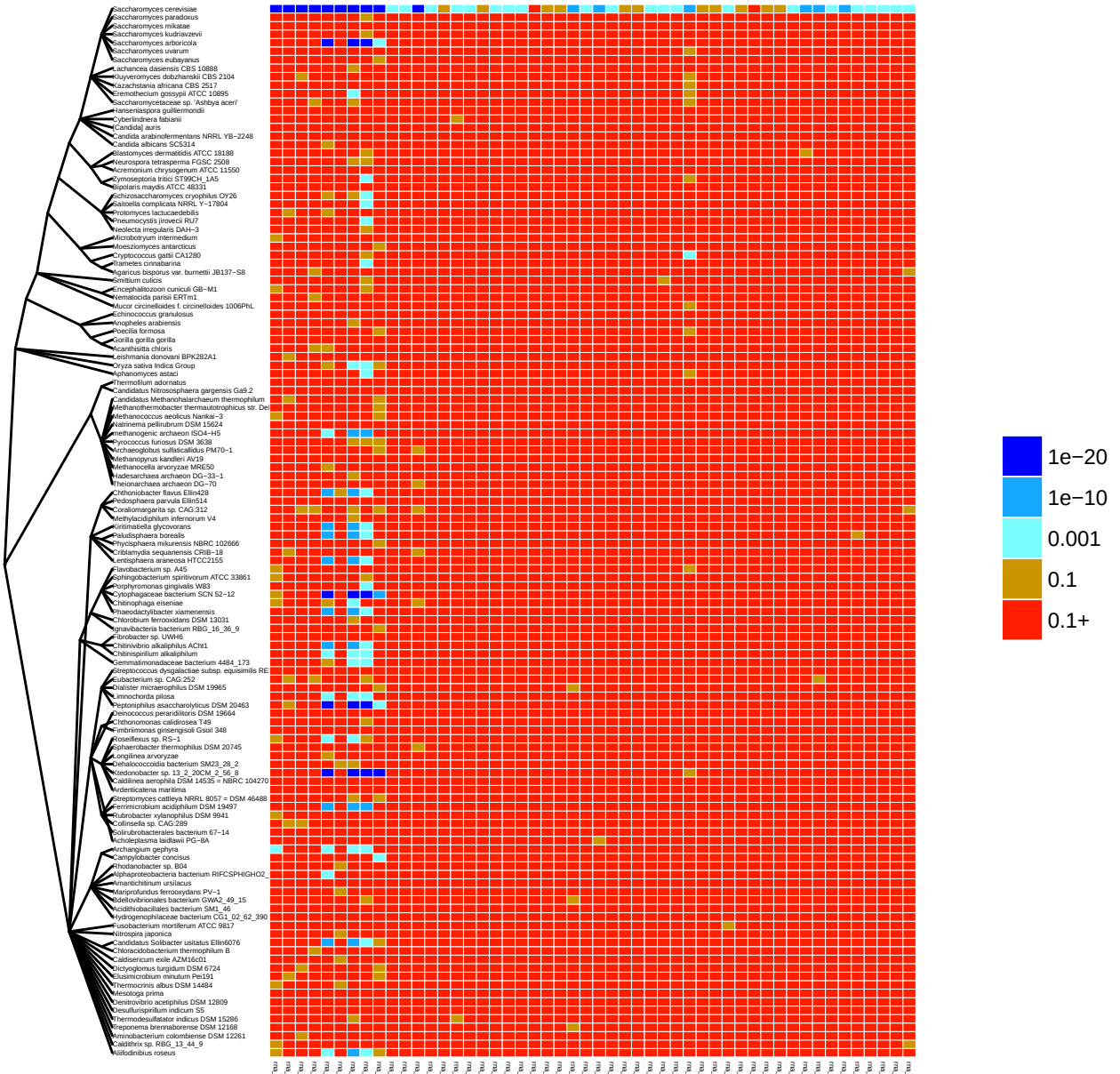

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_K_552
mu_K_558
mu_K_557
mu_K_56
mu_K_563
mu_K_565
mu_K_566
mu_K_568
mu_K_569
mu_K_570
mu_K_575
mu_K_576
mu_K_577
mu_K_578
mu_K_580
mu_K_581
mu_K_582
mu_K_584
mu_K_585
mu_K_586
mu_K_588
mu_K_59
mu_K_590
mu_K_591
mu_K_592
mu_K_593
mu_K_594
mu_K_595
mu_K_596
mu_K_598
mu_K_599
mu_K_6
mu_K_60
mu_K_602
mu_K_603
mu_K_604
mu_K_606
mu_K_608
mu_K_609
mu_K_61
mu_K_610
mu_K_611
mu_K_612
mu_K_613
mu_K_614
mu_K_616
mu_K_617
mu_K_618
mu_K_62
mu_K_621
1e−20
1e−10
0.001
0.1
0.1+

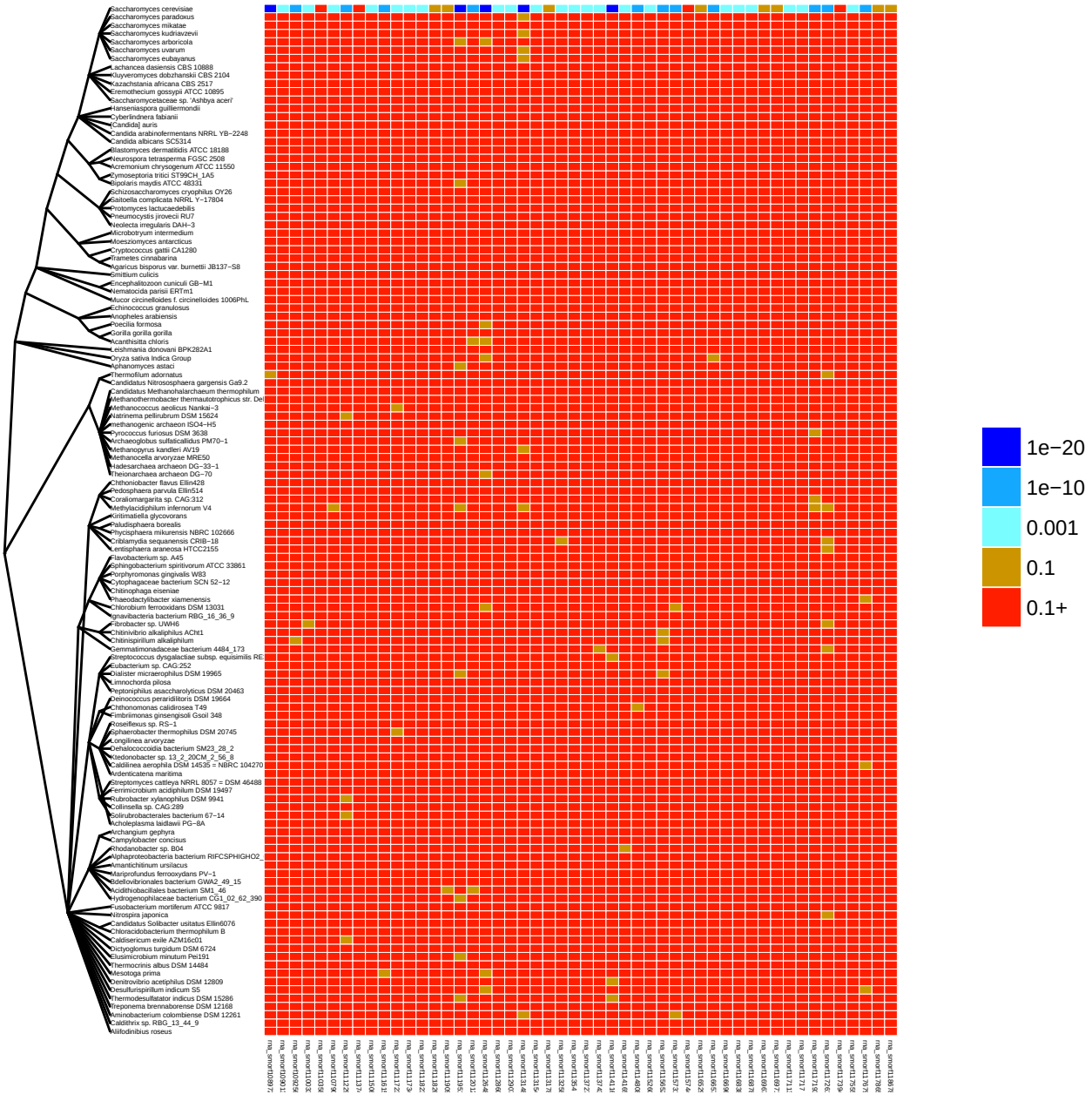

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

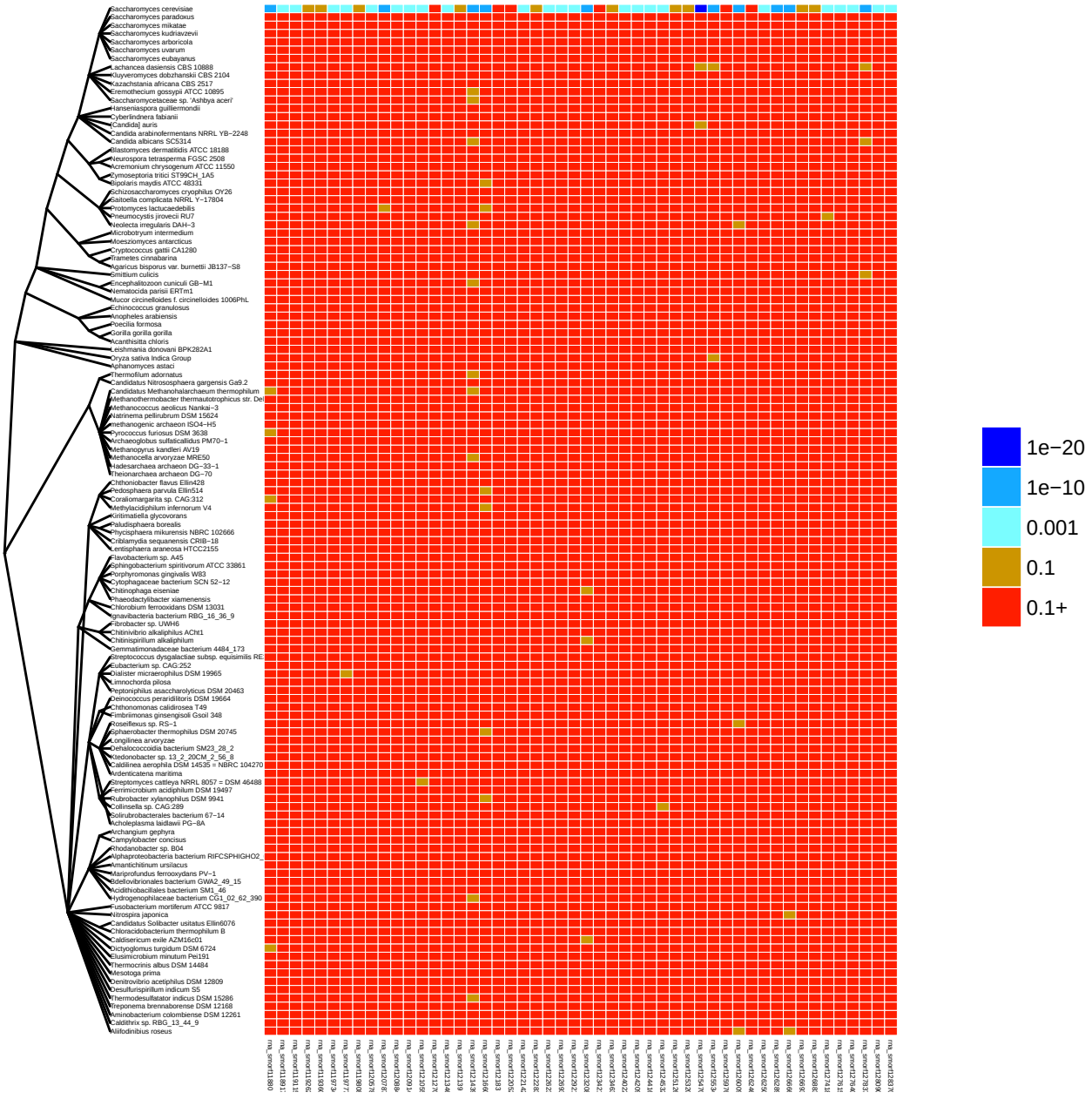

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
rna_IX_701
rna_IX_702
rna_IX_703
rna_IX_704
rna_IX_705
rna_IX_706
rna_IX_709
rna_IX_71
rna_IX_710
rna_IX_712
rna_IX_714
rna_IX_715
rna_IX_716
rna_IX_717
rna_IX_719
rna_IX_72
rna_IX_720
rna_IX_721
rna_IX_722
rna_IX_723
rna_IX_724
rna_IX_725
rna_IX_726
rna_IX_727
rna_IX_728
rna_IX_729
rna_IX_73
rna_IX_730
rna_IX_731
rna_IX_732
rna_IX_733
rna_IX_734
rna_IX_736
rna_IX_737
rna_IX_738
rna_IX_74
rna_IX_740
rna_IX_743
rna_IX_744
rna_IX_745
rna_IX_746
rna_IX_749
rna_IX_75
rna_IX_750
rna_IX_752
rna_IX_756
rna_IX_757
rna_IX_758
rna_IX_759
rna_IX_76
1e−20
1e−10
0.001
0.1
0.1+

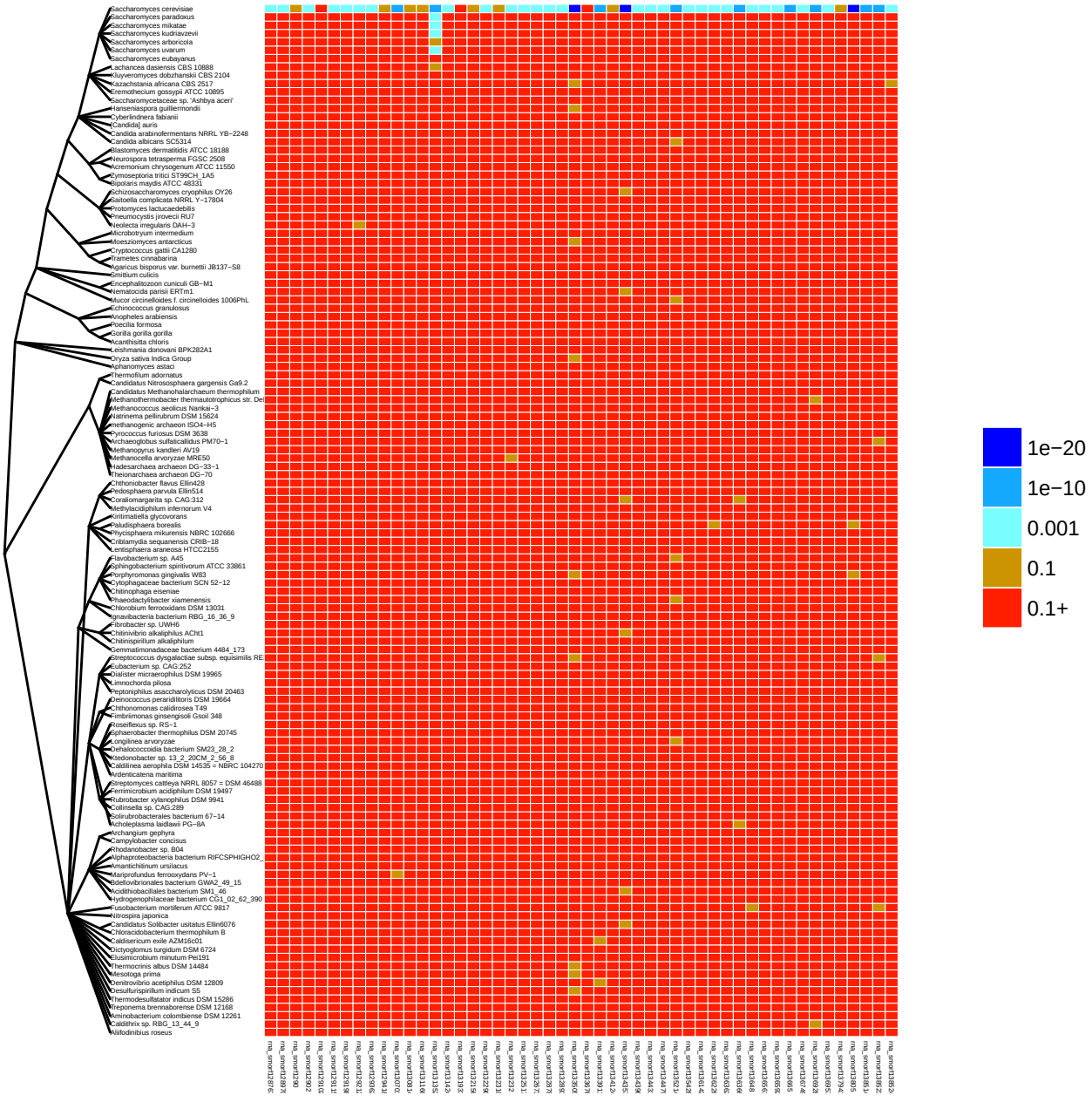

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_IX_764
mu_IX_765
mu_IX_766
mu_IX_767
mu_IX_768
mu_IX_769
mu_IX_77
mu_IX_770
mu_IX_774
mu_IX_775
mu_IX_779
mu_IX_78
mu_IX_780
mu_IX_782
mu_IX_784
mu_IX_785
mu_IX_786
mu_IX_788
mu_IX_789
mu_IX_792
mu_IX_793
mu_IX_794
mu_IX_795
mu_IX_798
mu_IX_799
mu_IX_8
mu_IX_80
mu_IX_800
mu_IX_801
mu_IX_803
mu_IX_804
mu_IX_805
mu_IX_807
mu_IX_808
mu_IX_81
mu_IX_811
mu_IX_813
mu_IX_814
mu_IX_815
mu_IX_816
mu_IX_817
mu_IX_818
mu_IX_819
mu_IX_82
mu_IX_820
mu_IX_821
mu_IX_823
mu_IX_824
mu_IX_825
mu_IX_827
1e−20
1e−10
0.001
0.1
0.1+

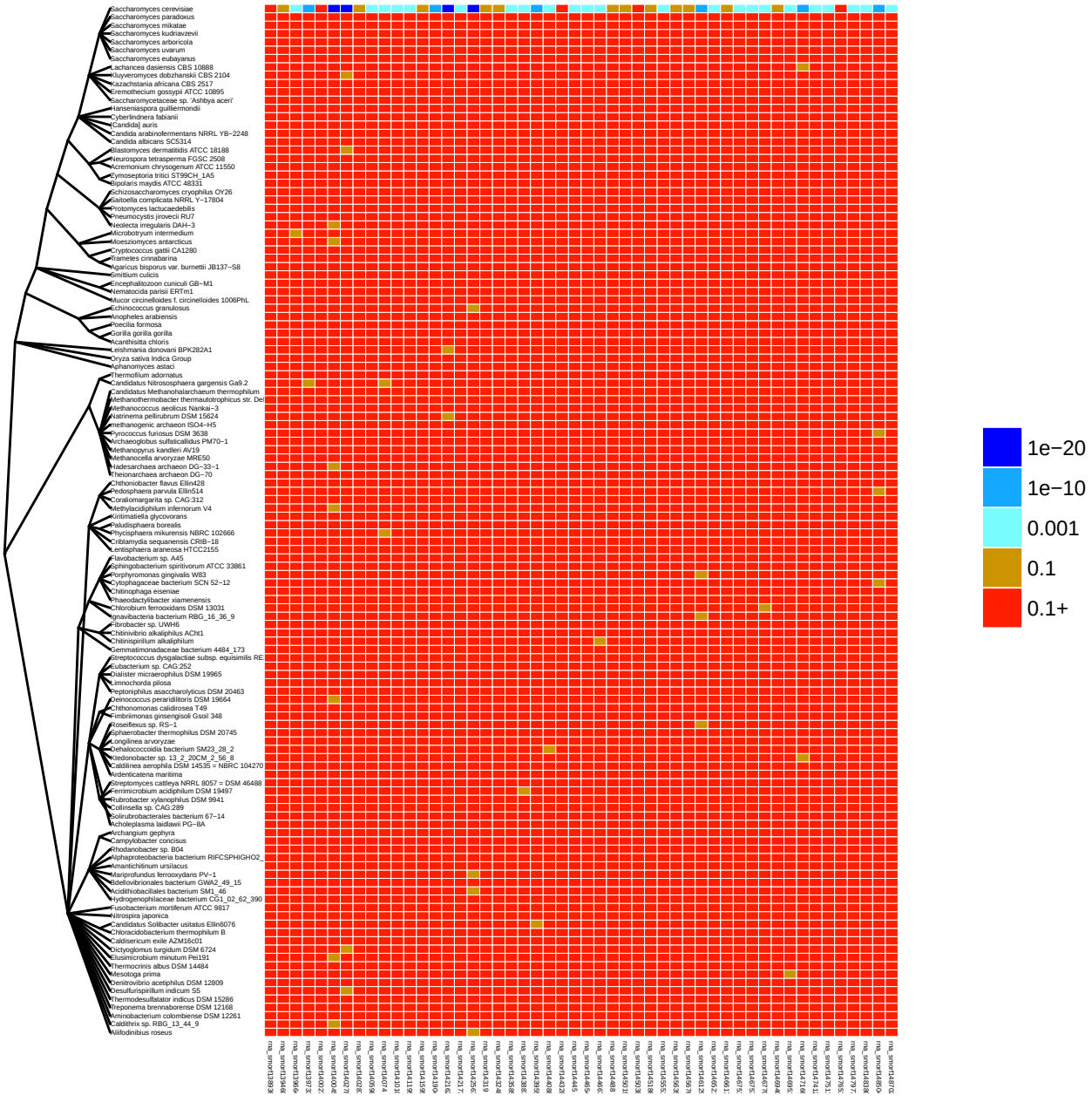

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
rna_IX_828
rna_IX_829
rna_IX_83
rna_IX_830
rna_IX_831
rna_IX_832
rna_IX_834
rna_IX_835
rna_IX_836
rna_IX_837
rna_IX_838
rna_IX_839
rna_IX_84
rna_IX_89
rna_IX_9
rna_IX_90
rna_IX_91
rna_IX_92
rna_IX_93
rna_IX_94
rna_IX_96
rna_IX_98
rna_IX_99
rna_Mo_10
rna_Mo_11
rna_Mo_12
rna_Mo_13
rna_Mo_14
rna_Mo_15
rna_Mo_16
rna_Mo_17
rna_Mo_18
rna_Mo_19
rna_Mo_2
rna_Mo_20
rna_Mo_21
rna_Mo_23
rna_Mo_24
rna_Mo_27
rna_Mo_28
rna_Mo_29
rna_Mo_3
rna_Mo_30
rna_Mo_31
rna_Mo_33
rna_Mo_34
rna_Mo_35
rna_Mo_36
rna_Mo_37
rna_Mo_38
1e−20
1e−10
0.001
0.1
0.1+

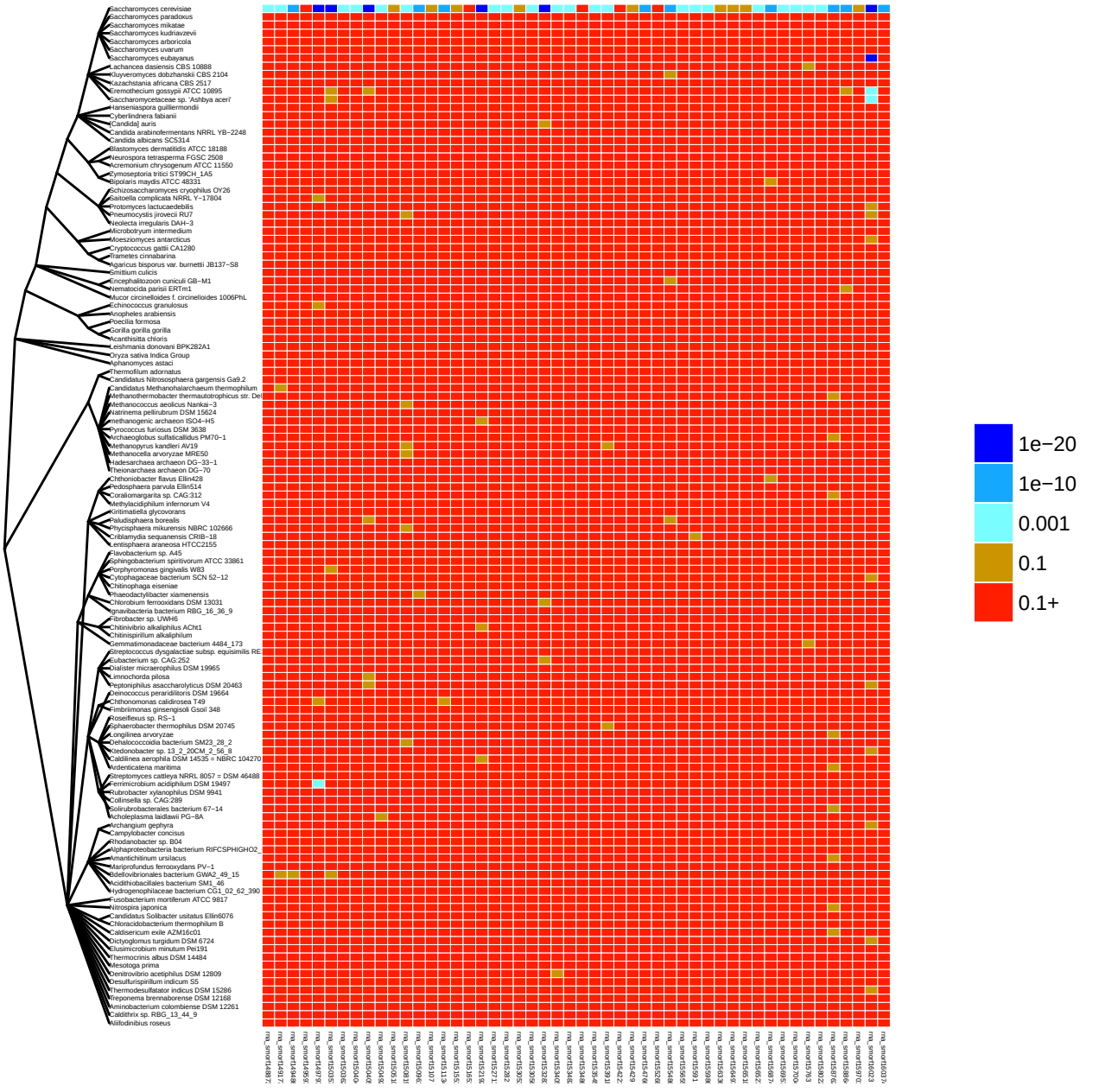

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

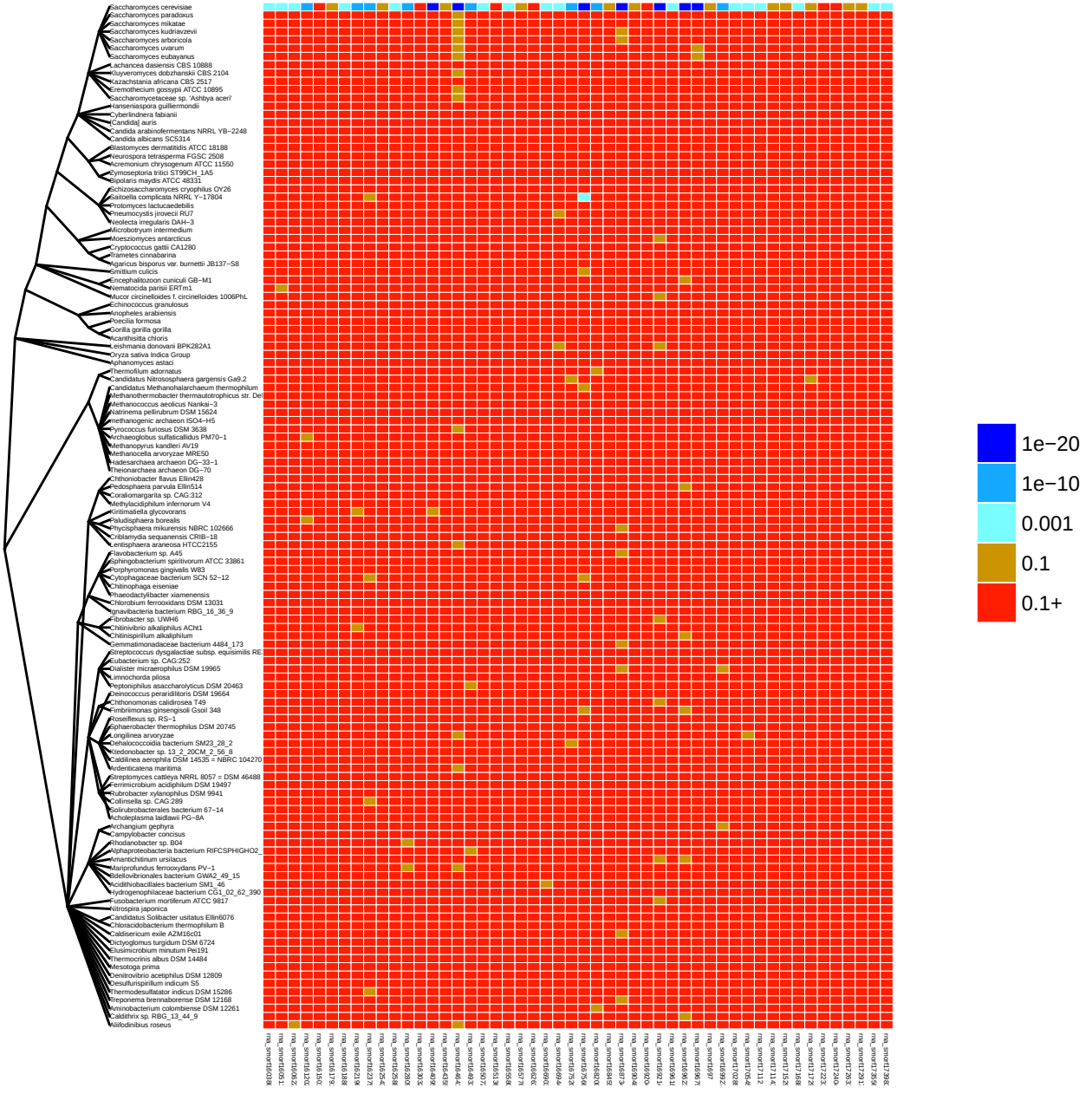

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

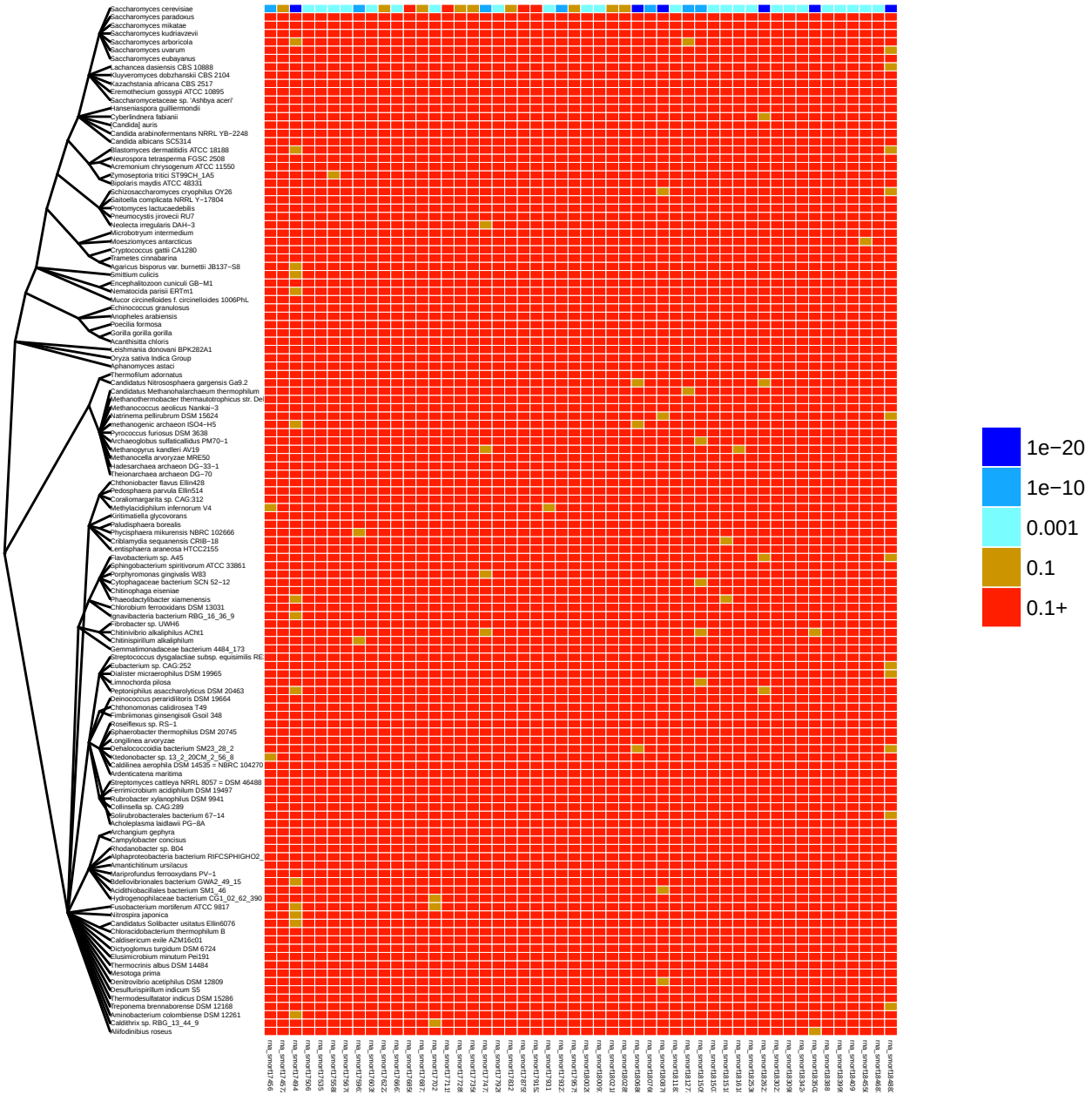

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

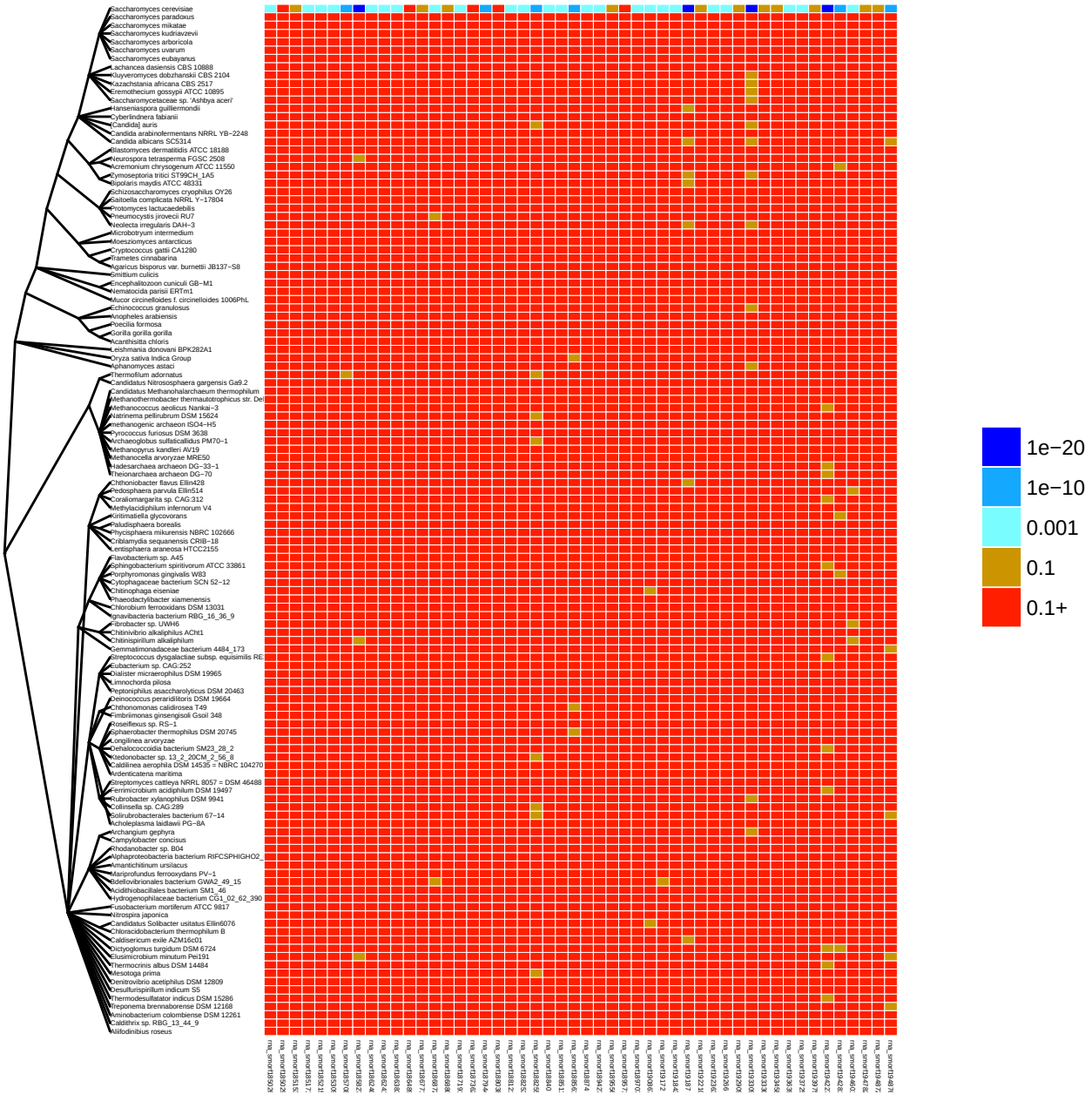

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

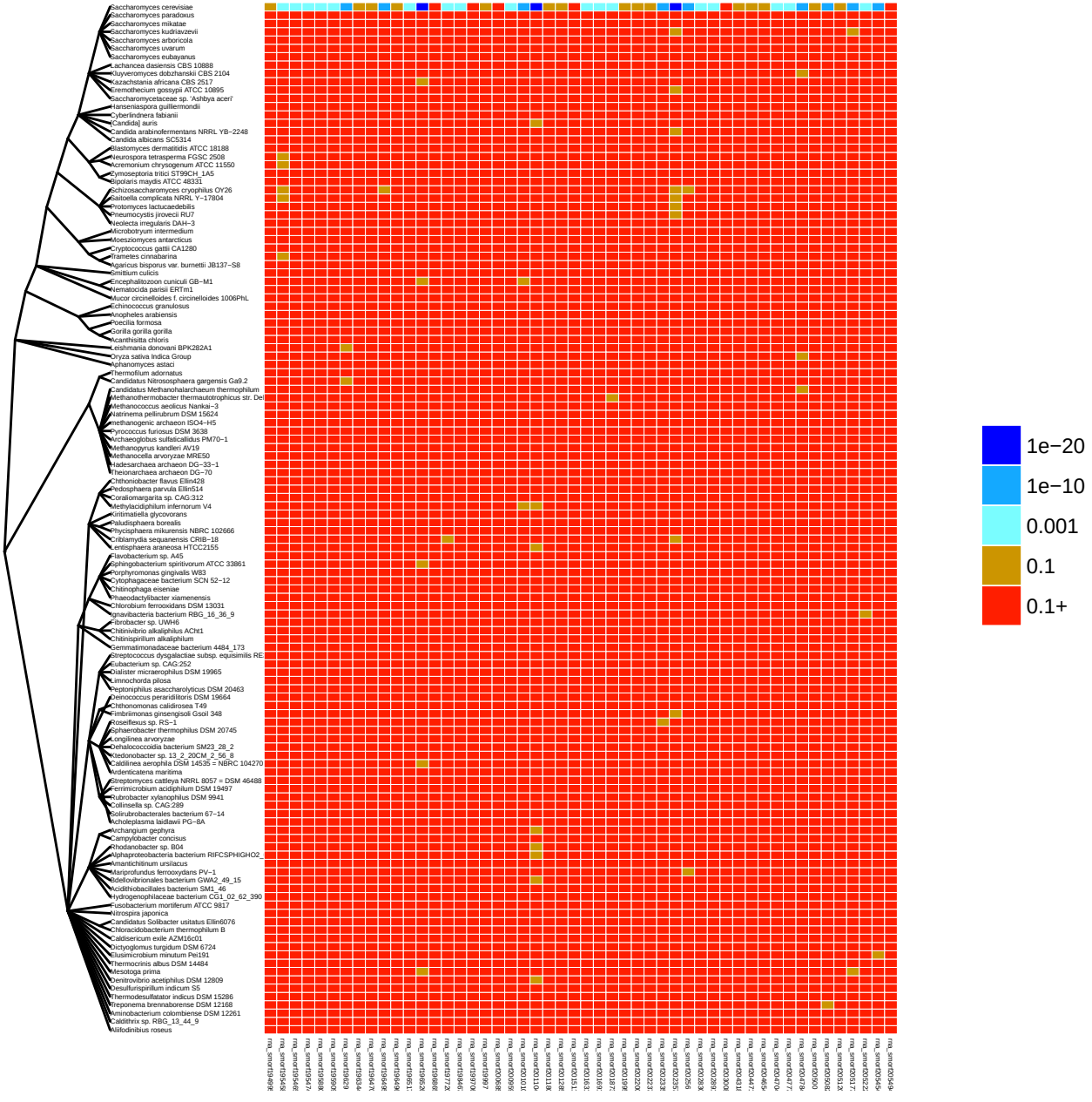

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

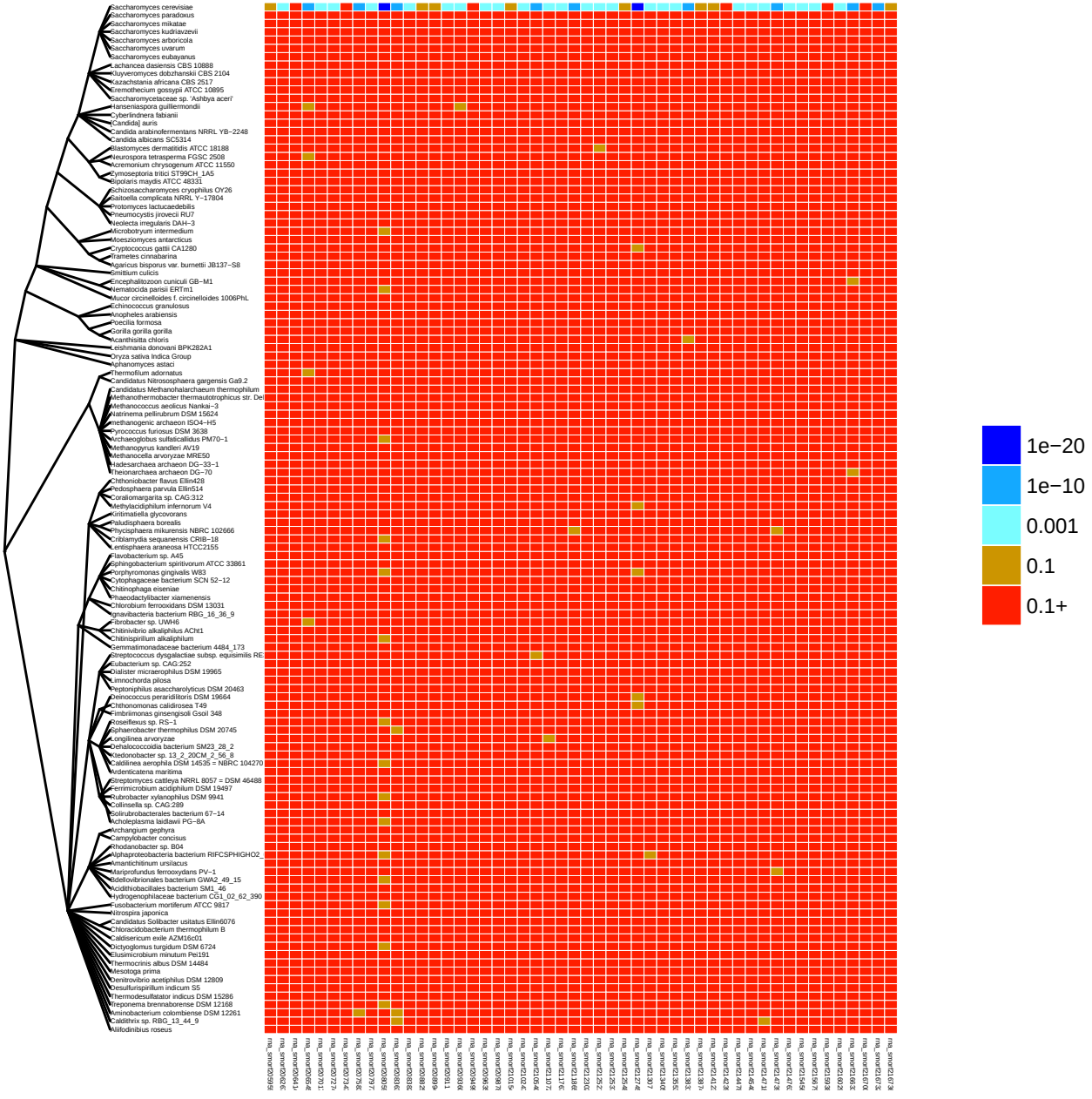

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

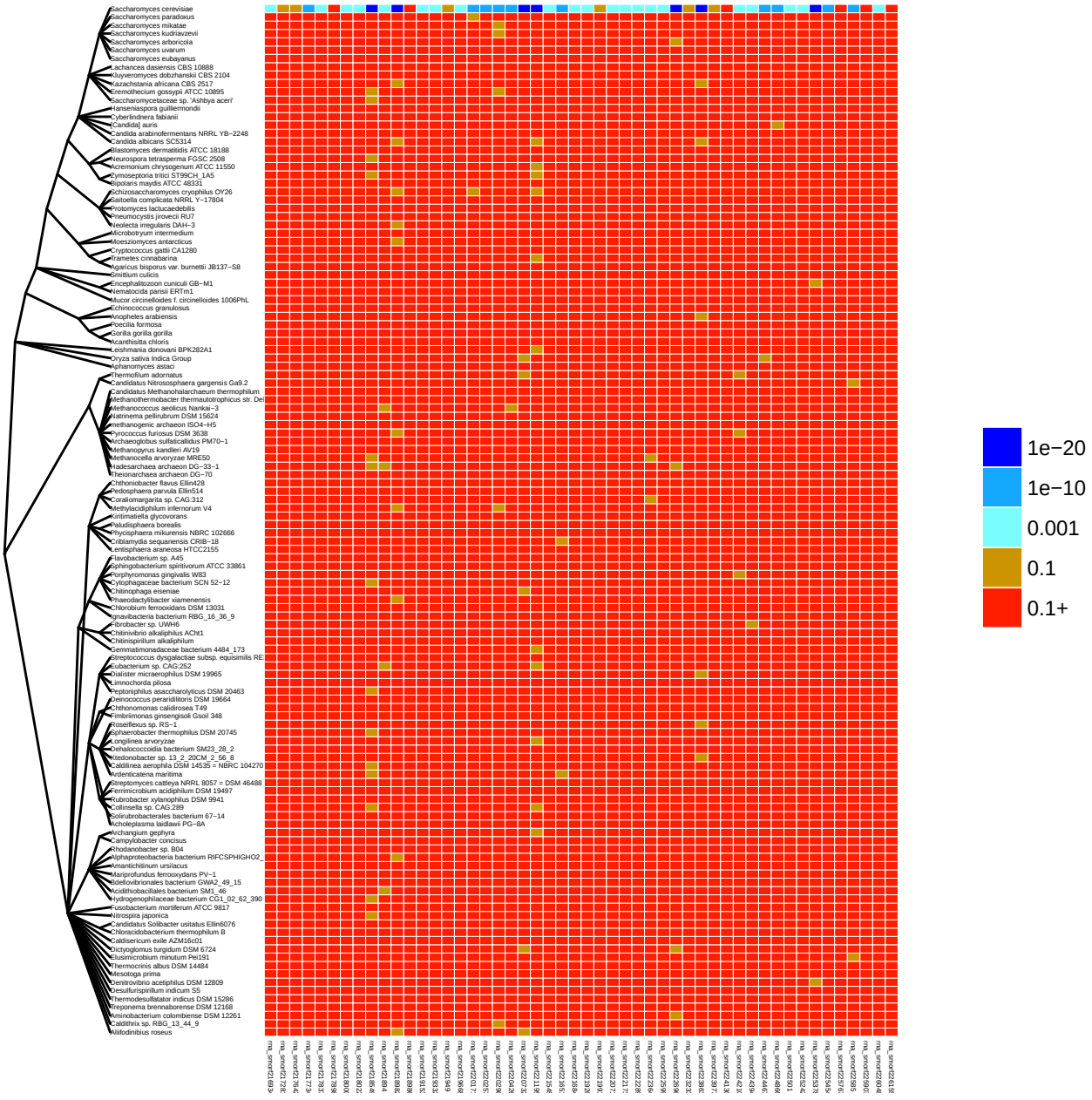

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 8801
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia pachydermatis CBS 9557
Malassezia pachydermatis CBS 9555
Malassezia pachydermatis CBS 9558
Malassezia pachydermatis CBS 9556
Malassezia pachydermatis CBS 9557

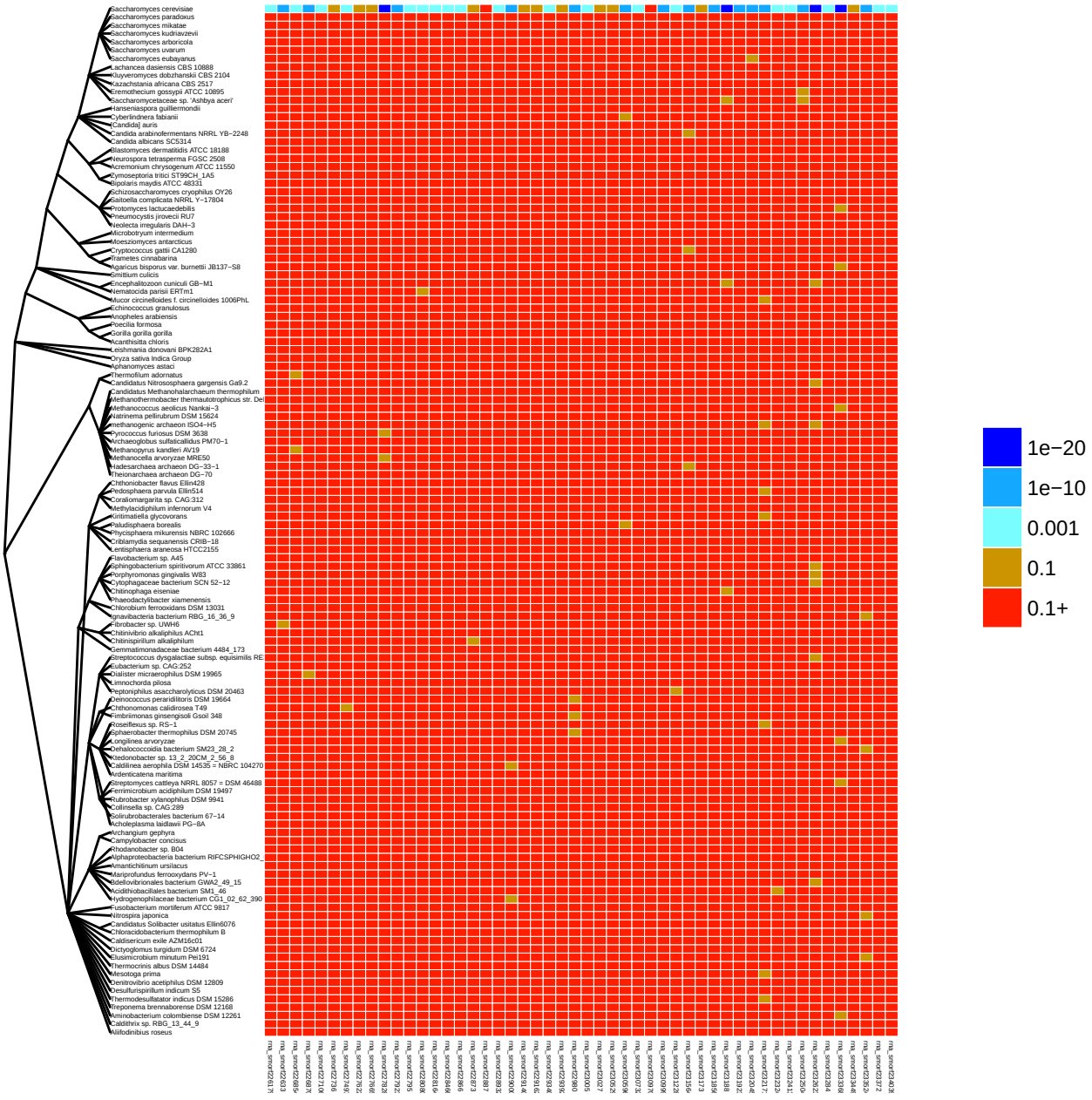

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

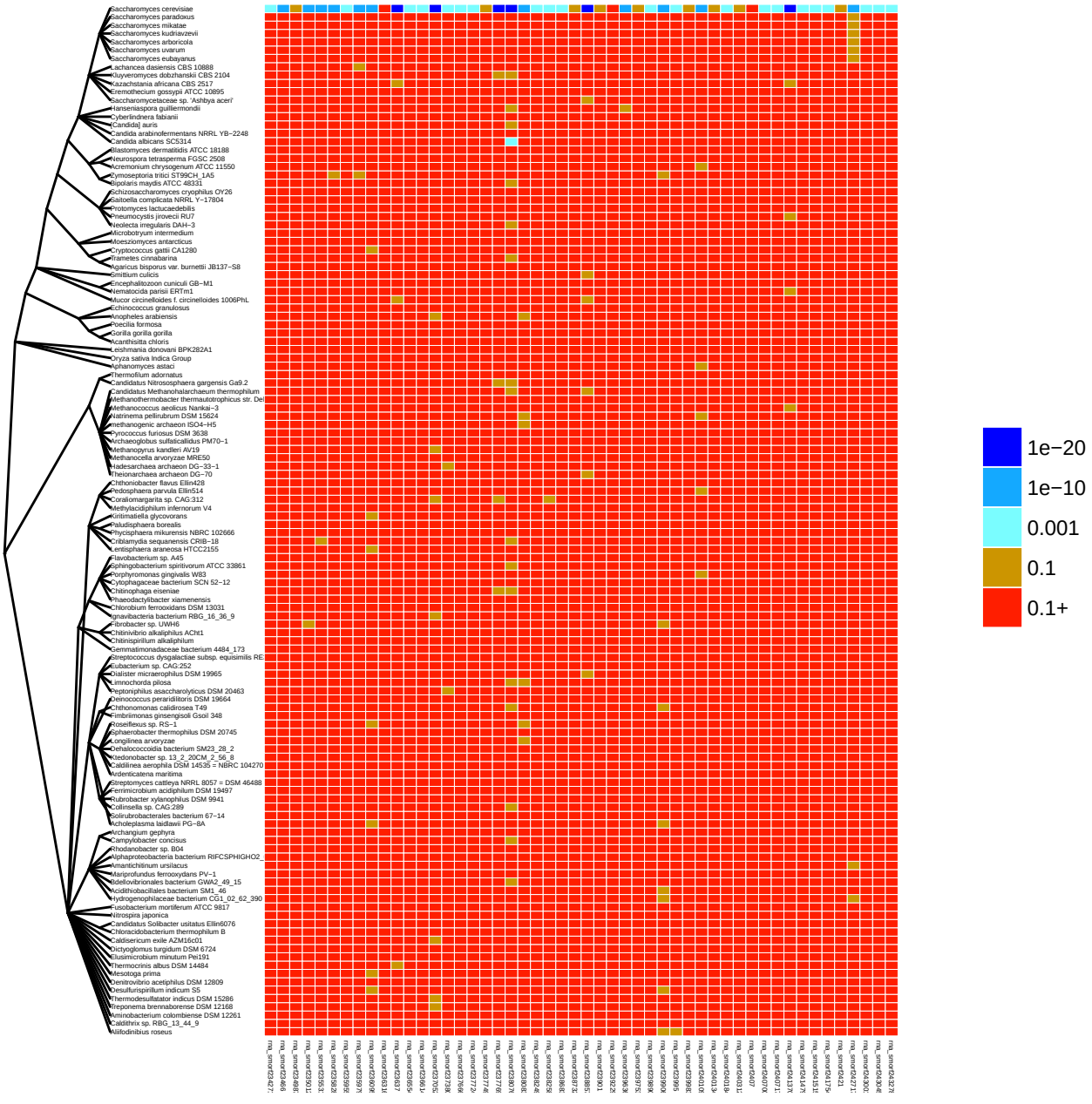

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

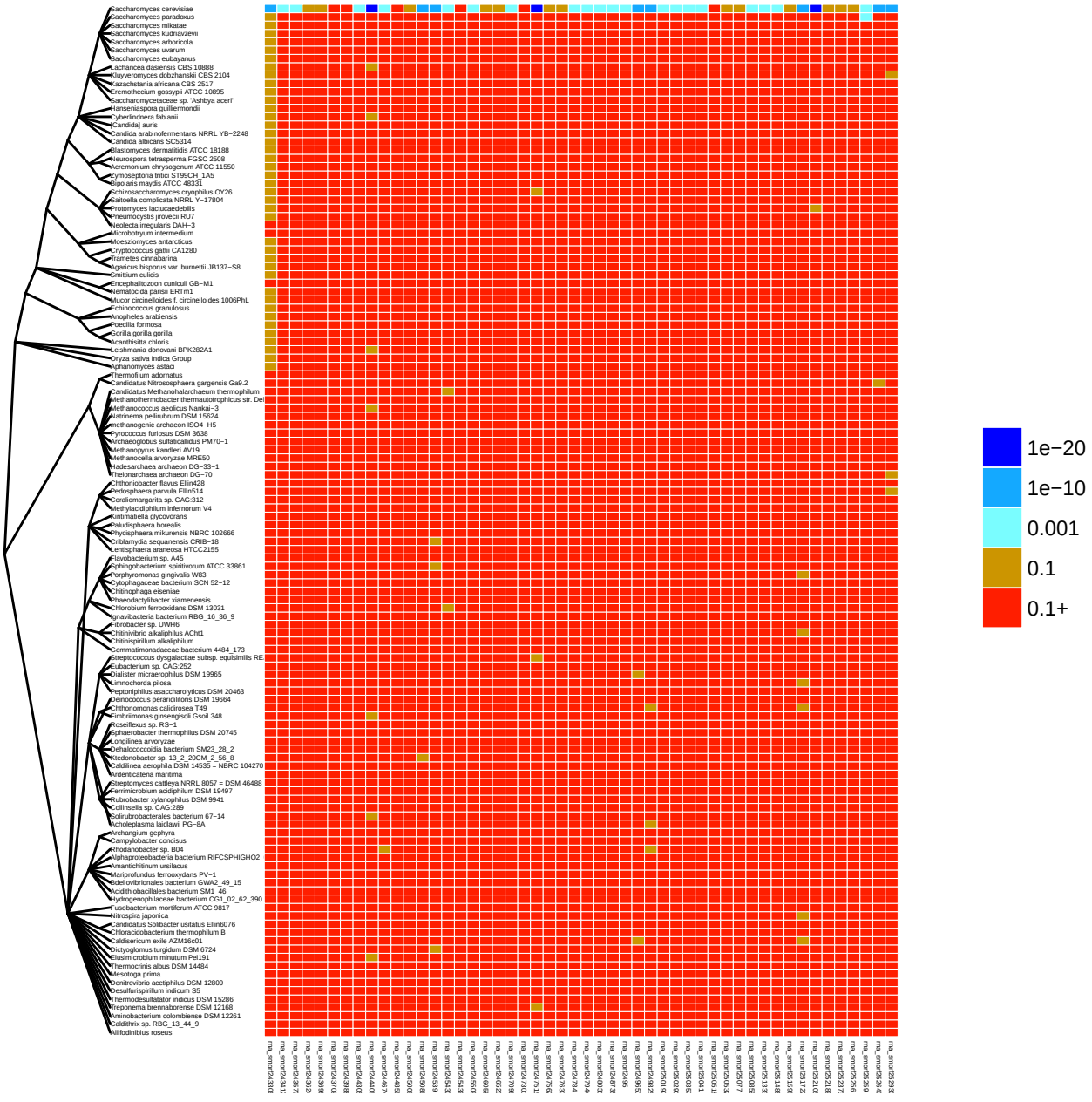

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Candidatus Korarchaeum cryptofilum OPA67
Candidatus Caldiarchaeum subterranum
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosopumilus koreensis AR1
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosopumilus sp. AR
Candidatus Nitrosopumilus cobalt
Candidatus Nitrosopumilus sp. SCM1
Candidatus Nitrosopumilus sp. AK1
Candidatus Nitrosopumilus sp. AK2
Candidatus Nitrosopumilus sp. AK3
Candidatus Nitrosopumilus sp. AK4
Candidatus Nitrosopumilus sp. AK5
Candidatus Nitrosopumilus sp. AK6
Candidatus Nitrosopumilus sp. AK7
Candidatus Nitrosopumilus sp. AK8
Candidatus Nitrosopumilus sp. AK9
Candidatus Nitrosopumilus sp. AK10
Candidatus Nitrosopumilus sp. AK11
Candidatus Nitrosopumilus sp. AK12
Candidatus Nitrosopumilus sp. AK13
Candidatus Nitrosopumilus sp. AK14
Candidatus Nitrosopumilus sp. AK15
Candidatus Nitrosopumilus sp. AK16
Candidatus Nitrosopumilus sp. AK17
Candidatus Nitrosopumilus sp. AK18
Candidatus Nitrosopumilus sp. AK19
Candidatus Nitrosopumilus sp. AK20
Candidatus Nitrosopumilus sp. AK21
Candidatus Nitrosopumilus sp. AK22
Candidatus Nitrosopumilus sp. AK23
Candidatus Nitrosopumilus sp. AK24
Candidatus Nitrosopumilus sp. AK25
Candidatus Nitrosopumilus sp. AK26
Candidatus Nitrosopumilus sp. AK27
Candidatus Nitrosopumilus sp. AK28
Candidatus Nitrosopumilus sp. AK29
Candidatus Nitrosopumilus sp. AK30
Candidatus Nitrosopumilus sp. AK31
Candidatus Nitrosopumilus sp. AK32
Candidatus Nitrosopumilus sp. AK33
Candidatus Nitrosopumilus sp. AK34
Candidatus Nitrosopumilus sp. AK35
Candidatus Nitrosopumilus sp. AK36
Candidatus Nitrosopumilus sp. AK37
Candidatus Nitrosopumilus sp. AK38
Candidatus Nitrosopumilus sp. AK39
Candidatus Nitrosopumilus sp. AK40
Candidatus Nitrosopumilus sp. AK41
Candidatus Nitrosopumilus sp. AK42
Candidatus Nitrosopumilus sp. AK43
Candidatus Nitrosopumilus sp. AK44
Candidatus Nitrosopumilus sp. AK45
Candidatus Nitrosopumilus sp. AK46
Candidatus Nitrosopumilus sp. AK47
Candidatus Nitrosopumilus sp. AK48
Candidatus Nitrosopumilus sp. AK49
Candidatus Nitrosopumilus sp. AK50
Candidatus Nitrosopumilus sp. AK51
Candidatus Nitrosopumilus sp. AK52
Candidatus Nitrosopumilus sp. AK53
Candidatus Nitrosopumilus sp. AK54
1e−20
1e−10
0.001
0.1
0.1+

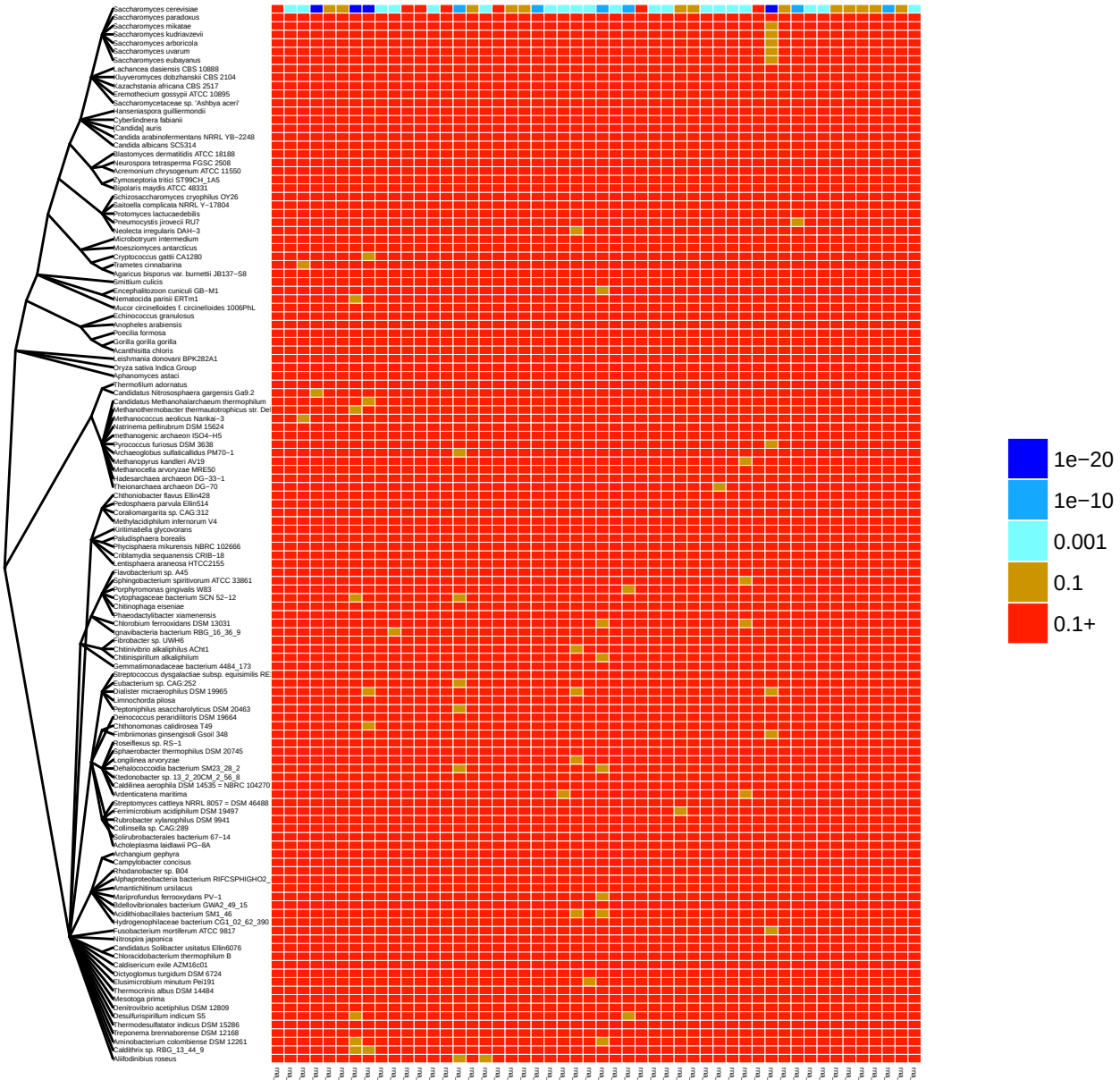

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

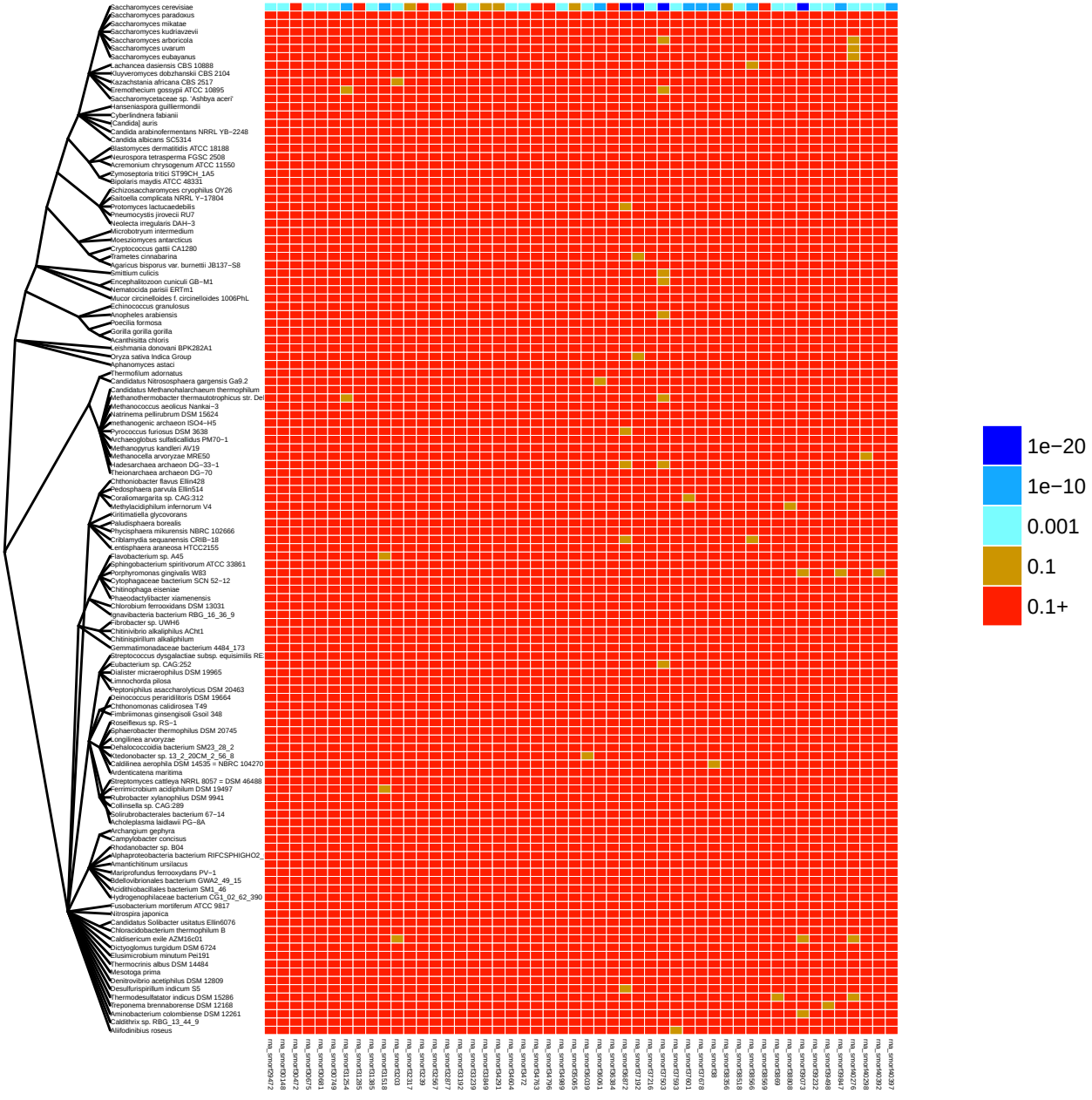

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter versatilis Ellin345
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas sp. Is79A3
Nitrosomonas europaea ATCC 19718
Nitrosomonas eutropha C91
Nitrosomonas sp. Is79A3
Nitrosomonas nitrosa Nm90
Nitrosomonas sp. Nm51
Nitrosomonas sp. Nm33
Nitrosomonas sp. Nm84
Nitrosomonas sp. Nm143

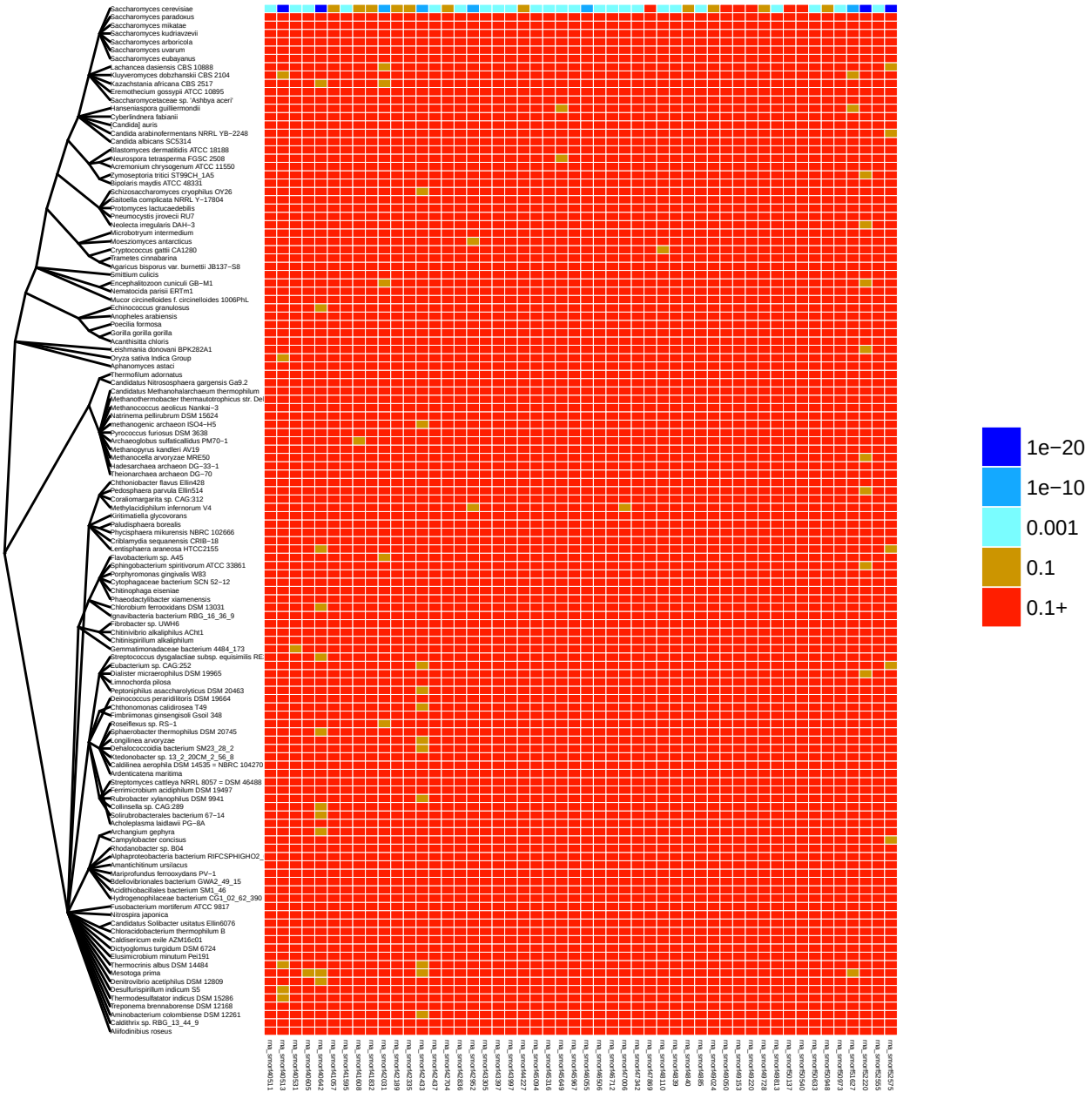

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

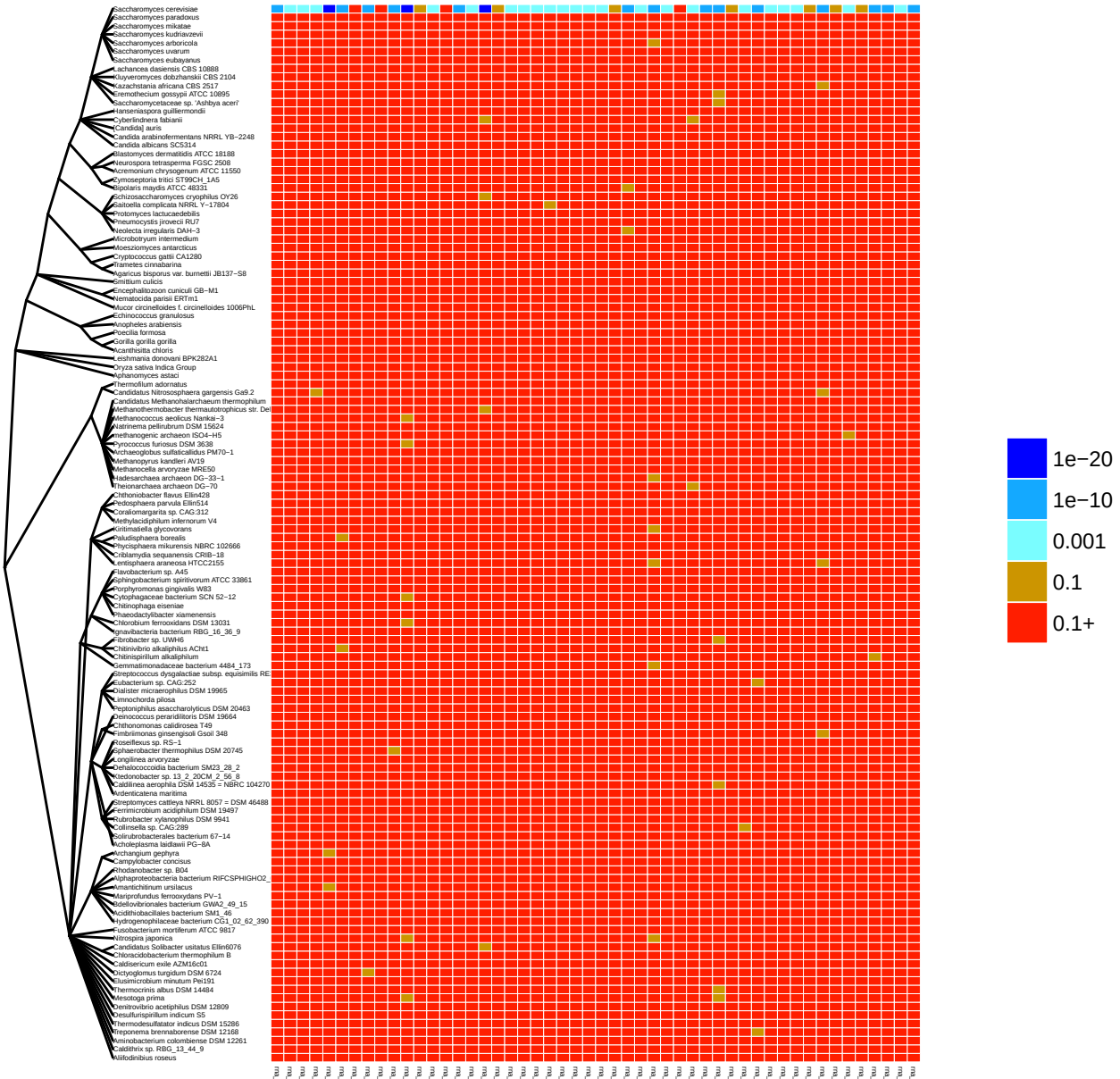

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

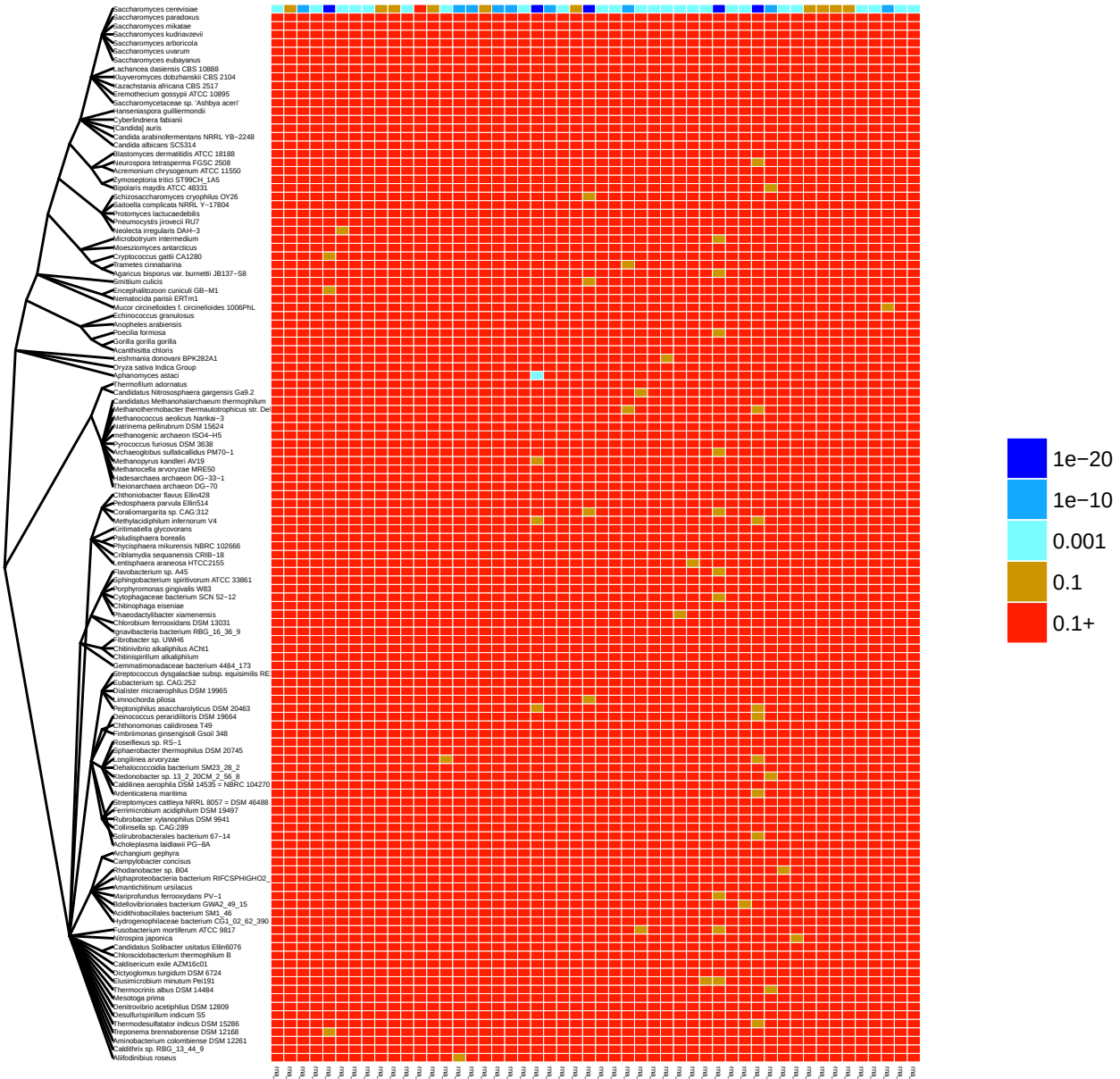

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

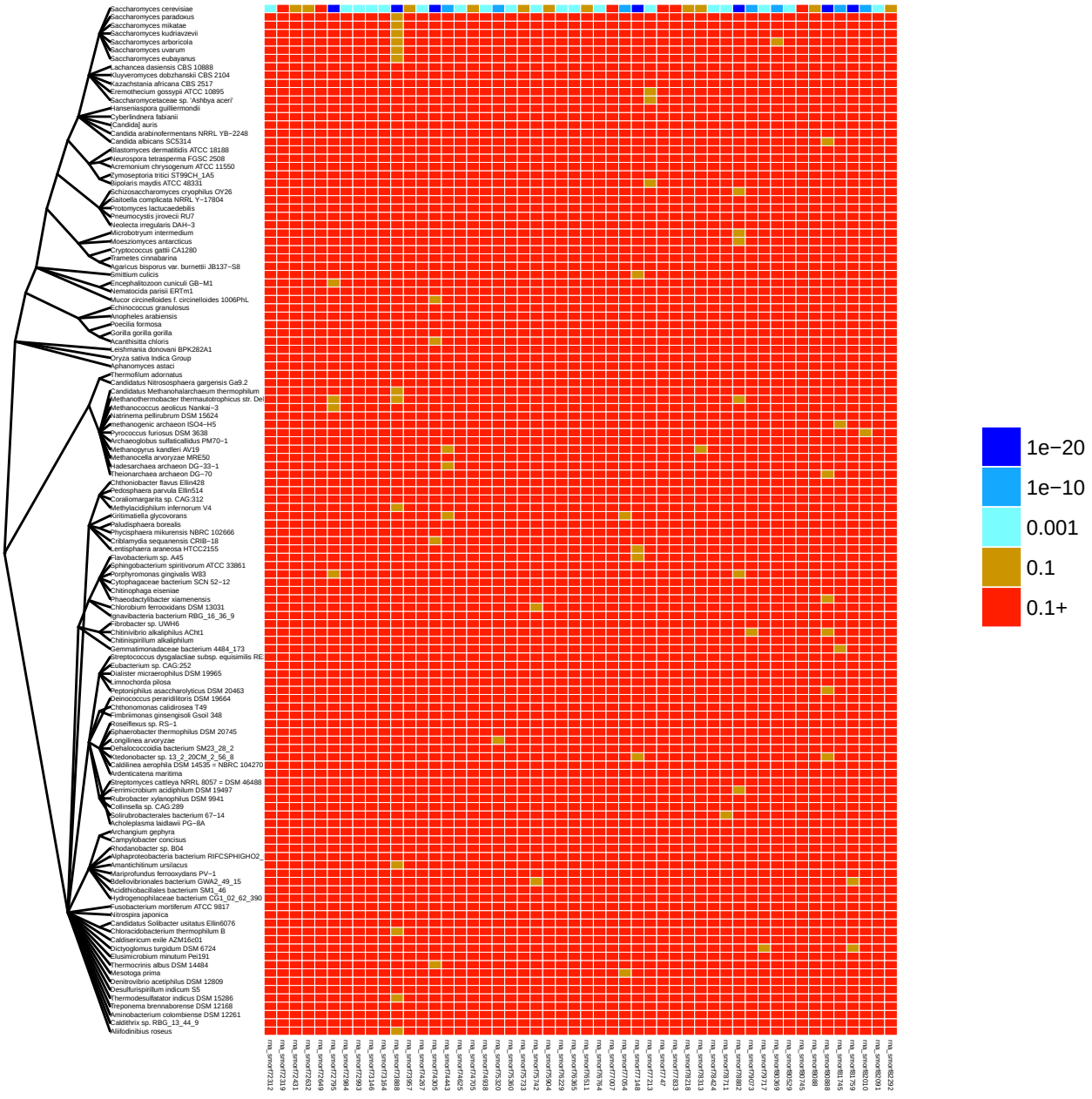

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

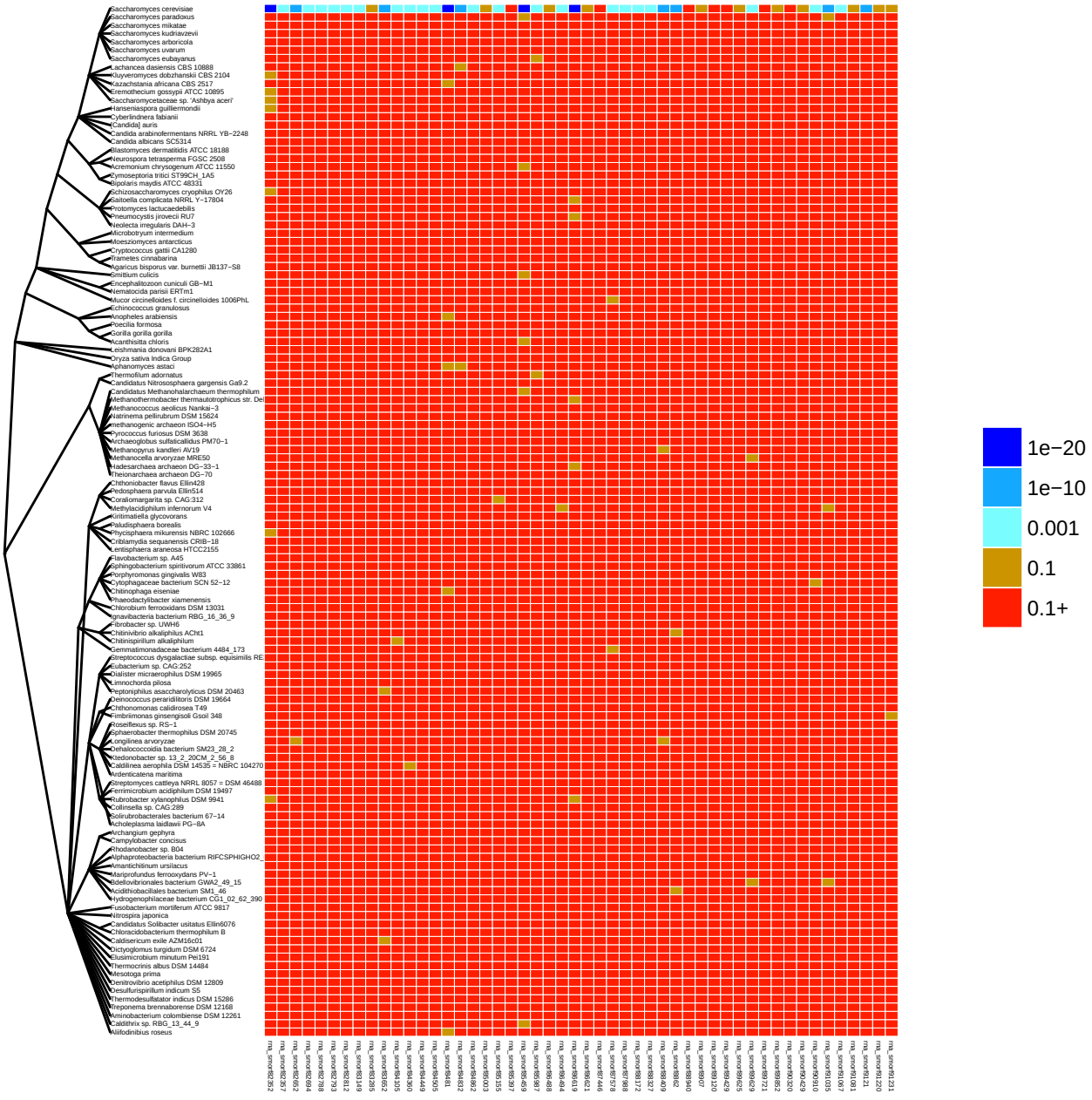

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Ouyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

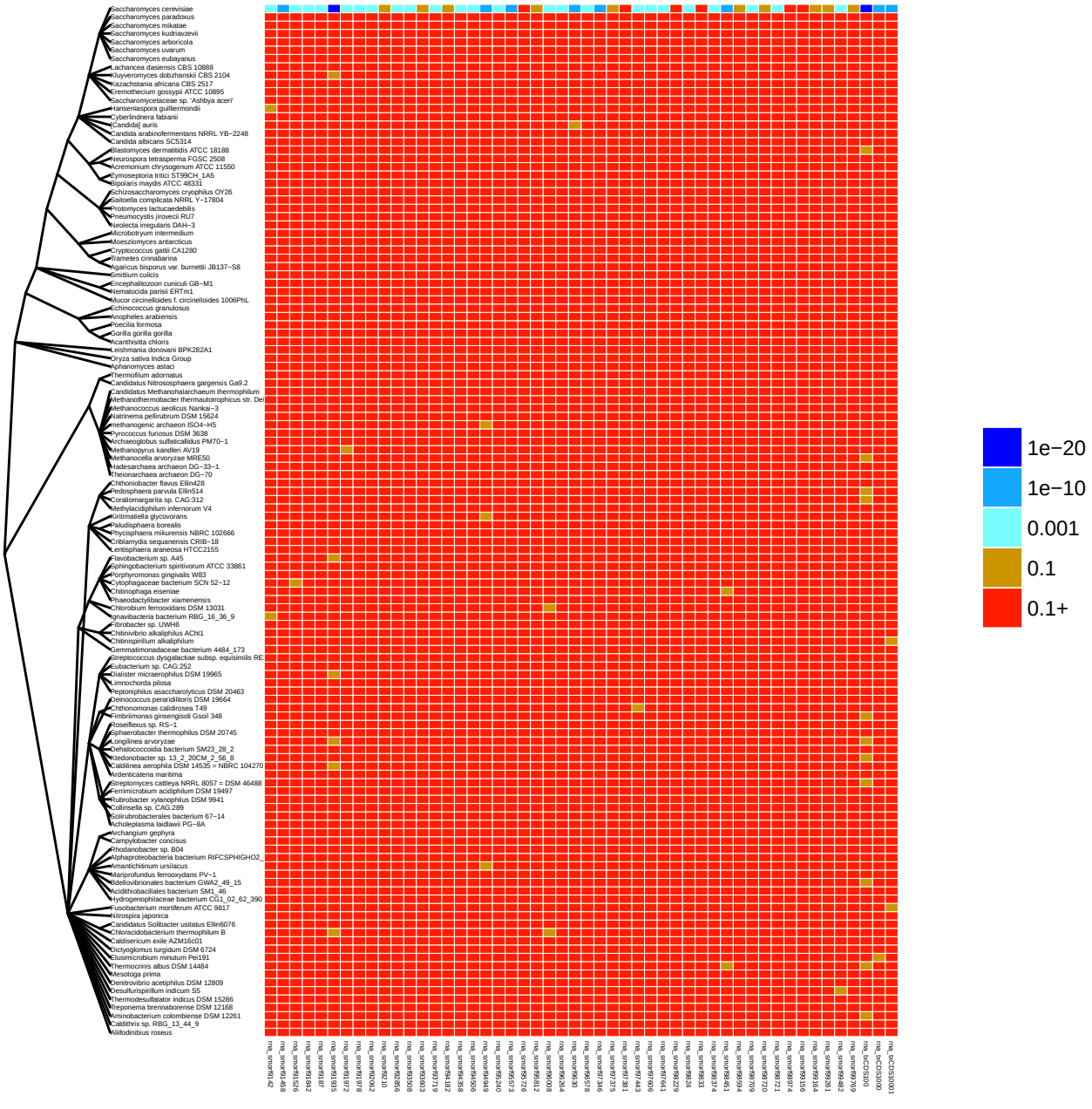

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ropolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

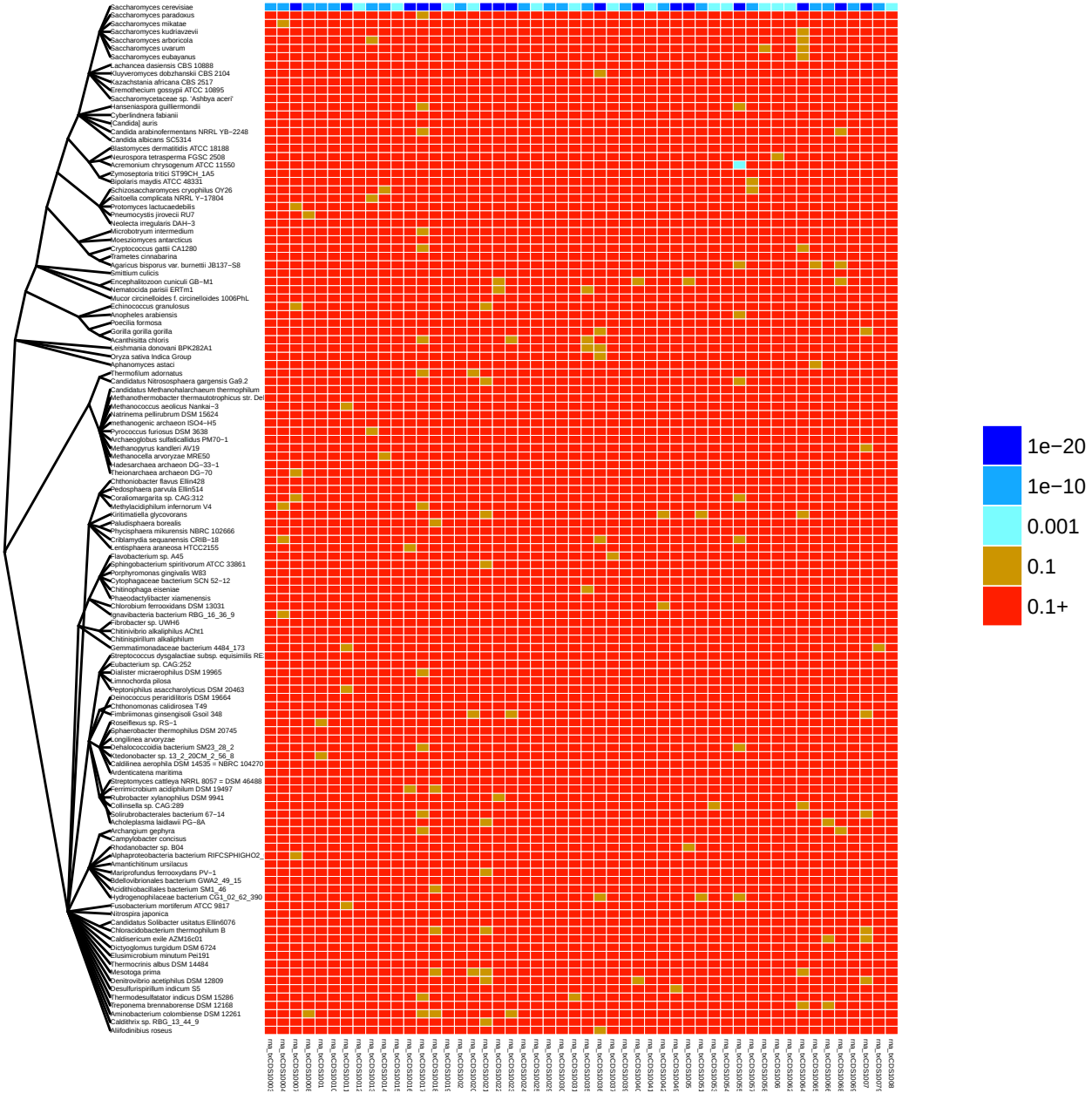

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
Fusobacterium nucleatum subsp. nucleatum ATCC 25586
Bacteroides ovatus ATCC 8483
Parabacteroides merdae ATCC 43184
Bacteroides sp. 3_1_19
Alistipes finegoldii DSM 17242
Alistipes sp. HGB5
Barnesiella intestinihominis YIT 11860
Parabacteroides sp. CT06
Odoribacter laneus YIT 12061
Odoribacter splanchnicus DSM 20712
Prevotella sp. CAG:5226
Prevotella dentalis DSM 3688
Bacteroides coprocola DSM 17136
Bacteroides dorei 5_1_36/D4 238
Bacteroides massiliensis CL03T12C01
Bacteroides uniformis ATCC 8492
Bacteroides xylanisolvens XB1A
Bacteroides cellulosilyticus DSM 14838
Bacteroides thetaiotaomicron VPI−5482
Bacteroides caccae ATCC 43185
Bacteroides ndolei DSM 18455
Bacteroides vulgatus ATCC 8482
Bacteroides sp. 2_1_22
Bacteroides pectinophilus ATCC 43243
Bacteroides coprophilus DSM 18228
Bacteroides helcogenes P36−108
Bacteroides sp. 2_1_56
Bacteroides salanitronis DSM 18170
Bacteroides intestinalis DSM 17393
Bacteroides fragilis YCH46
Bacteroides fragilis 638R
Bacteroides fragilis 3_1_12
Bacteroides fragilis CL05T00C42
Bacteroides fragilis CL07T00C01
Bacteroides fragilis CL05T12C13

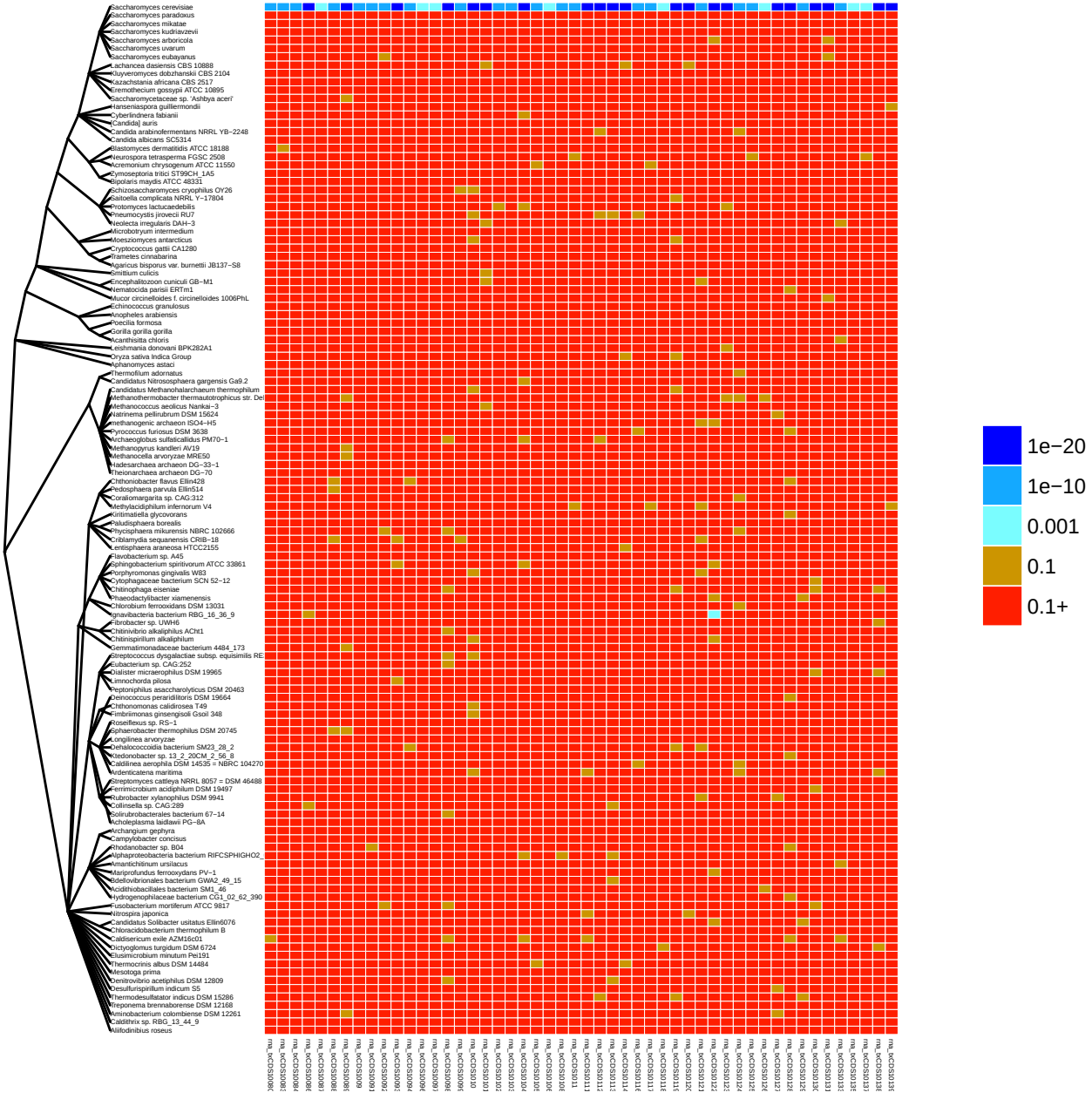

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

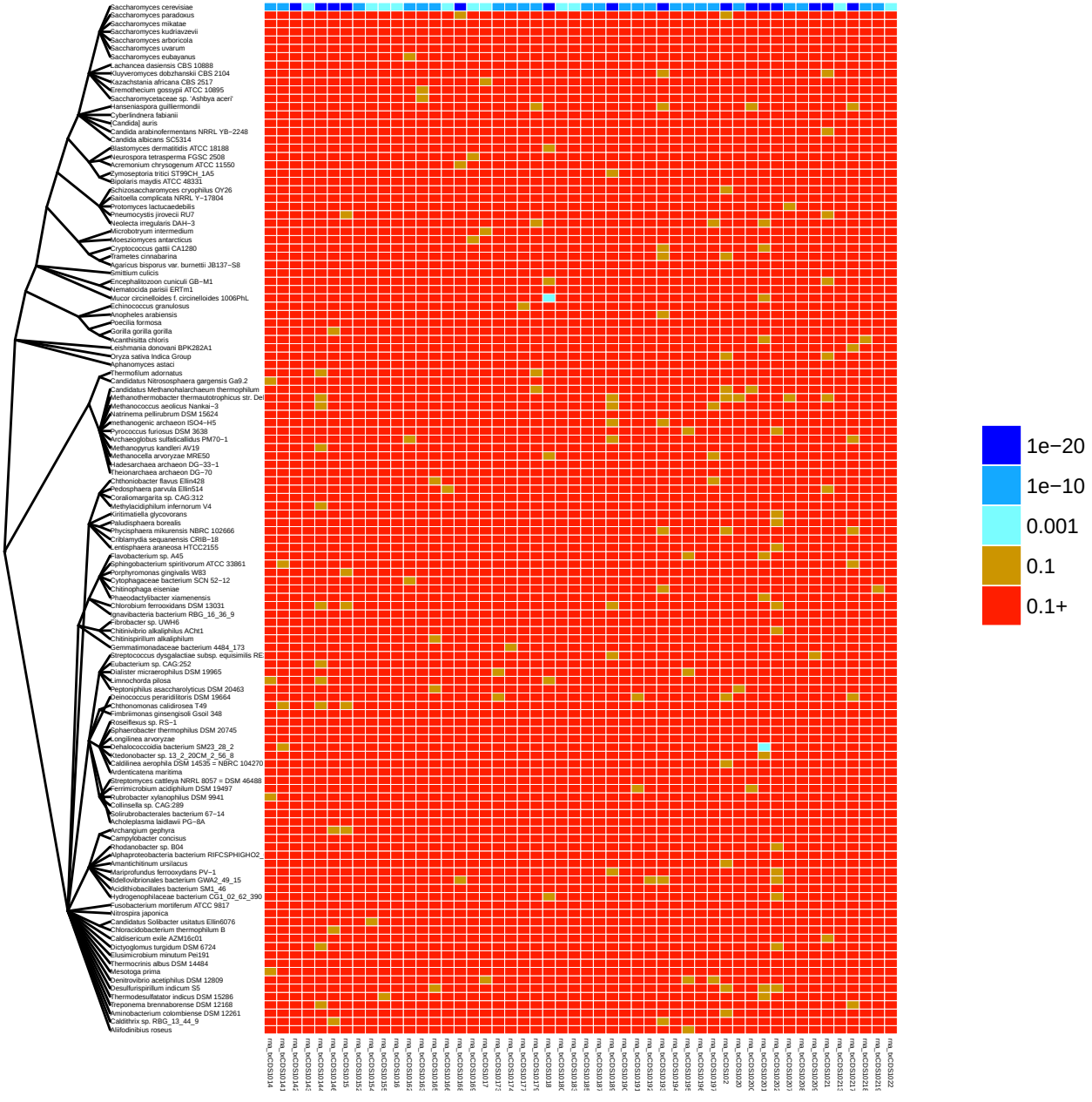

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
rna_smor72312
rna_smor72319
rna_smor72241
rna_smor72592
rna_smor72949
rna_smor72795
rna_smor72893
rna_smor73146
rna_smor72888
rna_smor73957
rna_smor74287
rna_smor74395
rna_smor74443
rna_smor74625
rna_smor74705
rna_smor74938
rna_smor75320
rna_smor75360
rna_smor75733
rna_smor75742
rna_smor75344
rna_smor76239
rna_smor76365
rna_smor76511
rna_smor76784
rna_smor77064
rna_smor77007
rna_smor77148
rna_smor77213
rna_smor77747
rna_smor77883
rna_smor78218
rna_smor78313
rna_smor78424
rna_smor78711
rna_smor78882
rna_smor79073
rna_smor79117
rna_smor80369
rna_smor80529
rna_smor80745
rna_smor80388
rna_smor80888
rna_smor81745
rna_smor81759
rna_smor82010
rna_smor82091
rna_smor82392
1e−20
1e−10
0.001
0.1
0.1+

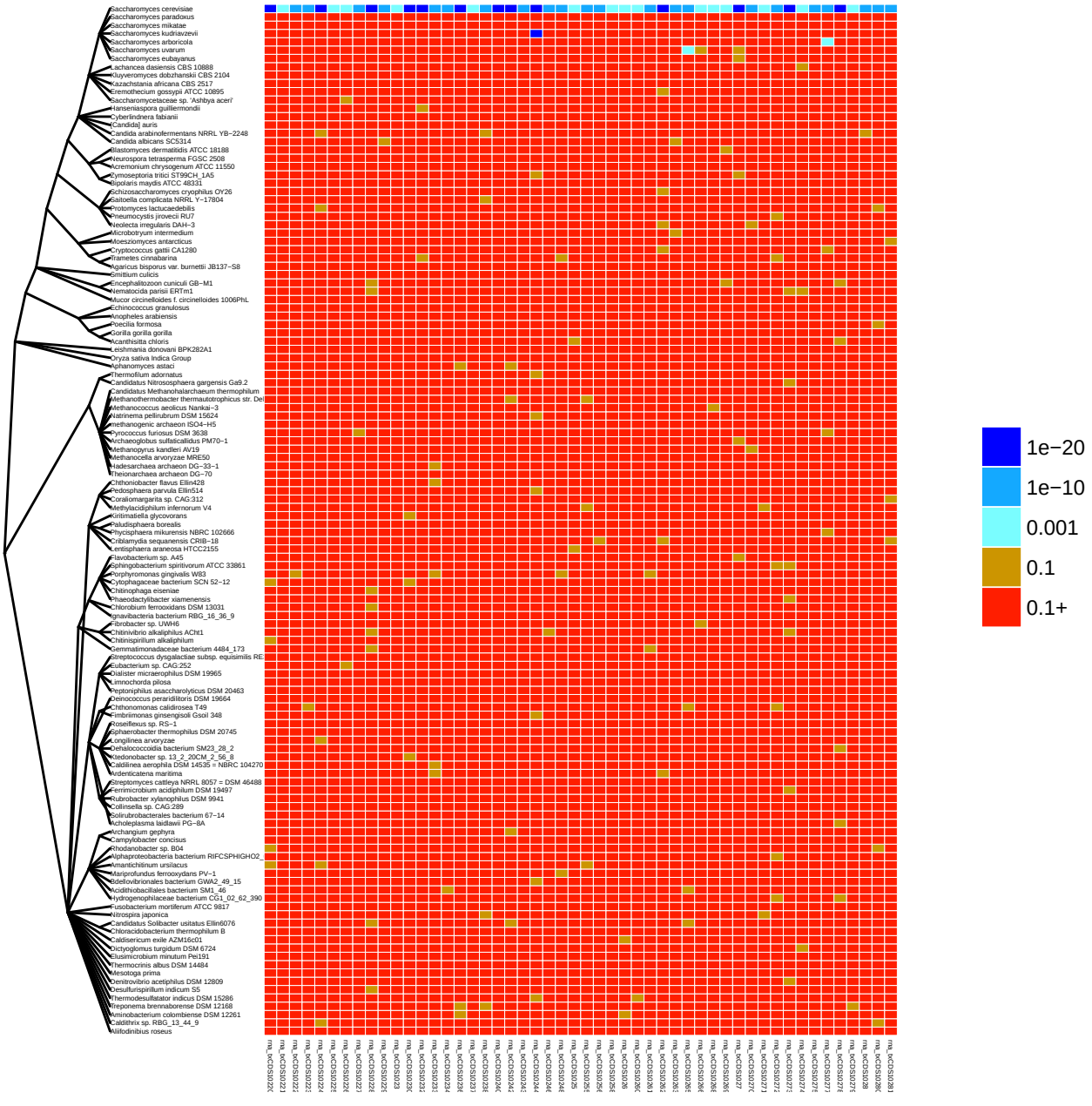

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

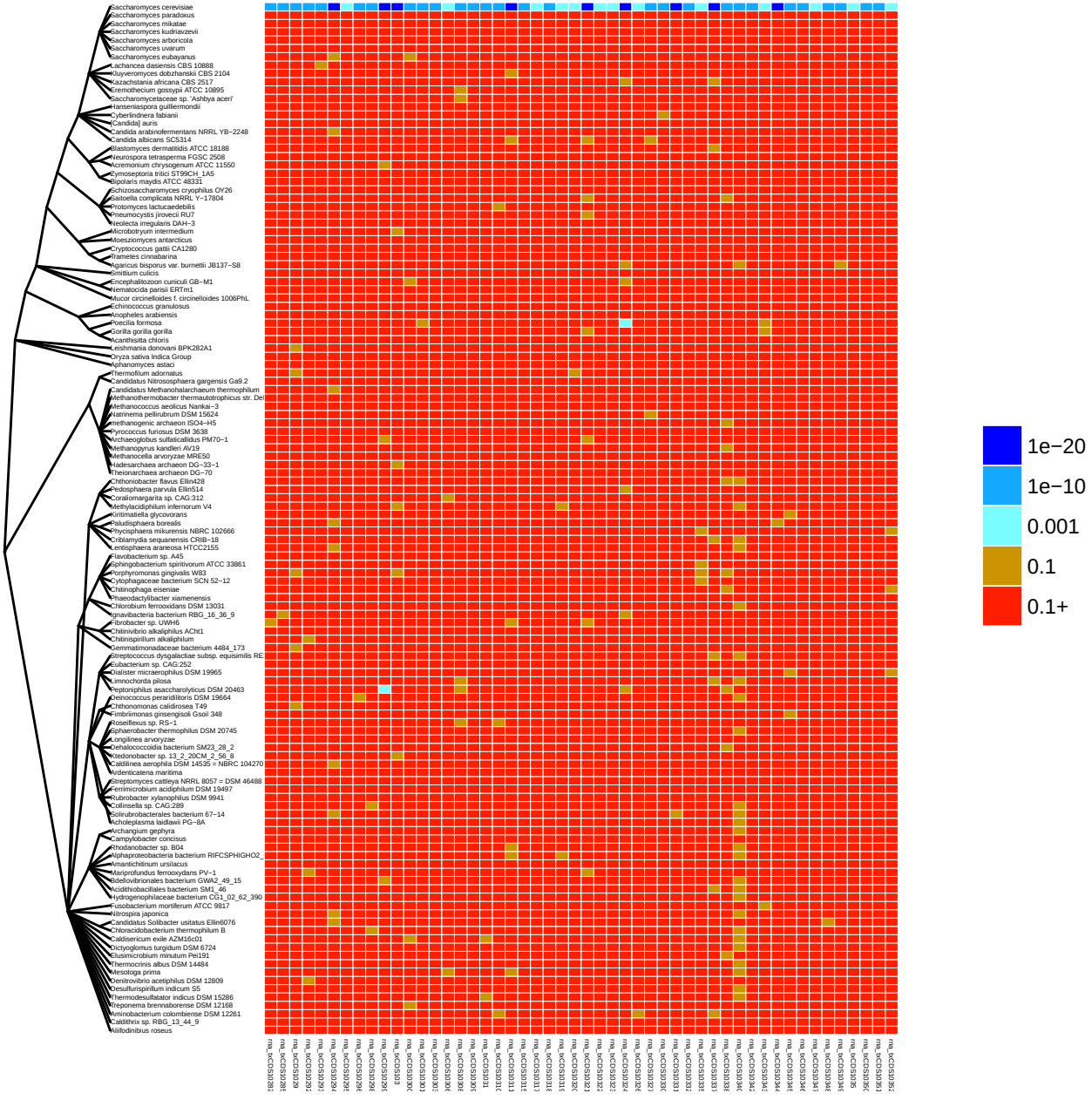

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

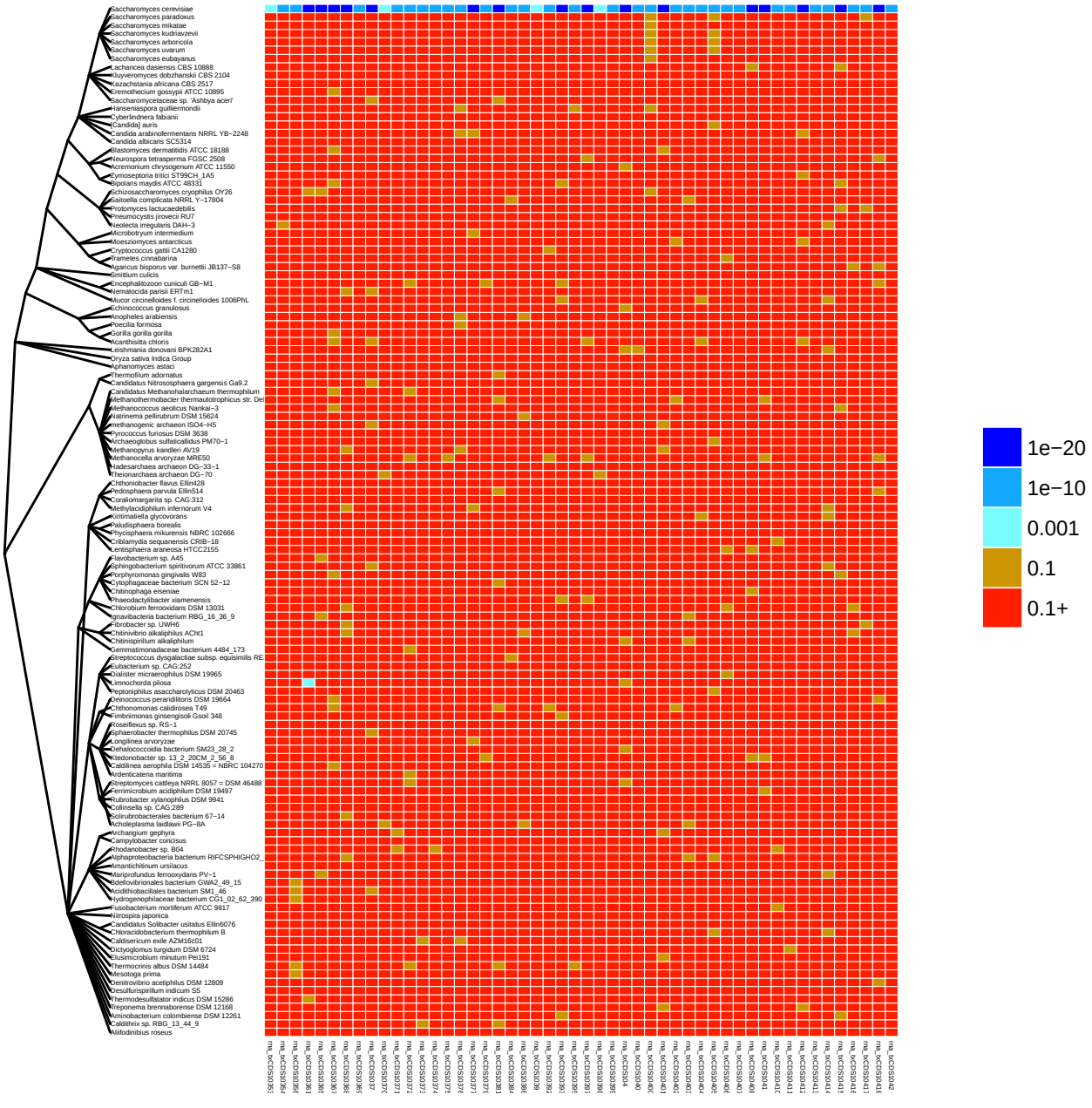

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
1e−20
1e−10
0.001
0.1
0.1+

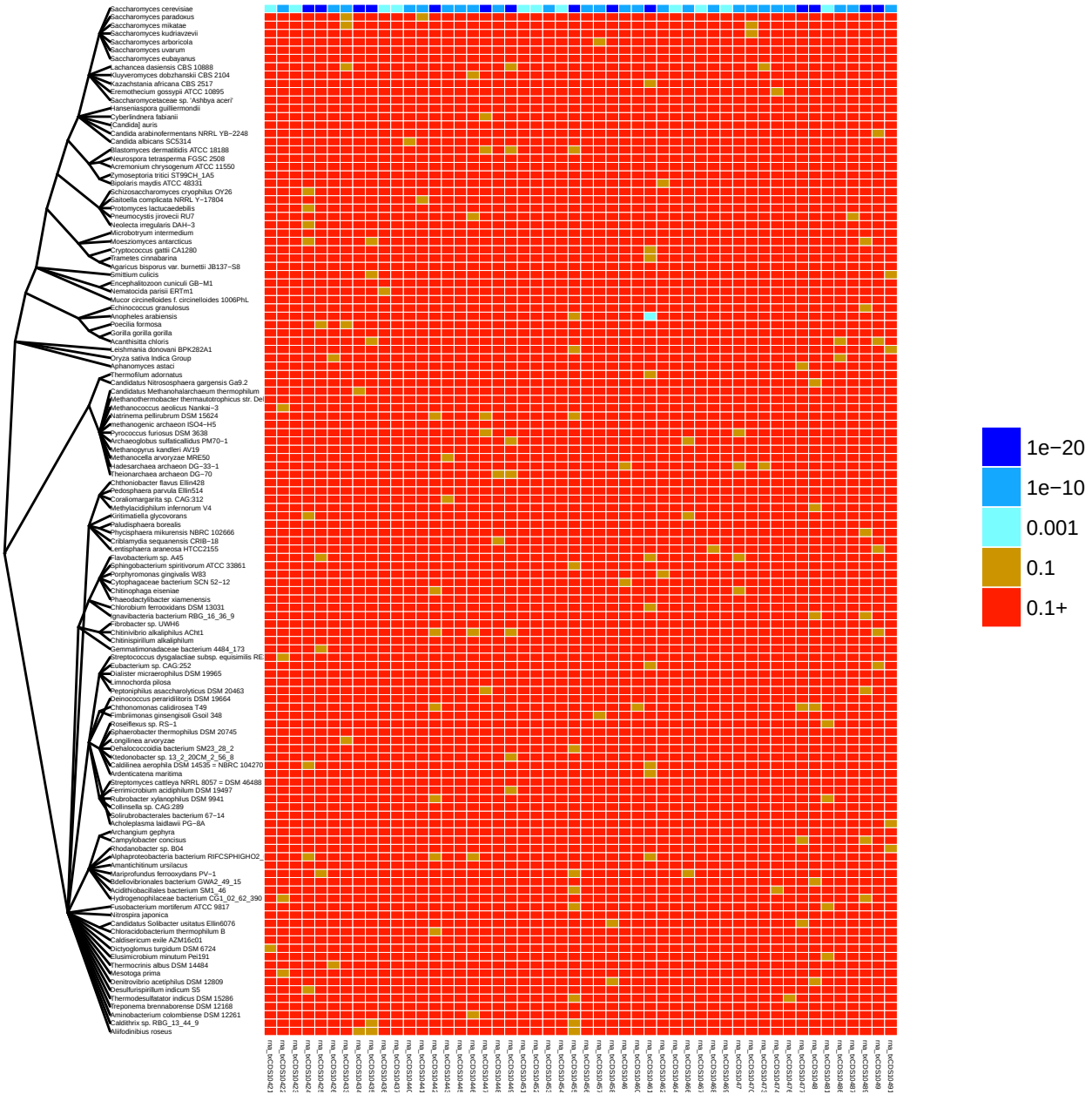

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
Malassezia globosa CBS 7966
Malassezia restricta CBS 7877
Malassezia furfur CBS 14141
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482
1e−20
1e−10
0.001
0.1
0.1+

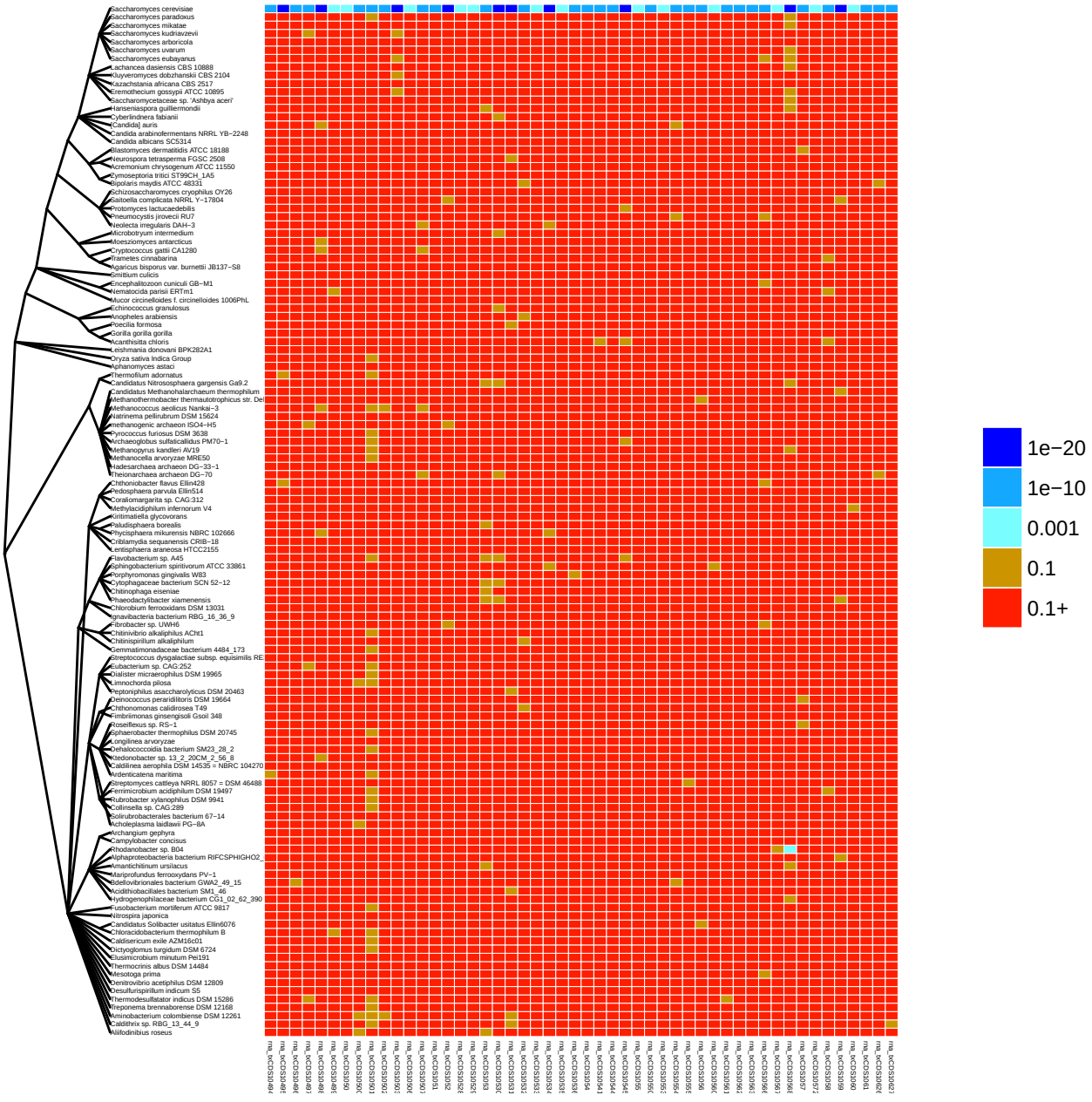

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszóimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

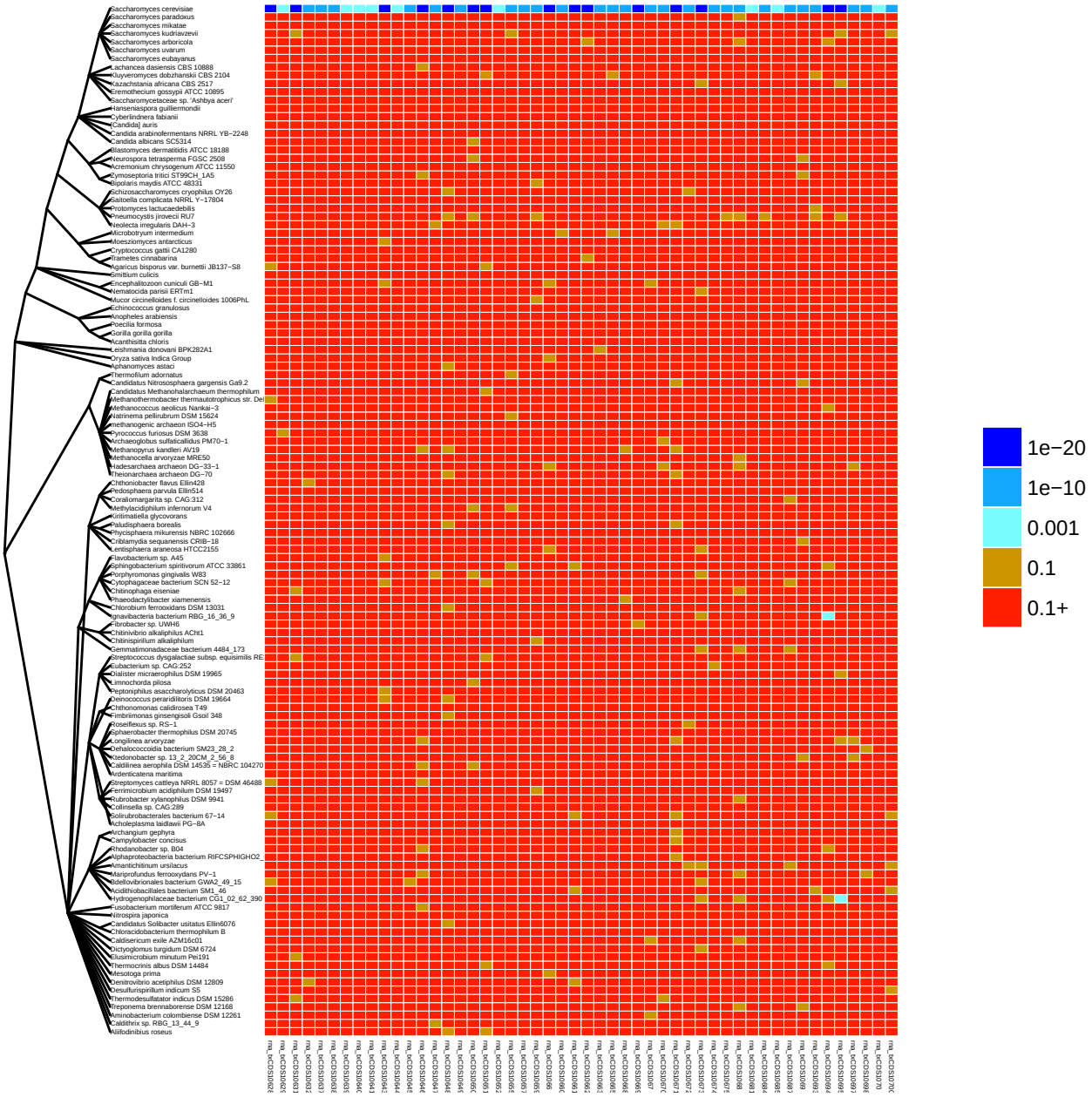

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

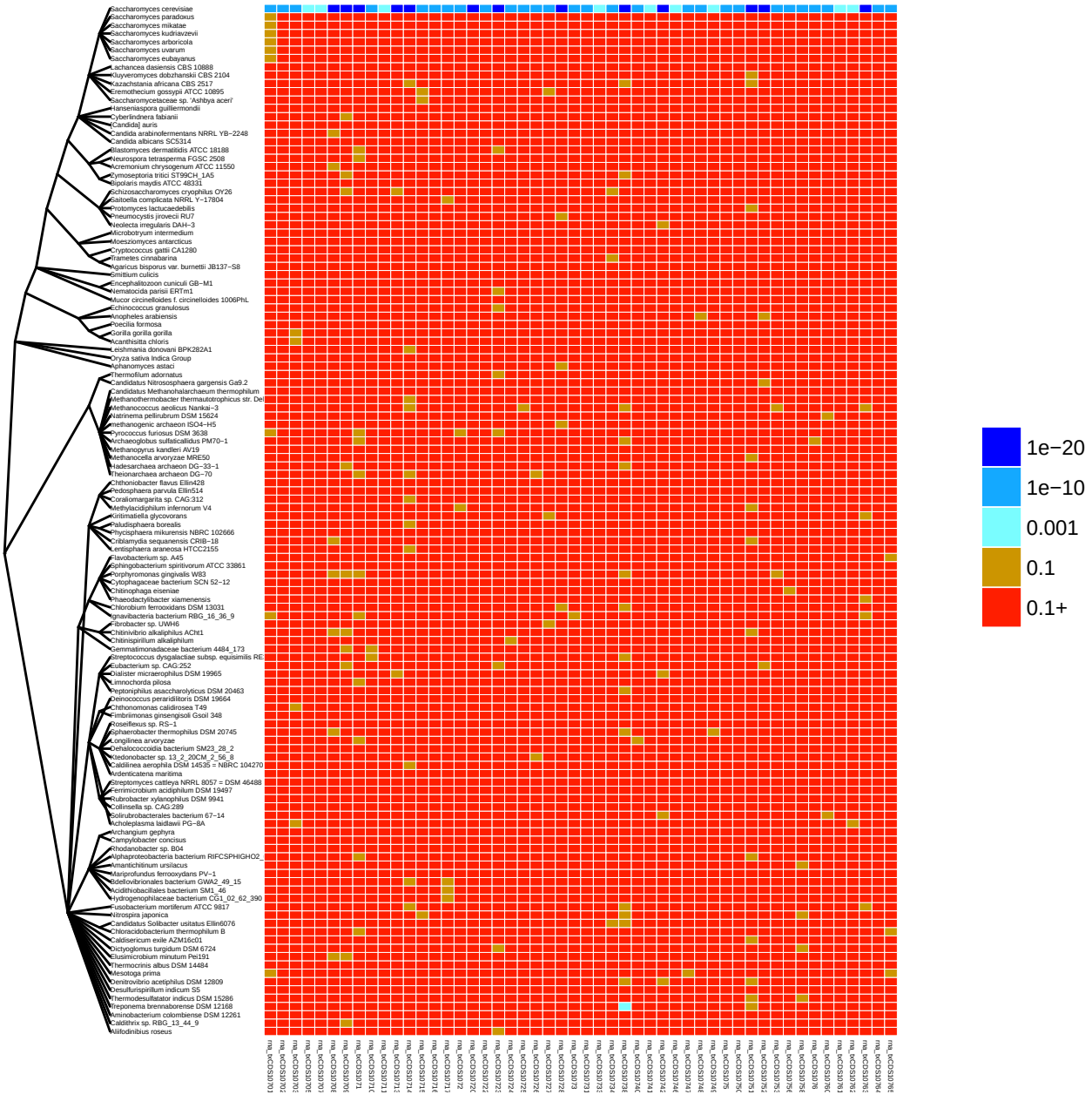

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus
1e−20
1e−10
0.001
0.1
0.1+

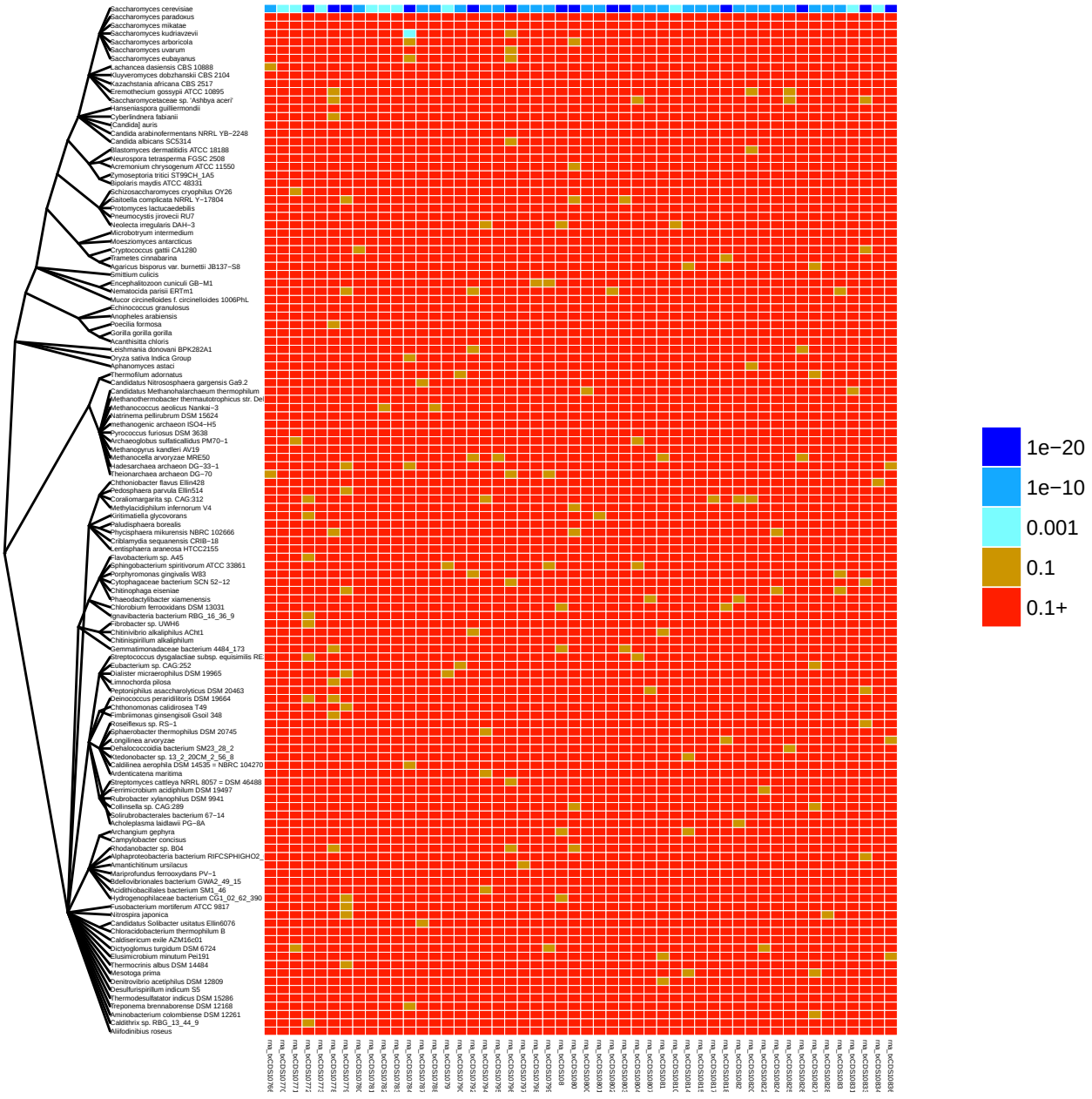

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

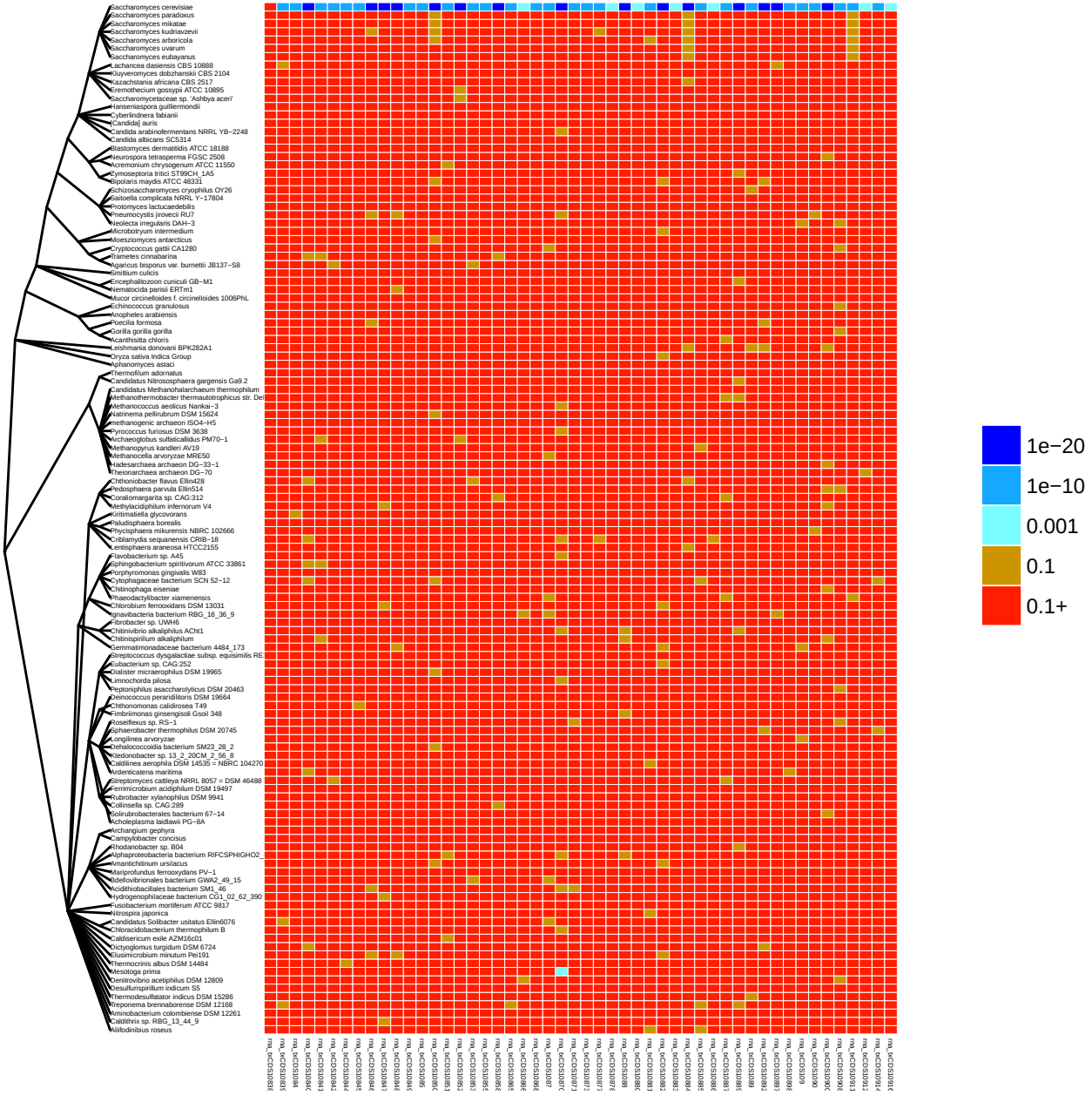

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Cuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
1e−20
1e−10
0.001
0.1
0.1+

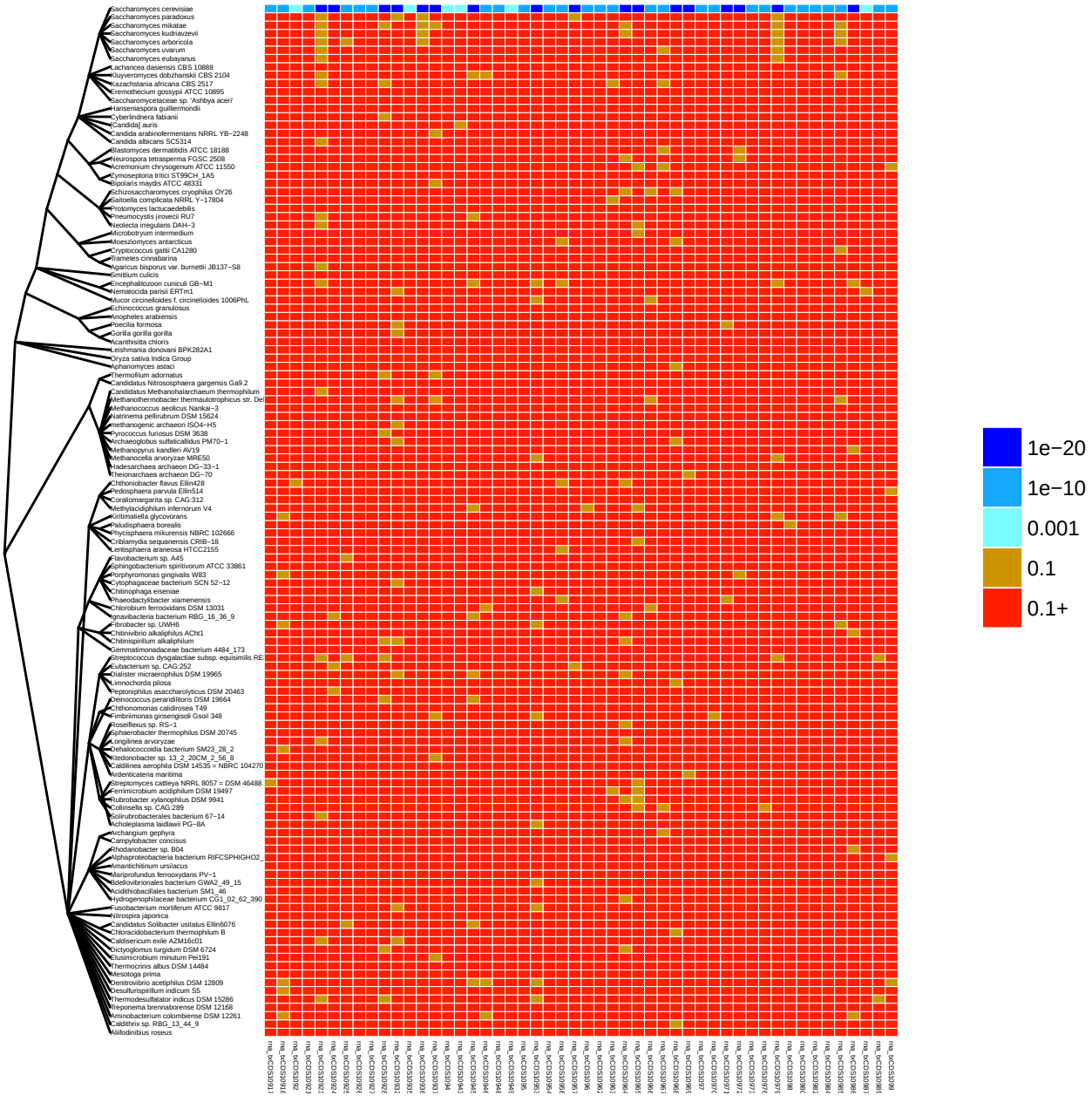

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

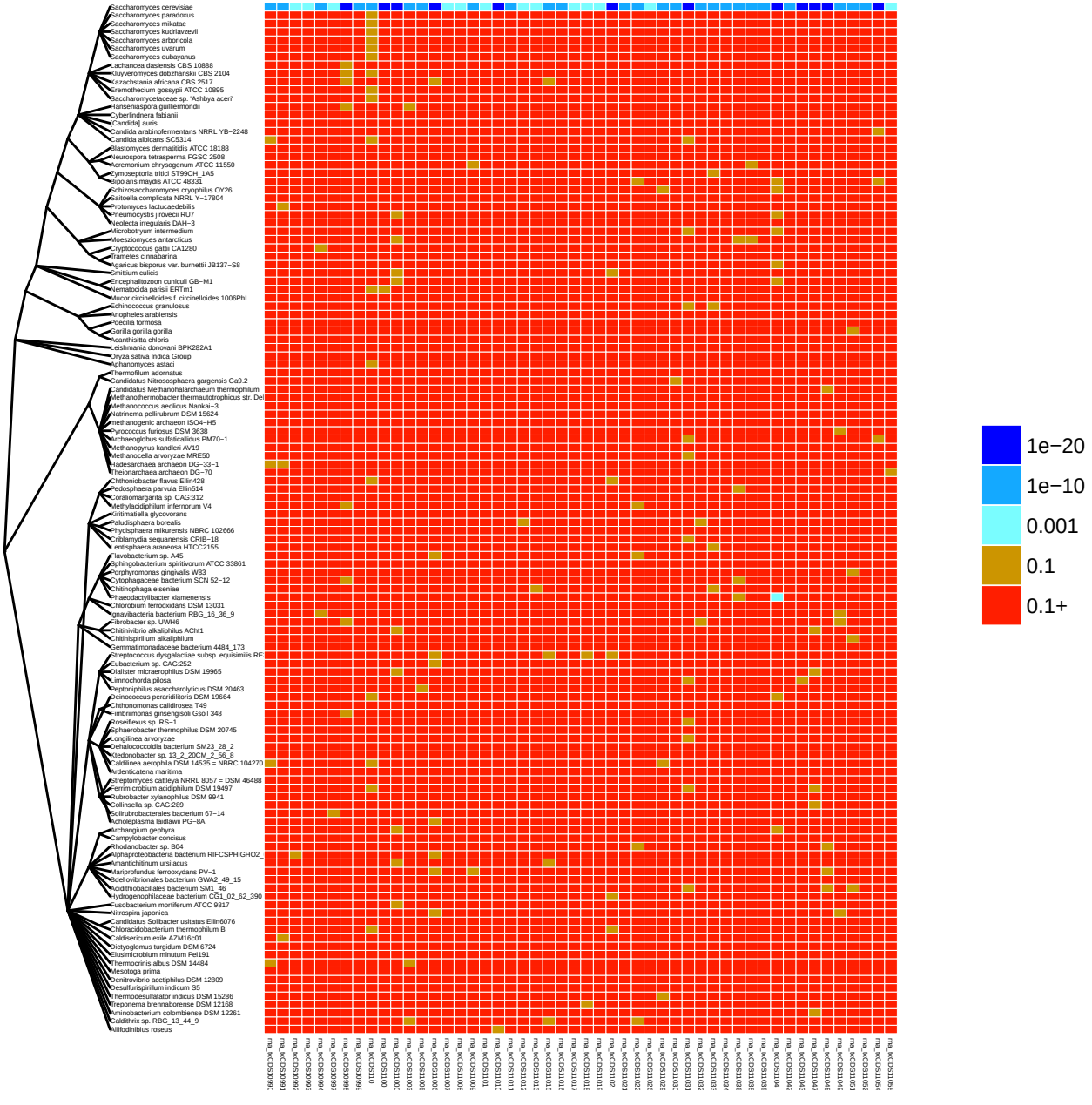

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa CBS 7966
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas Acid7b
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY1
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY3
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY13
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY14
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY15
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY16
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY17
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY18
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY19
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY20
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY21
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY22
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY23
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY24
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY25
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY26
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY27
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY28
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY29
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY30
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY31
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY32
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY33
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY34
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY35
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY36
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY37
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY38
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY39
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY40
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY41
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY42
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY43
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY44
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY45
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY46
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY47
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY48
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY49
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY50
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY51
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY52
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY53
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY54
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY55
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY56
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY57
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY58
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY59
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY60
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY61
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY62
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY63
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY64
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY65
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY66
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY67
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY68
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY69
Candidatus Nitrosotenuis Cluster 1.1 Tenuis sp. MY70
1e−20
1e−10
0.001
0.1
0.1+

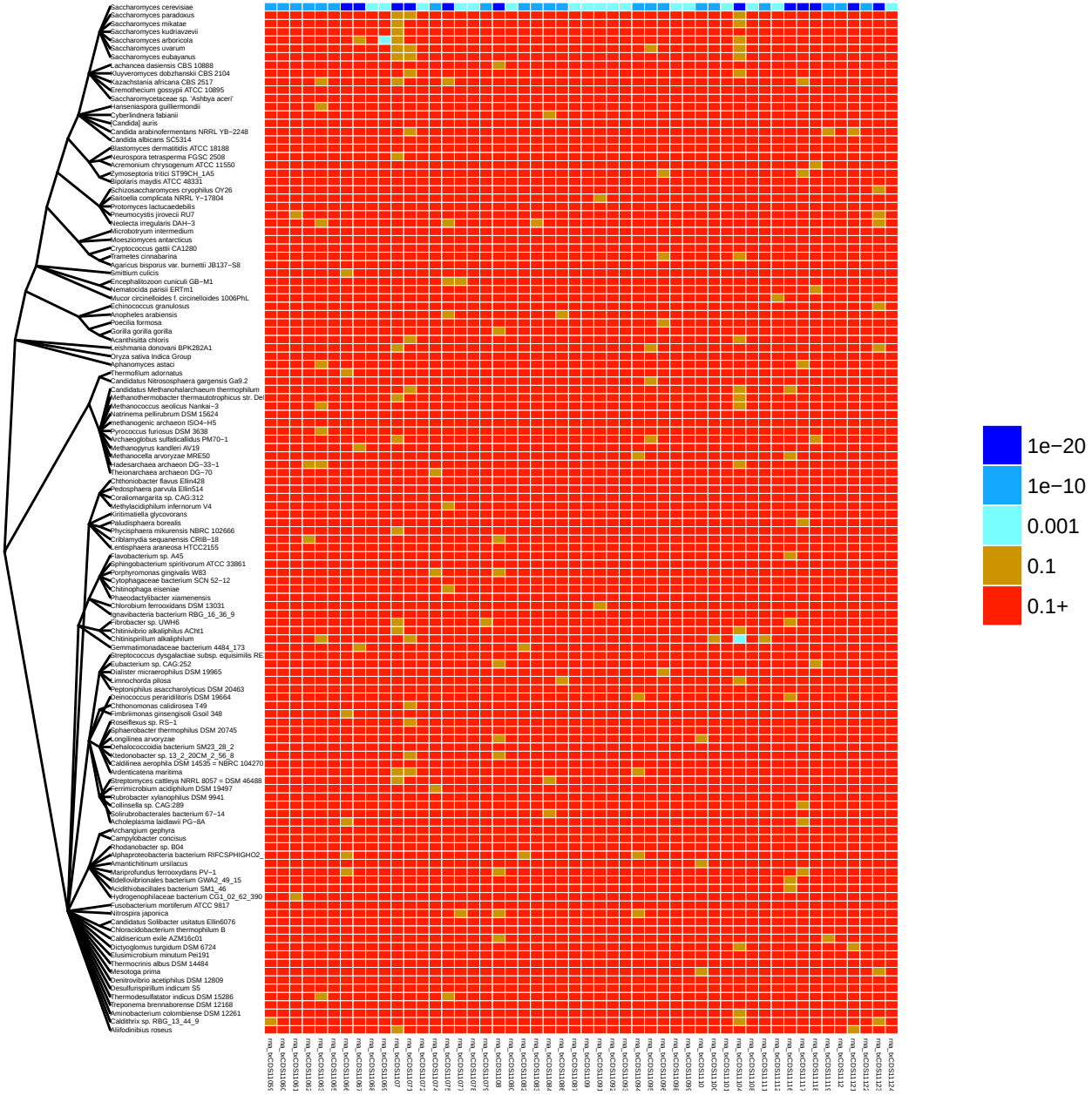

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

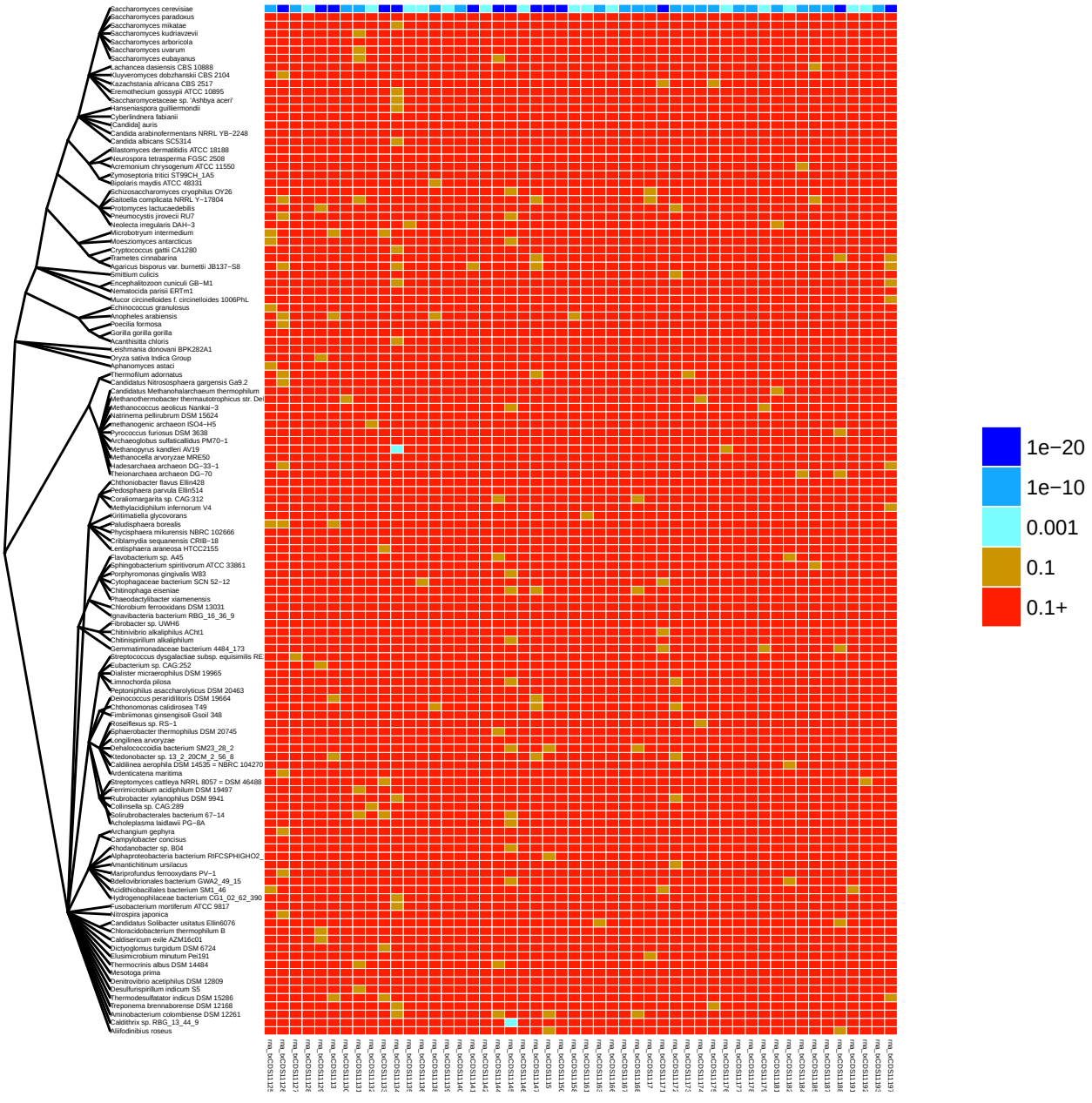

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Planctomycetes bacterium RBG_16_36_9
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kteedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

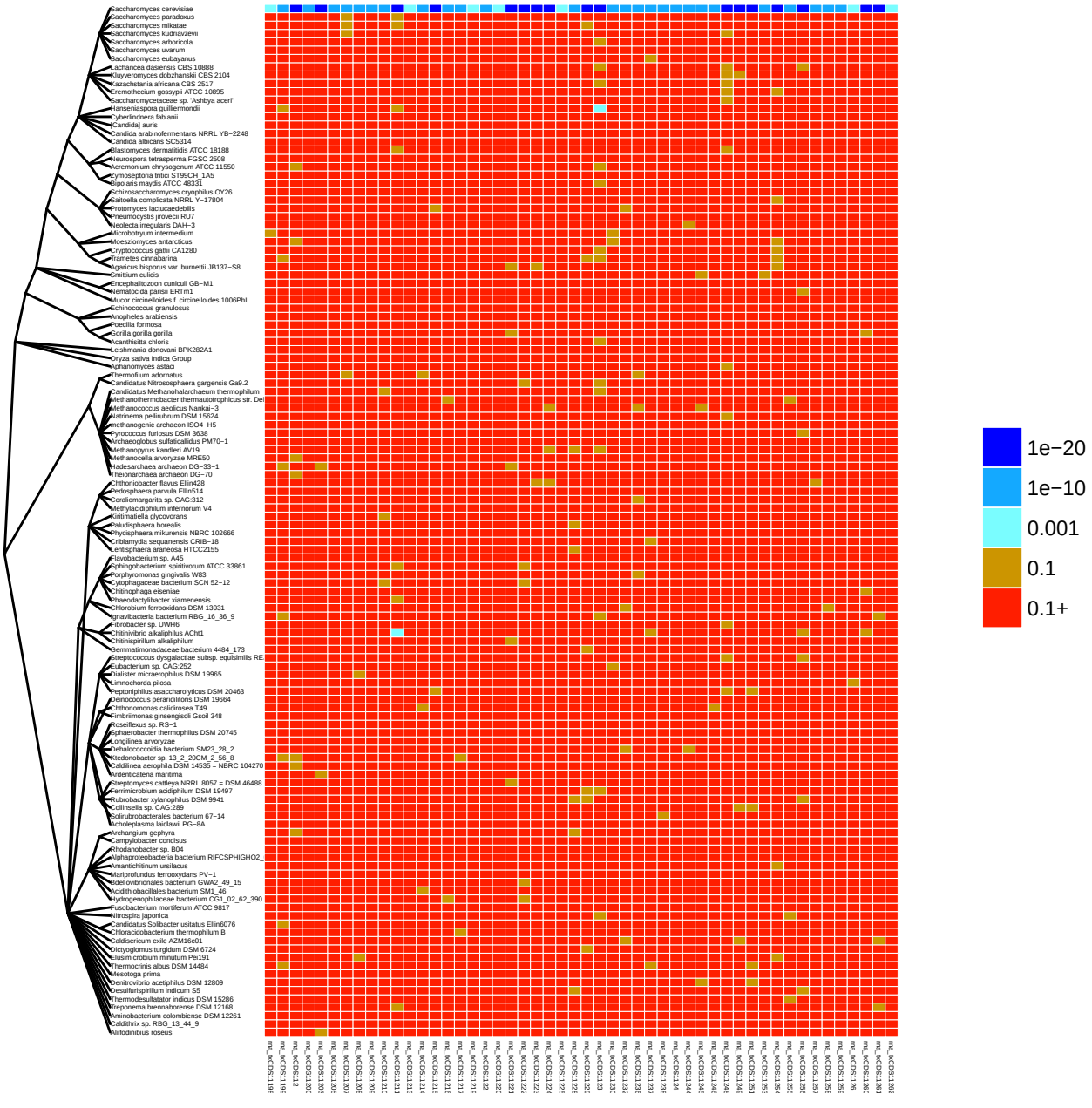

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

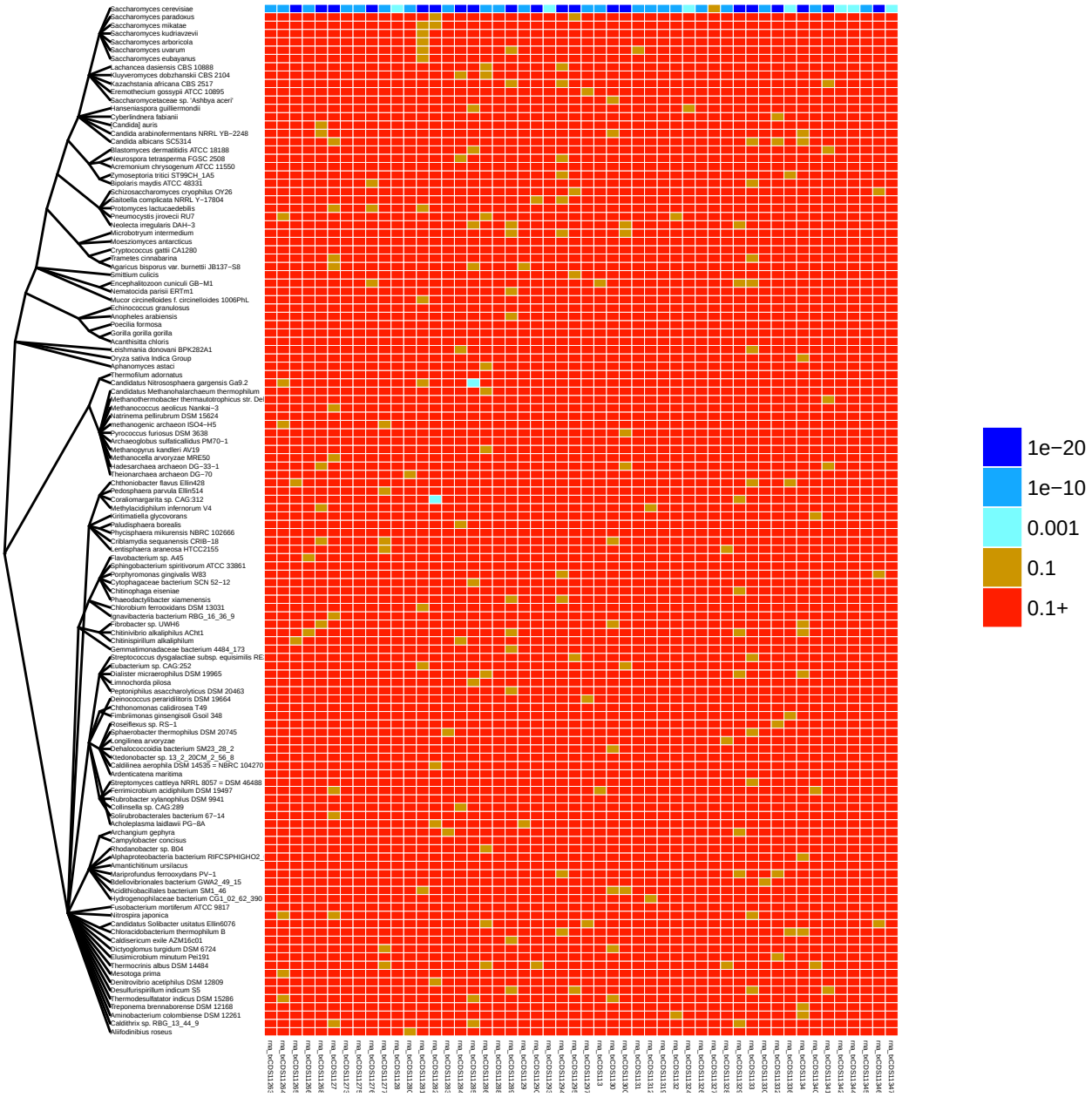

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

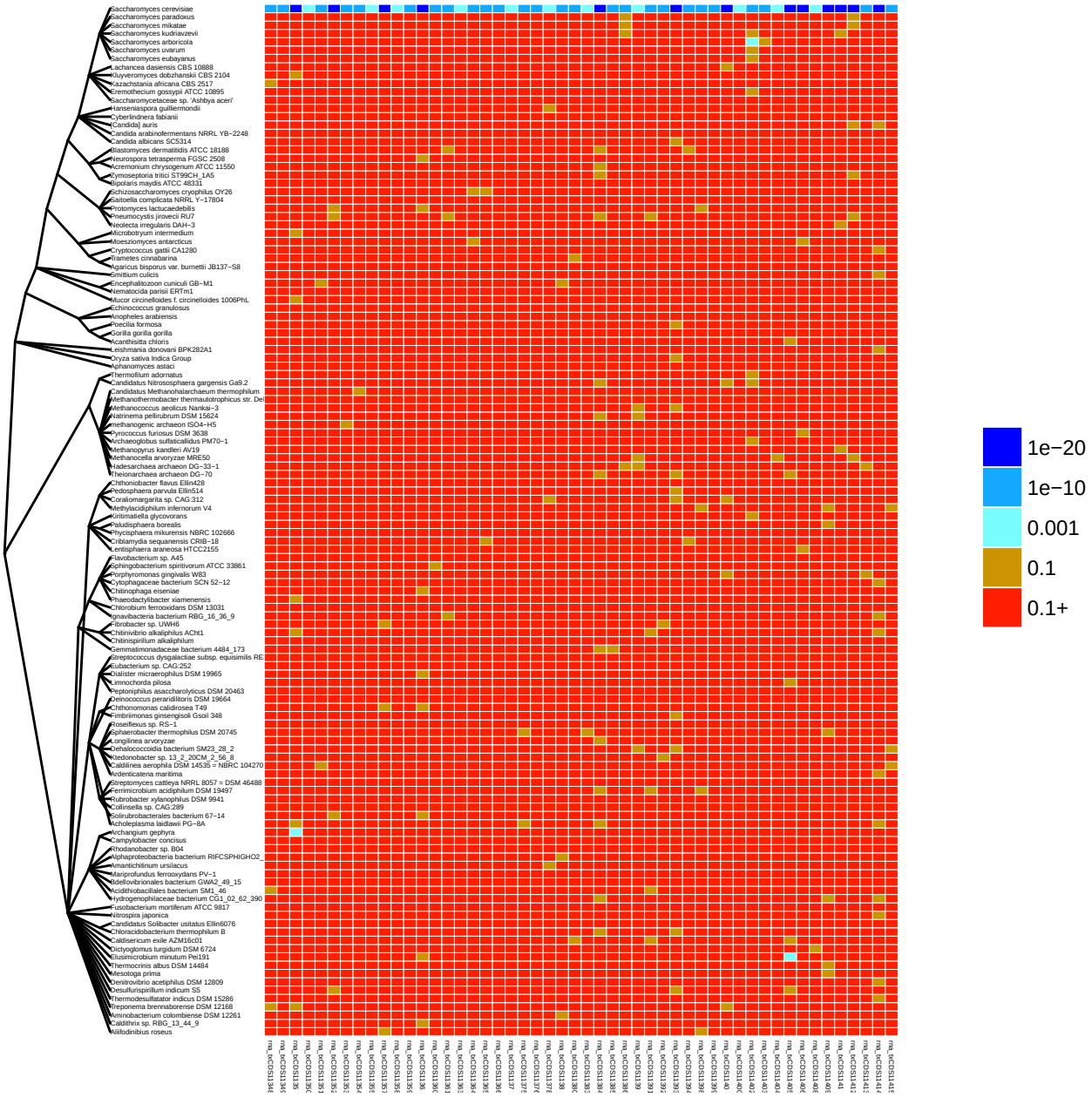

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
1e−20
1e−10
0.001
0.1
0.1+

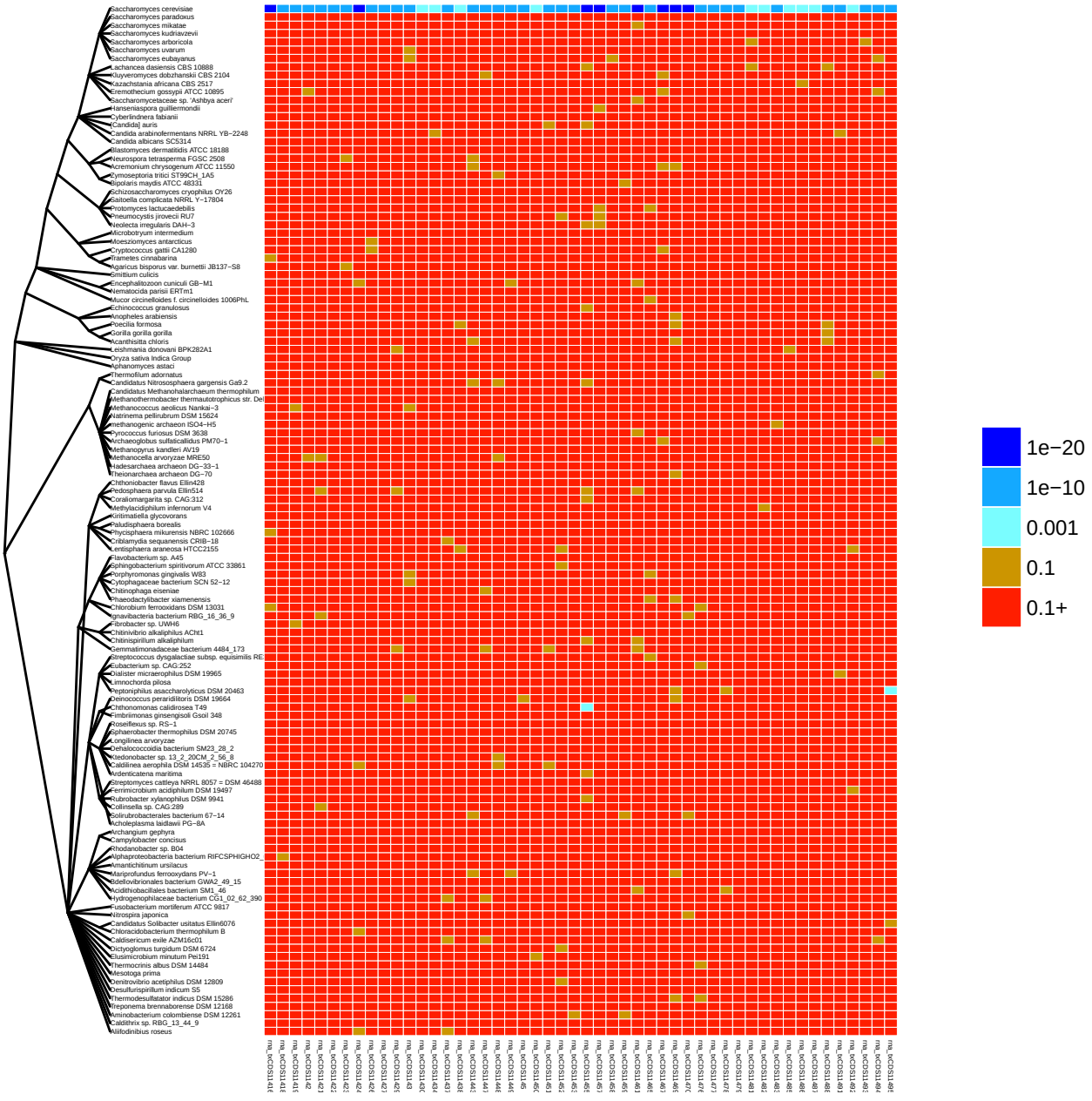

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
1e−20
1e−10
0.001
0.1
0.1+

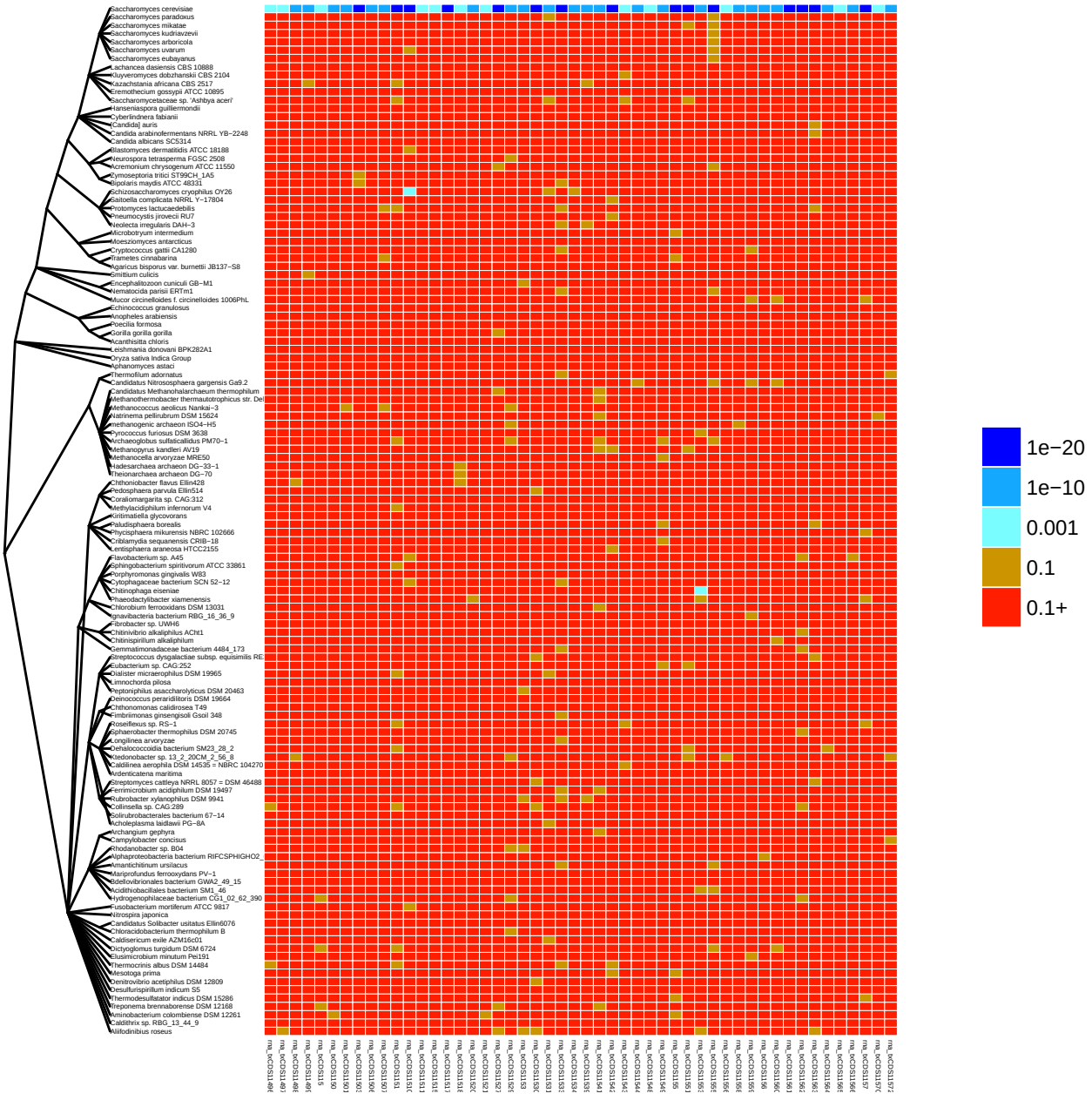

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

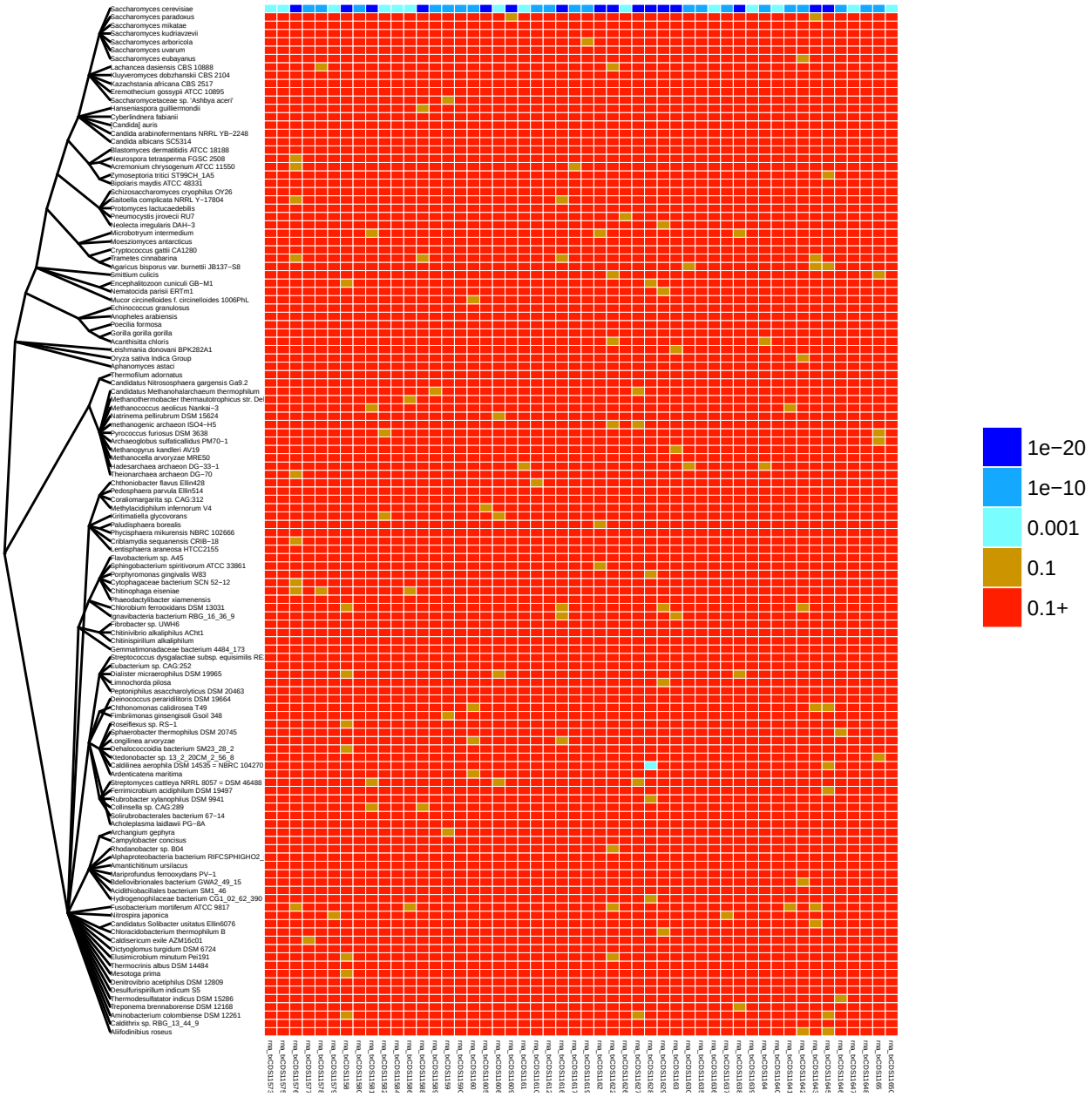

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Vitrosipira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

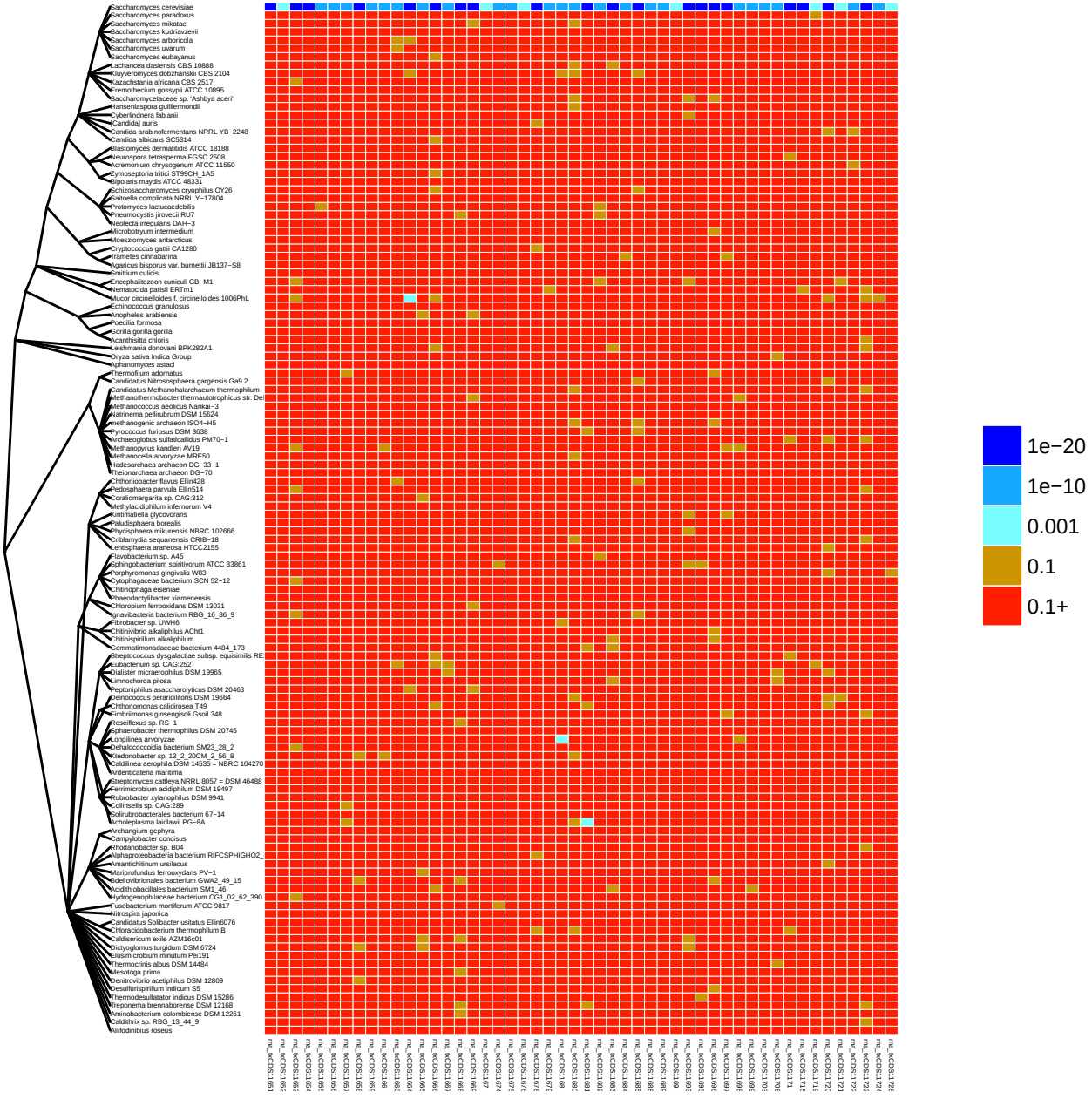

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

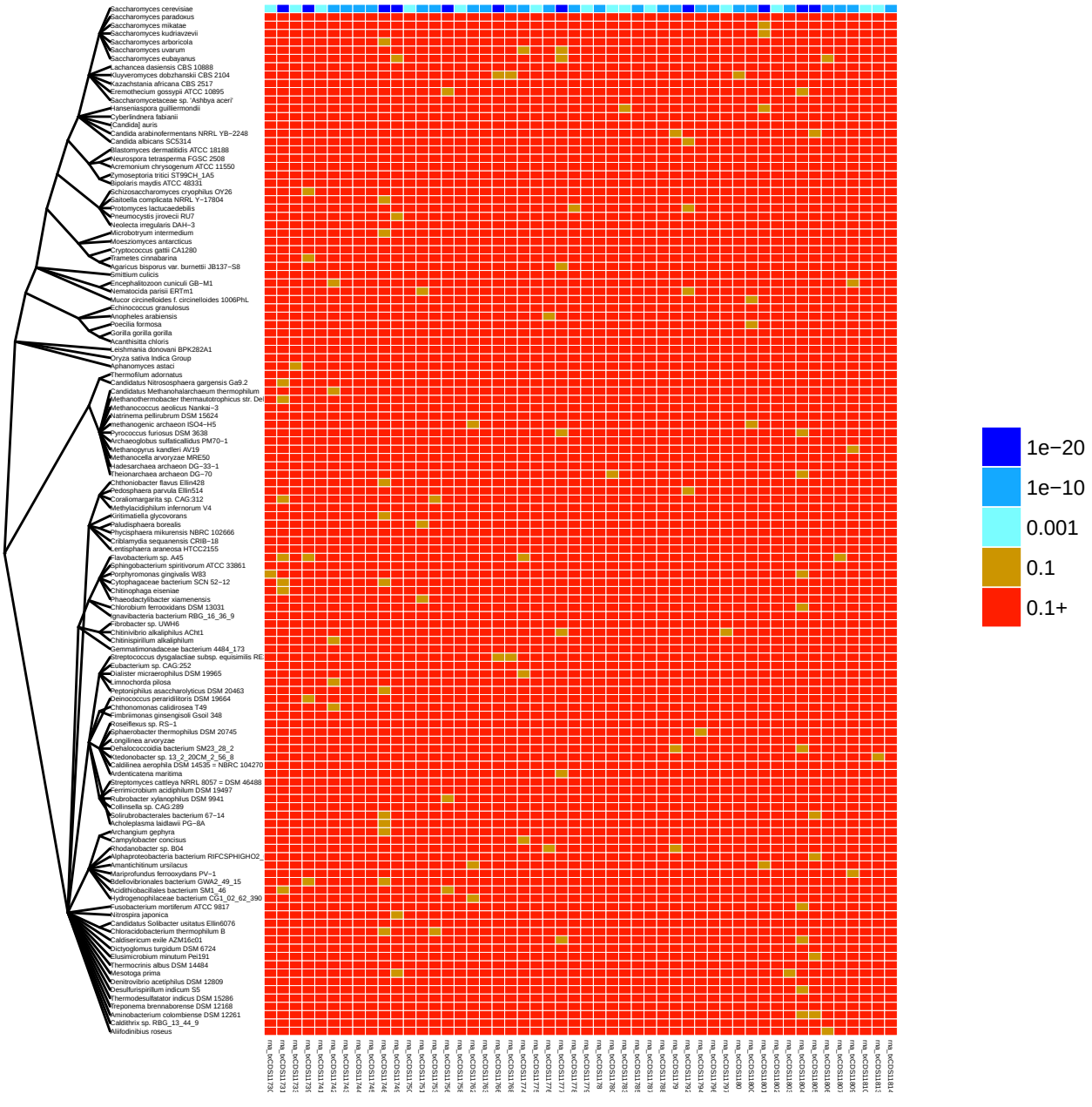

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

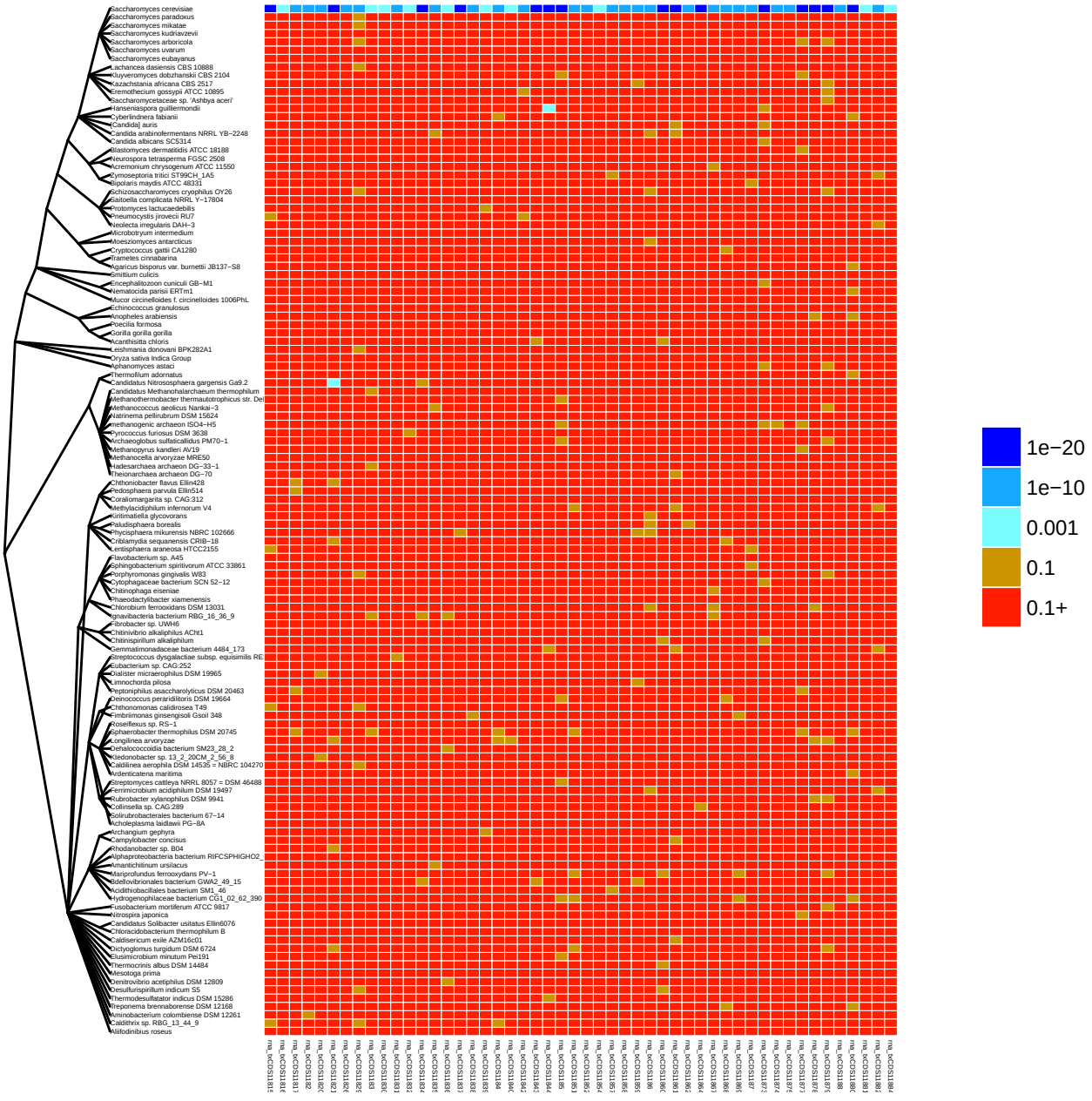

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

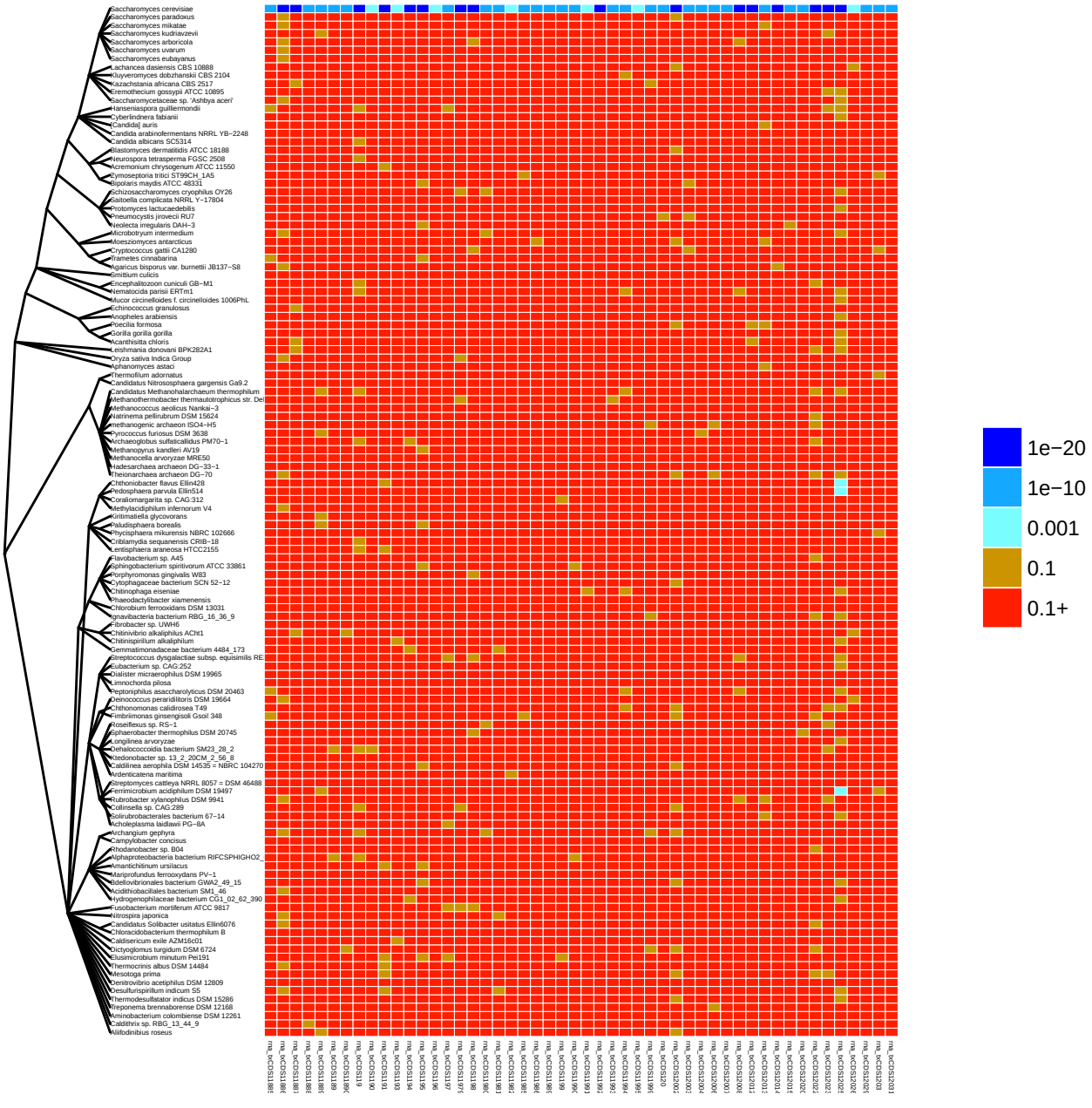

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

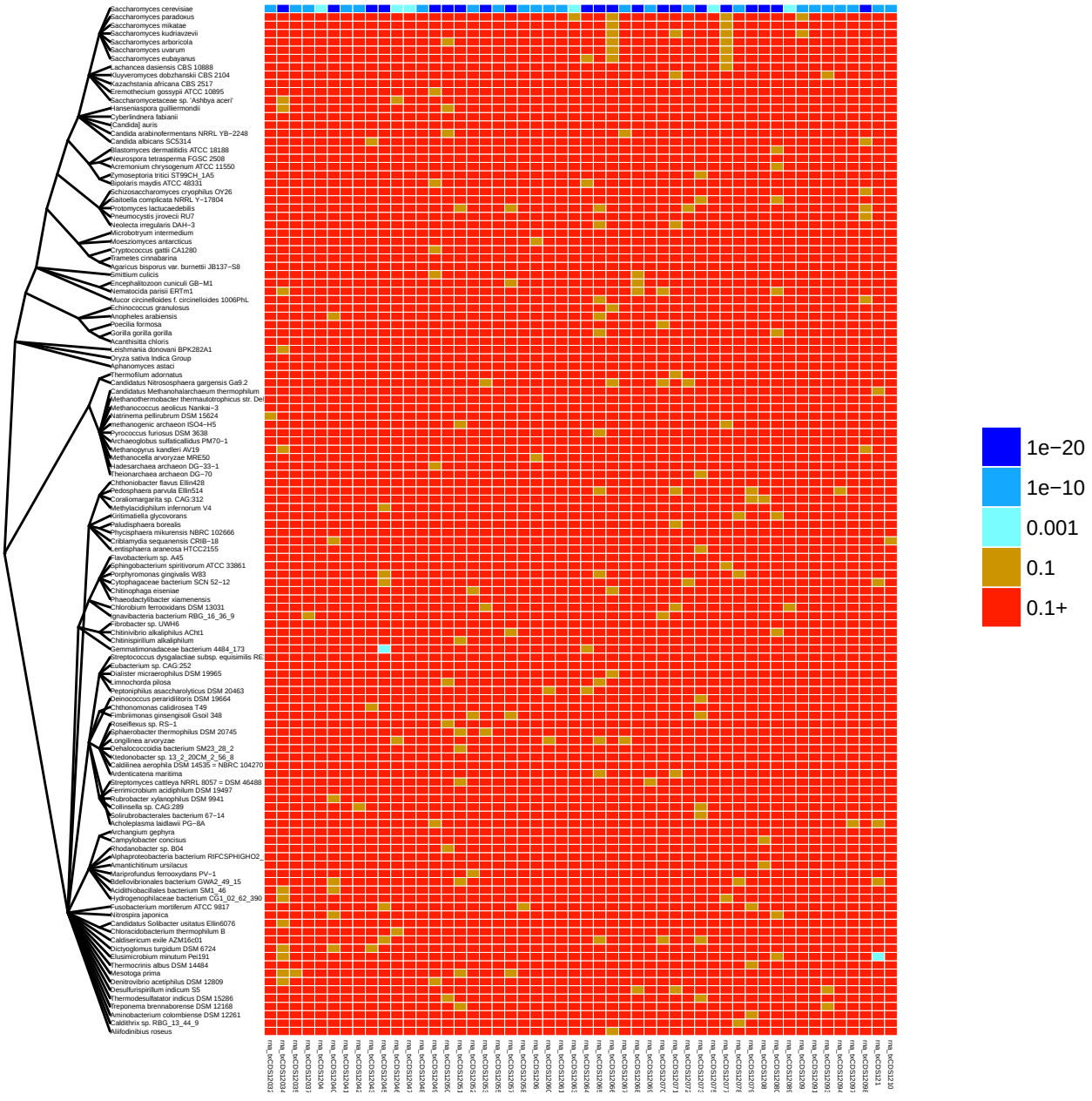

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

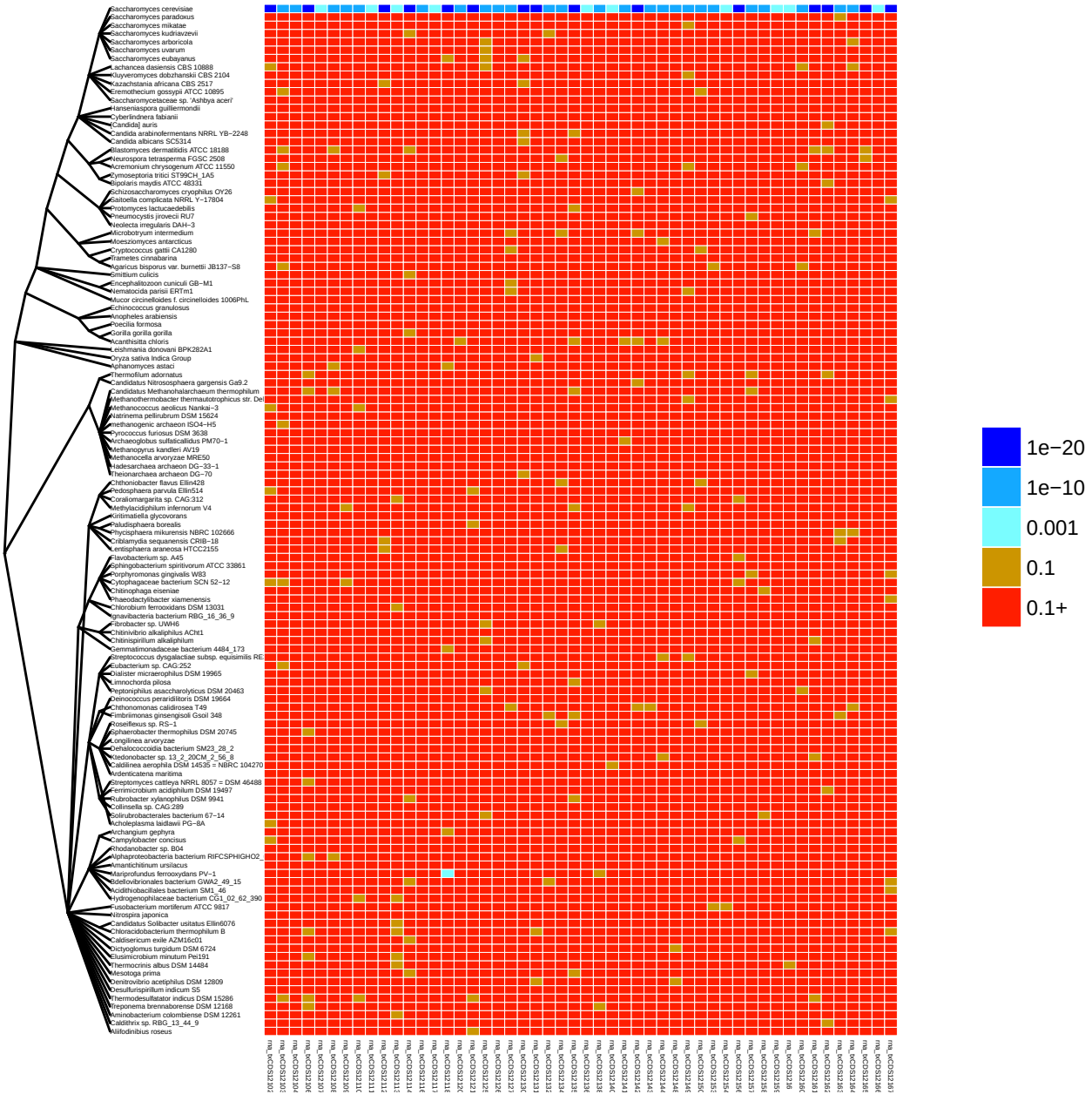

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Cuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter versatilis Ellin345
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
1e−20
1e−10
0.001
0.1
0.1+

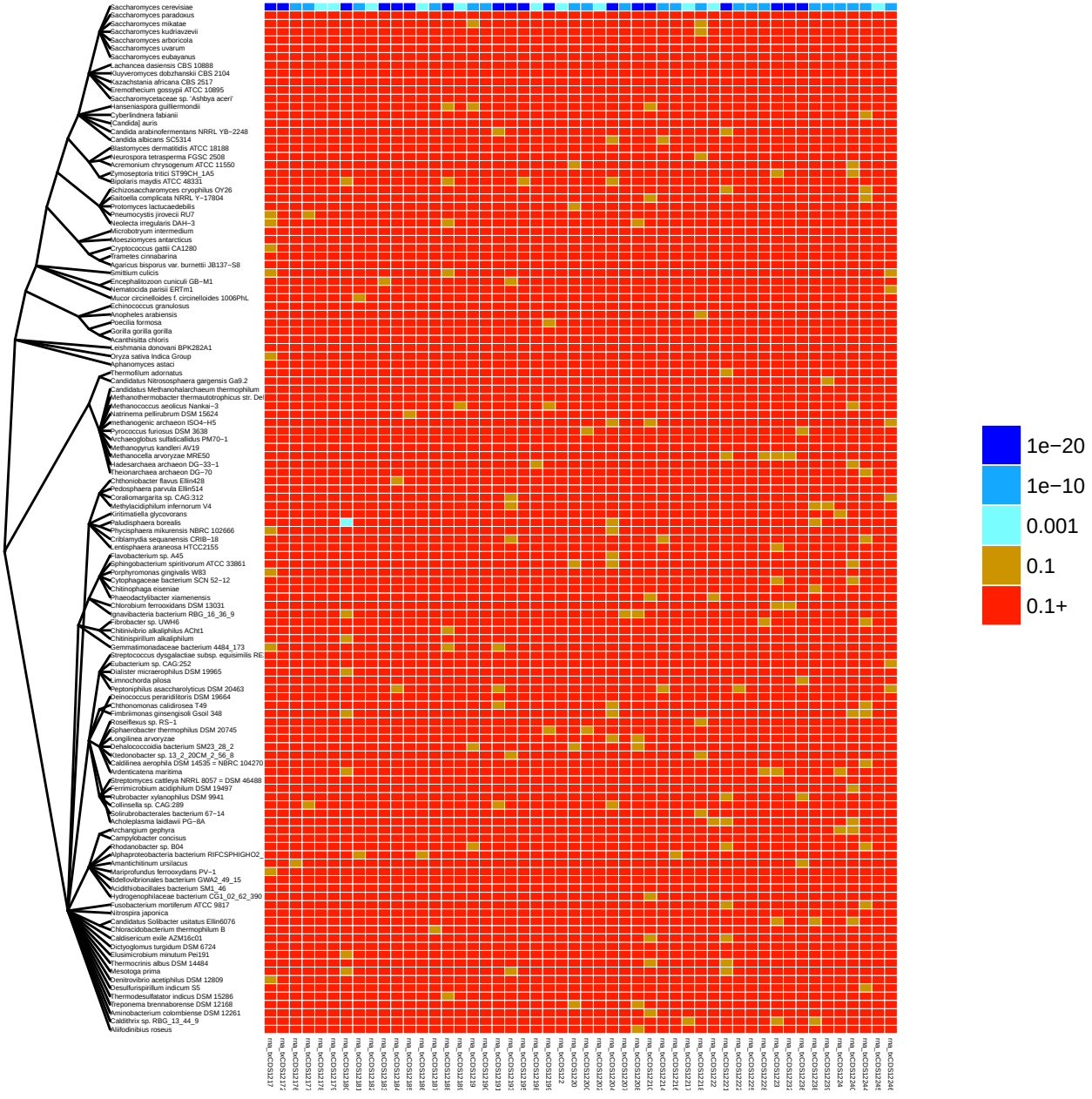

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

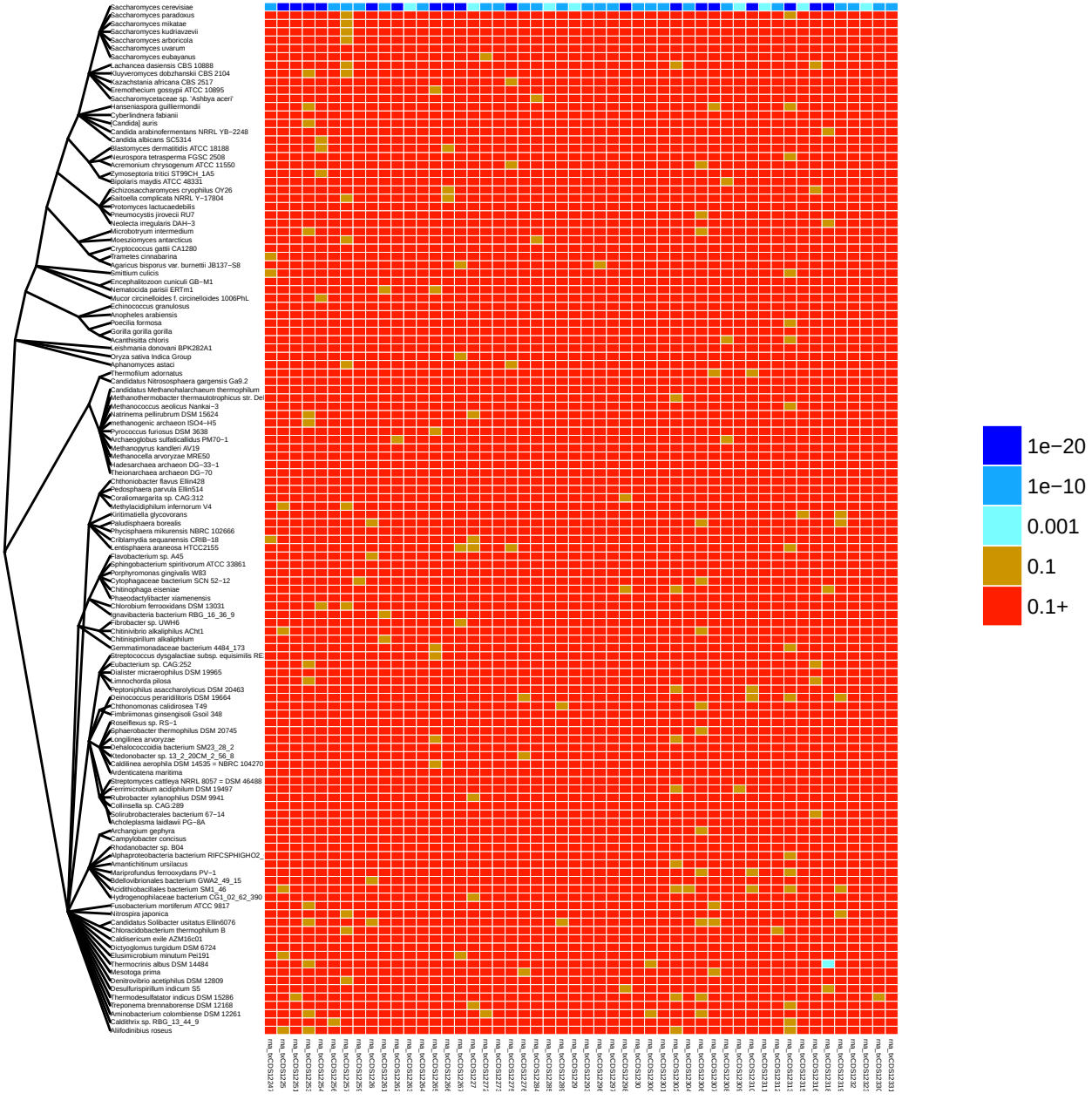

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

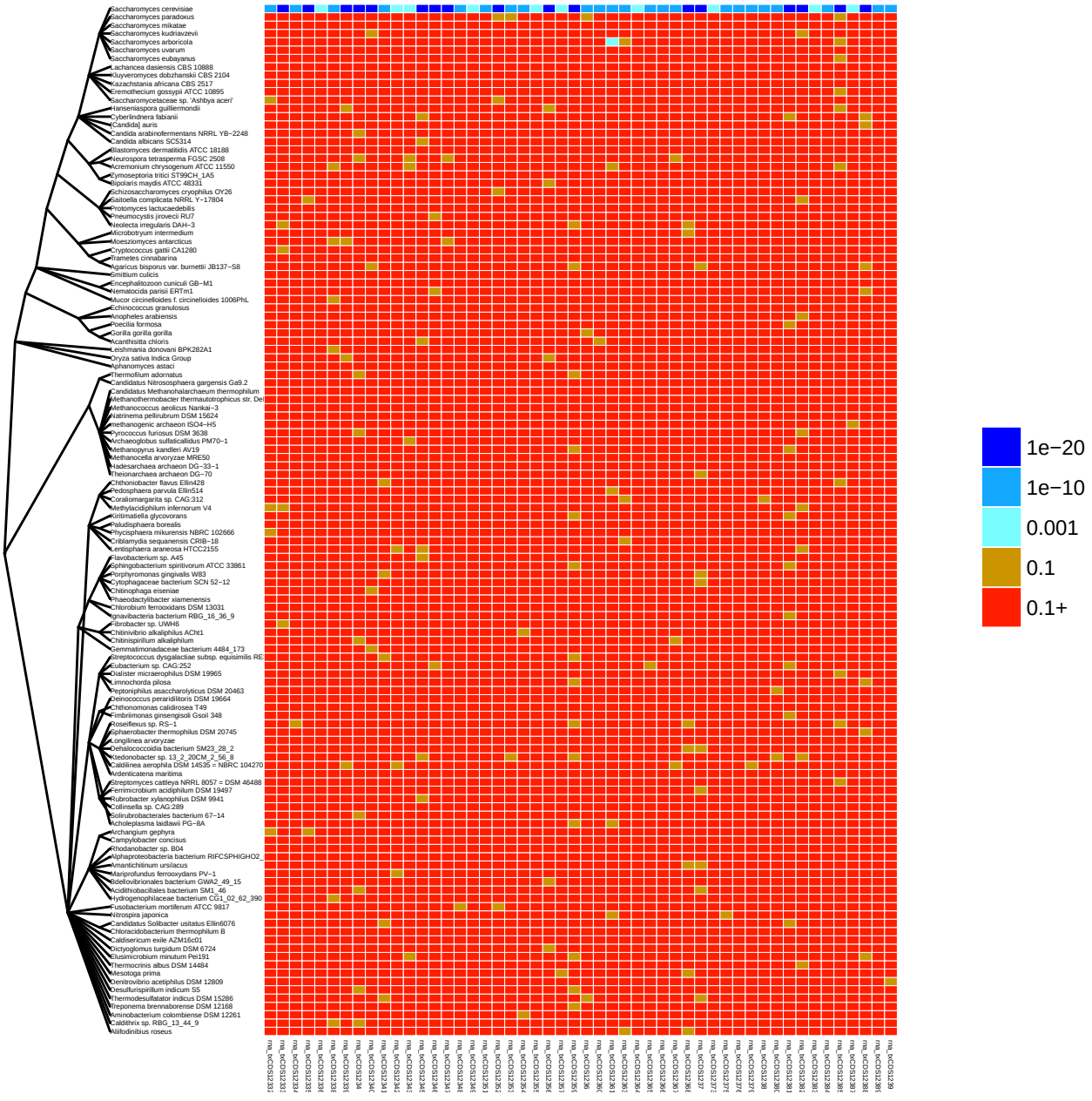

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nu. bCDS1182
Nitrosomonas nu. bCDS1183
Nitrosomonas nu. bCDS1184
Nitrosomonas nu. bCDS1185
Nitrosomonas nu. bCDS1186
Nitrosomonas nu. bCDS1187
Nitrosomonas nu. bCDS1188
Nitrosomonas nu. bCDS1189
Nitrosomonas nu. bCDS1190
Nitrosomonas nu. bCDS1191
Nitrosomonas nu. bCDS1192
Nitrosomonas nu. bCDS1193
Nitrosomonas nu. bCDS1194
Nitrosomonas nu. bCDS1195
Nitrosomonas nu. bCDS1196
Nitrosomonas nu. bCDS1197
Nitrosomonas nu. bCDS1198
Nitrosomonas nu. bCDS1199
Nitrosomonas nu. bCDS1200
Nitrosomonas nu. bCDS1201
Nitrosomonas nu. bCDS1202
Nitrosomonas nu. bCDS1203
Nitrosomonas nu. bCDS1204
Nitrosomonas nu. bCDS1205
Nitrosomonas nu. bCDS1206
Nitrosomonas nu. bCDS1207
Nitrosomonas nu. bCDS1208
Nitrosomonas nu. bCDS1209
Nitrosomonas nu. bCDS1210
Nitrosomonas nu. bCDS1211
Nitrosomonas nu. bCDS1212
Nitrosomonas nu. bCDS1213
Nitrosomonas nu. bCDS1214
Nitrosomonas nu. bCDS1215
Nitrosomonas nu. bCDS1216
Nitrosomonas nu. bCDS1217
Nitrosomonas nu. bCDS1218
Nitrosomonas nu. bCDS1219
Nitrosomonas nu. bCDS1220
Nitrosomonas nu. bCDS1221
Nitrosomonas nu. bCDS1222
Nitrosomonas nu. bCDS1223
Nitrosomonas nu. bCDS1224
Nitrosomonas nu. bCDS1225
Nitrosomonas nu. bCDS1226
Nitrosomonas nu. bCDS1227
Nitrosomonas nu. bCDS1228
Nitrosomonas nu. bCDS1229
1e−20
1e−10
0.001
0.1
0.1+

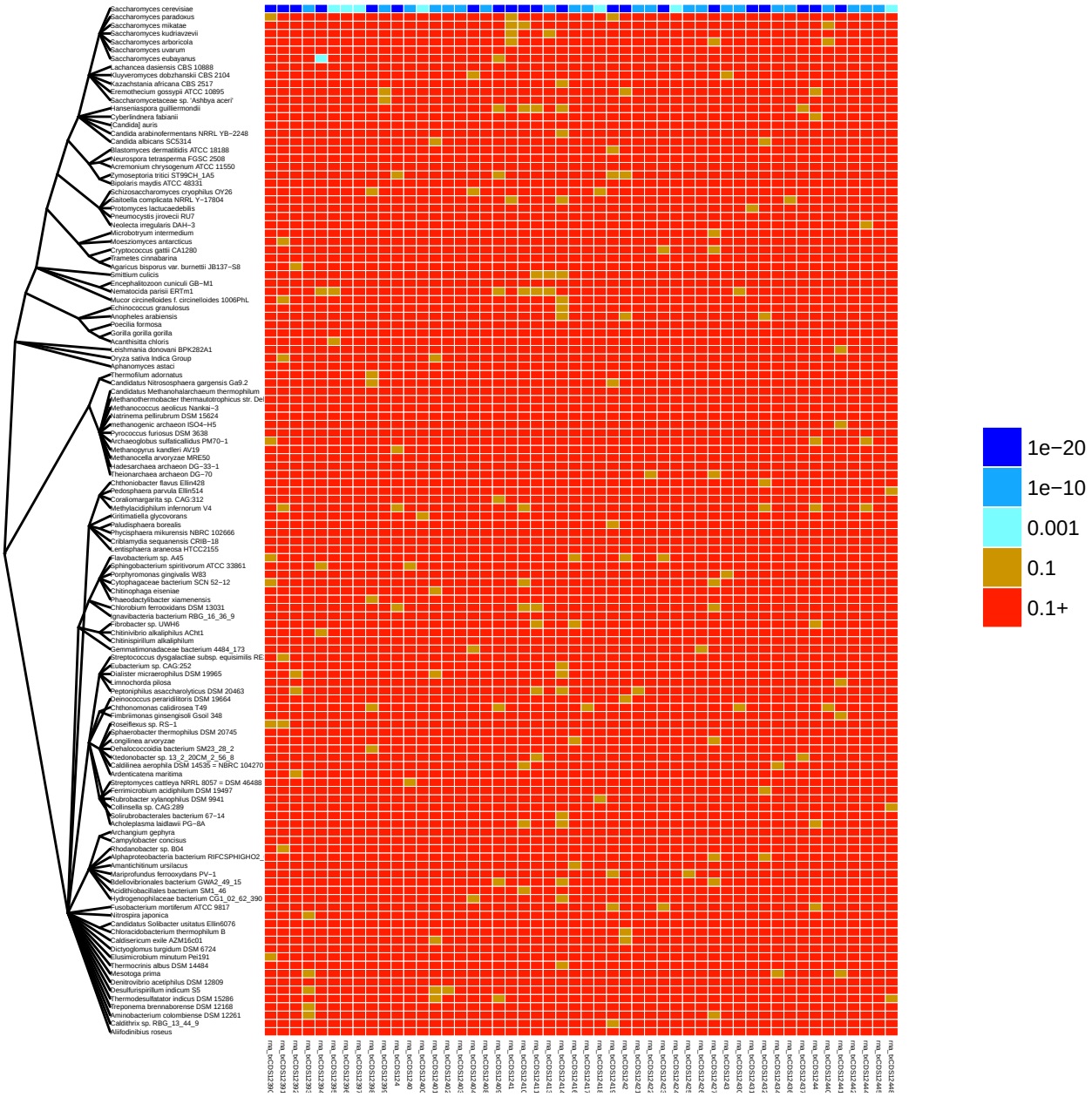

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
1e−20
1e−10
0.001
0.1
0.1+

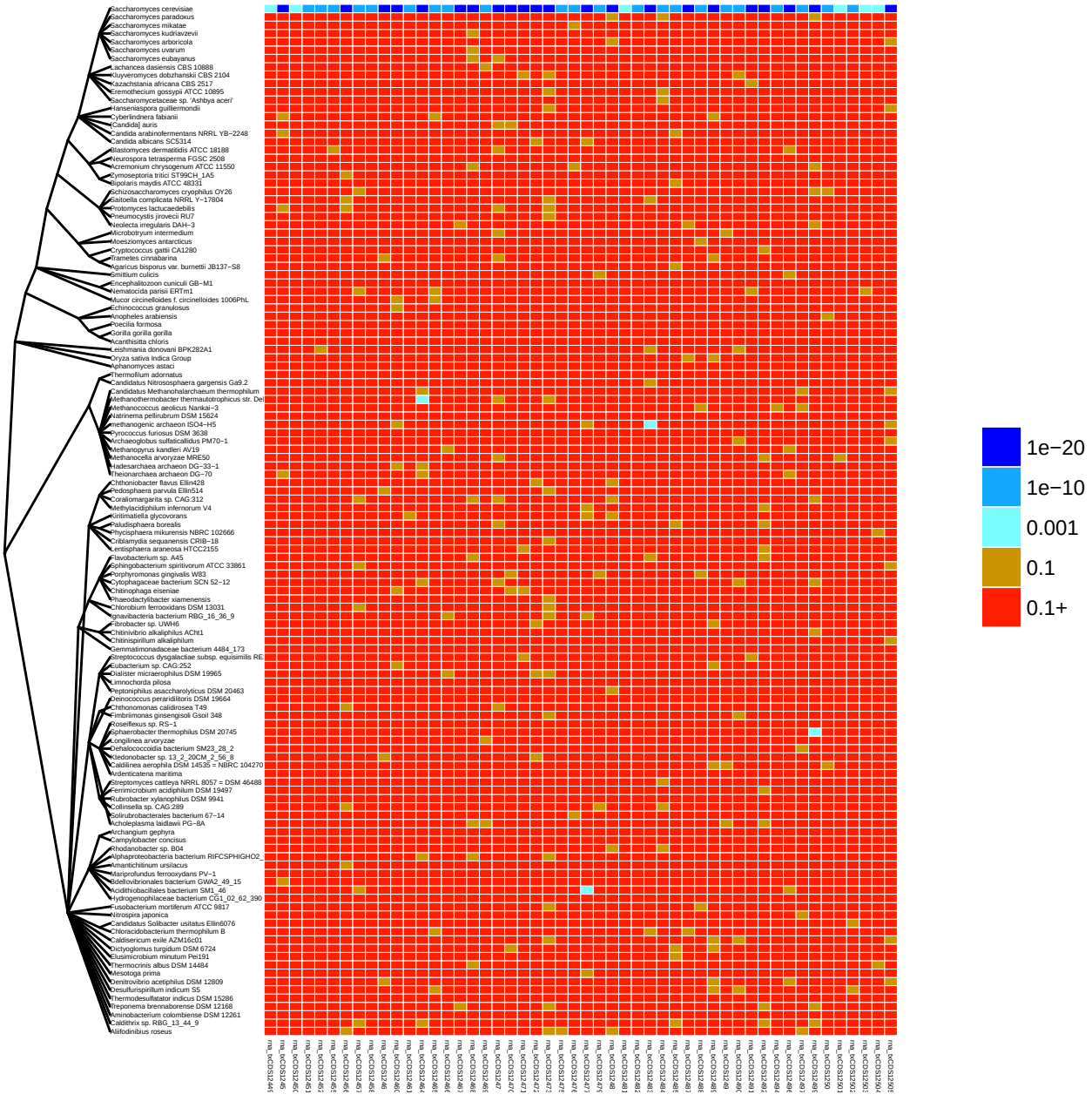

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
1e−20
1e−10
0.001
0.1
0.1+

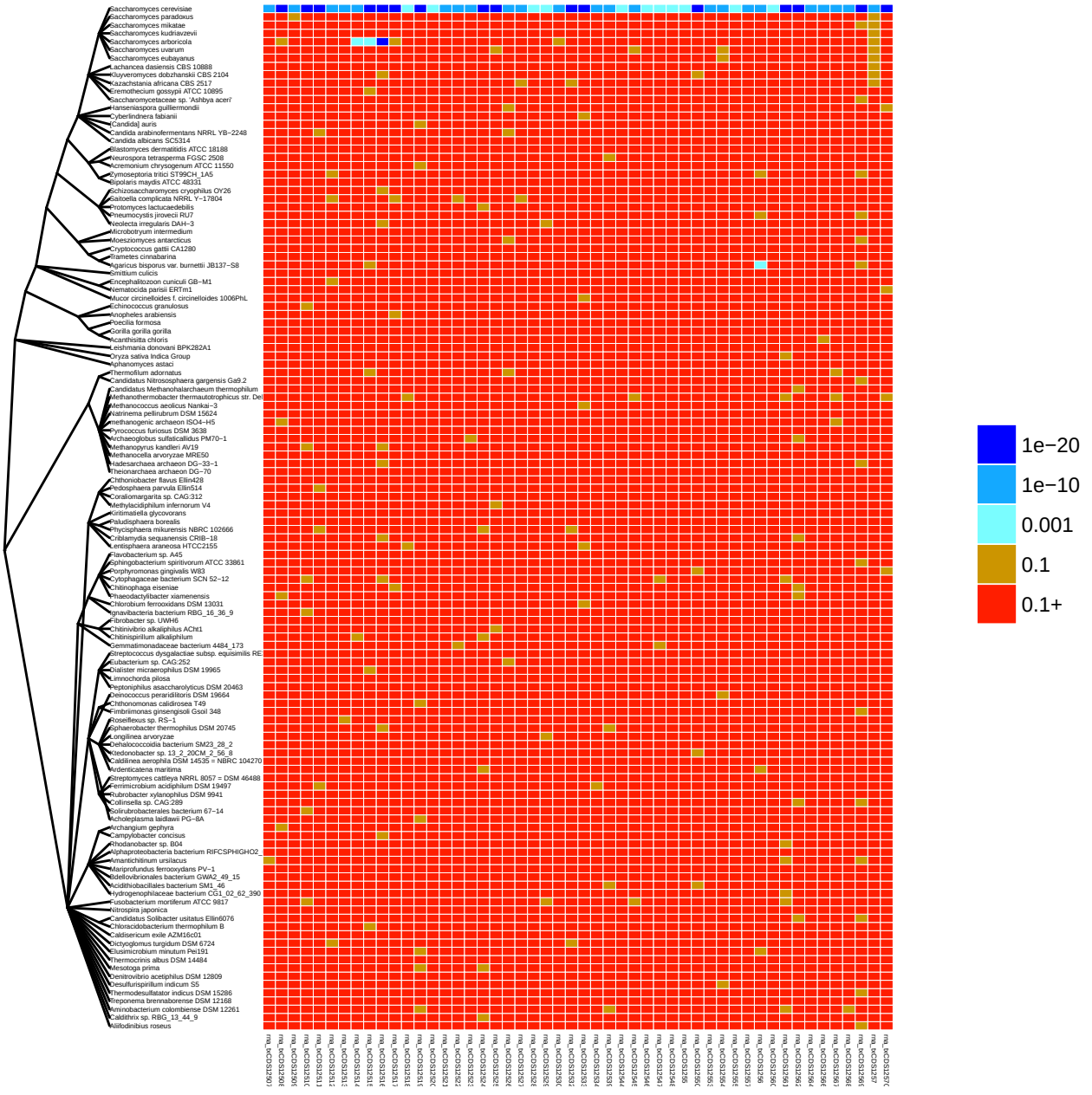

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

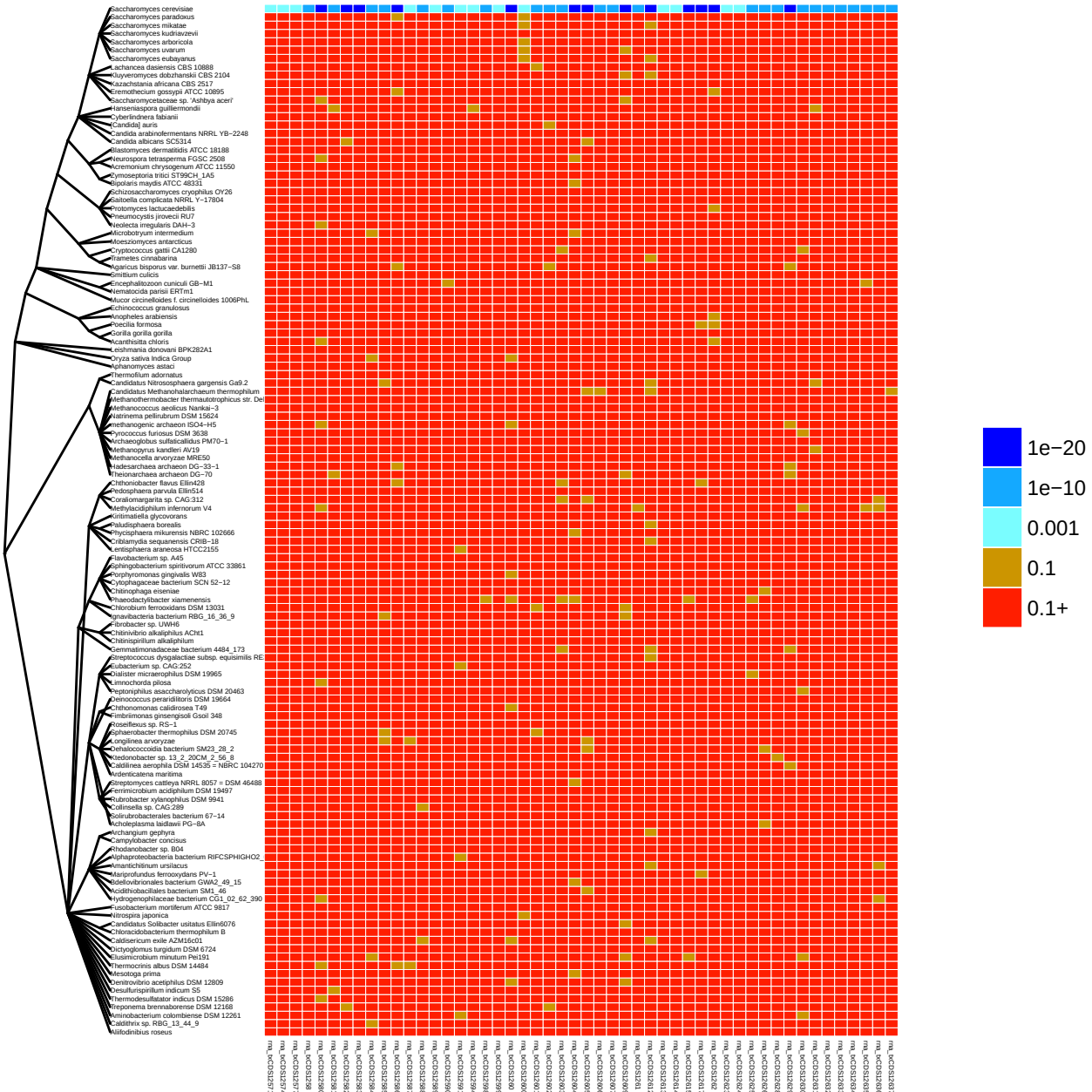

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromarganita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

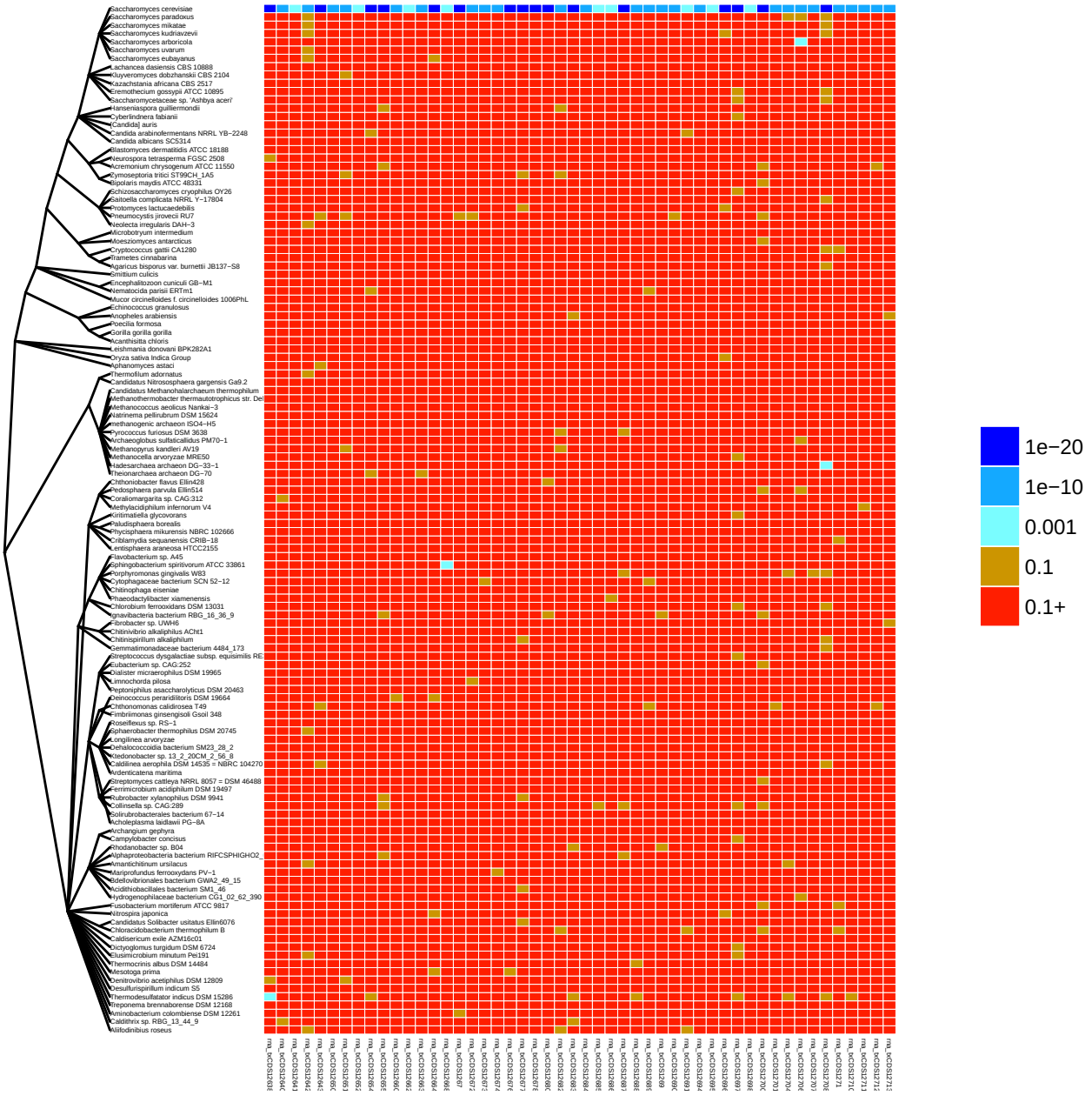

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans

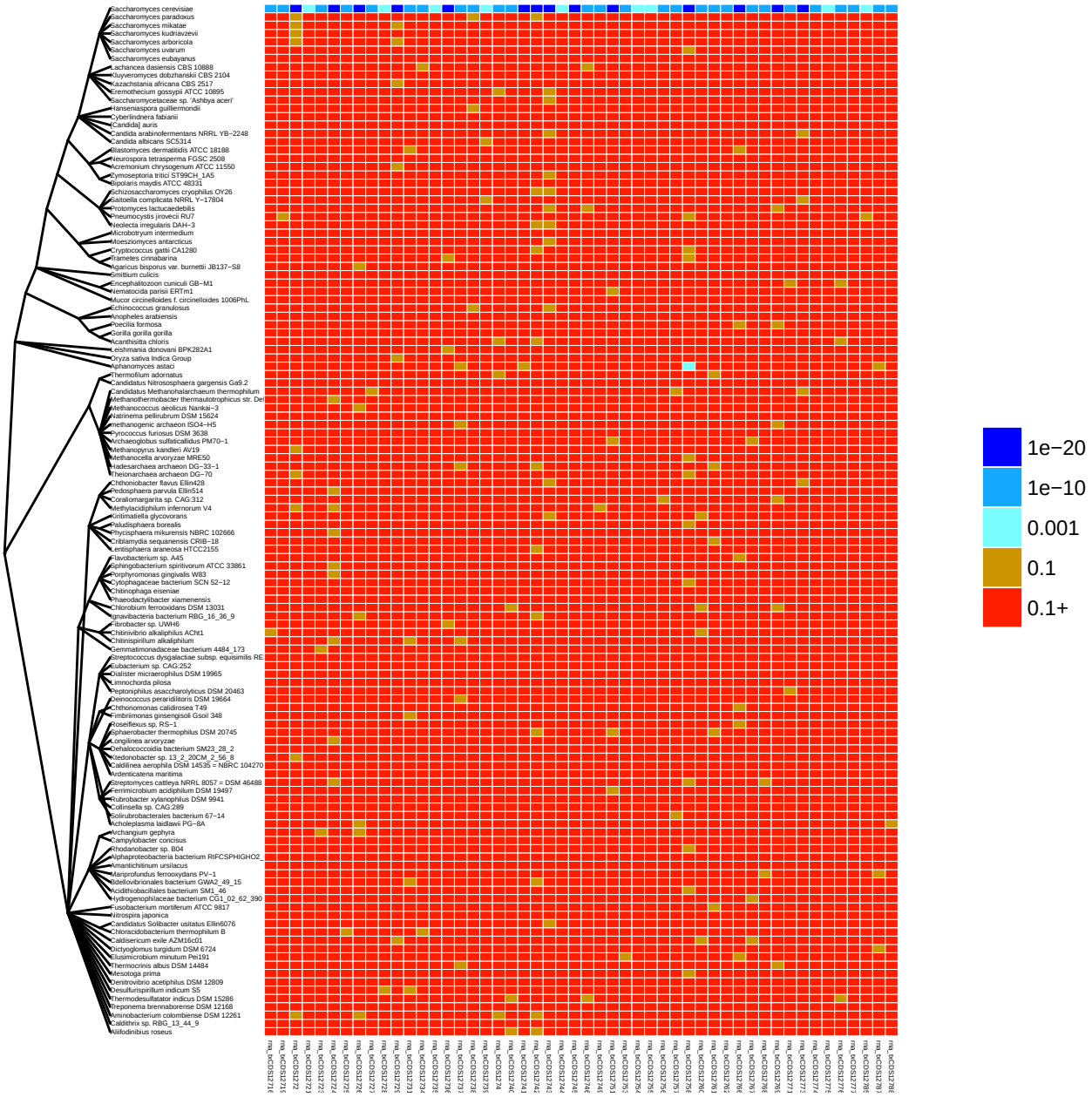

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

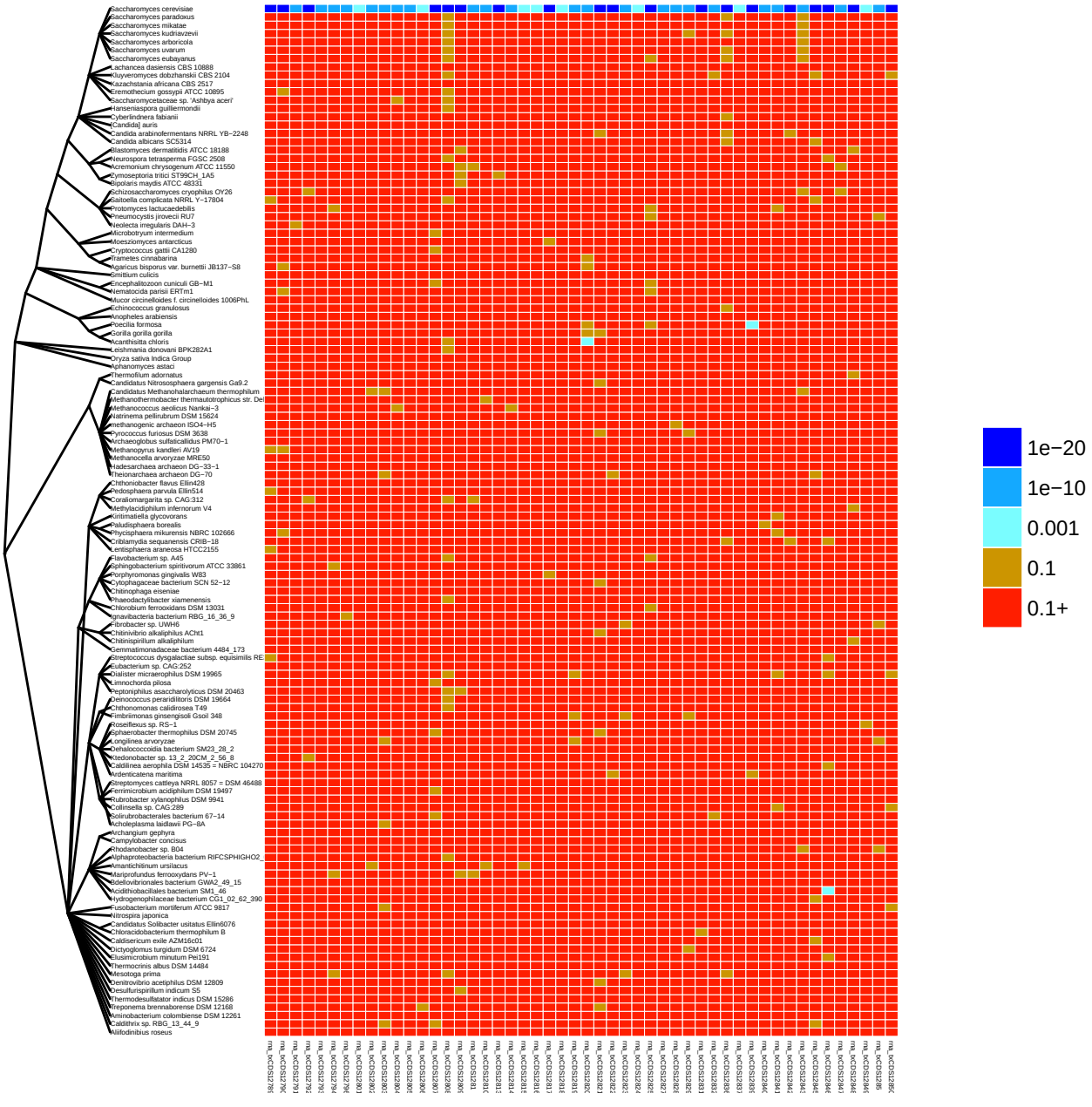

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Cuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

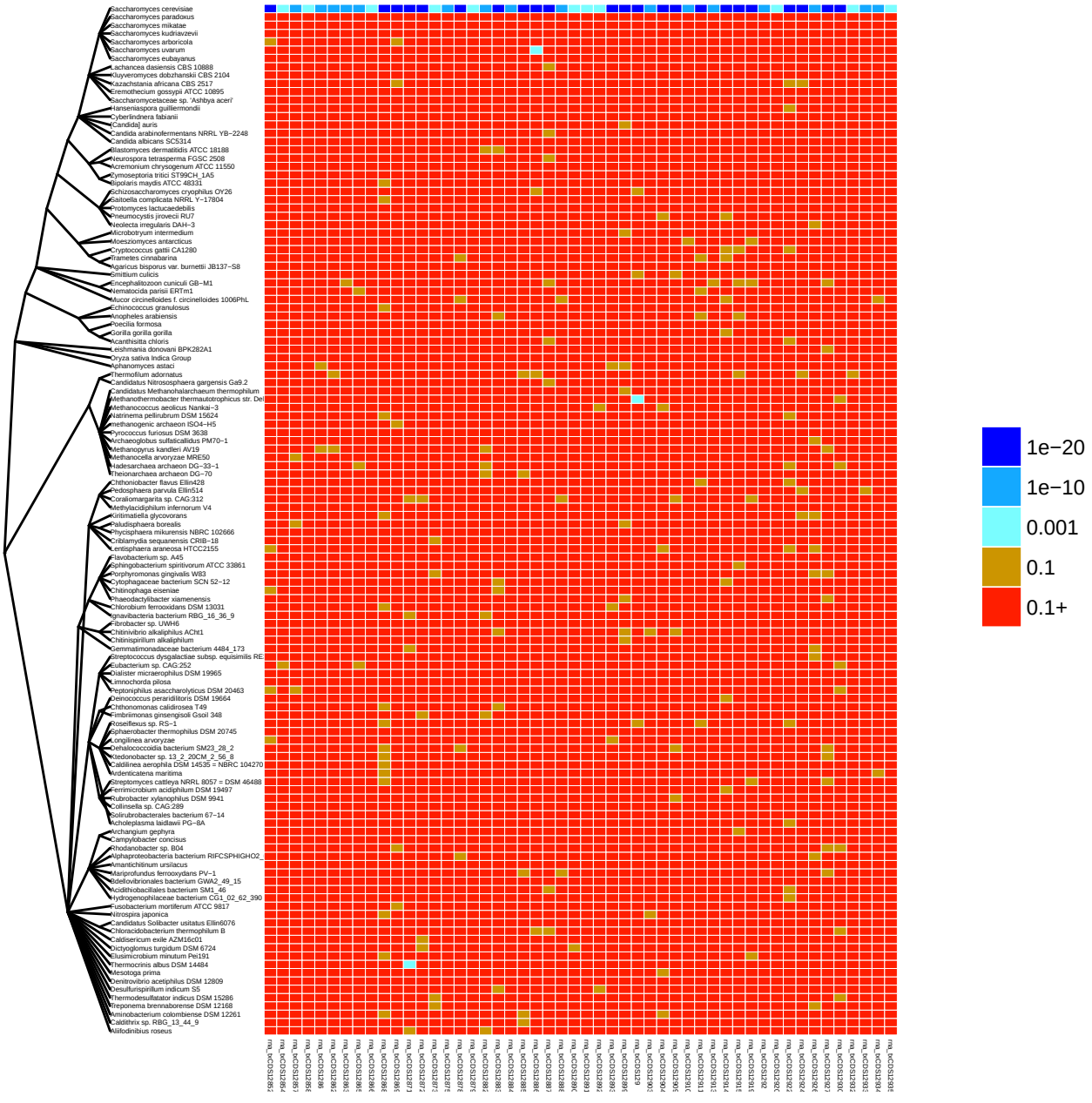

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

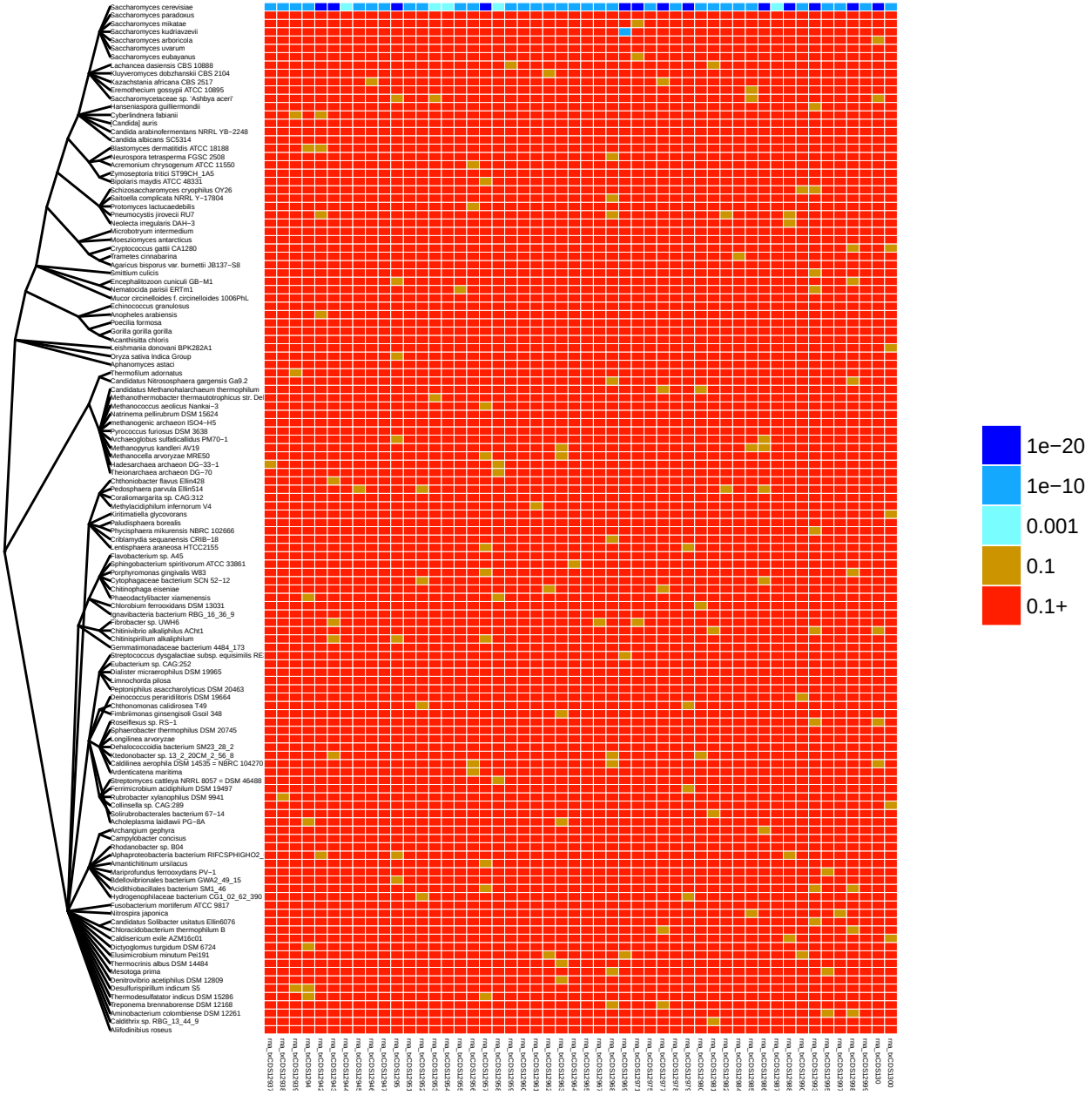

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

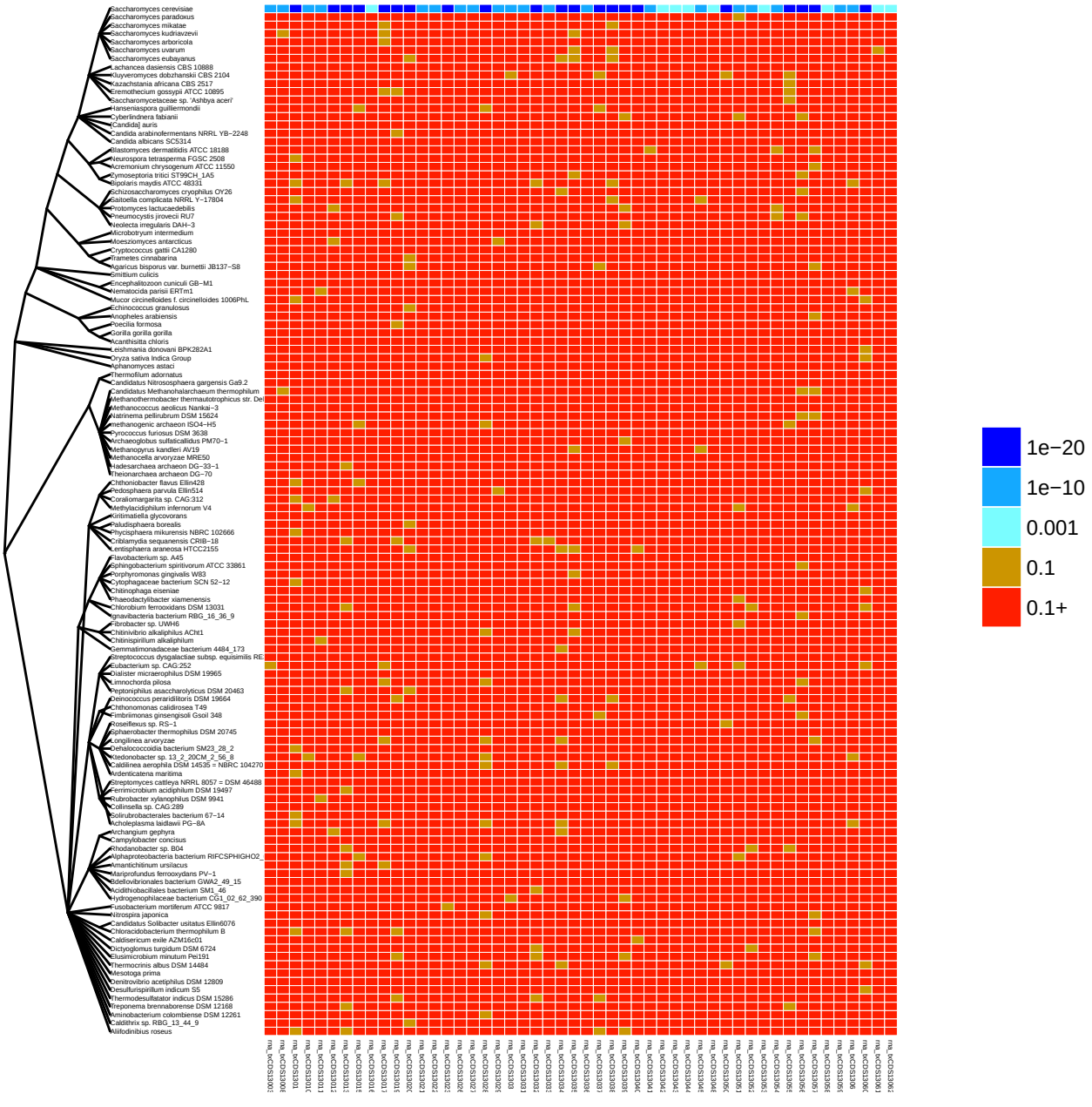

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

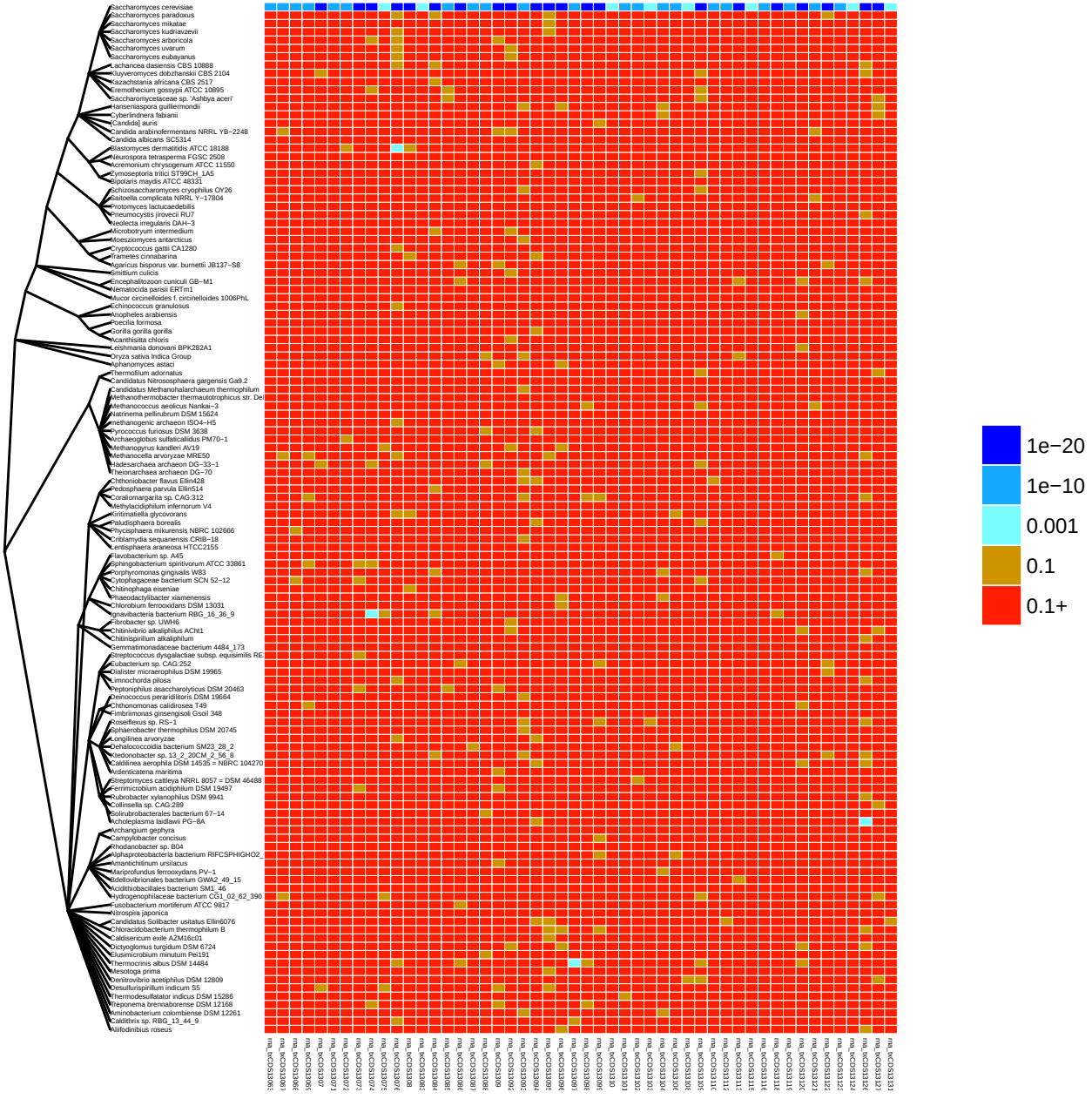

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

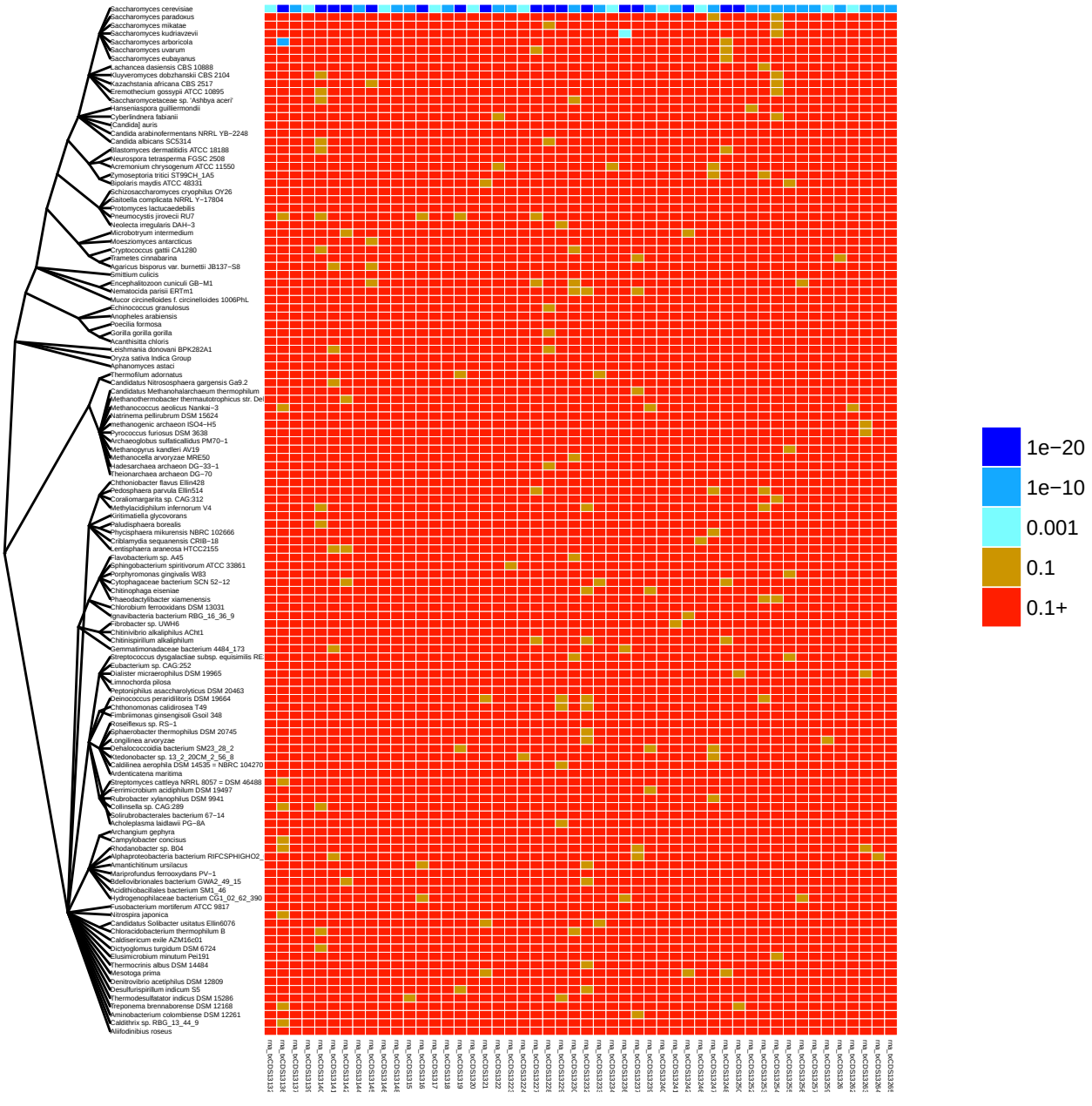

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
1e−20
1e−10
0.001
0.1
0.1+

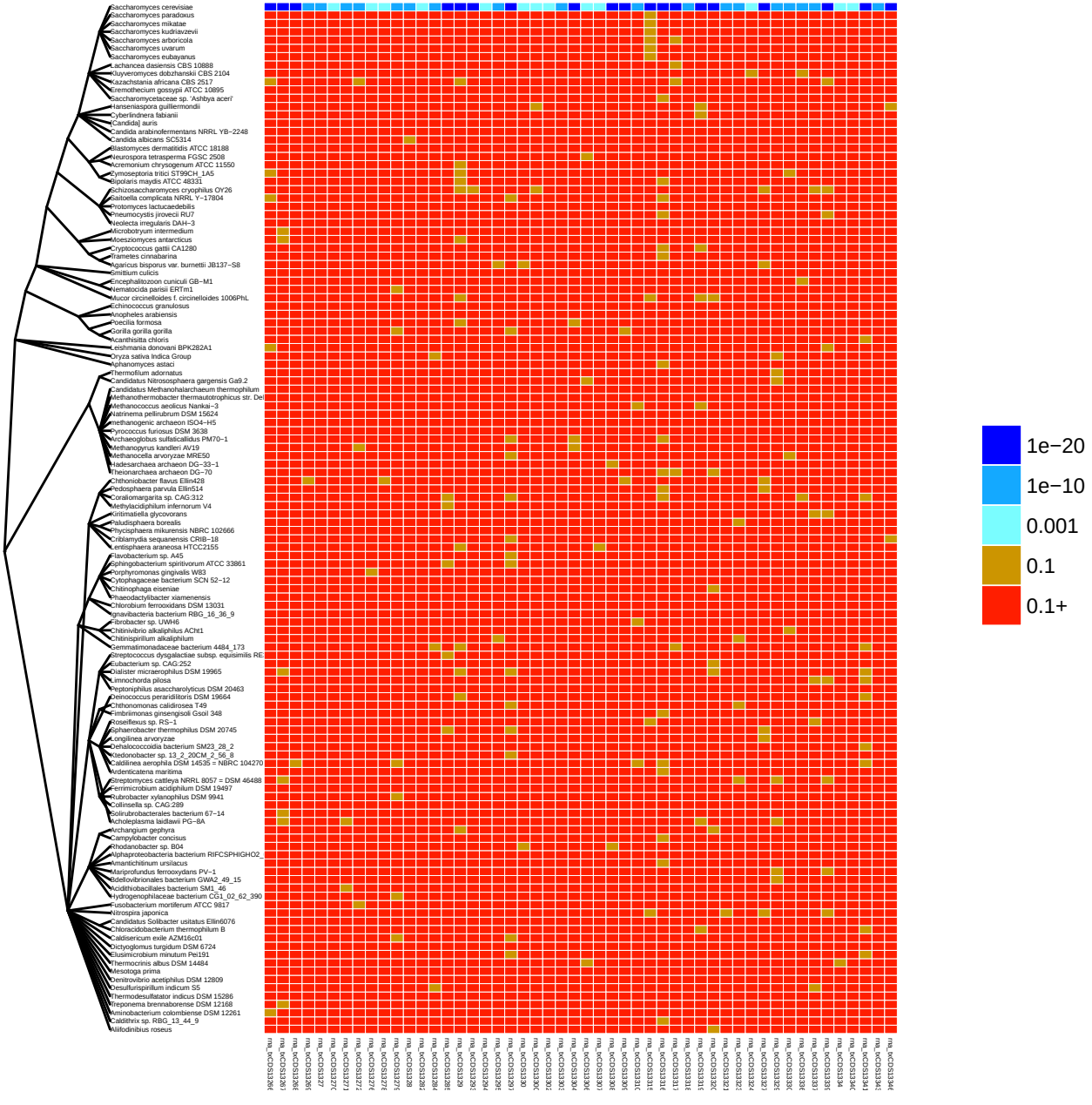

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

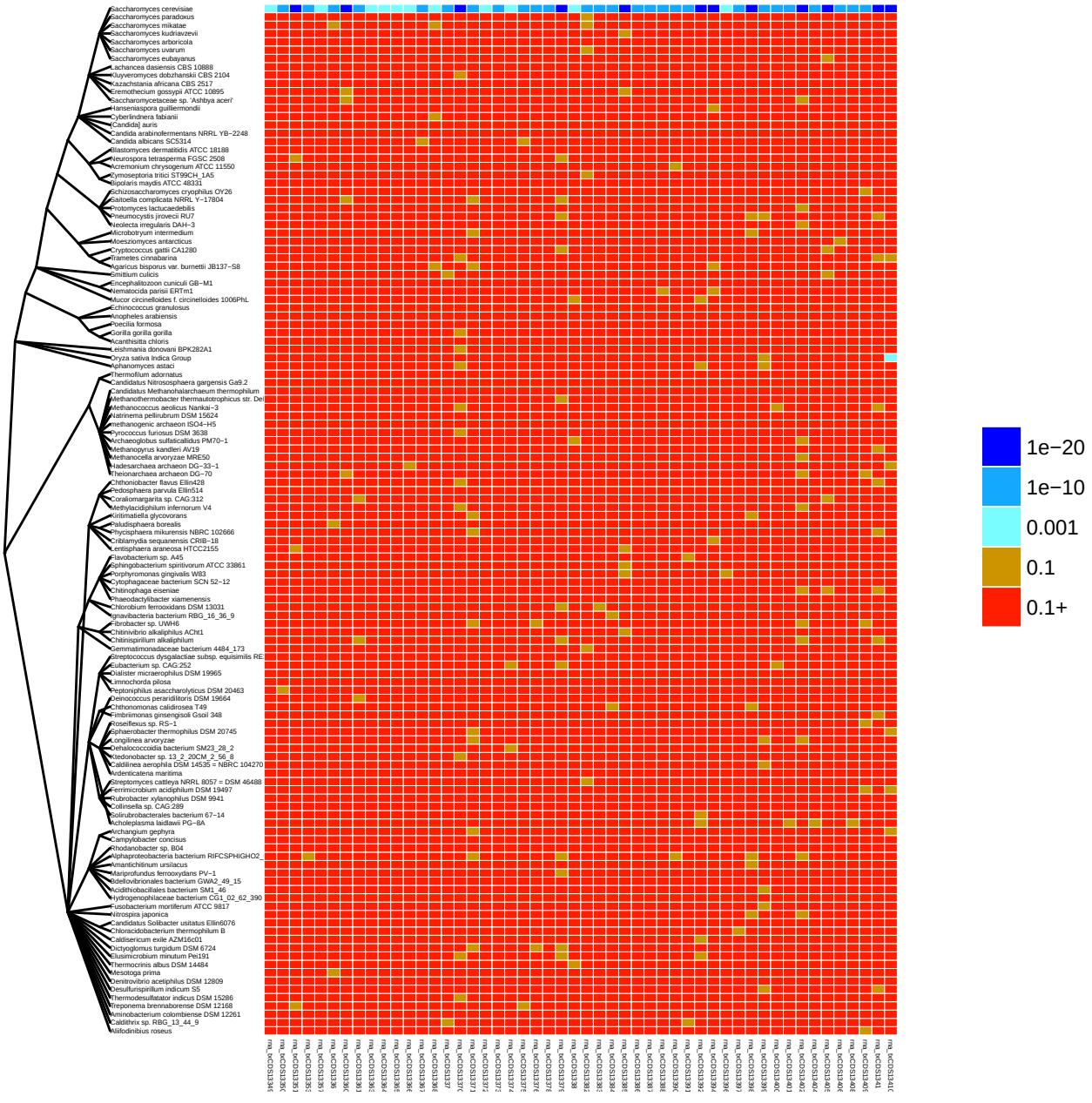

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Kiritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

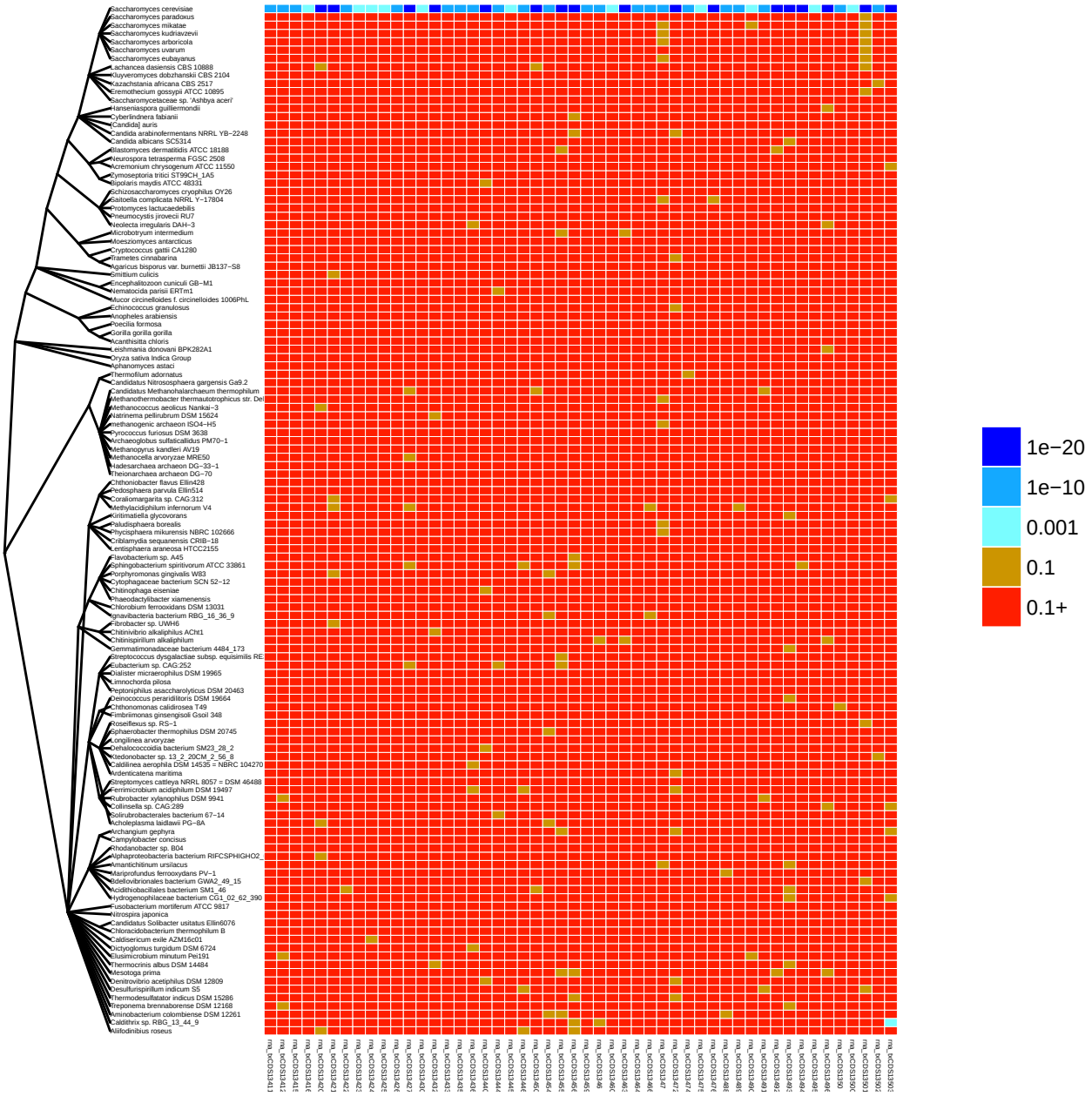

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

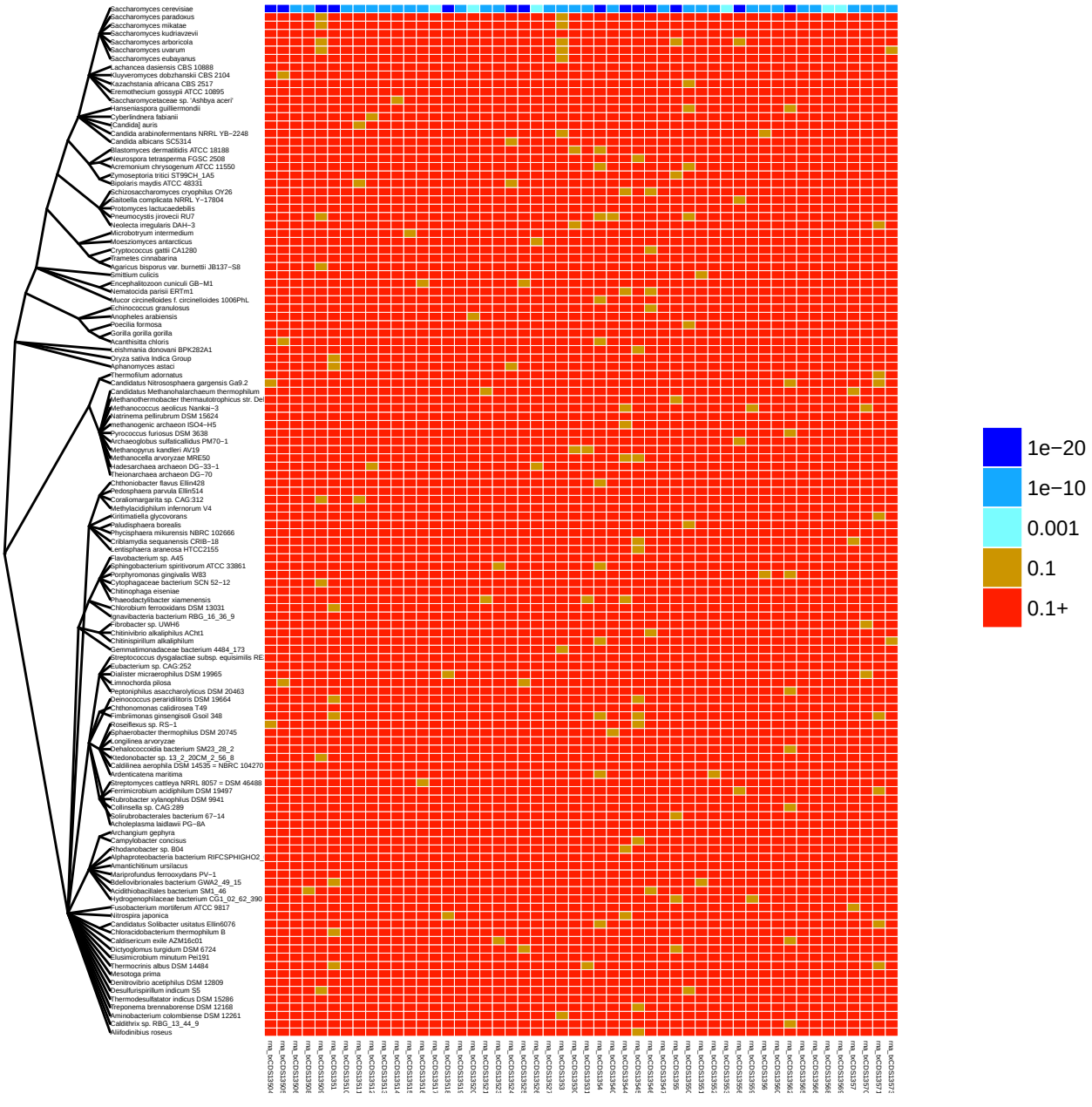

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

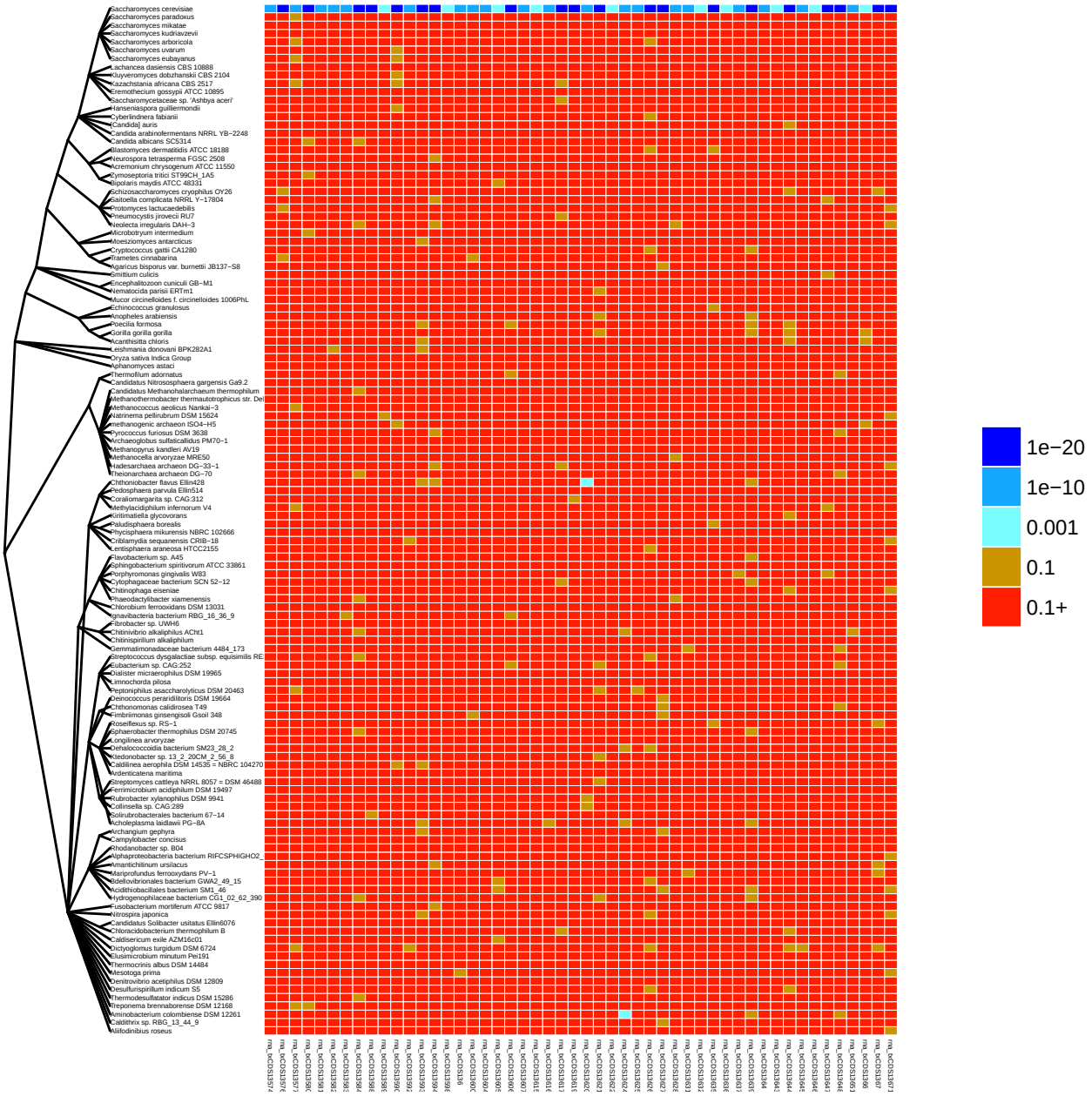

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonas
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis Nitrosotenuis
Candidatus Nitrosotenuis Nitrosotenuis
Candidatus Nitrosotenuis Nitrosotenu

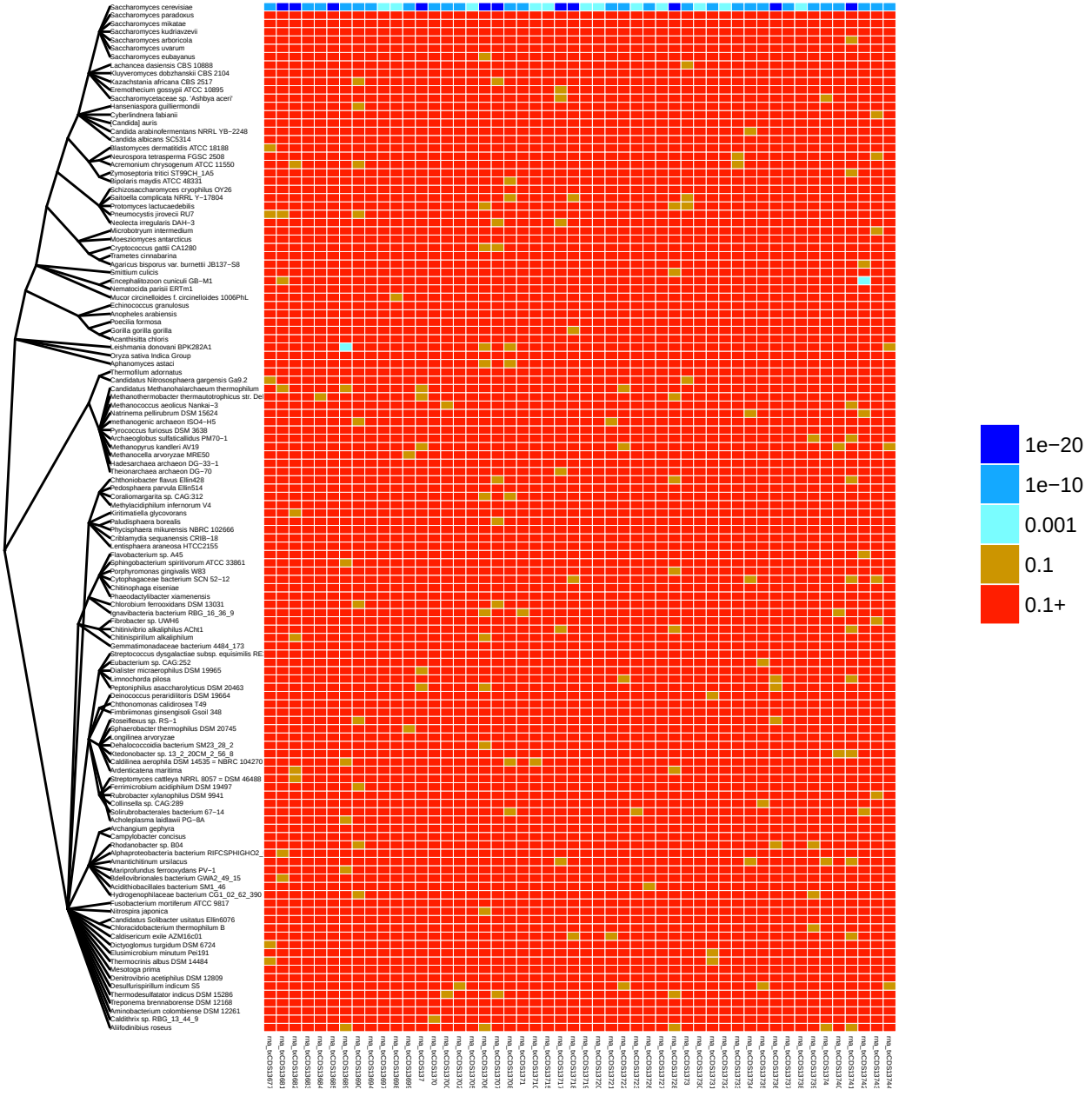

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. S
Nitrosopumilus sp. T
Nitrosopumilus sp. Z
Nitrosopumilus sp. Q
Nitrosopumilus sp. J
Nitrosopumilus sp. N
Nitrosopumilus sp. P
Nitrosopumilus sp. W
Nitrosopumilus sp. V
Nitrosopumilus sp. R
Nitrosopumilus sp. L
Nitrosopumilus sp. M
Nitrosopumilus sp. O
Nitrosopumilus sp. I
Nitrosopumilus sp. H
Nitrosopumilus sp. G
Nitrosopumilus sp. E
Nitrosopumilus sp. D
Nitrosopumilus sp. C
Nitrosopumilus sp. B
Nitrosopumilus sp. A
Nitrosopumilus sp. 7
Nitrosopumilus sp. 6
Nitrosopumilus sp. 5
Nitrosopumilus sp. 4
Nitrosopumilus sp. 3
Nitrosopumilus sp. 2
Nitrosopumilus sp. 1
Nitrosopumilus sp. 0
Nitrosopumilus sp. 9
Nitrosopumilus sp. 8
Nitrosopumilus sp. 11
Nitrosopumilus sp. 10
Nitrosopumilus sp. 13
Nitrosopumilus sp. 12
Nitrosopumilus sp. 15
Nitrosopumilus sp. 14
Nitrosopumilus sp. 17
Nitrosopumilus sp. 16
Nitrosopumilus sp. 19
Nitrosopumilus sp. 18
Nitrosopumilus sp. 21
Nitrosopumilus sp. 20
Nitrosopumilus sp. 23
Nitrosopumilus sp. 22
Nitrosopumilus sp. 25
Nitrosopumilus sp. 24
Nitrosopumilus sp. 27
Nitrosopumilus sp. 26
Nitrosopumilus sp. 29
Nitrosopumilus sp. 28
Nitrosopumilus sp. 31
Nitrosopumilus sp. 30
Nitrosopumilus sp. 33
Nitrosopumilus sp. 32
Nitrosopumilus sp. 35
Nitrosopumilus sp. 34
Nitrosopumilus sp. 37
Nitrosopumilus sp. 36
Nitrosopumilus sp. 39
Nitrosopumilus sp. 38
Nitrosopumilus sp. 41
Nitrosopumilus sp. 40
Nitrosopumilus sp. 43
Nitrosopumilus sp. 42
1e−20
1e−10
0.001
0.1
0.1+

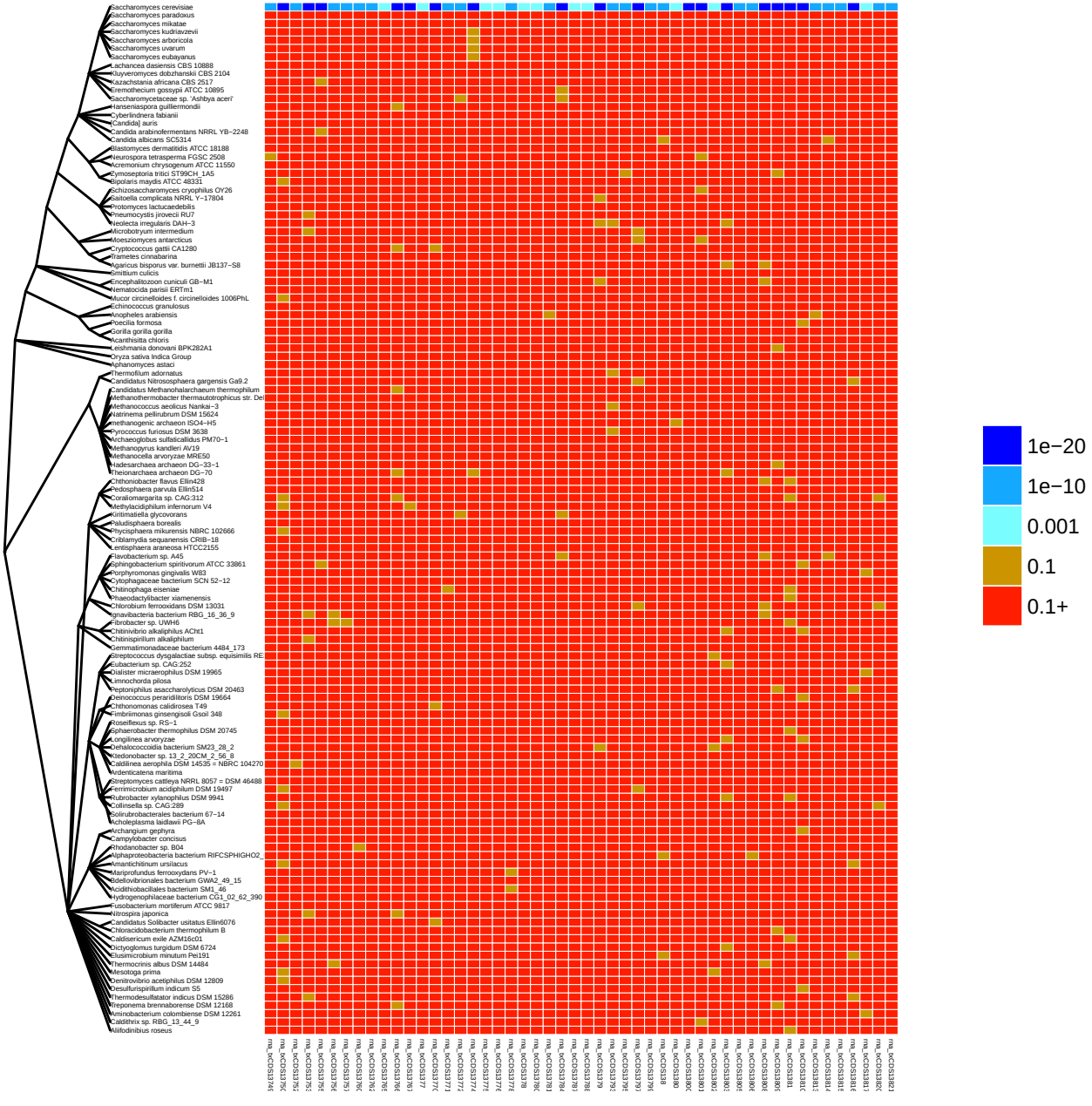

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

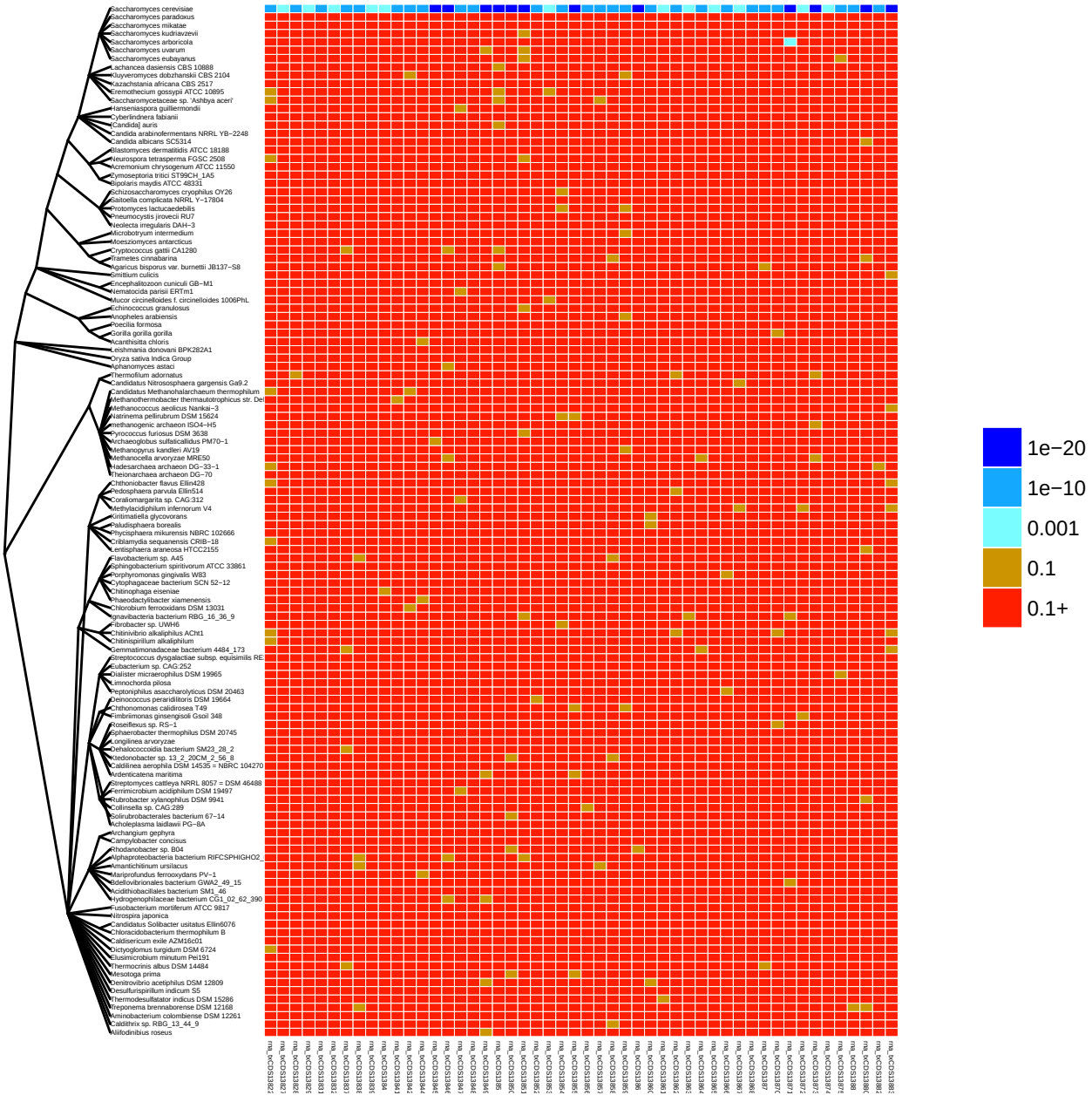

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
1e−20
1e−10
0.001
0.1
0.1+

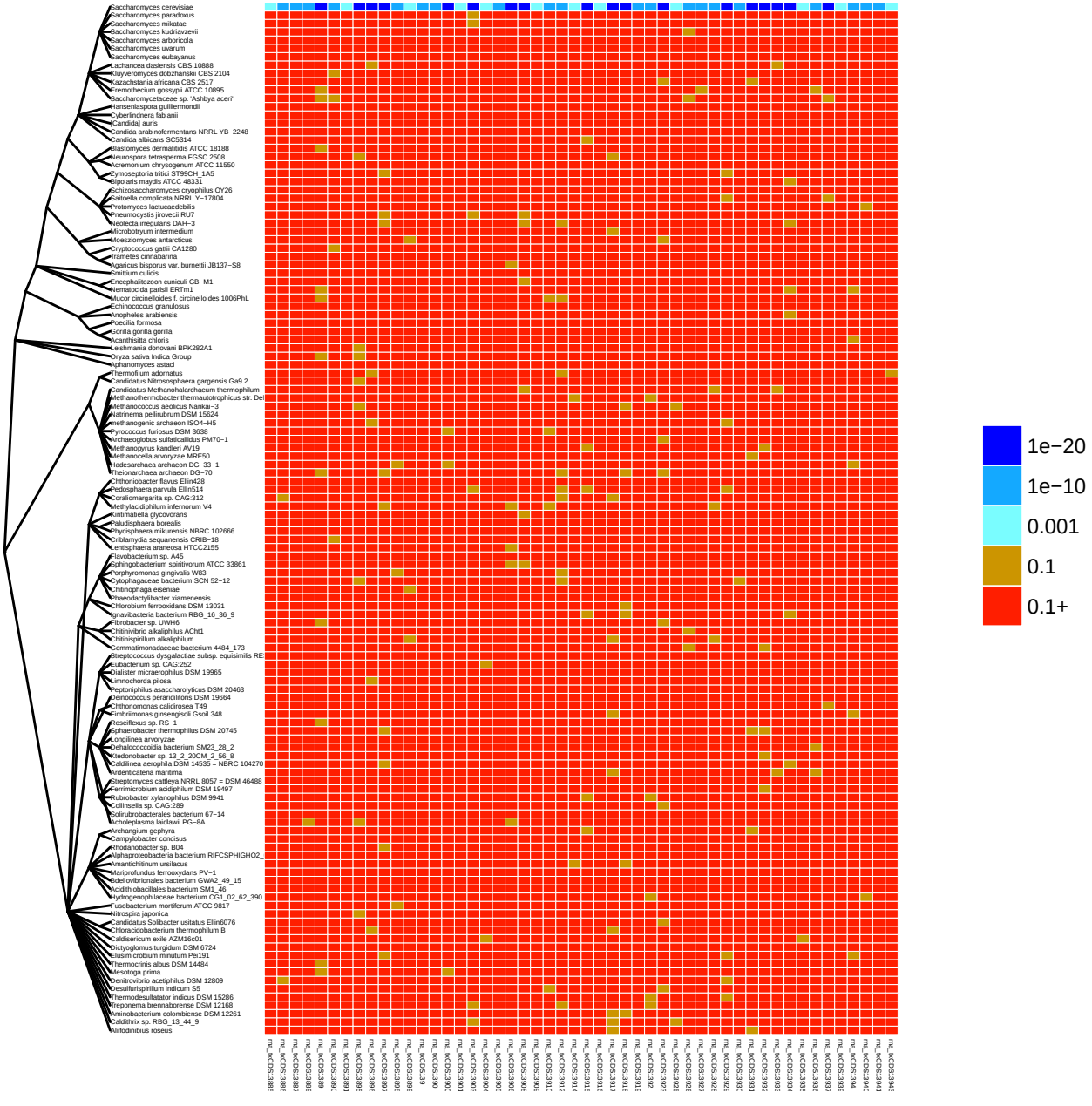

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

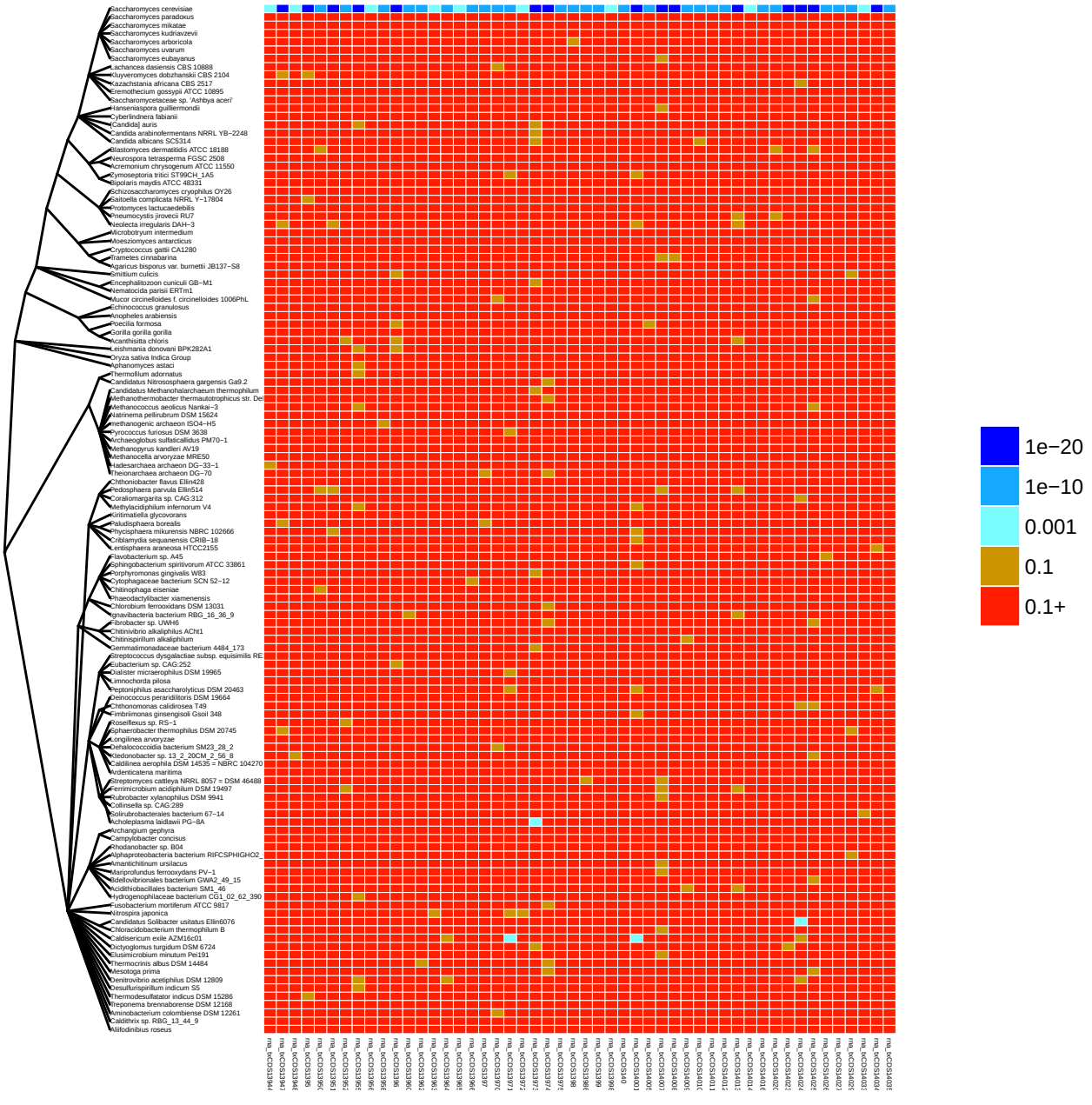

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

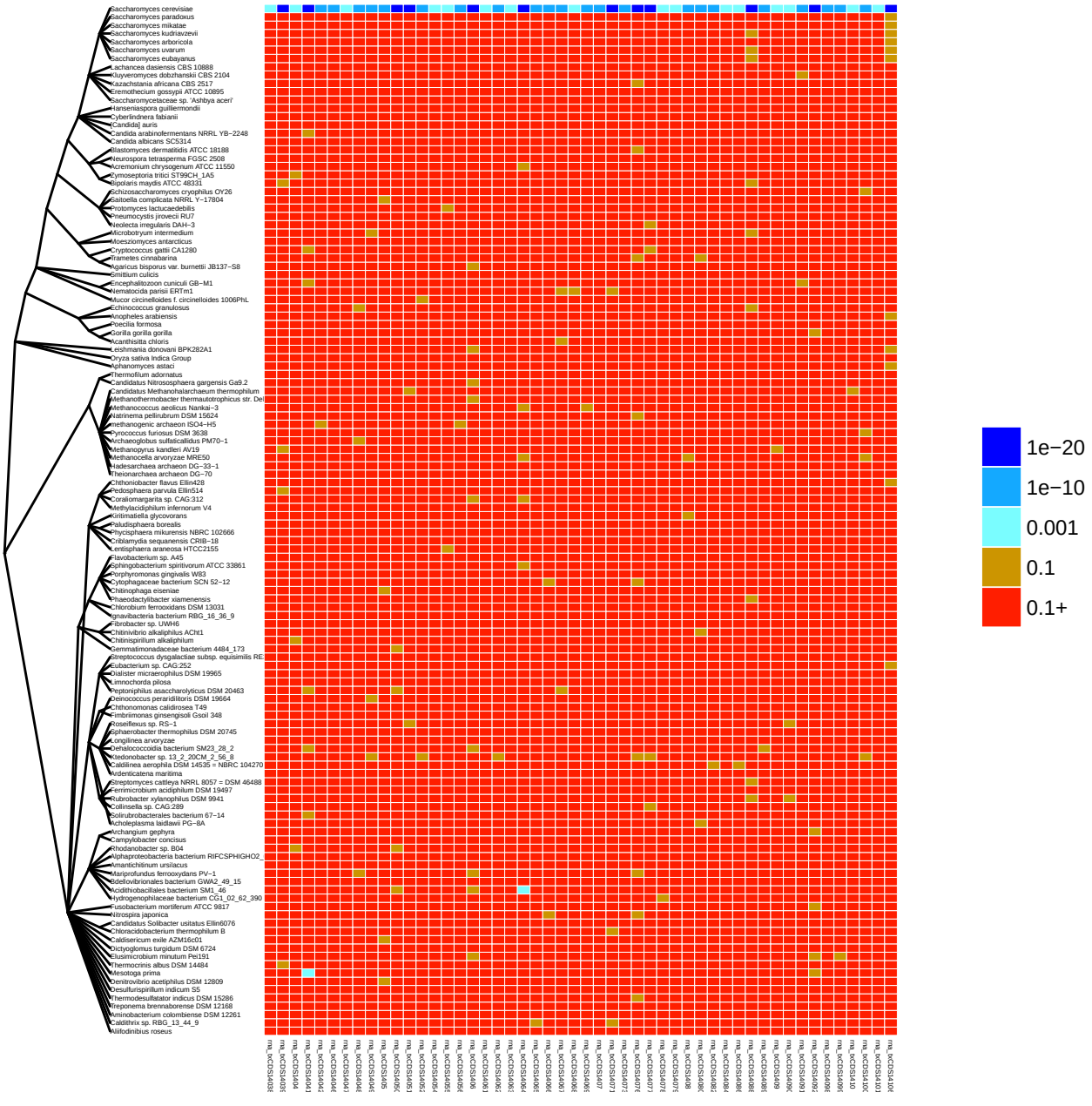

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermotilium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

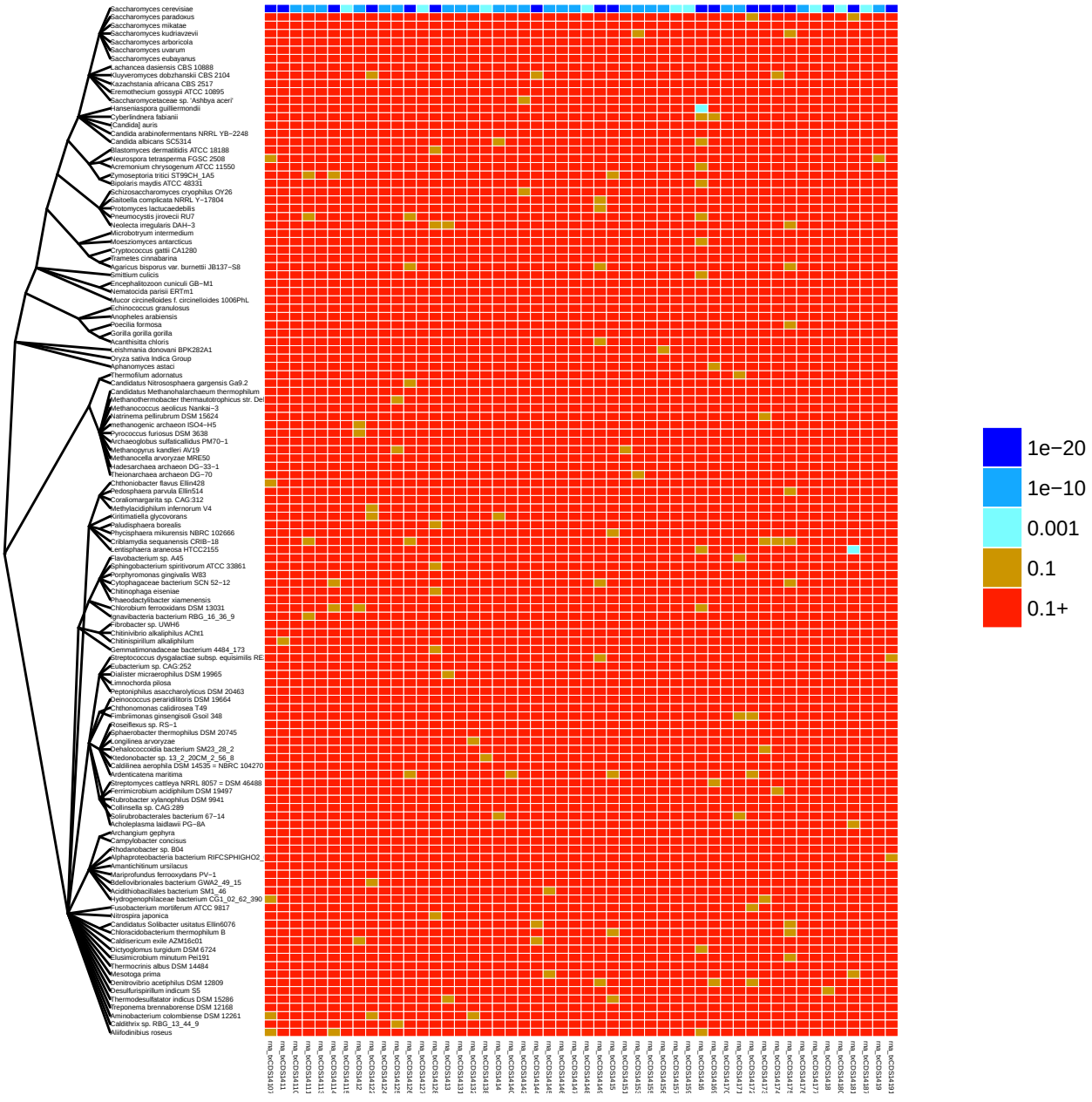

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

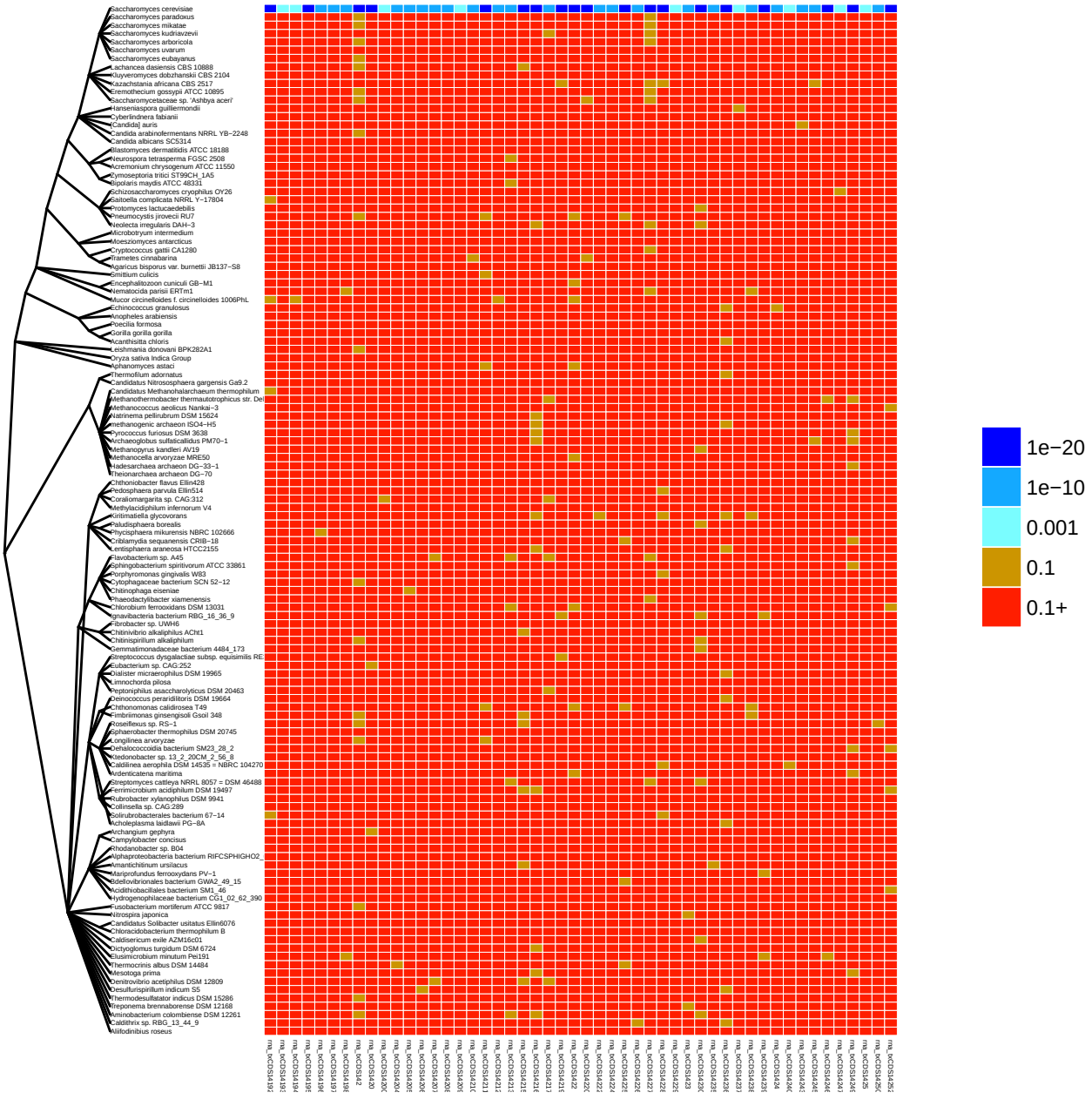

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

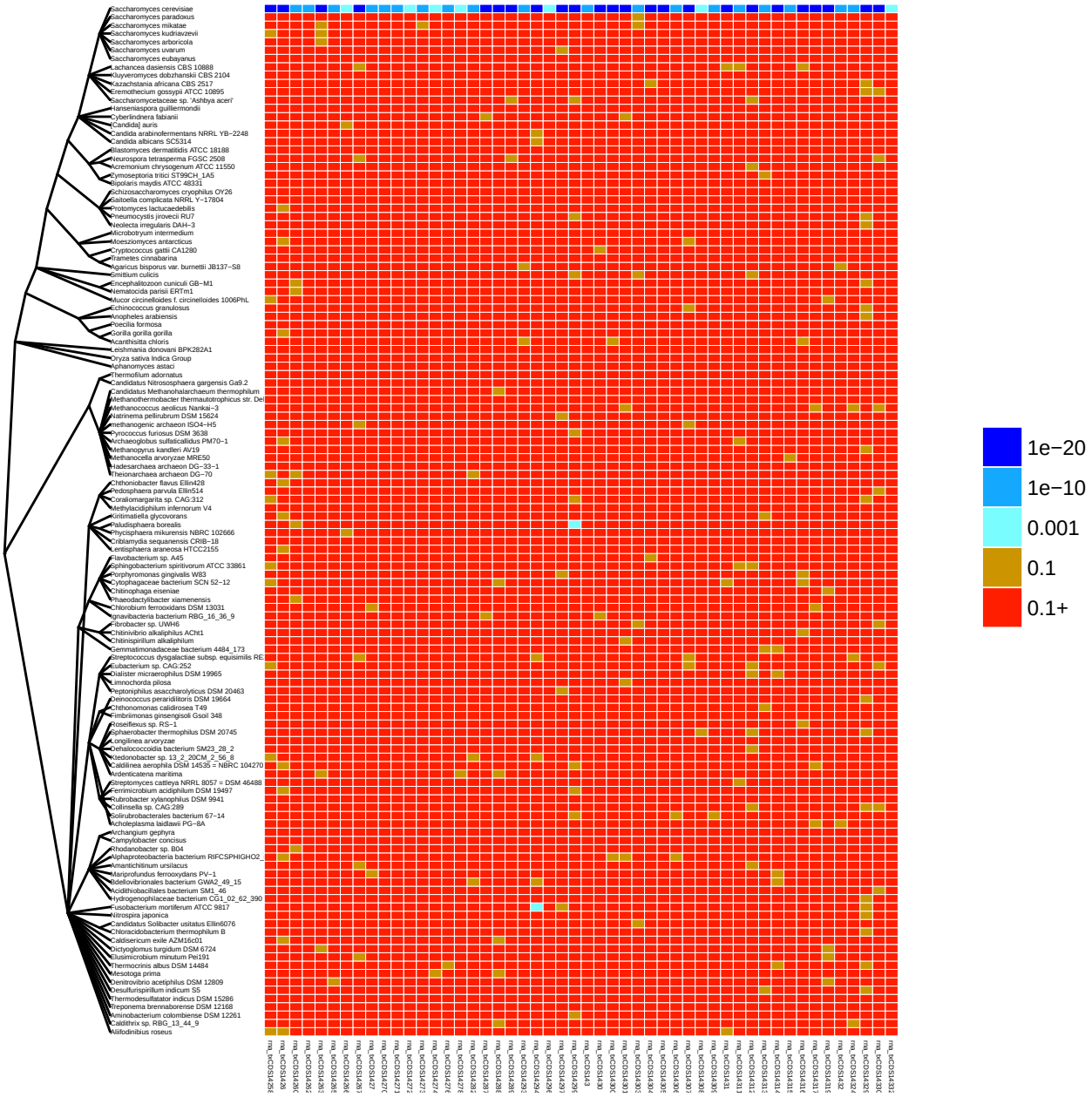

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinitrobius roseus
1e−20
1e−10
0.001
0.1
0.1+

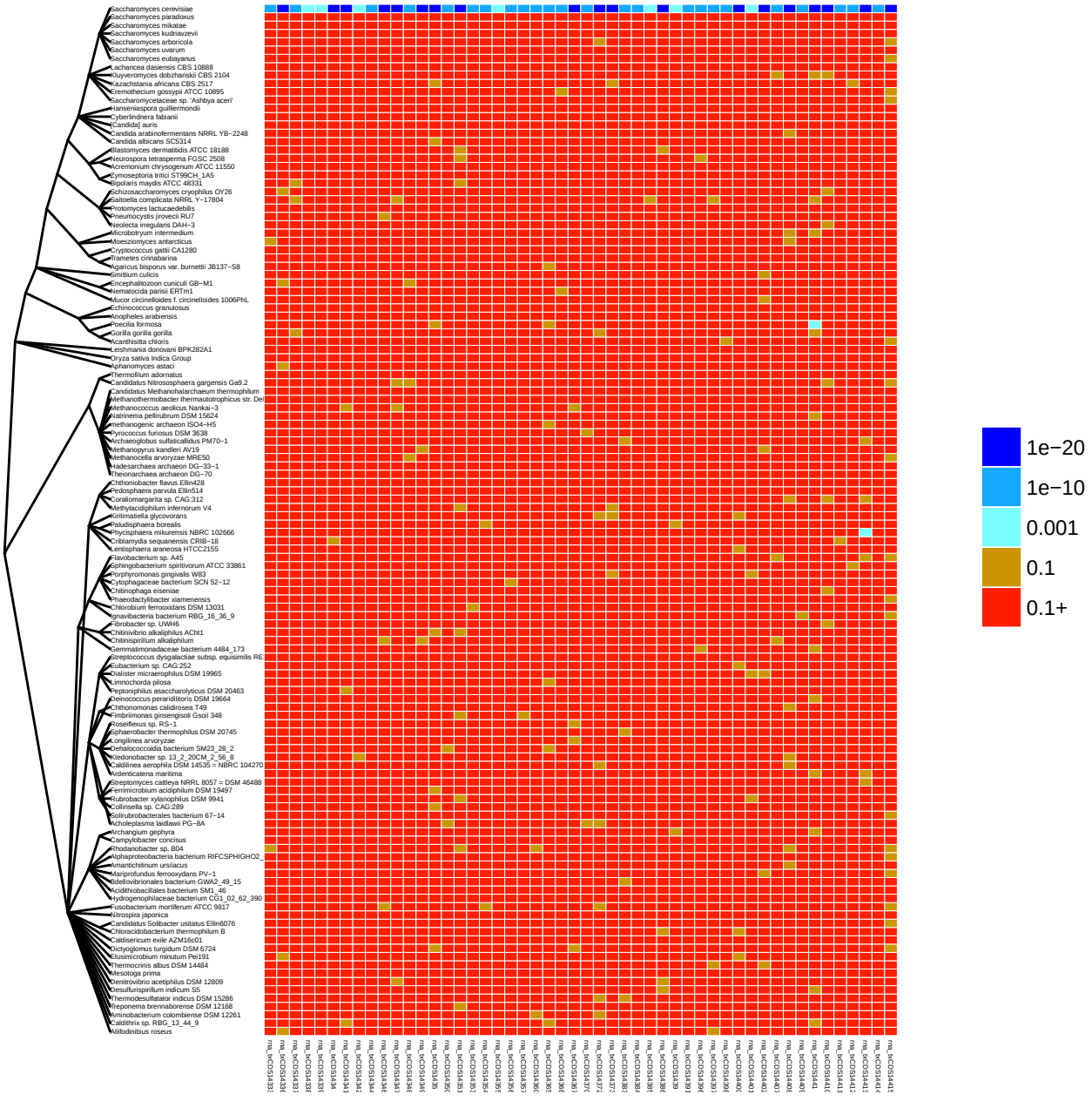

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

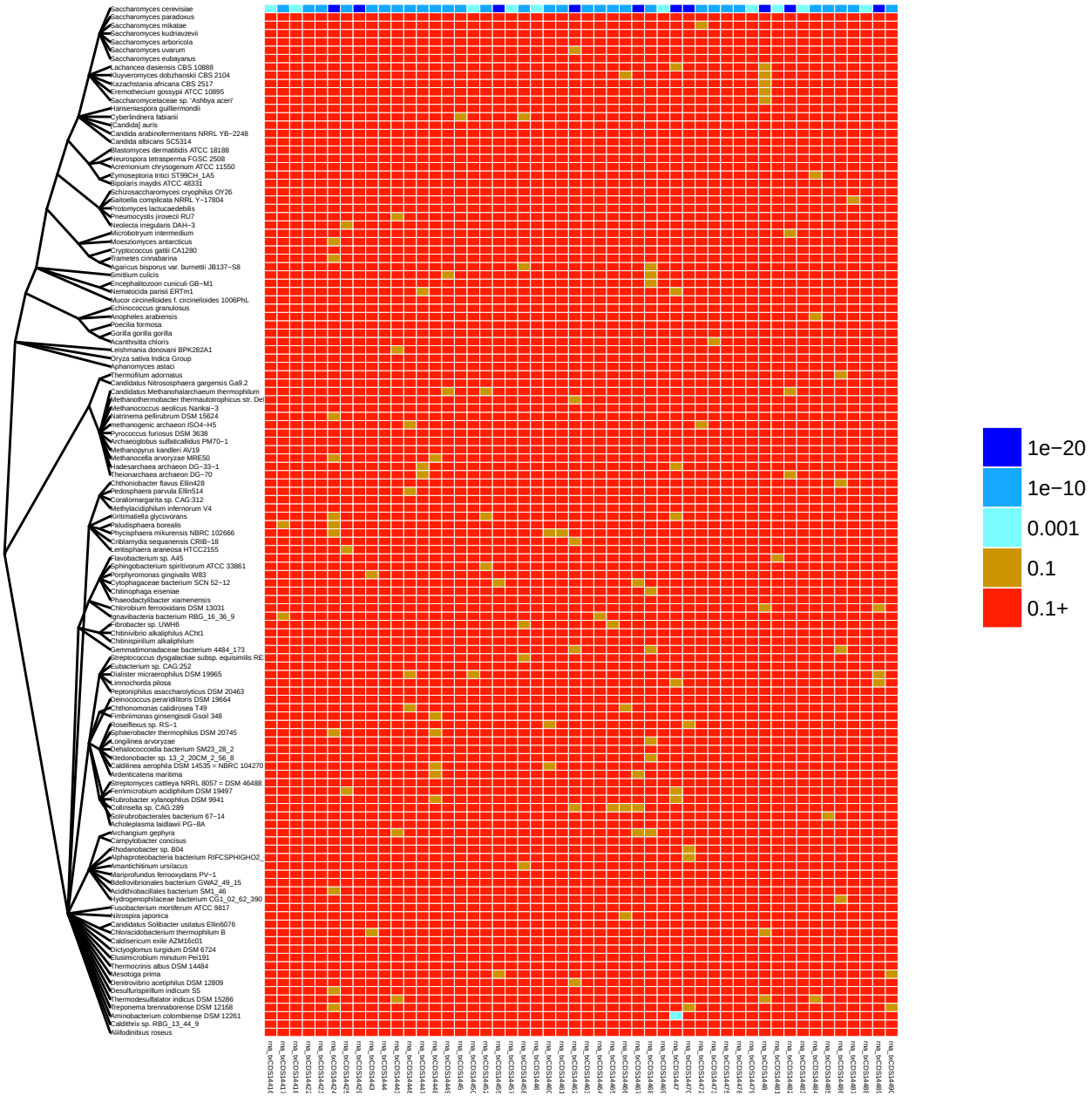

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

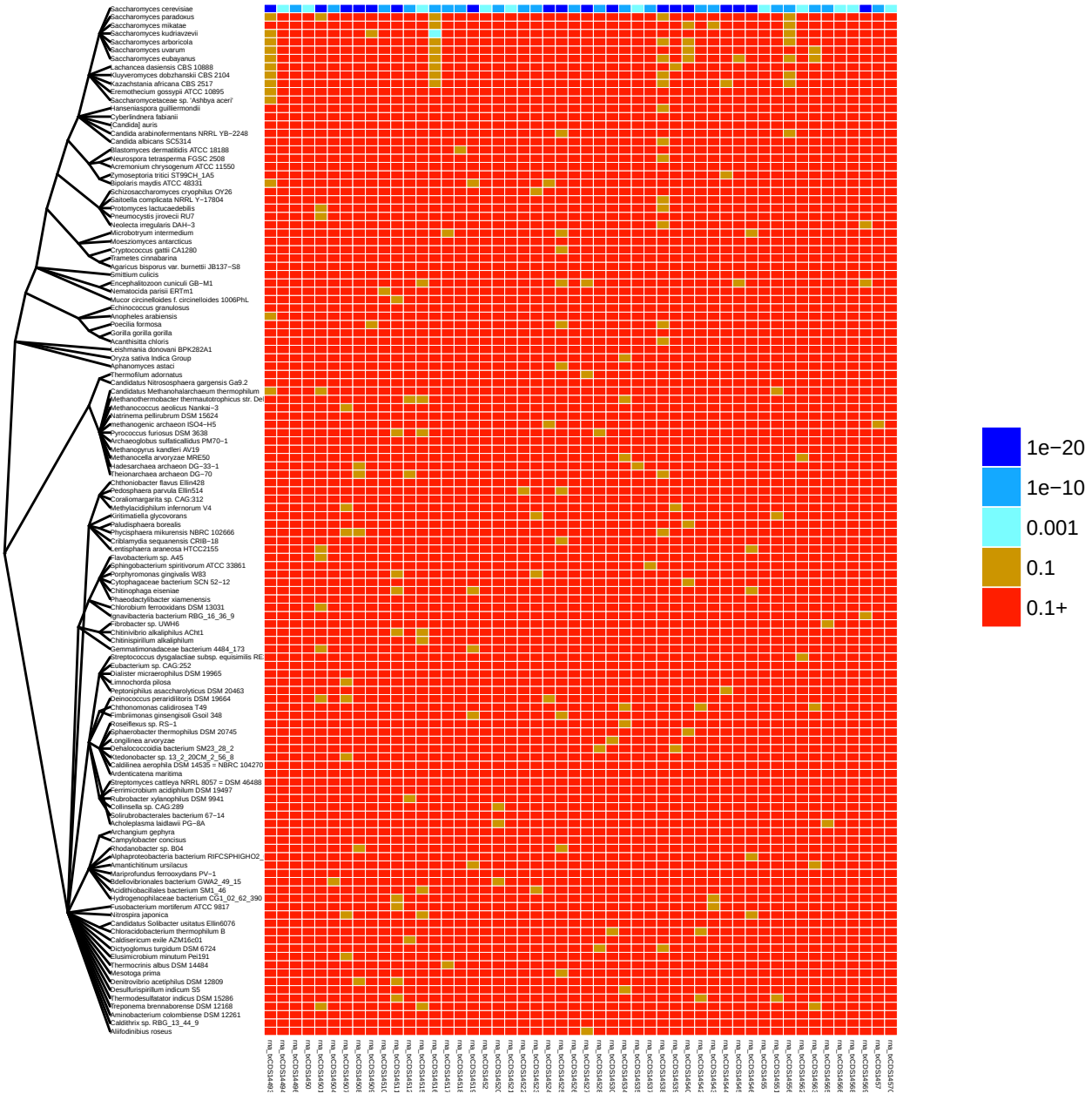

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

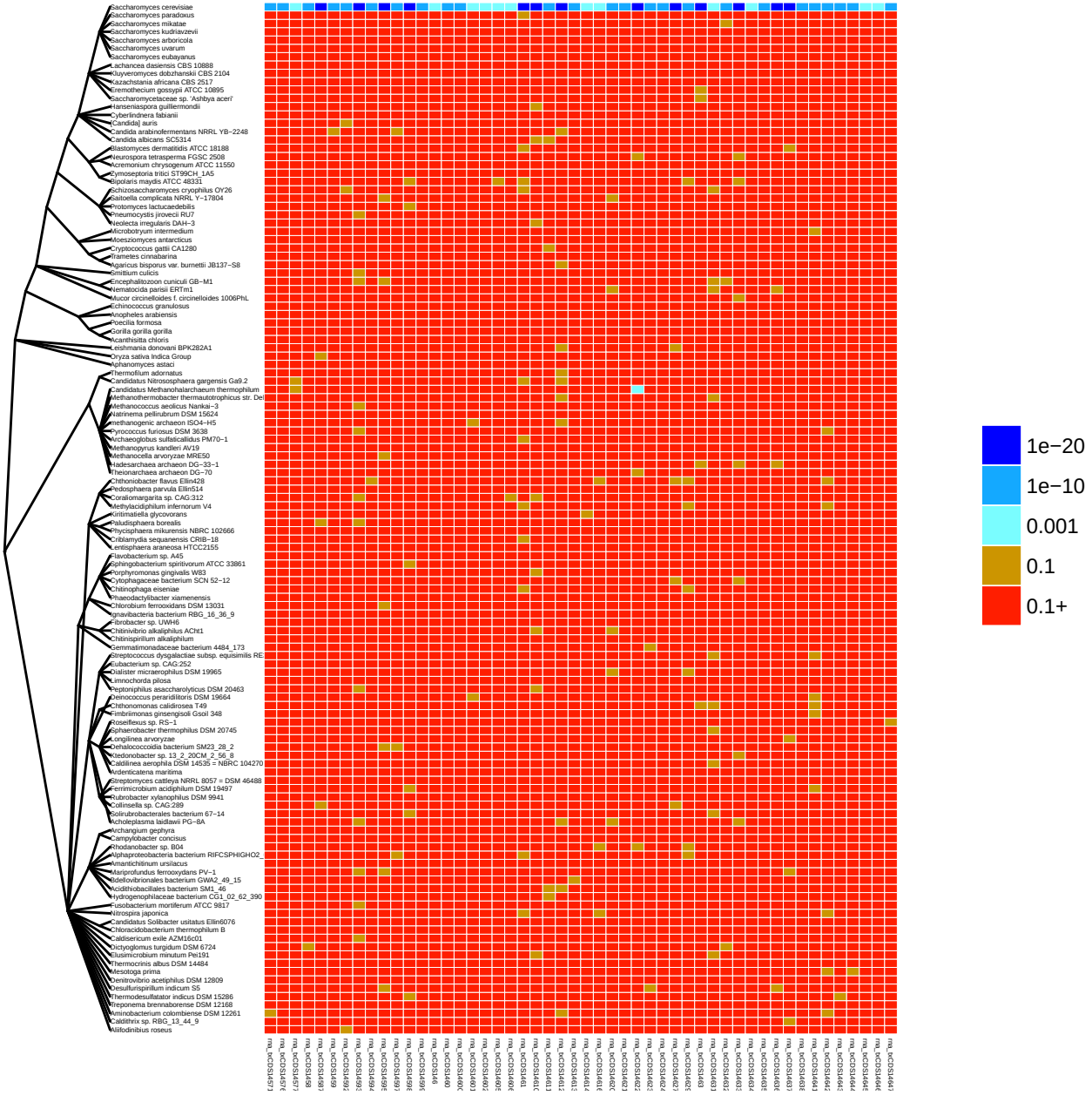

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

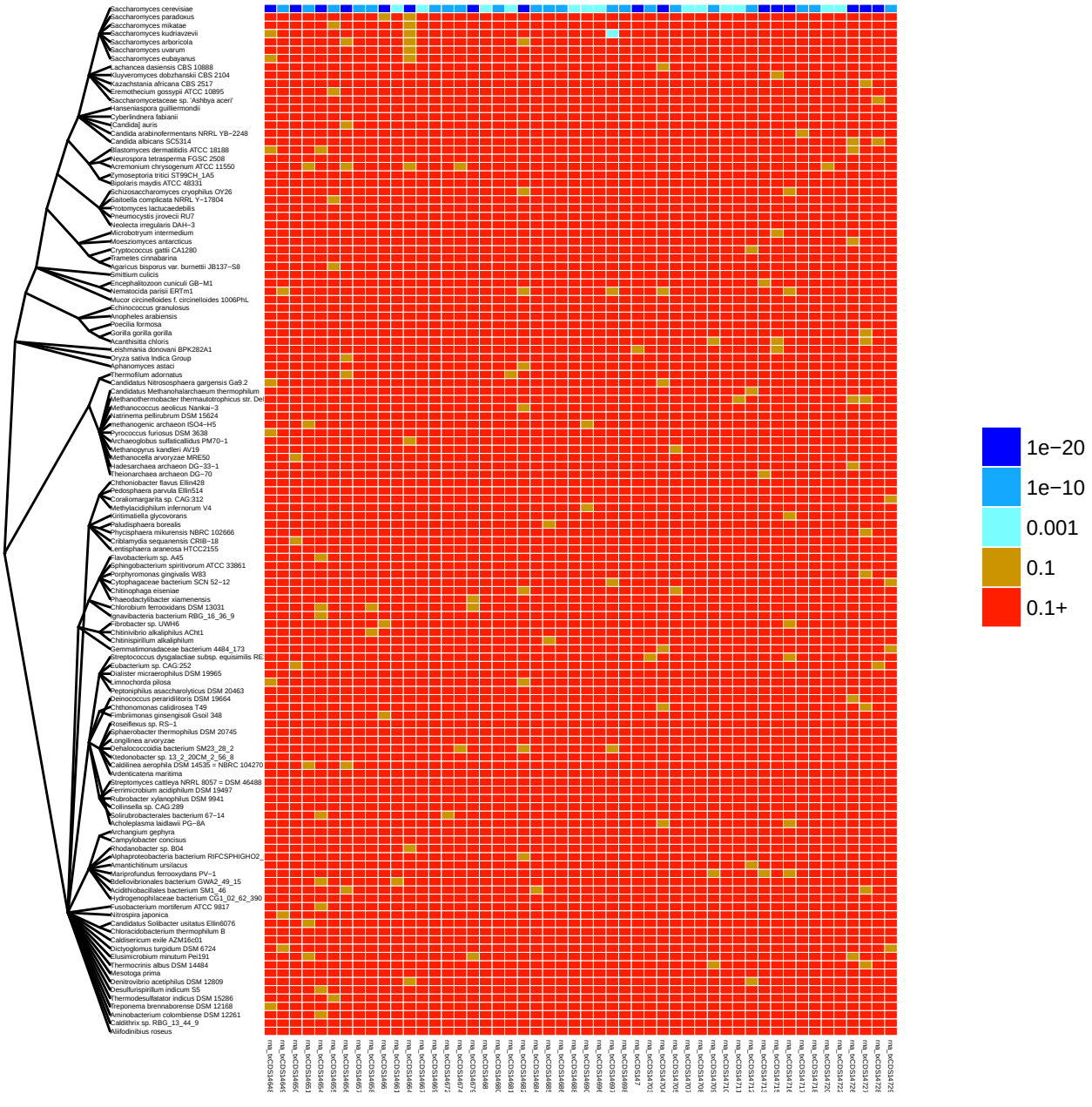

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

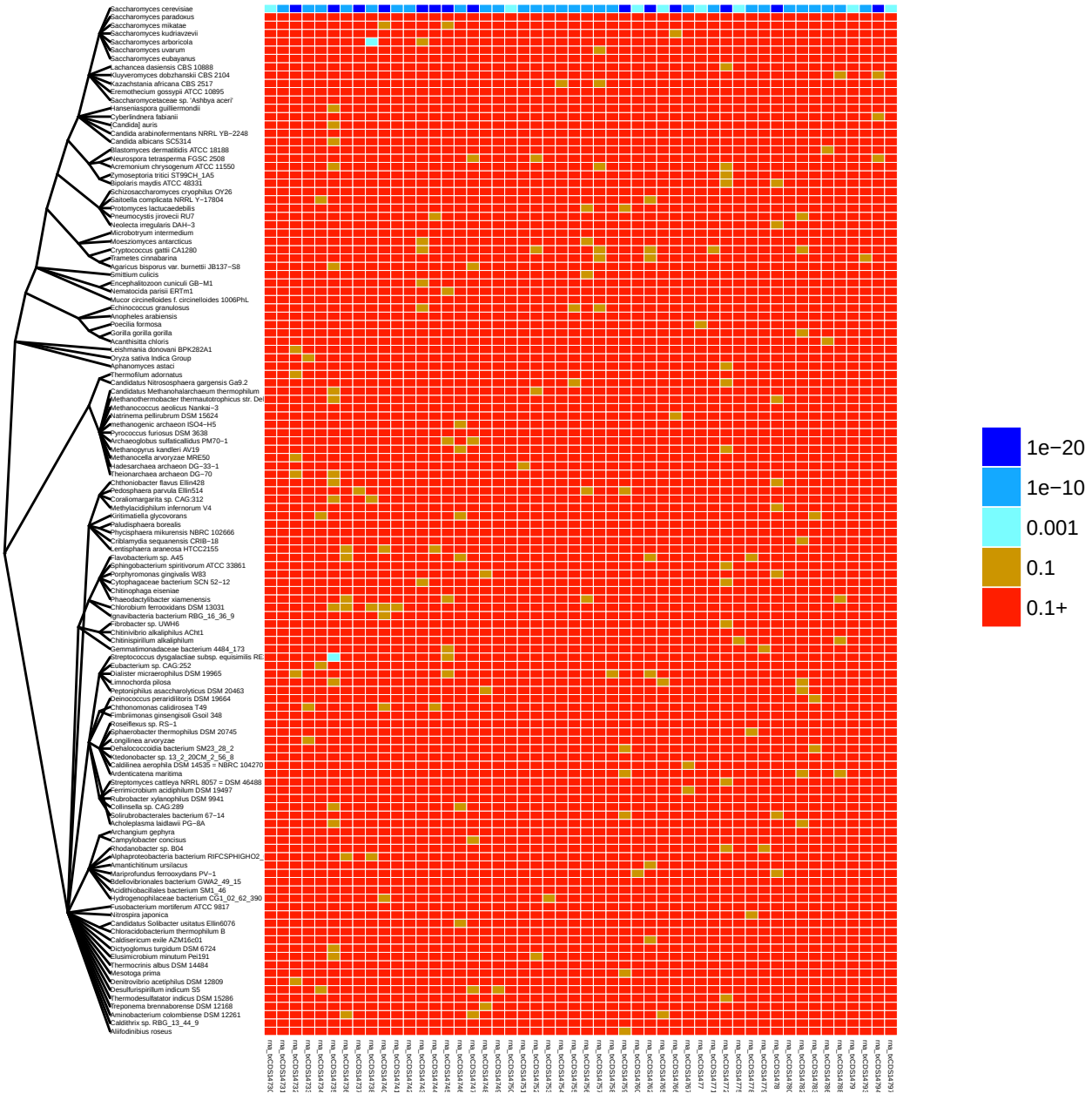

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

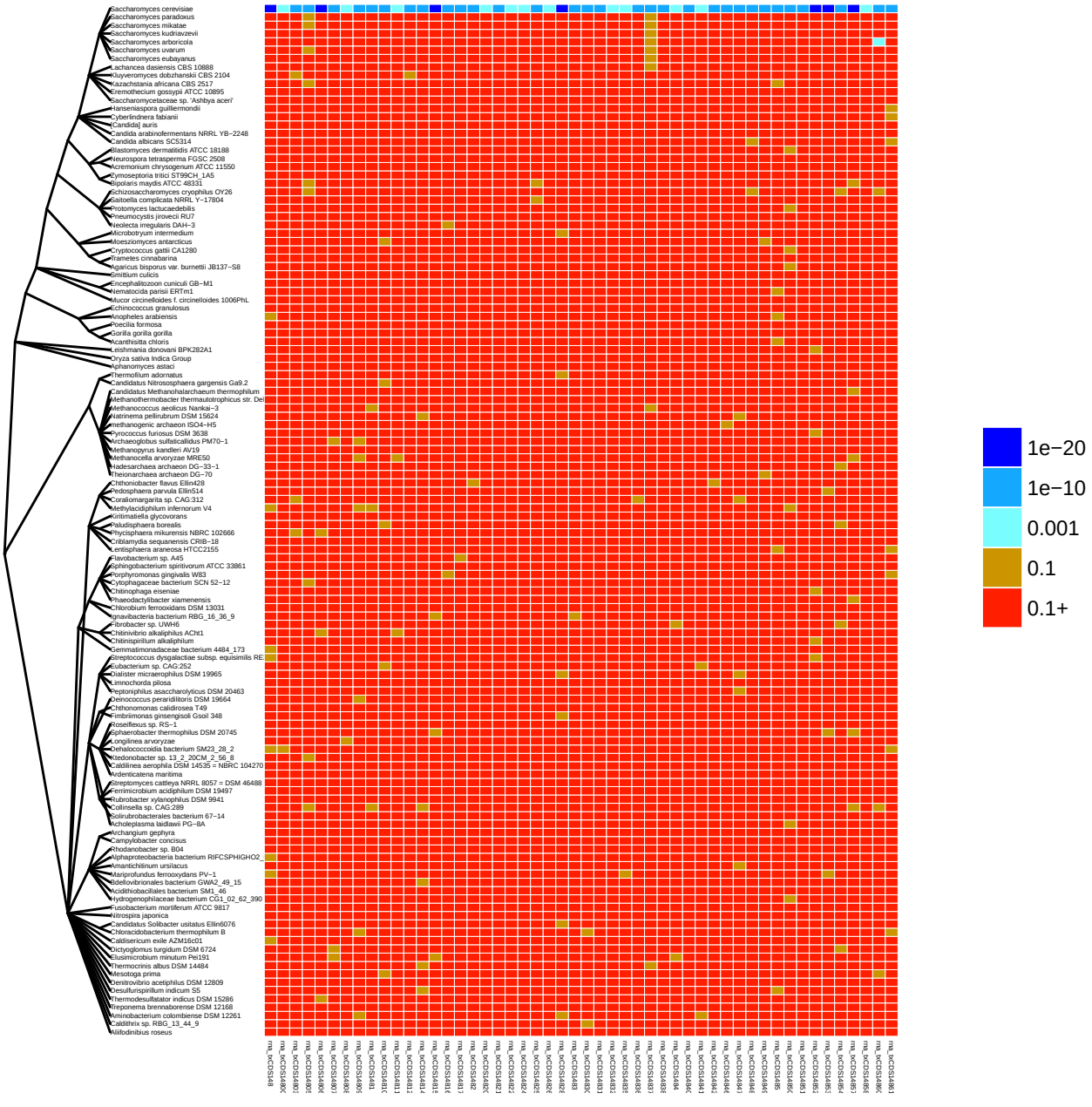

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

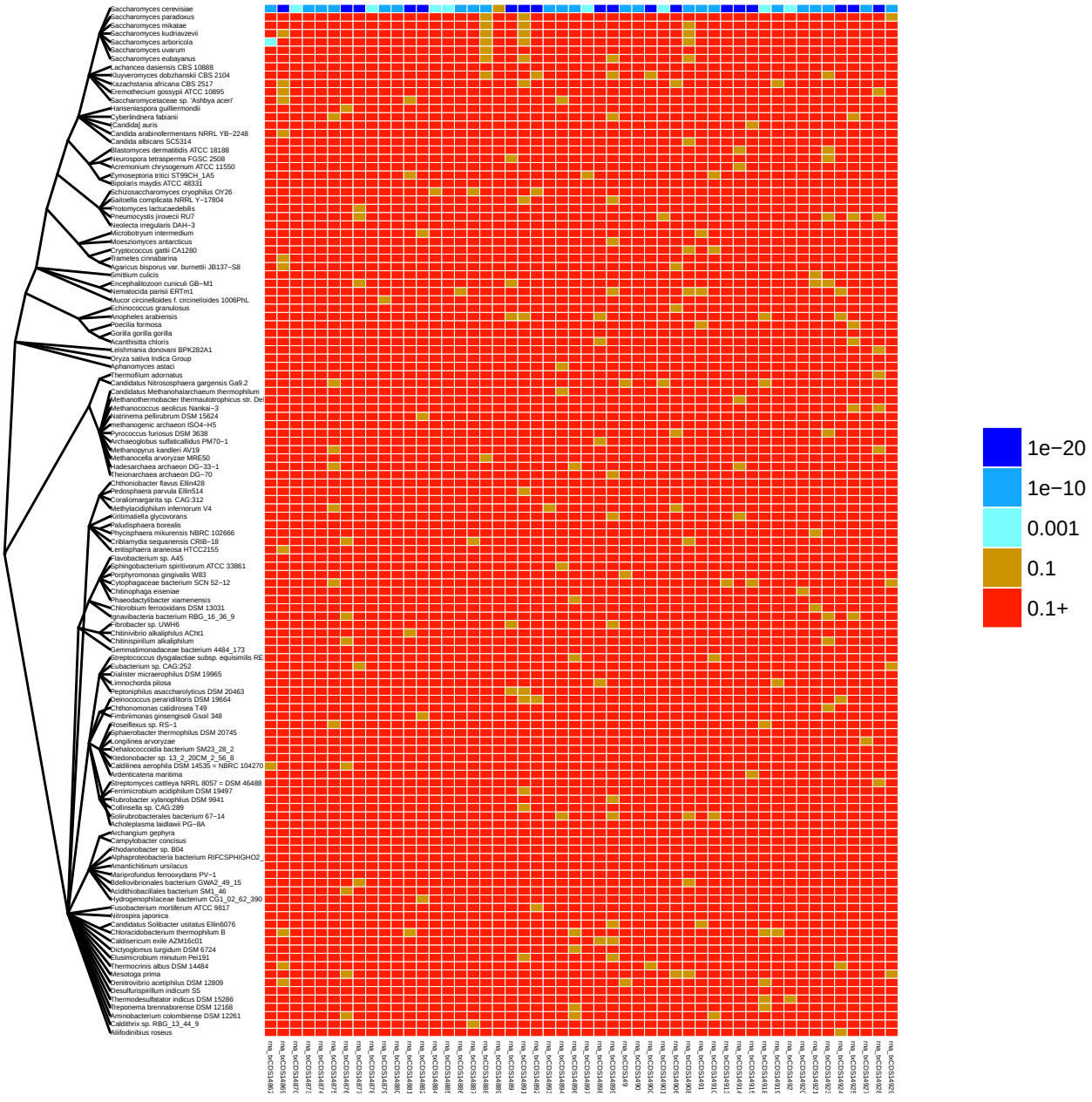

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

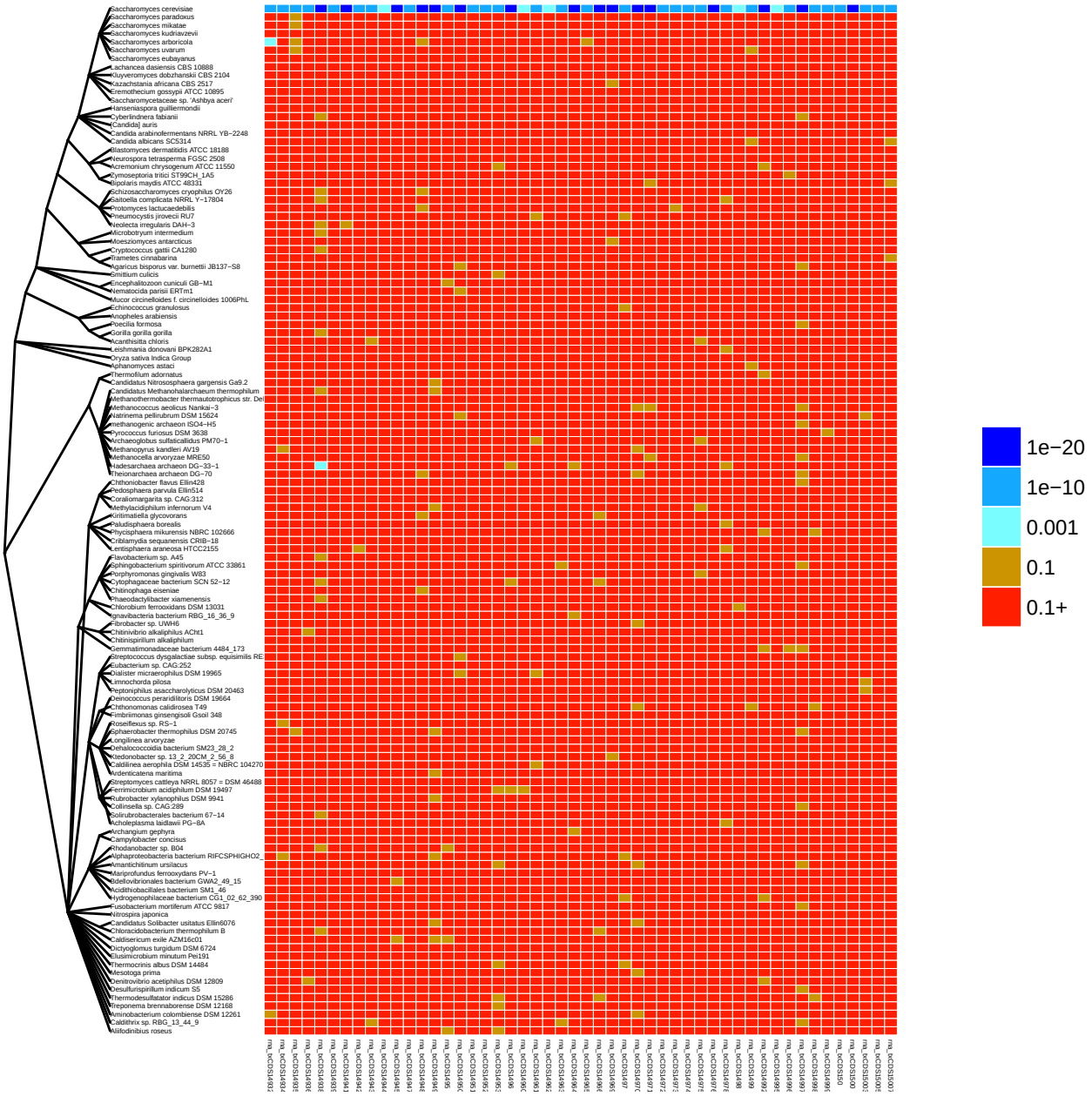

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

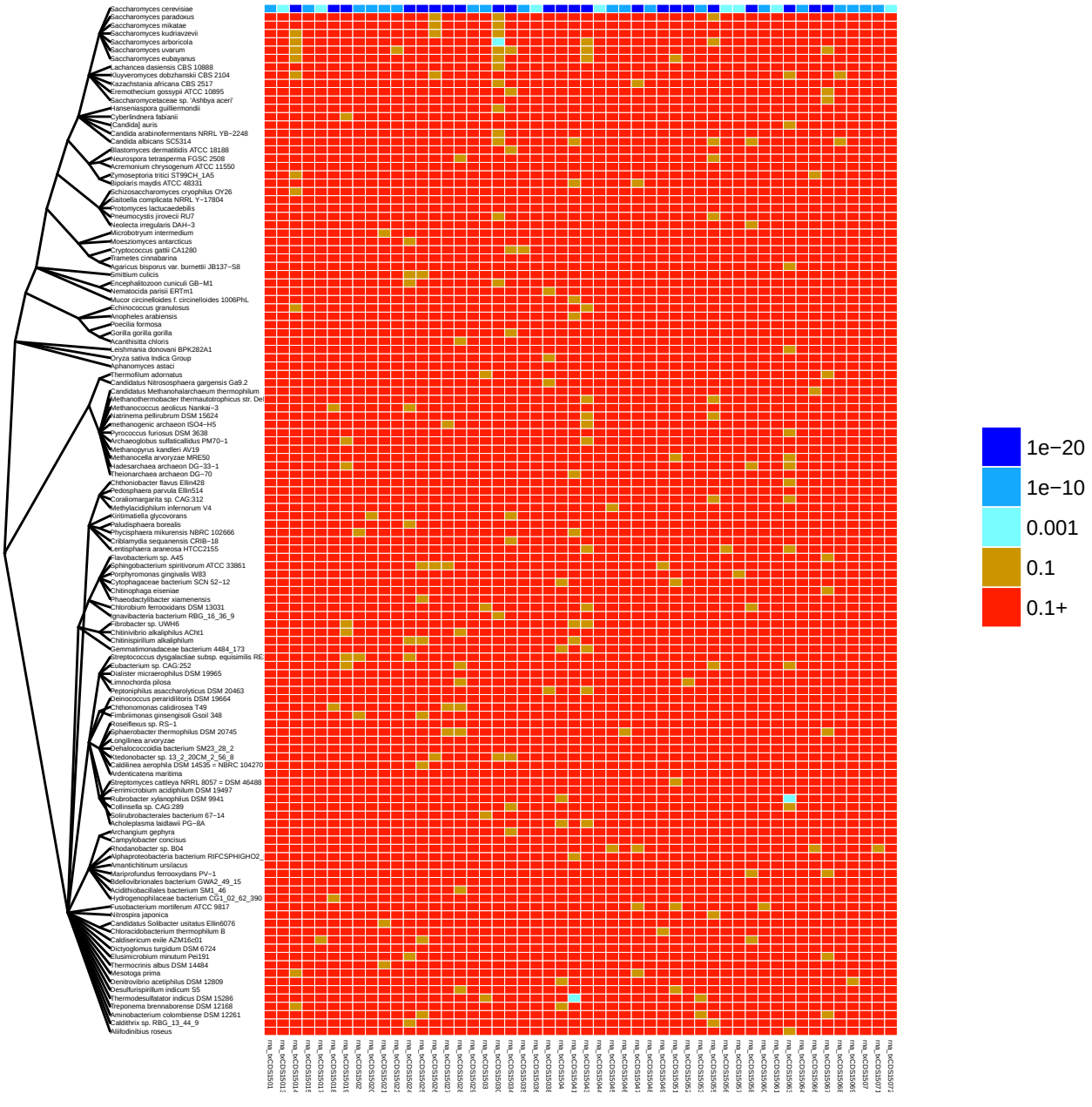

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

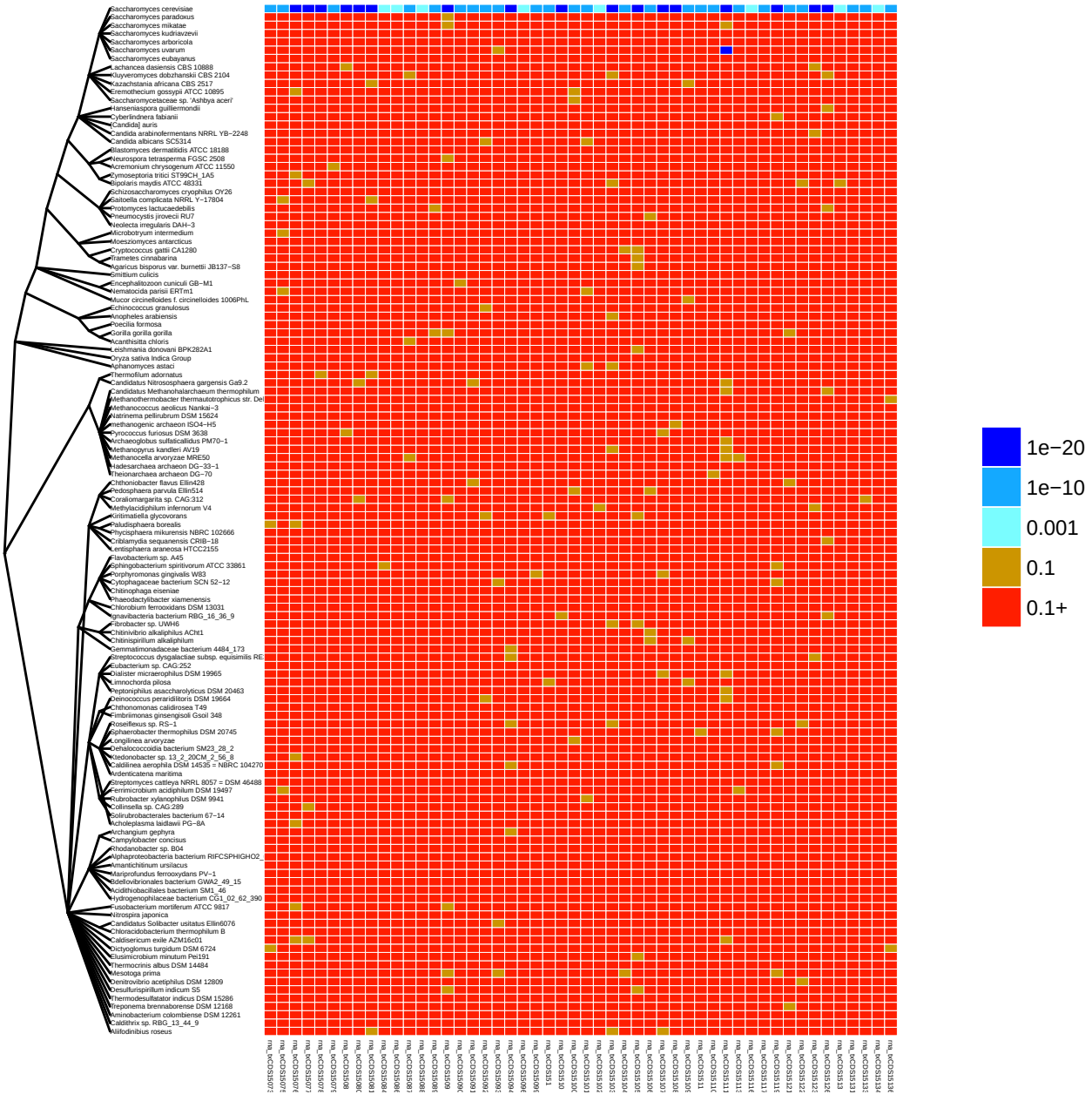

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

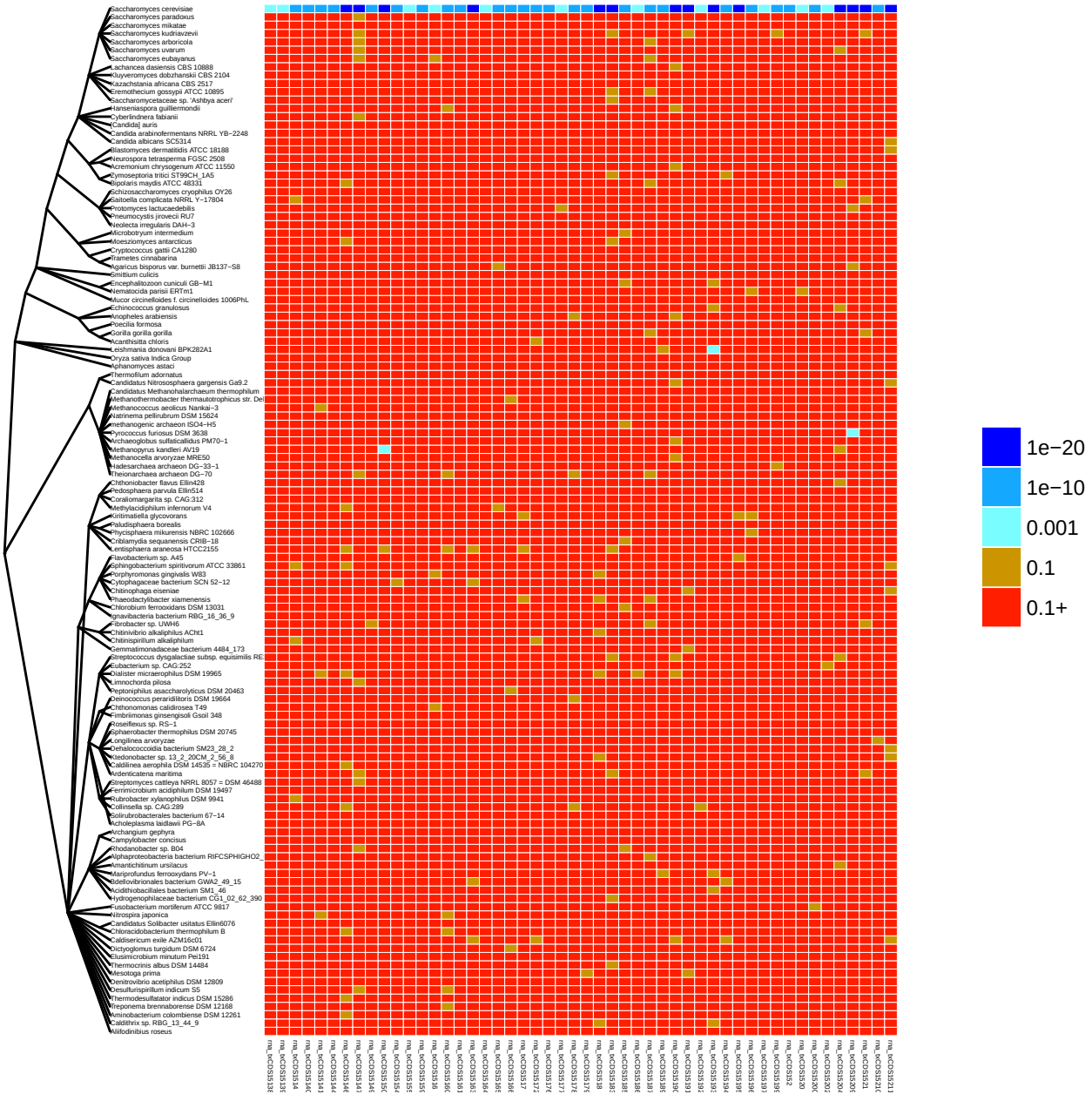

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

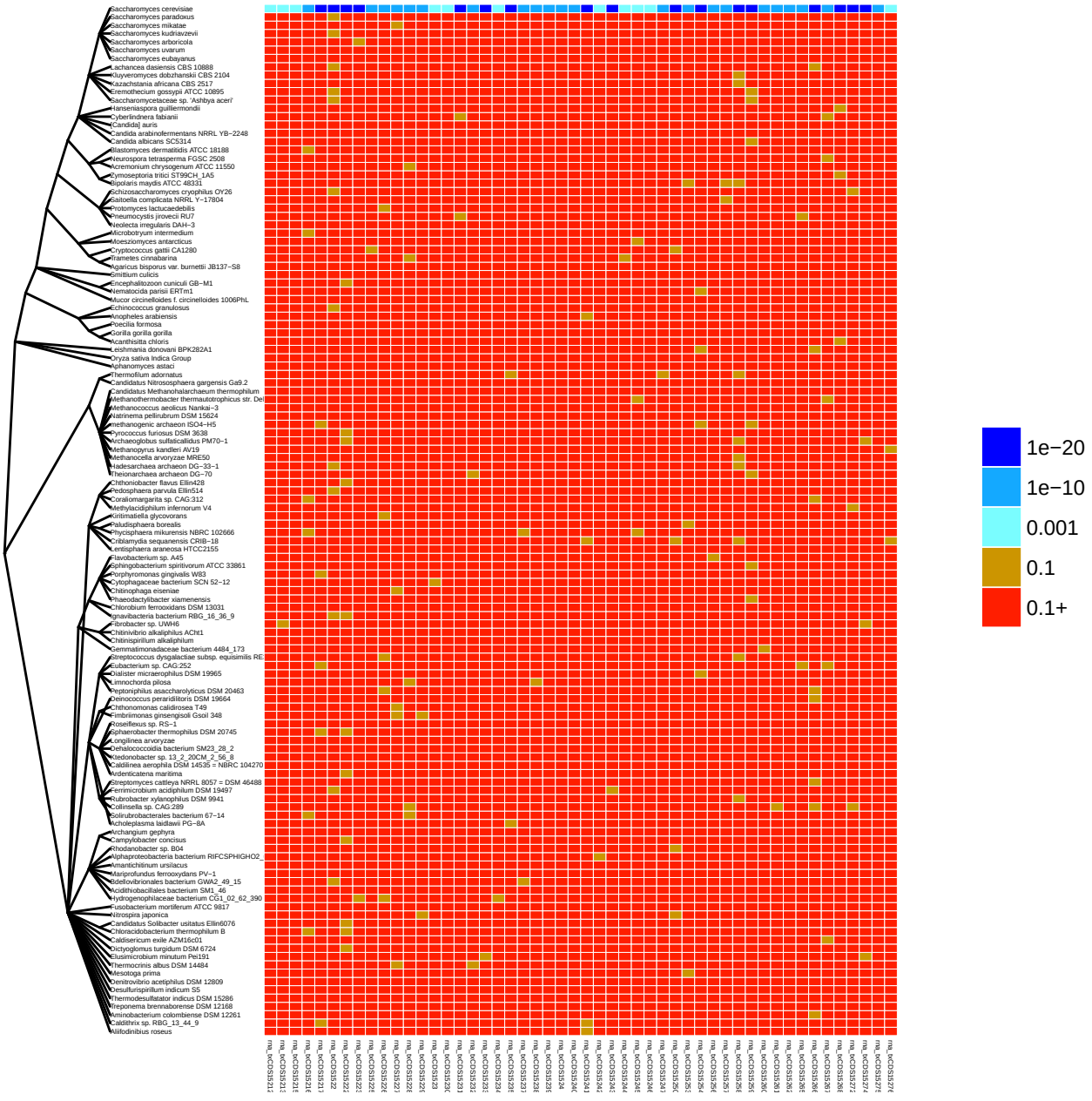

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

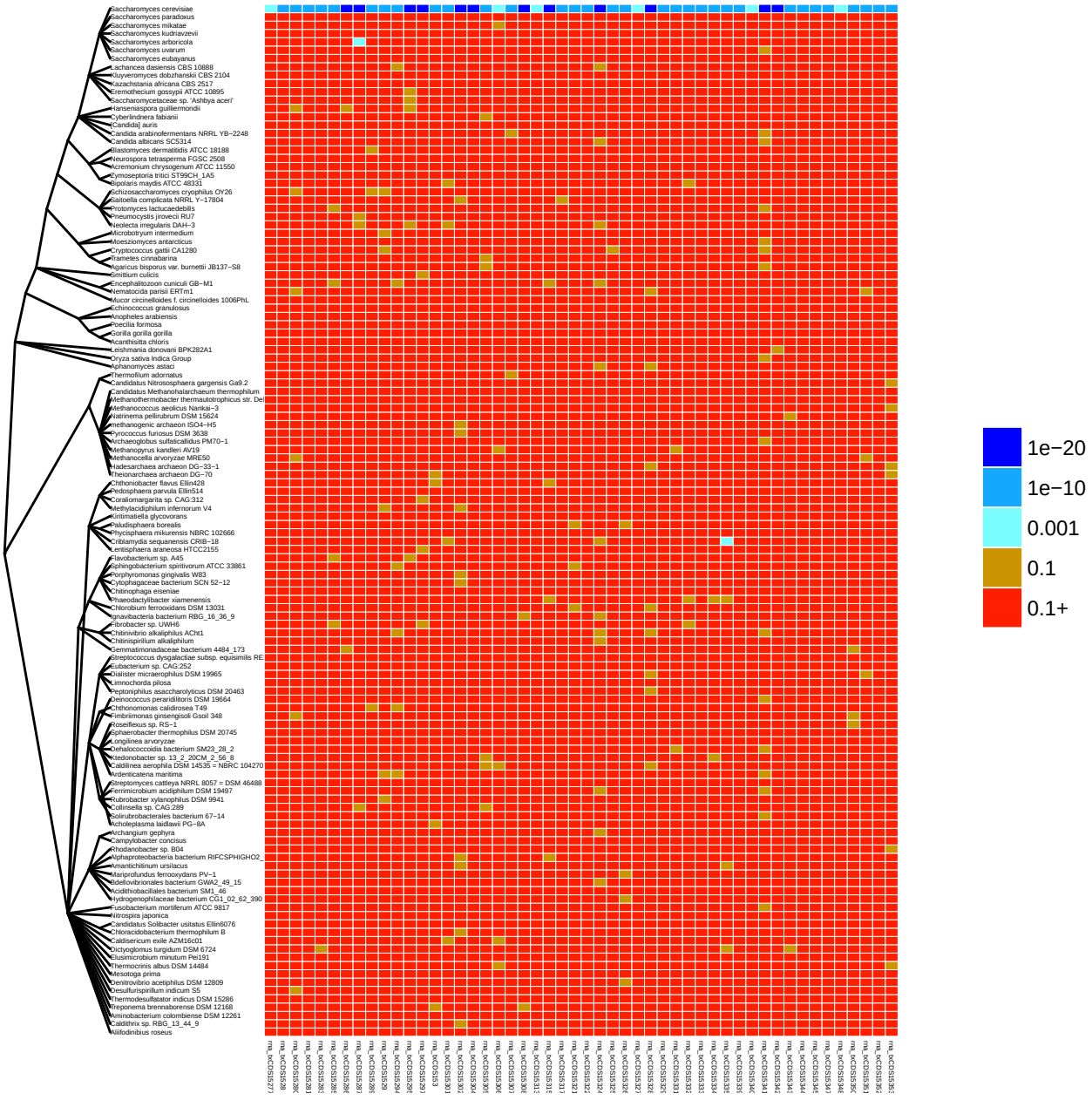

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaboronse DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

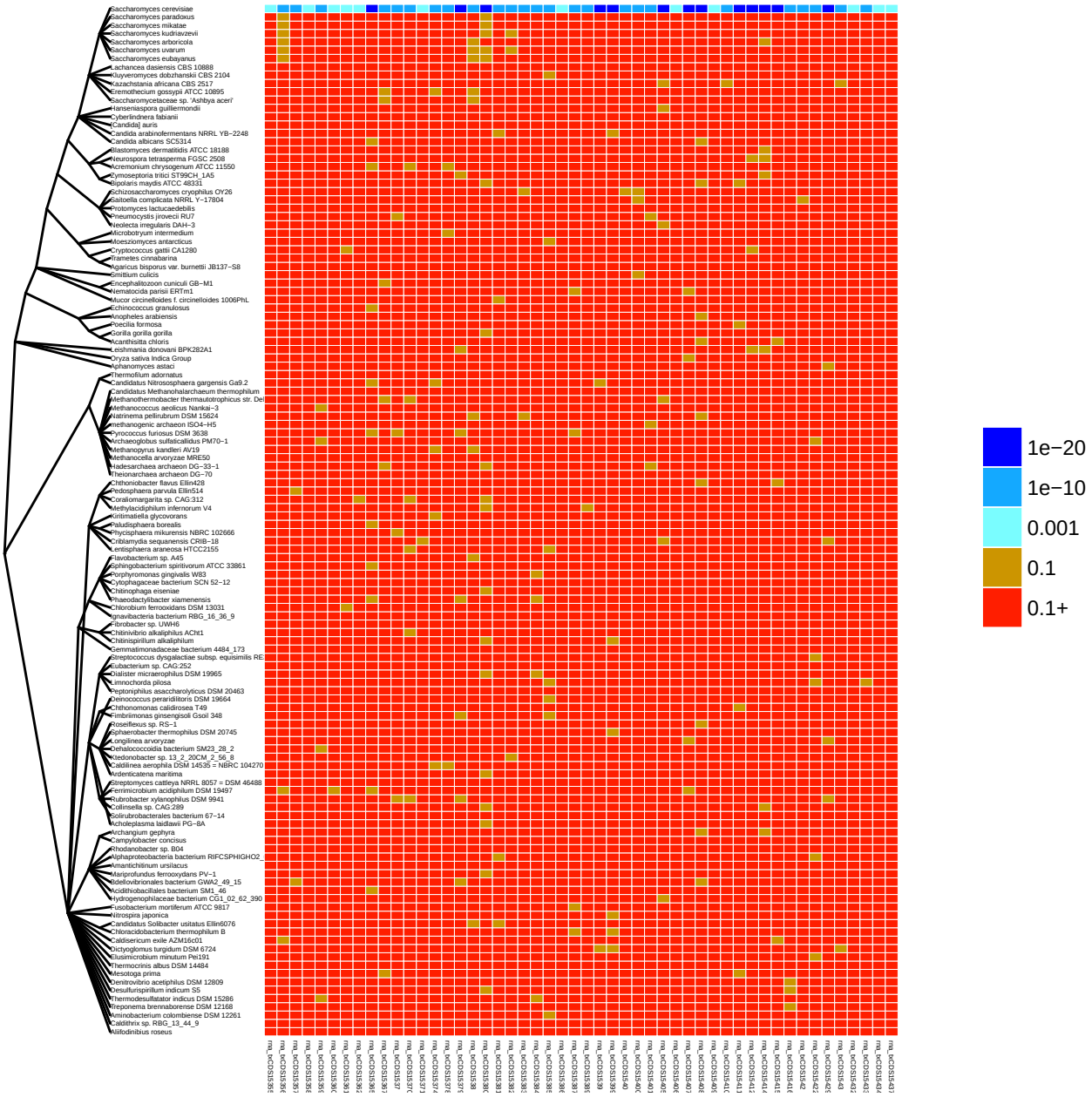

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

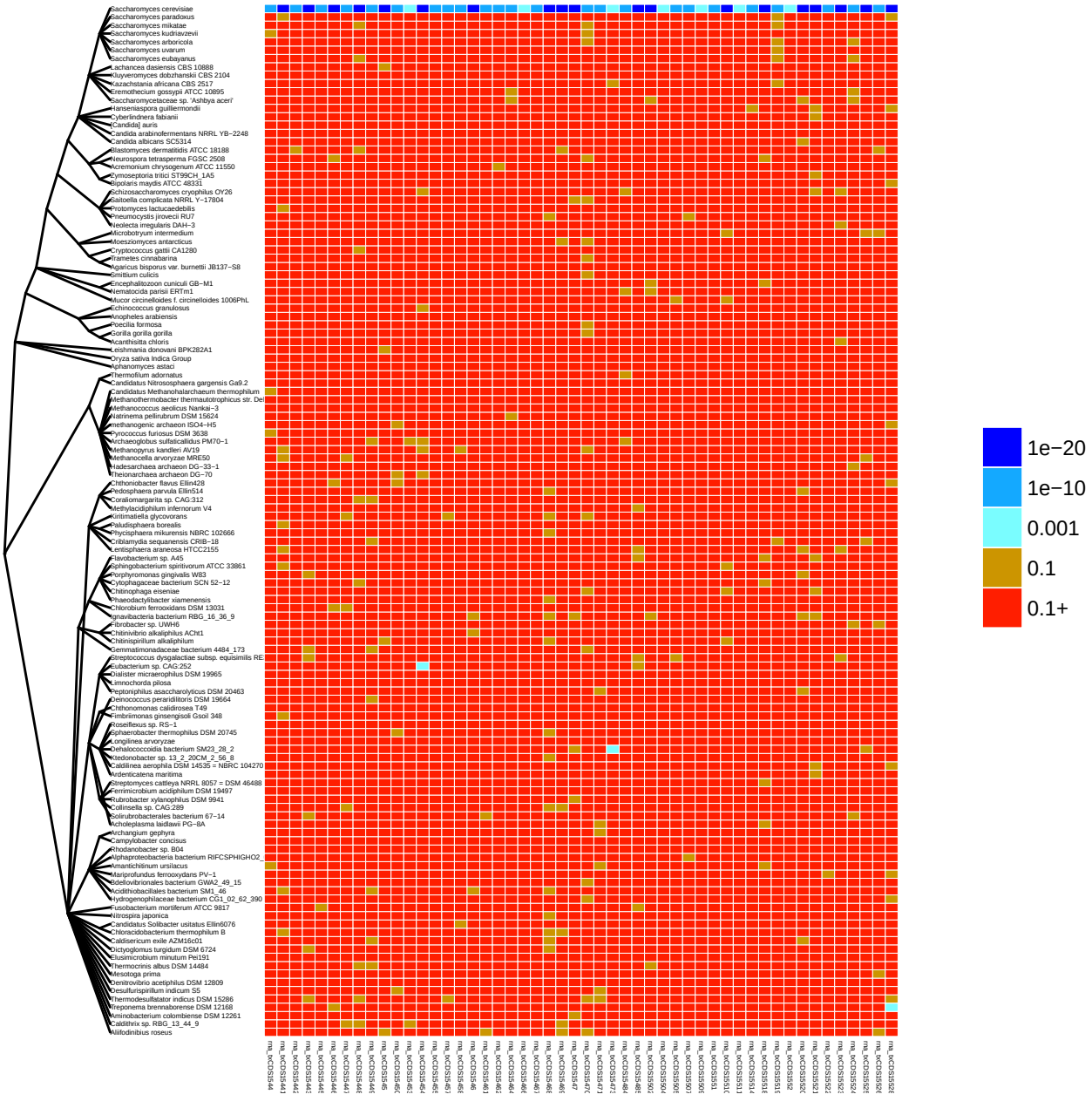

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

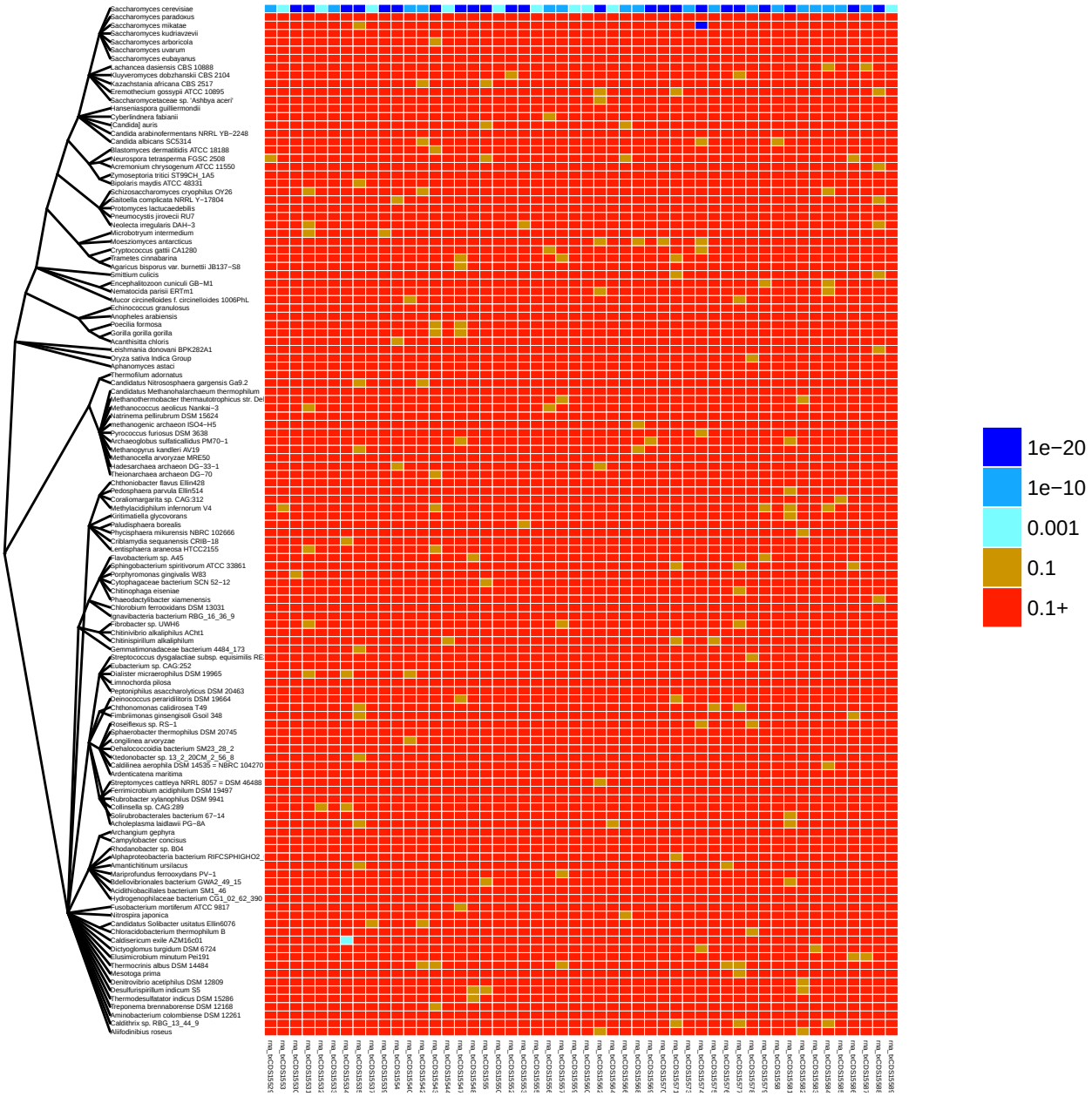

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

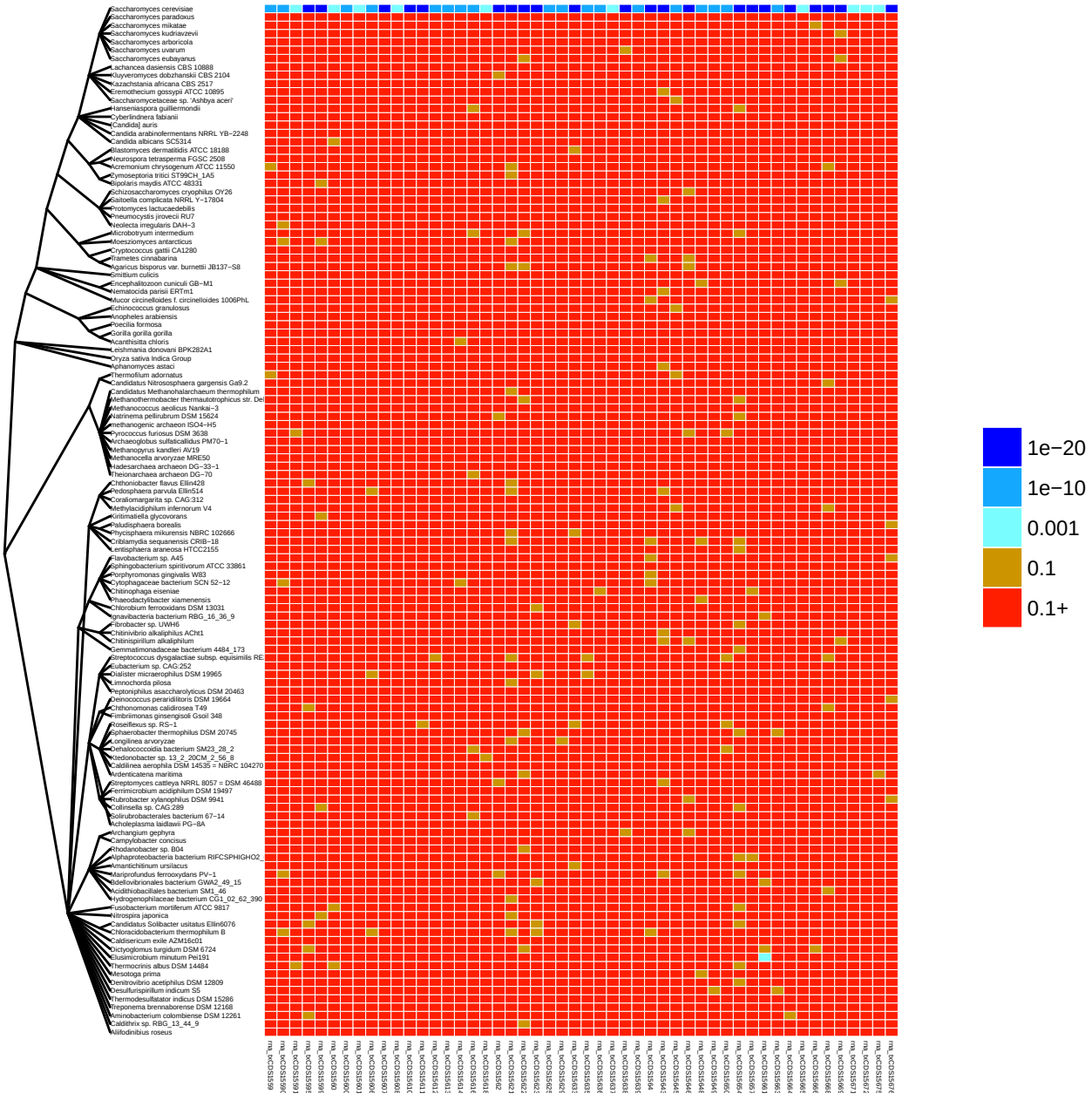

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

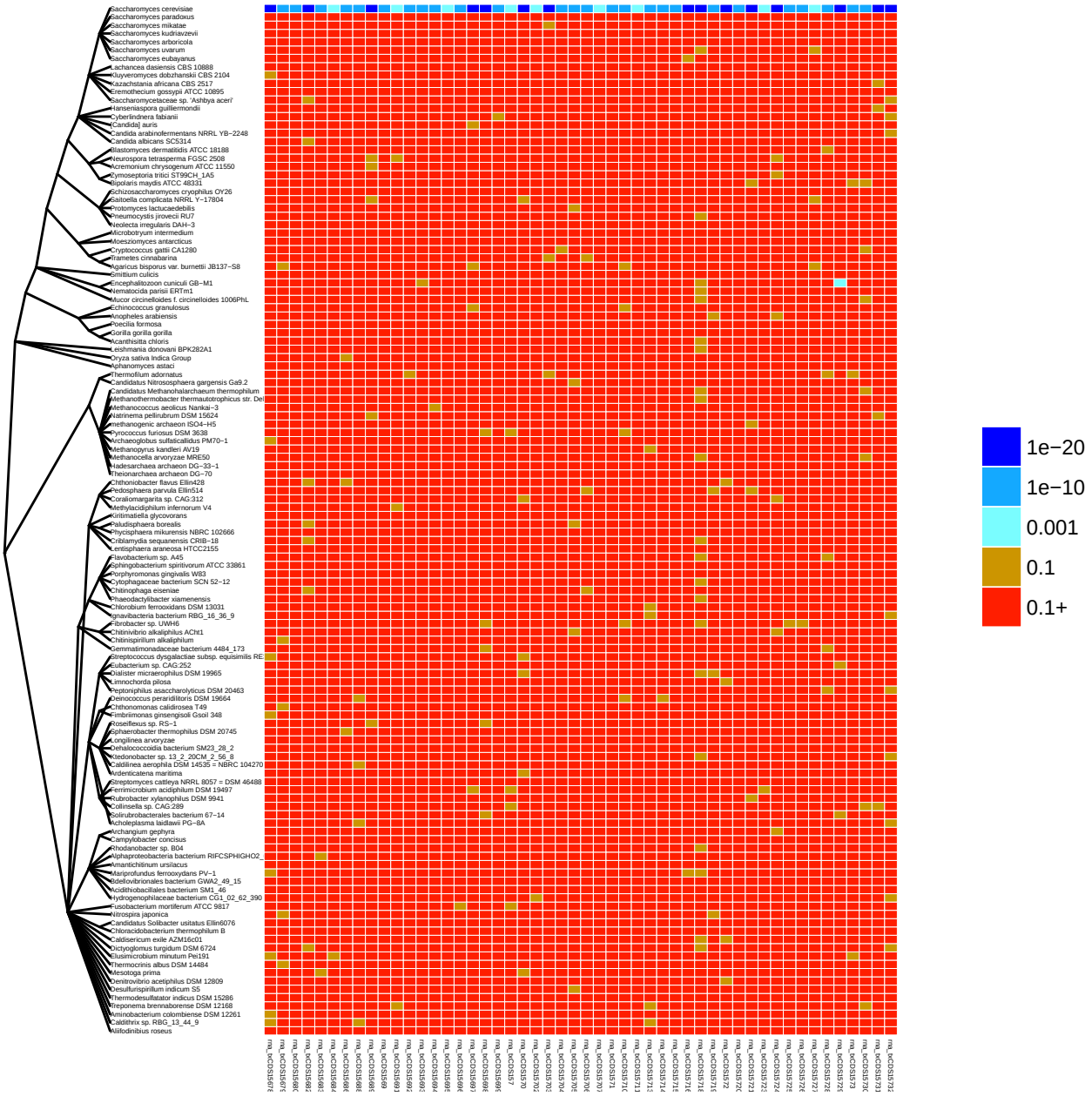

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas ACT3
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis Nitrosotenuis sp. DW2
Candidatus Nitrosotenuis Nitrosotenuis sp. DW4
Candidatus Nitrosotenuis Nitrosotenuis sp. DW5
Candidatus Nitrosotenuis Nitrosotenuis sp. DW6
Candidatus Nitrosotenuis Nitrosotenuis sp. DW7
Candidatus Nitrosotenuis Nitrosotenuis sp. DW8
Candidatus Nitrosotenuis Nitrosotenuis sp. DW9
Candidatus Nitrosotenuis Nitrosotenuis sp. DW10
Candidatus Nitrosotenuis Nitrosotenuis sp. DW11
Candidatus Nitrosotenuis Nitrosotenuis sp.

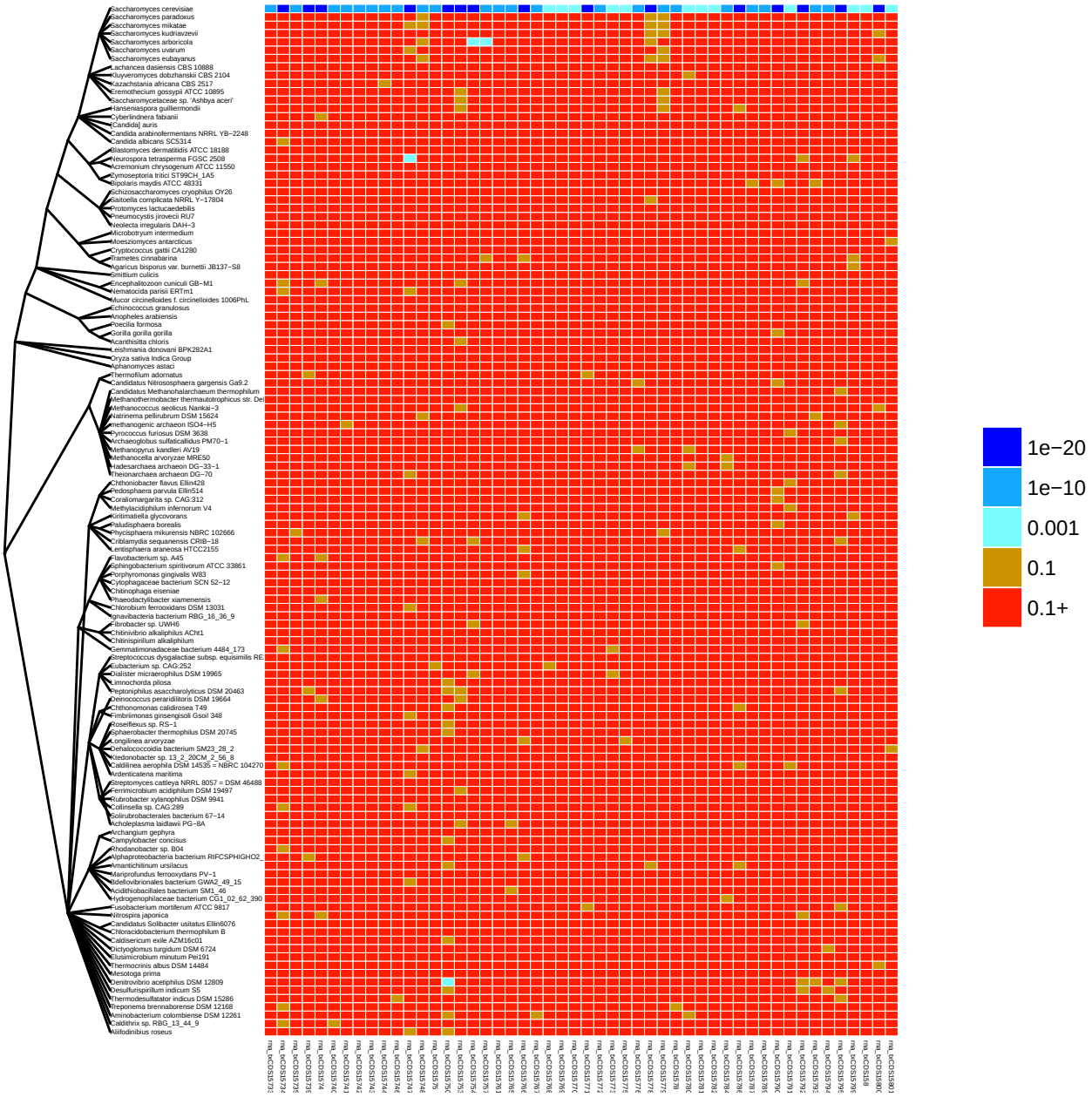

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

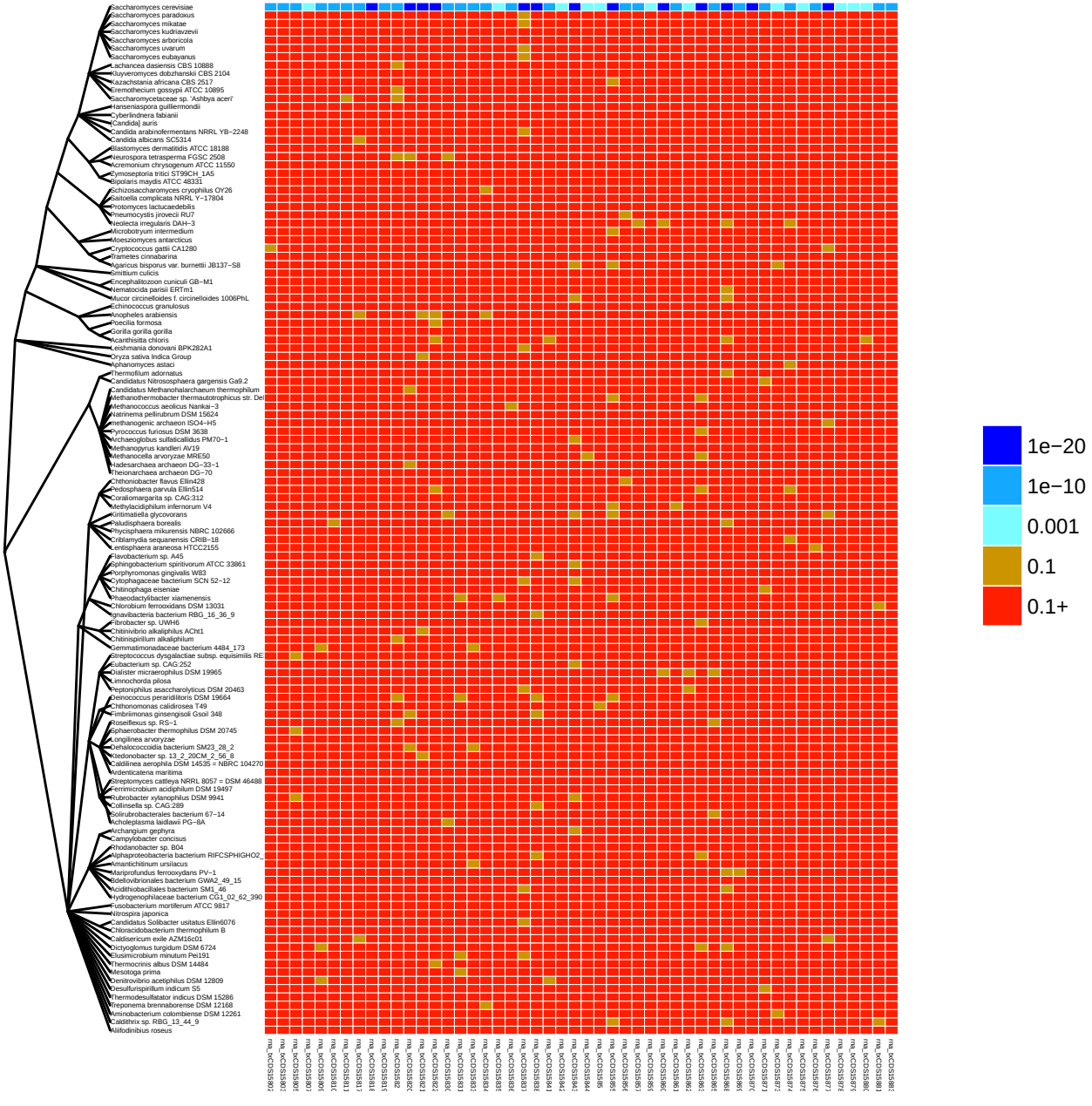

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinitrosus roseus
1e−20
1e−10
0.001
0.1
0.1+

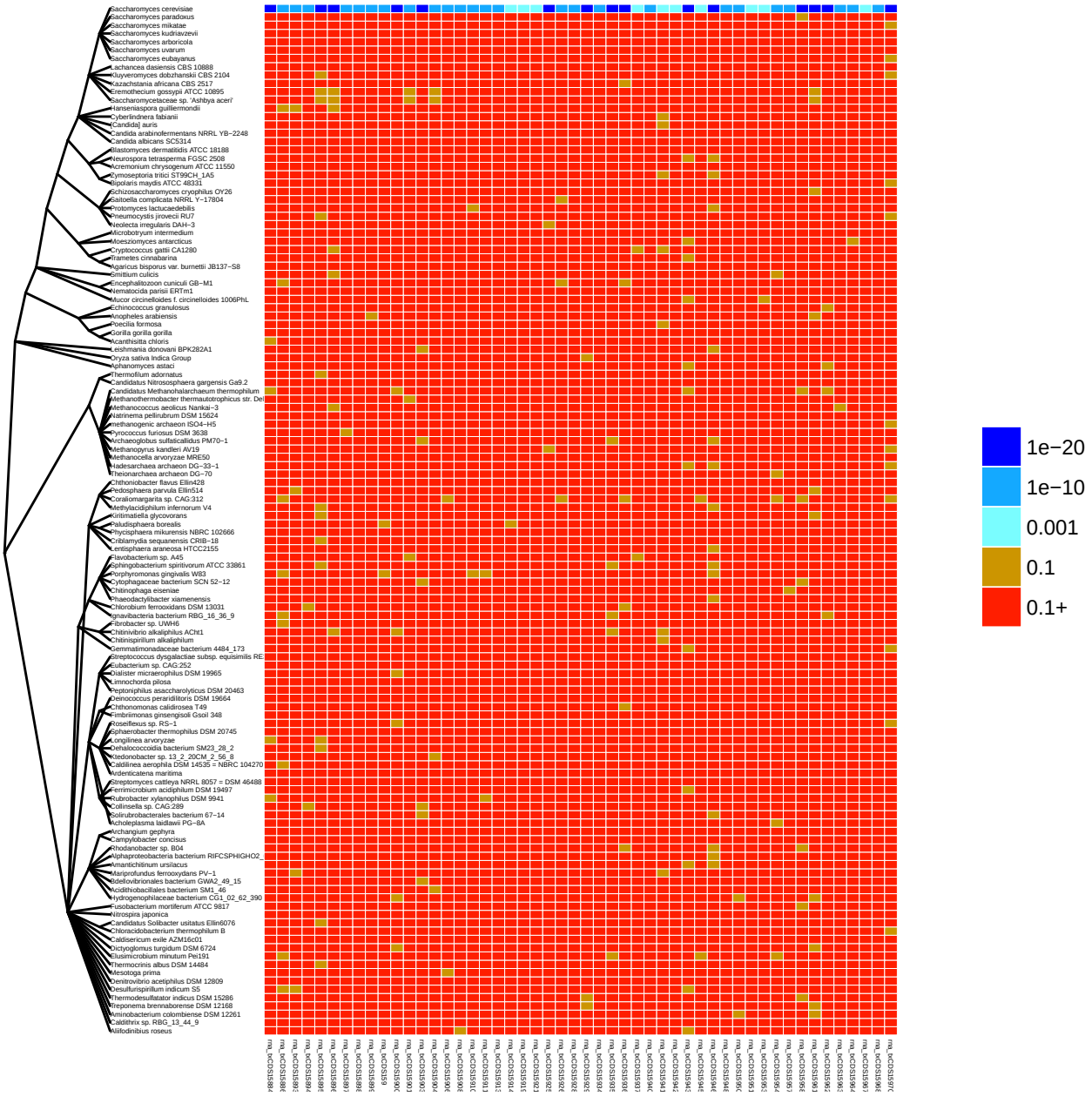

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

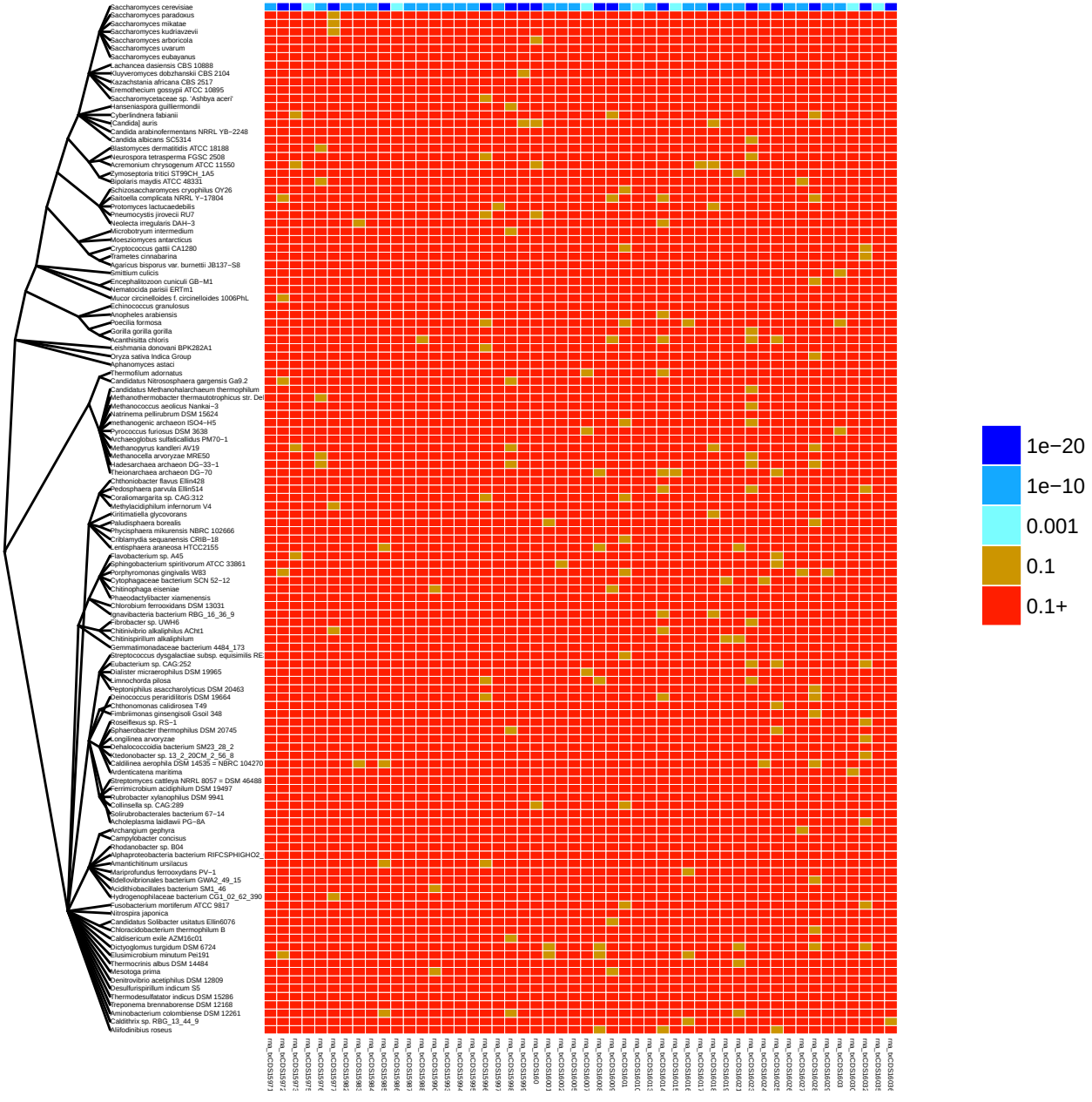

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

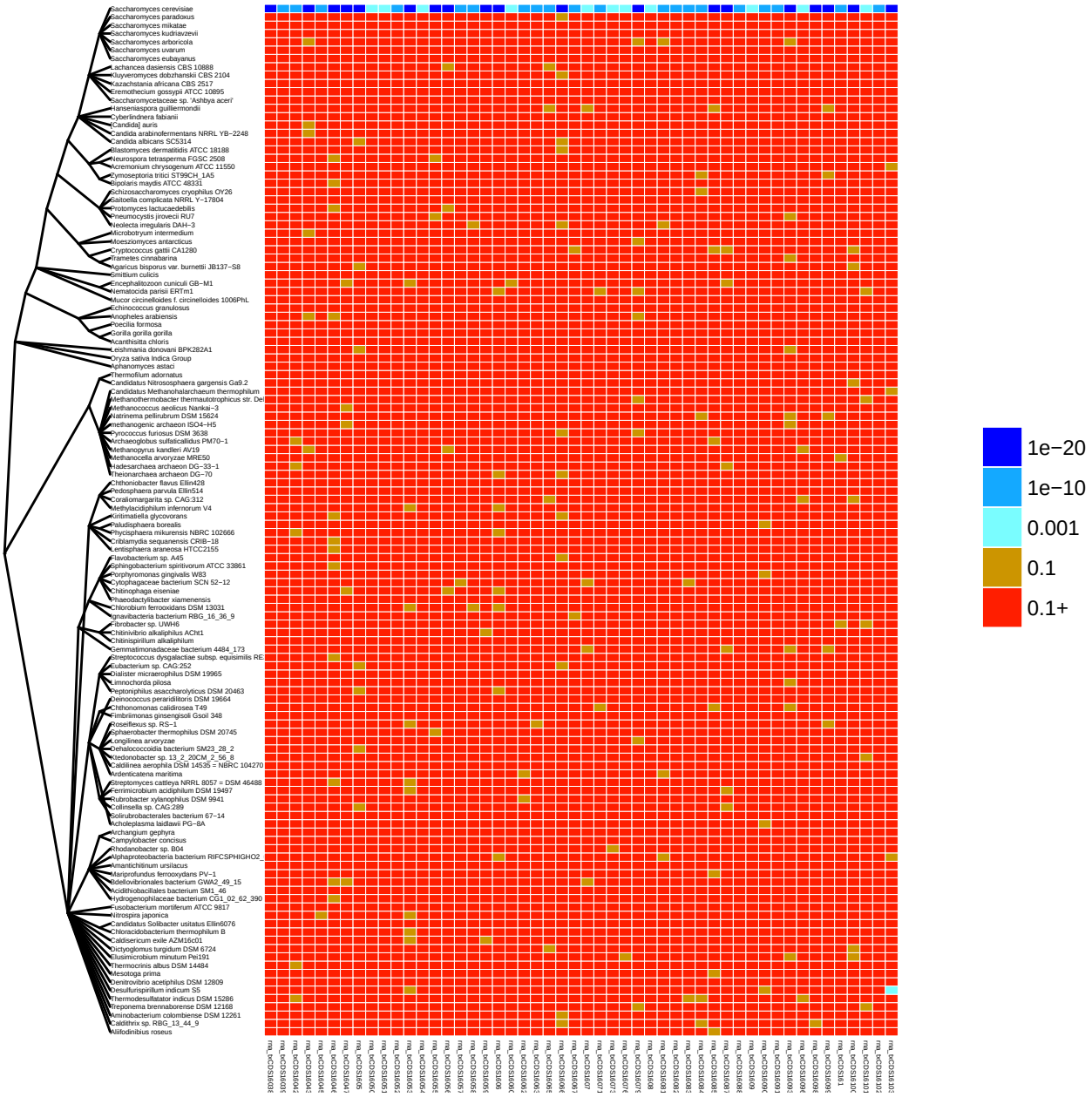

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

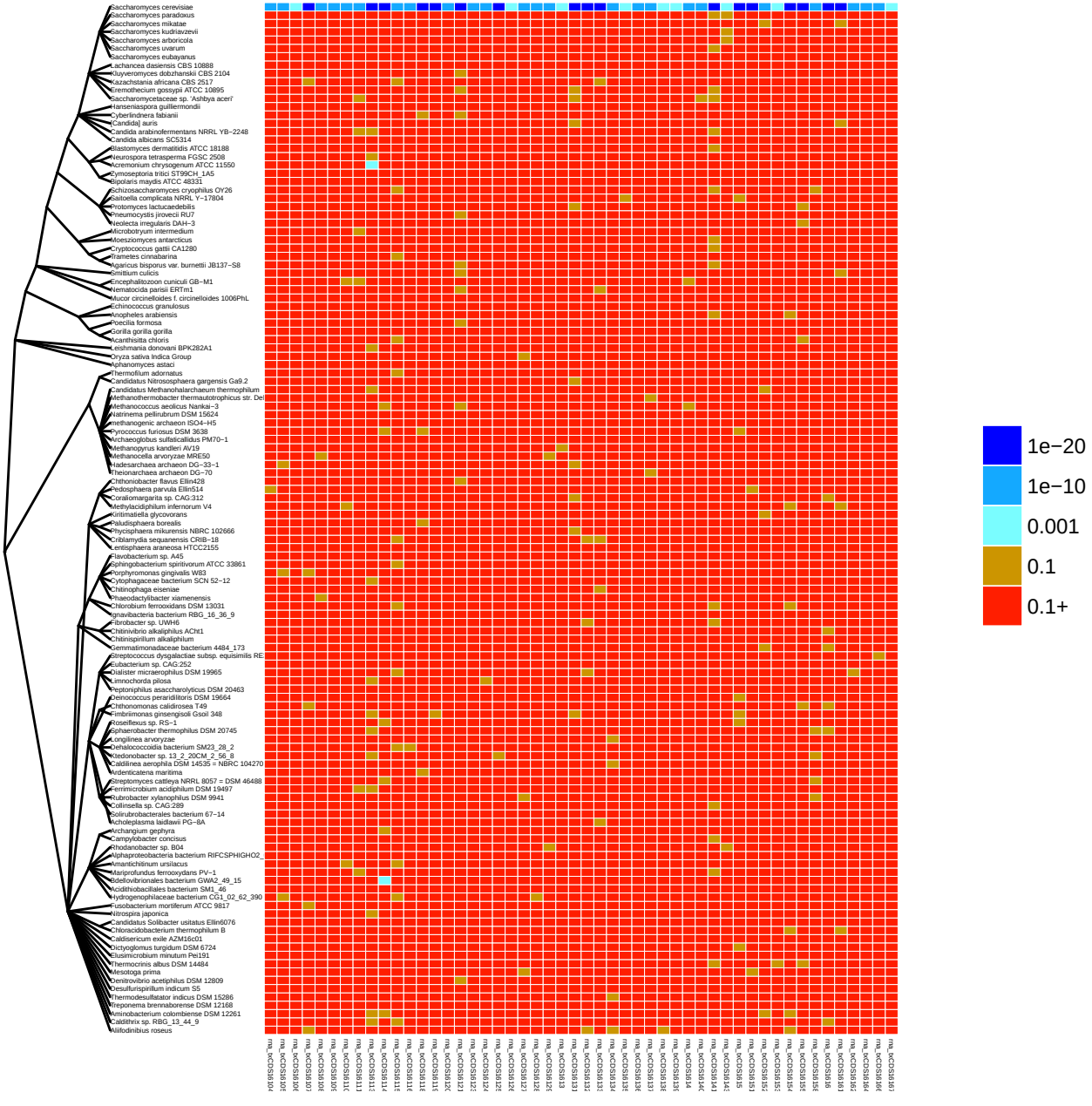

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

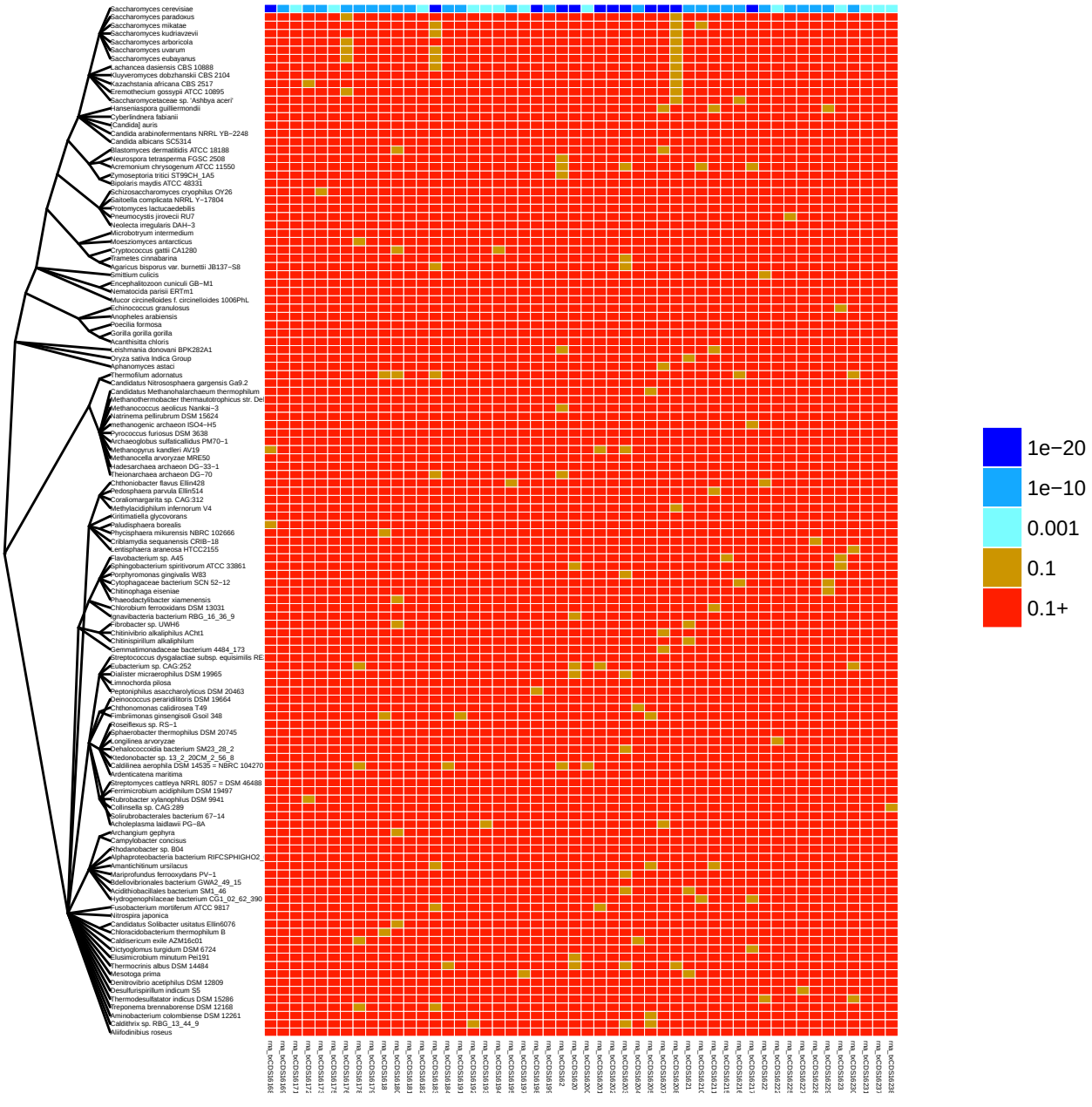

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

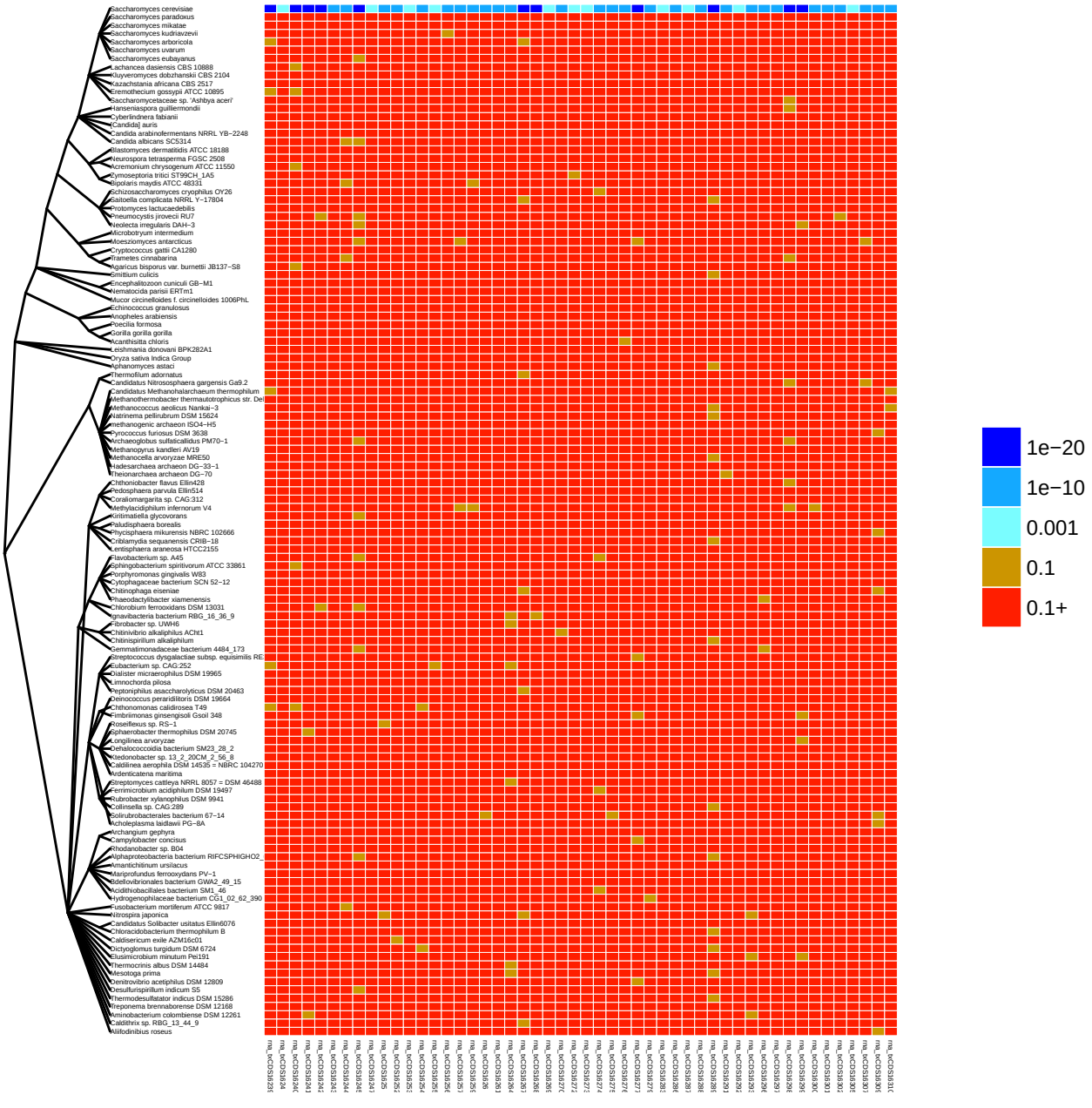

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

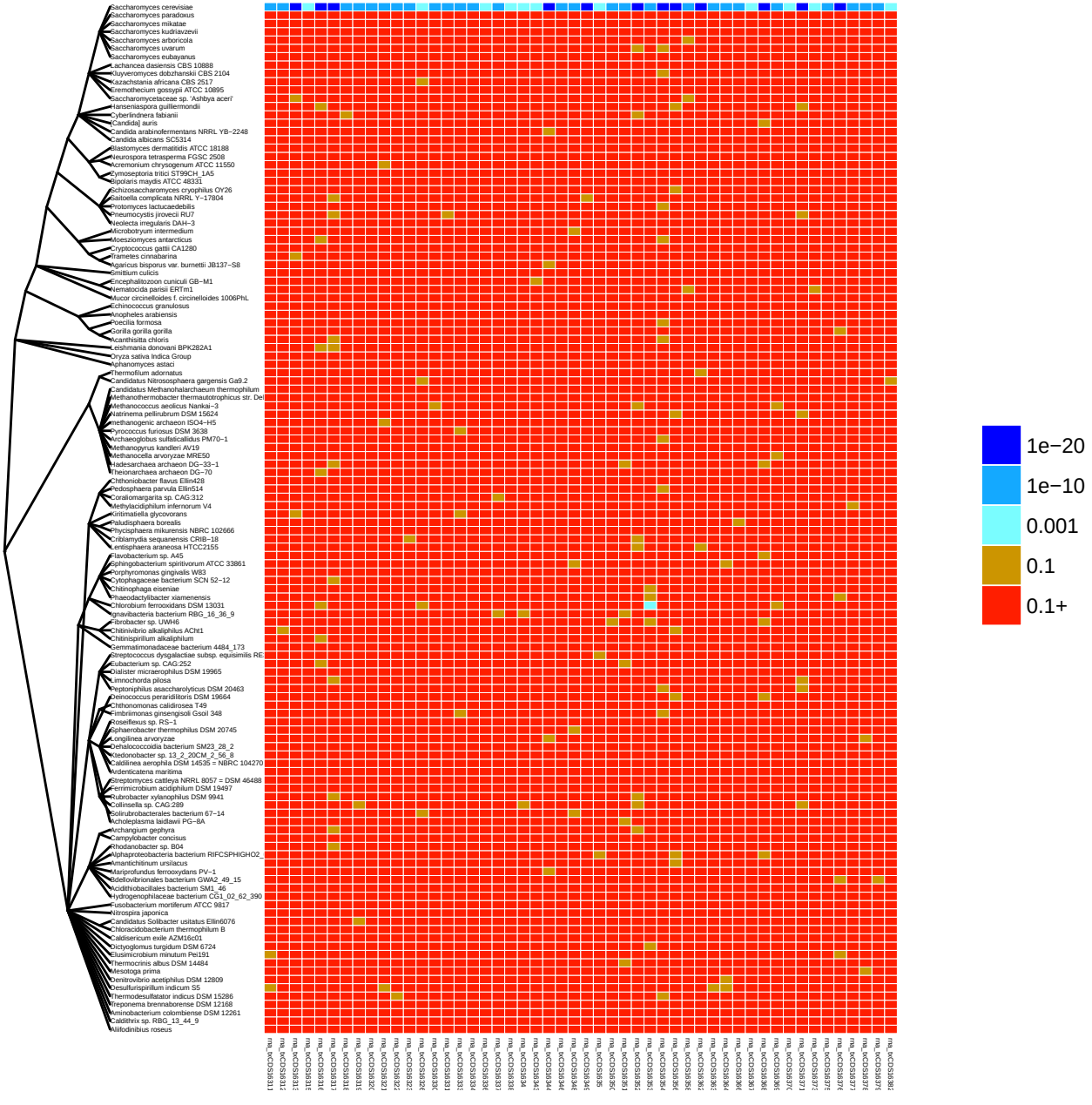

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

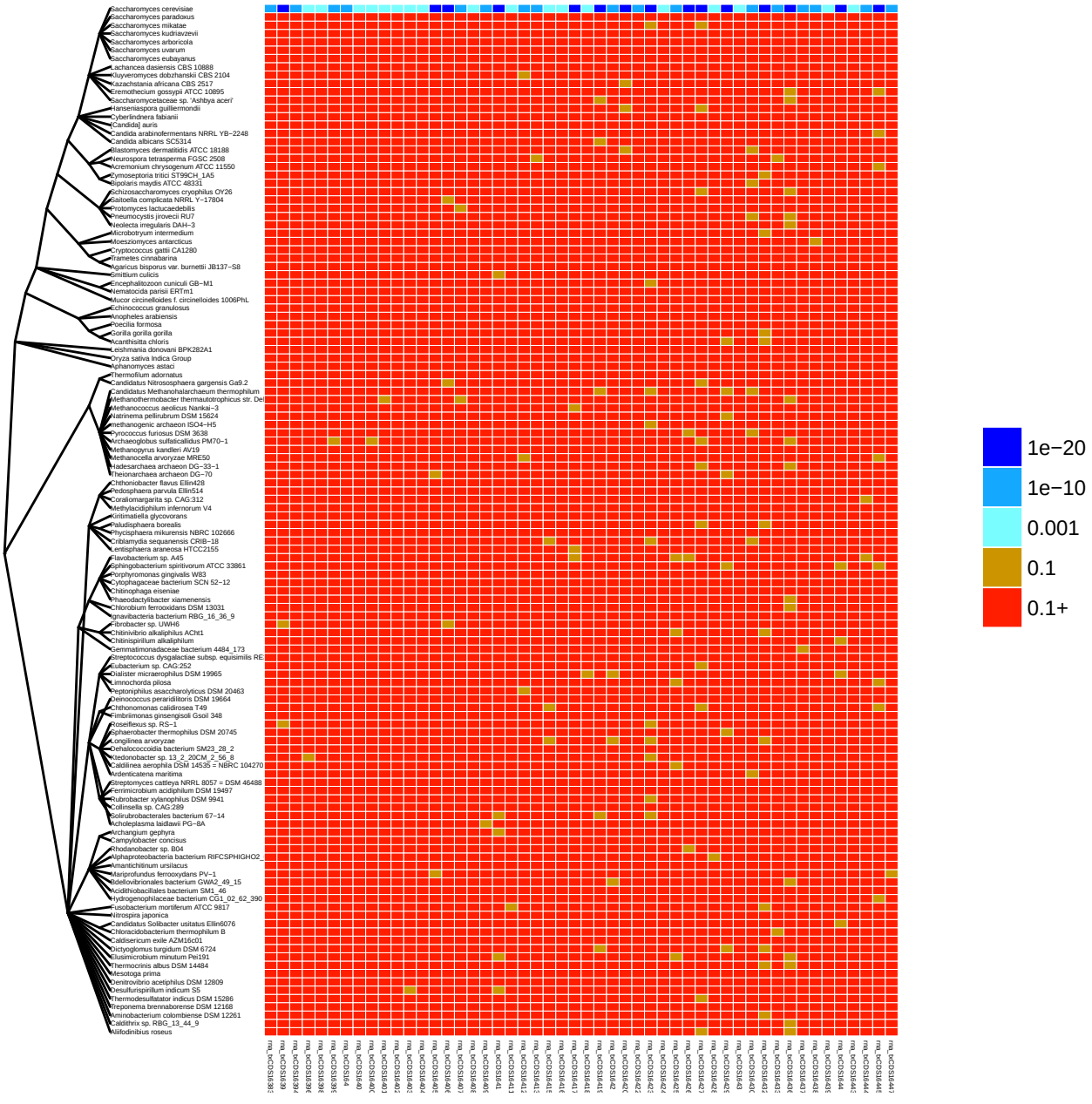

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

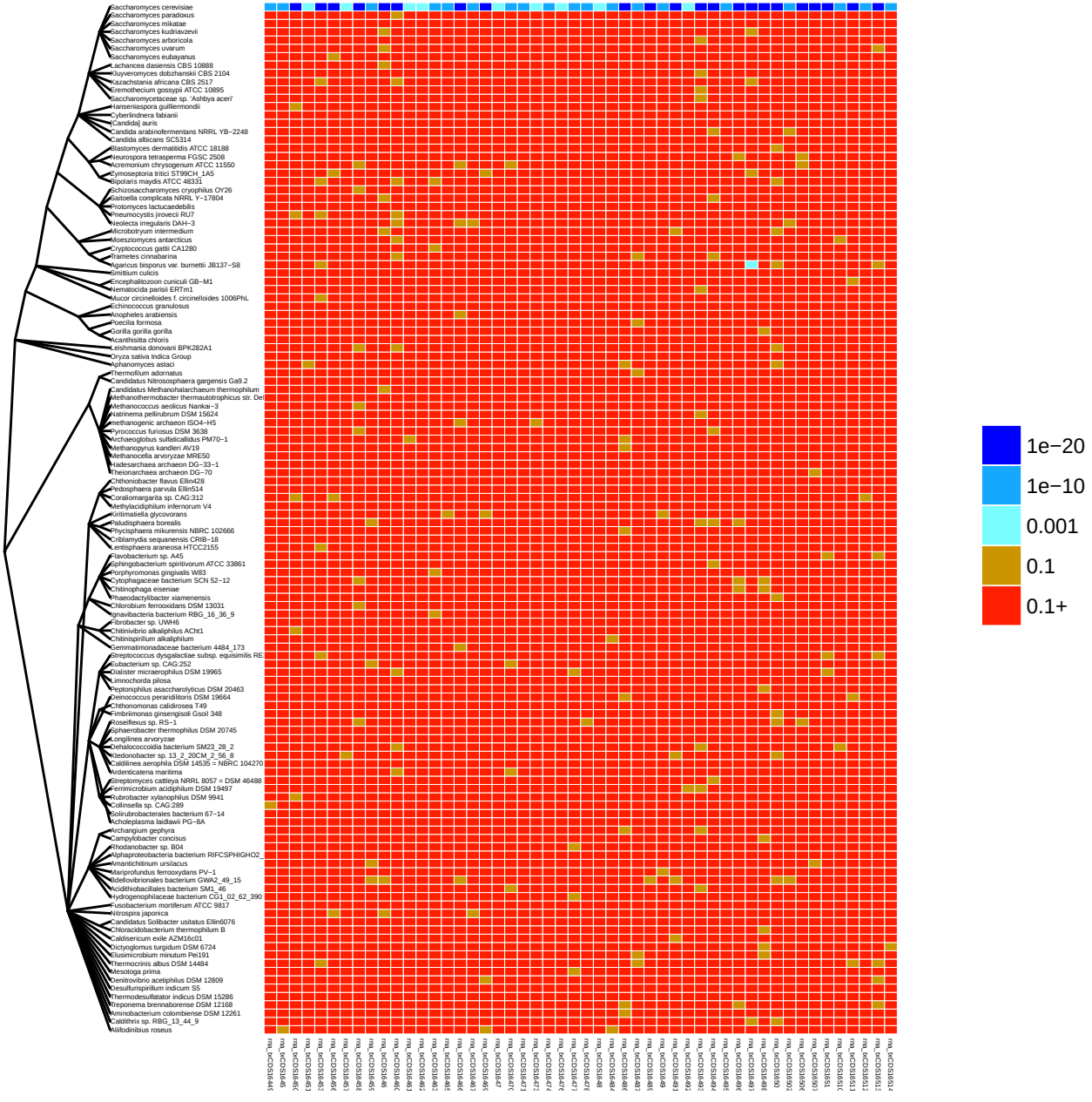

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermotilium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

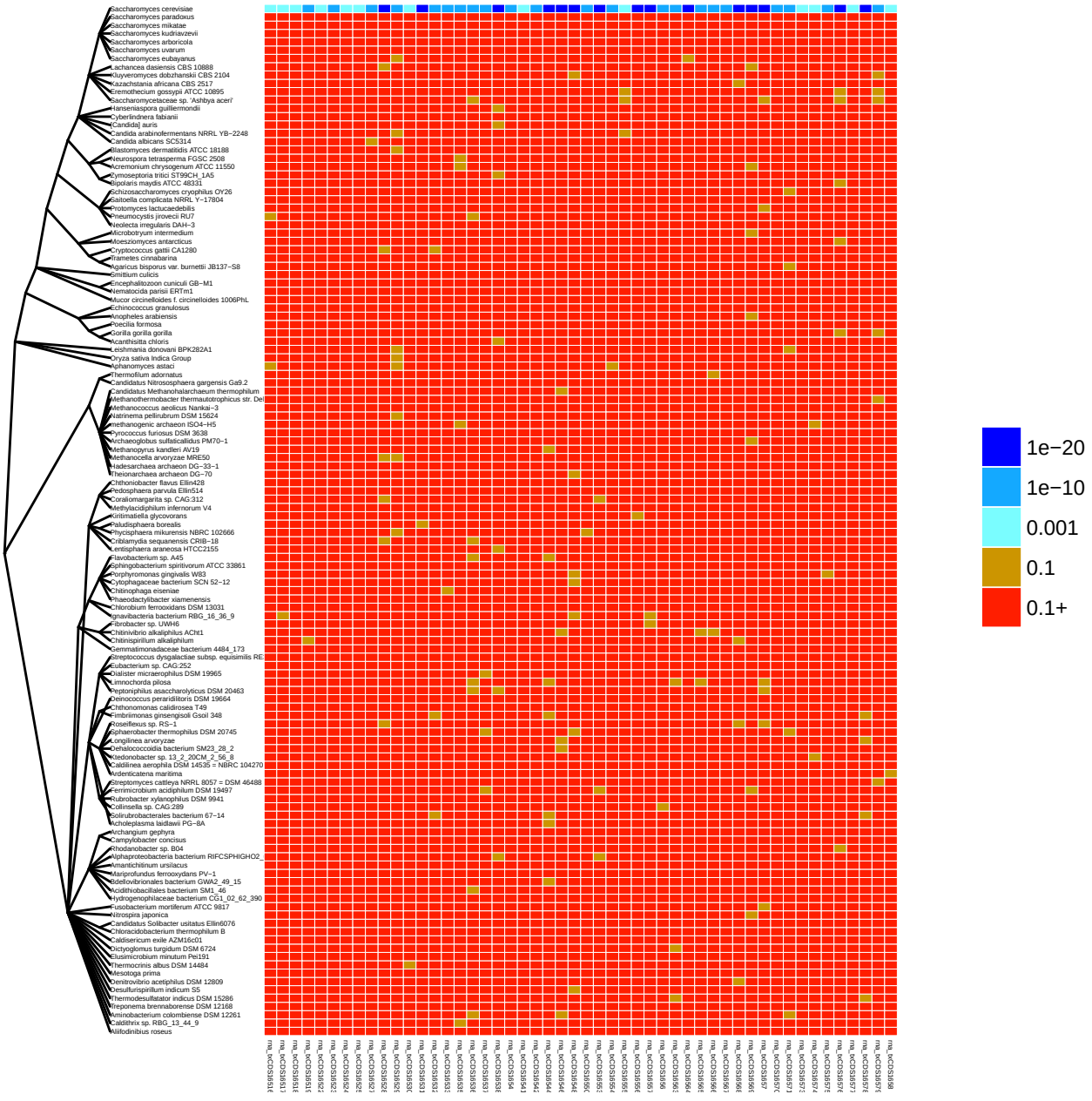

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

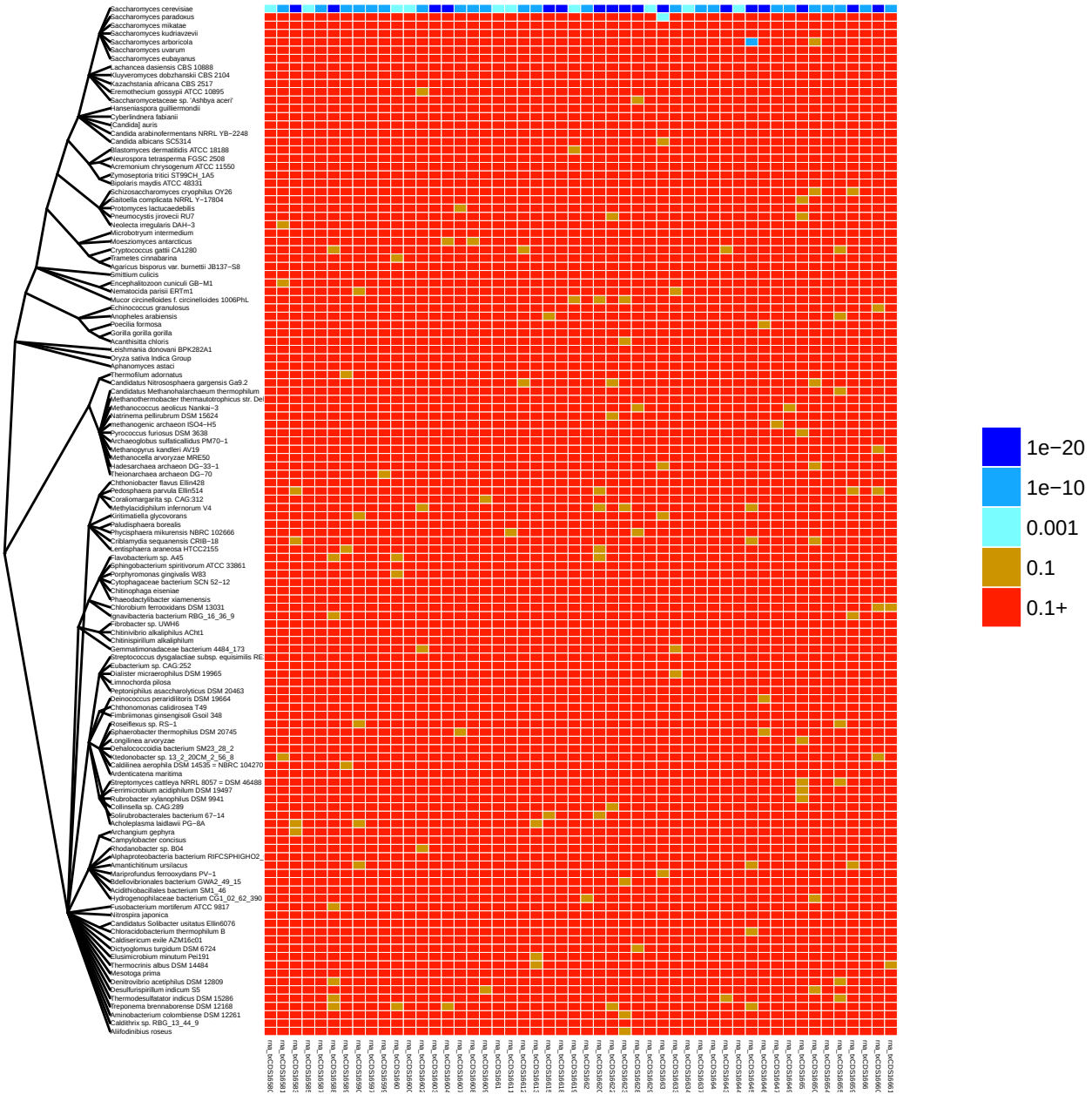

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
Fusobacterium nucleatum subsp. nucleatum ATCC 25586
Fusobacterium nucleatum subsp. nucleatum ATCC 23726
Fusobacterium nucleatum subsp. nucleatum ATCC 23724
Fusobacterium nucleatum subsp. nucleatum ATCC 23730
Fusobacterium nucleatum subsp. nucleatum ATCC 23722
Fusobacterium nucleatum subsp. nucleatum ATCC 23756
Fusobacterium nucleatum subsp. nucleatum ATCC 23754
Fusobacterium nucleatum subsp. nucleatum ATCC 23758
Fusobacterium nucleatum subsp. nucleatum ATCC 23757
Fusobacterium nucleatum subsp. nucleatum ATCC 23755
Fusobacterium nucleatum subsp. nucleatum ATCC 23753
Fusobacterium nucleatum subsp. nucleatum ATCC 23752
Fusobacterium nucleatum subsp. nucleatum ATCC 23751
Fusobacterium nucleatum subsp. nucleatum ATCC 23750
Fusobacterium nucleatum subsp. nucleatum ATCC 23749
Fusobacterium nucleatum subsp. nucleatum ATCC 23748
Fusobacterium nucleatum subsp. nucleatum ATCC 23747
Fusobacterium nucleatum subsp. nucleatum ATCC 23746
Fusobacterium nucleatum subsp. nucleatum ATCC 23745
Fusobacterium nucleatum subsp. nucleatum ATCC 23744
Fusobacterium nucleatum subsp. nucleatum ATCC 23743
Fusobacterium nucleatum subsp. nucleatum ATCC 23742
Fusobacterium nucleatum subsp. nucleatum ATCC 23741
Fusobacterium nucleatum subsp. nucleatum ATCC 23740
Fusobacterium nucleatum subsp. nucleatum ATCC 23739
Fusobacterium nucleatum subsp. nucleatum ATCC 23738
Fusobacterium nucleatum subsp. nucleatum ATCC 23737
Fusobacterium nucleatum subsp. nucleatum ATCC 23736
Fusobacterium nucleatum subsp. nucleatum ATCC 23735
Fusobacterium nucleatum subsp. nucleatum ATCC 23734
Fusobacterium nucleatum subsp. nucleatum ATCC 23733
Fusobacterium nucleatum subsp. nucleatum ATCC 23732
Fusobacterium nucleatum subsp. nucleatum ATCC 23731
Fusobacterium nucleatum subsp. nucleatum ATCC 23730
Fusobacterium nucleatum subsp. nucleatum ATCC 23729
Fusobacterium nucleatum subsp. nucleatum ATCC 23728
Fusobacterium nucleatum subsp. nucleatum ATCC 23727
Fusobacterium nucleatum subsp. nucleatum ATCC 23726
Fusobacterium nucleatum subsp. nucleatum ATCC 23725
Fusobacterium nucleatum subsp. nucleatum ATCC 23724
Fusobacterium nucleatum subsp. nucleatum ATCC 23723
Fusobacterium nucleatum subsp. nucleatum ATCC 23722
Fusobacterium nucleatum subsp. nucleatum ATCC 23721
Fusobacterium nucleatum subsp. nucleatum ATCC 23720
Fusobacterium nucleatum subsp. nucleatum ATCC 23719
Fusobacterium nucleatum subsp. nucleatum ATCC 23718
Fusobacterium nucleatum subsp. nucleatum ATCC 23717
Fusobacterium nucleatum subsp. nucleatum ATCC 23716
Fusobacterium nucleatum subsp. nucleatum ATCC 23715
Fusobacterium nucleatum subsp. nucleatum ATCC 23714
Fusobacterium nucleatum subsp. nucleatum ATCC 23713
Fusobacterium nucleatum subsp. nucleatum ATCC 23712
Fusobacterium nucleatum subsp. nucleatum ATCC 23711
Fusobacterium nucleatum subsp. nucleatum ATCC 23710
Fusobacterium nucleatum subsp. nucleatum ATCC 23709
Fusobacterium nucleatum subsp. nucleatum ATCC 23708
Fusobacterium nucleatum subsp. nucleatum ATCC 23707
Fusobacterium nucleatum subsp. nucleatum ATCC 23706
Fusobacterium nucleatum subsp. nucleatum ATCC 23705
Fusobacterium nucleatum subsp. nucleatum ATCC 23704
Fusobacterium nucleatum subsp. nucleatum ATCC 23703
Fusobacterium nucleatum subsp. nucleatum ATCC 23702
Fusobacterium nucleatum subsp. nucleatum ATCC 23701
Fusobacterium nucleatum subsp. nucleatum ATCC 23700
Fusobacterium nucleatum subsp. nucleatum ATCC 23699
Fusobacterium nucleatum subsp. nucleatum ATCC 23698
Fusobacterium nucleatum subsp. nucleatum ATCC 23697
Fusobacterium nucleatum subsp. nucleatum ATCC 23696
Fusobacterium nucleatum subsp. nucleatum ATCC 23695
Fusobacterium nucleatum subsp. nucleatum ATCC 23694
Fusobacterium nucleatum subsp. nucleatum ATCC 23693
Fusobacterium nucleatum subsp. nucleatum ATCC 23692
Fusobacterium nucleatum subsp. nucleatum ATCC 23691
Fusobacterium nucleatum subsp. nucleatum ATCC 23690
1e−20
1e−10
0.001
0.1
0.1+

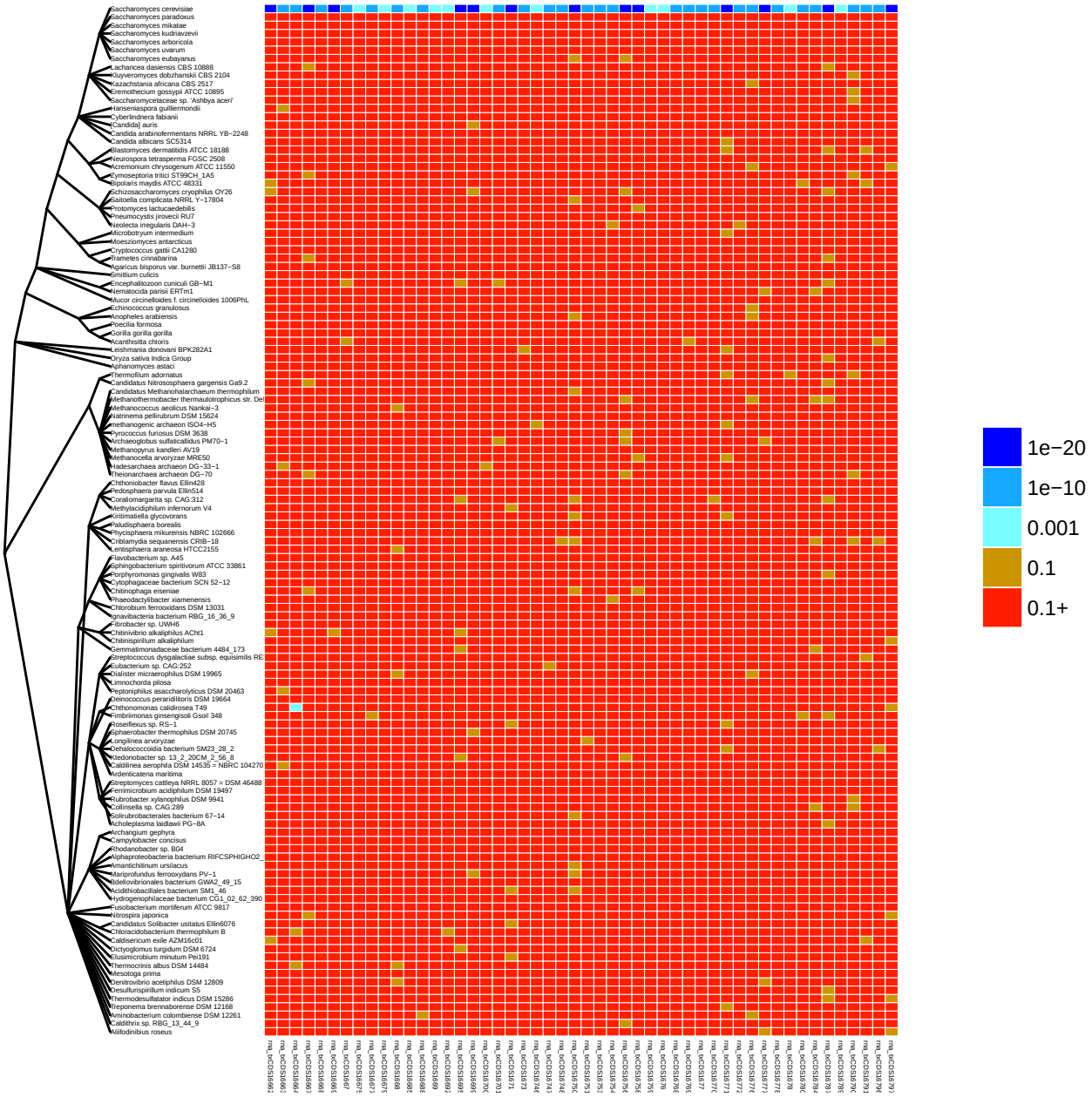

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

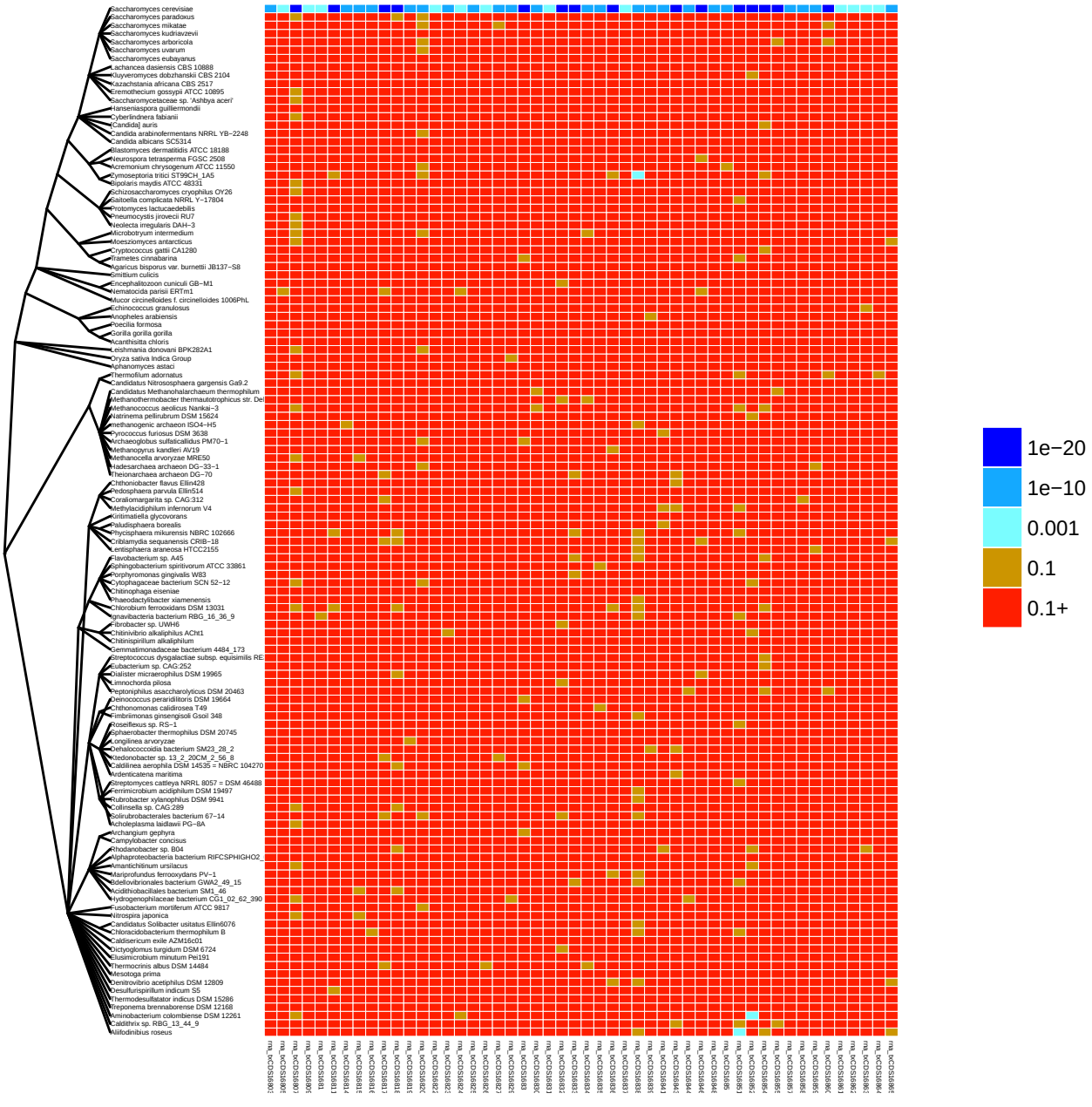

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

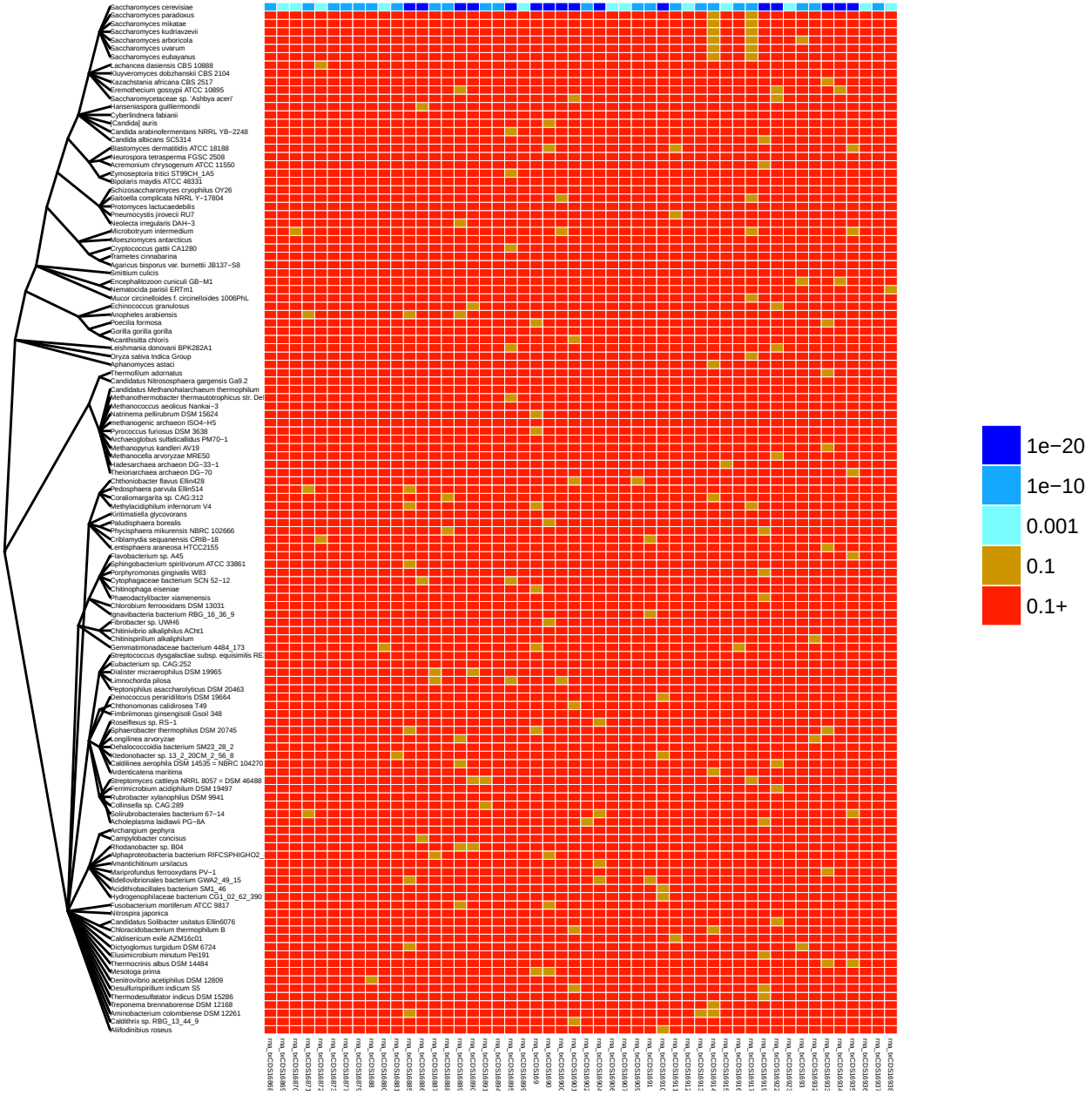

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromarga sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

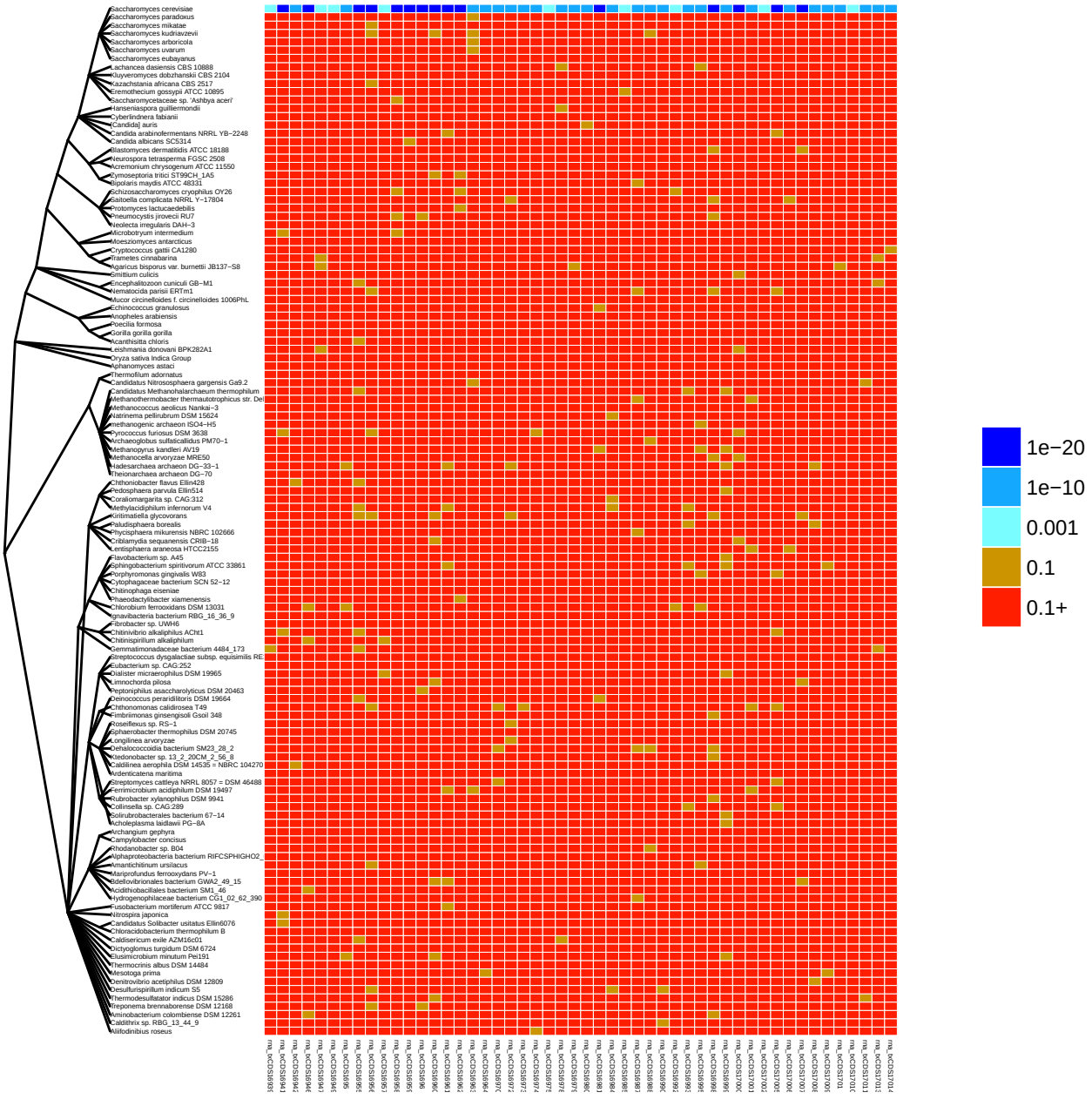

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

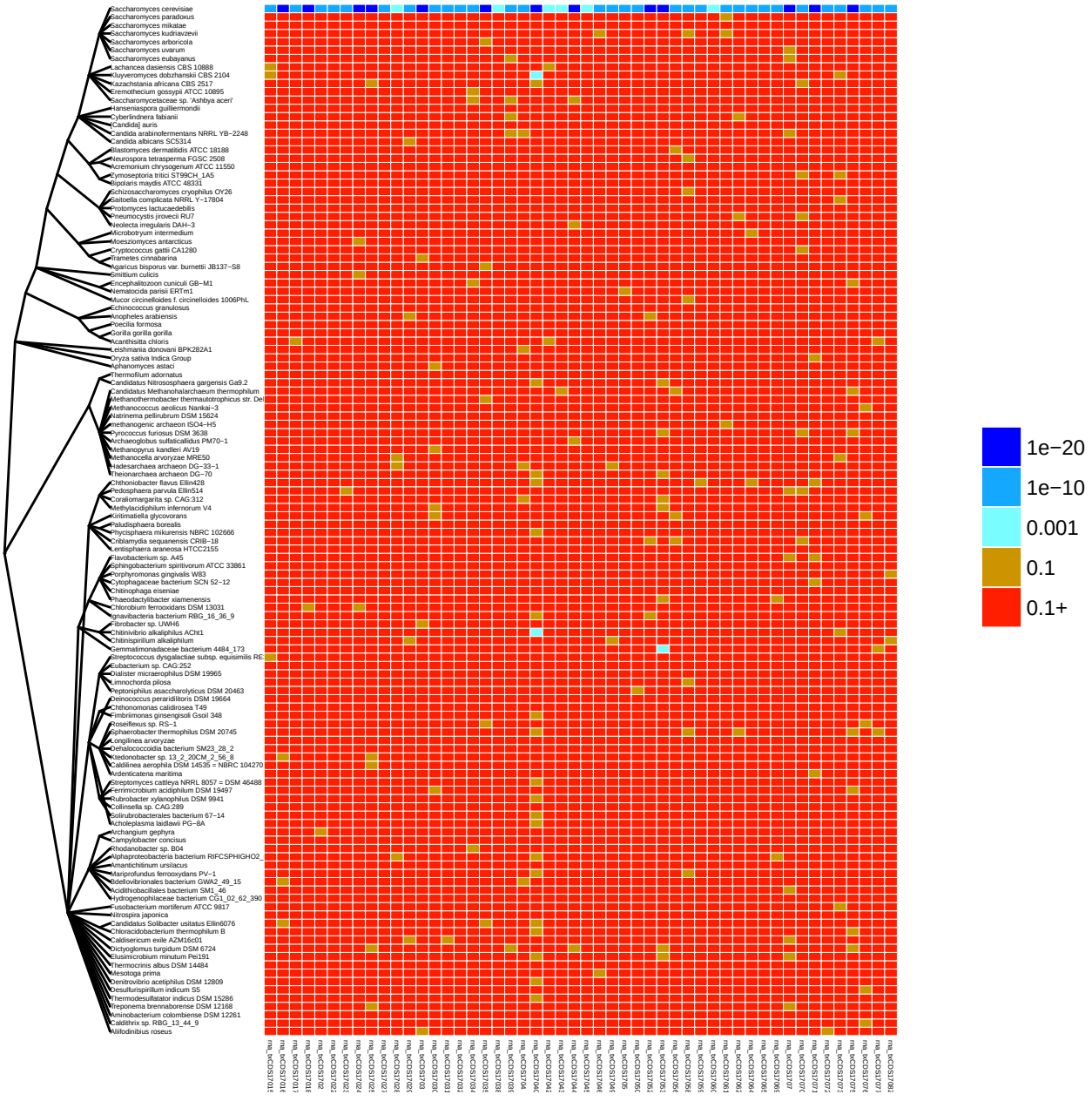

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthonio
Pedosphaera parvula Ellin514
Coralloma
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eisenia
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrospirae
Nitrospira
Nitrospirae
Nitrospirae
Nitrospirae

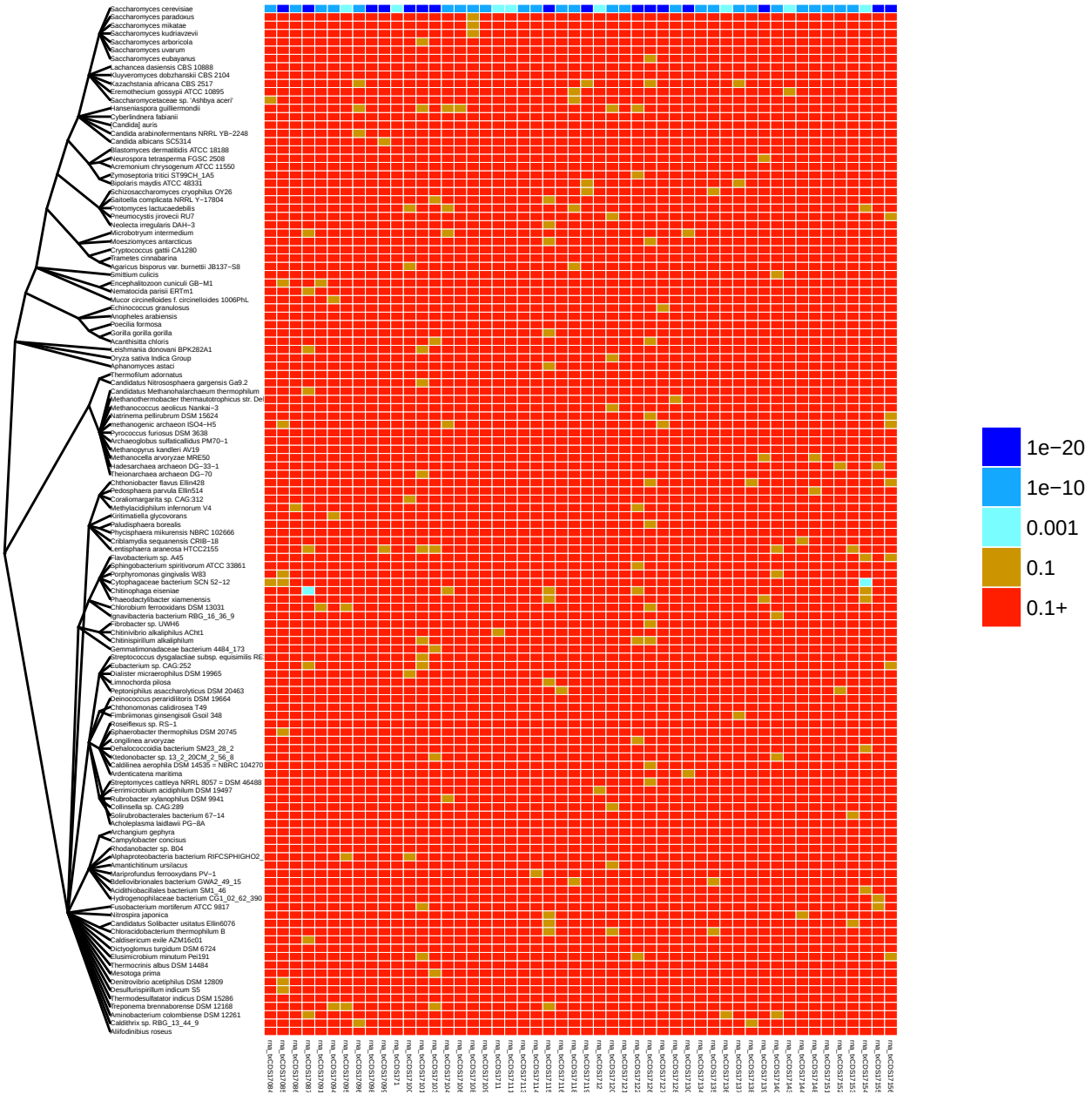

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

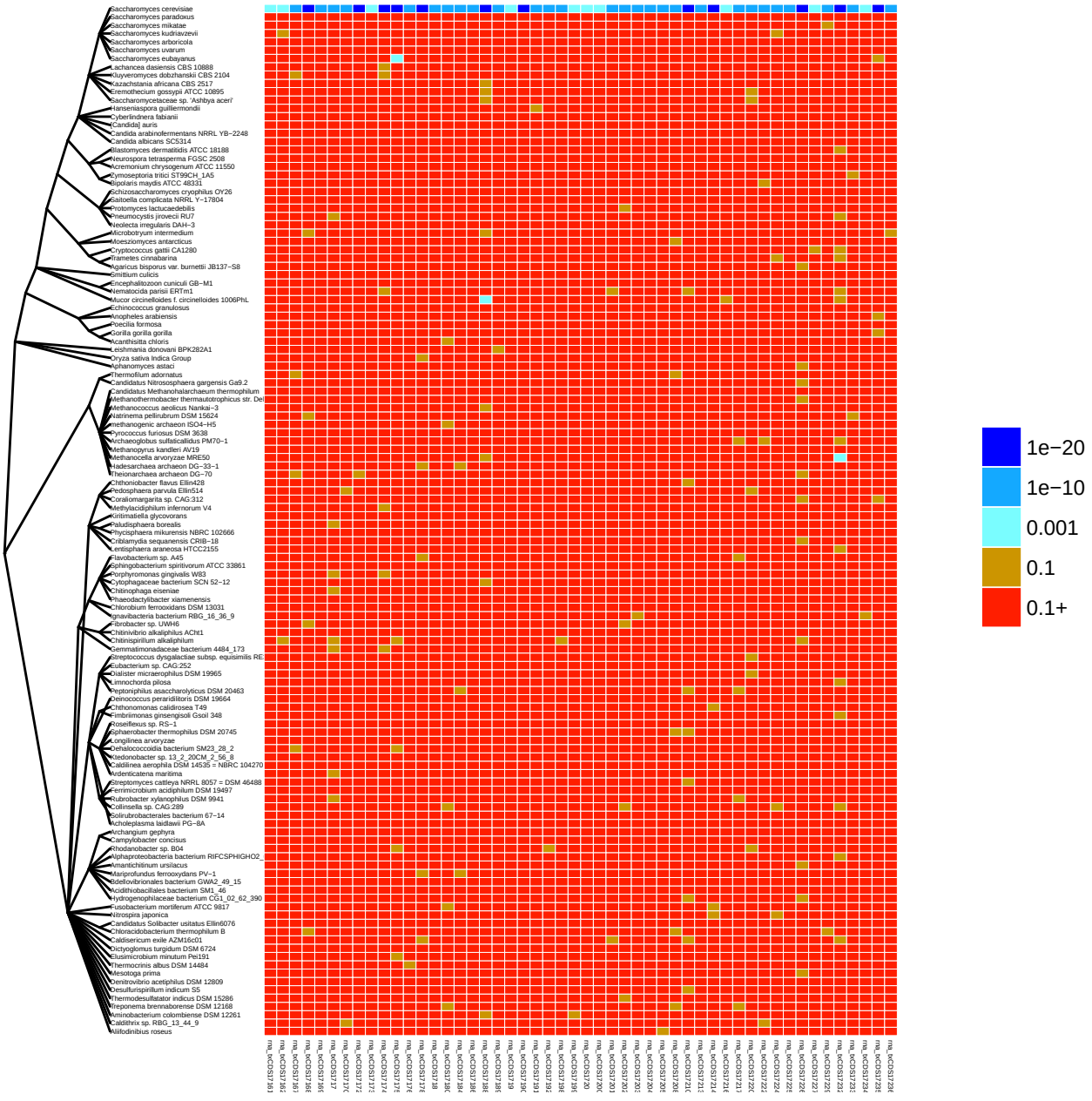

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

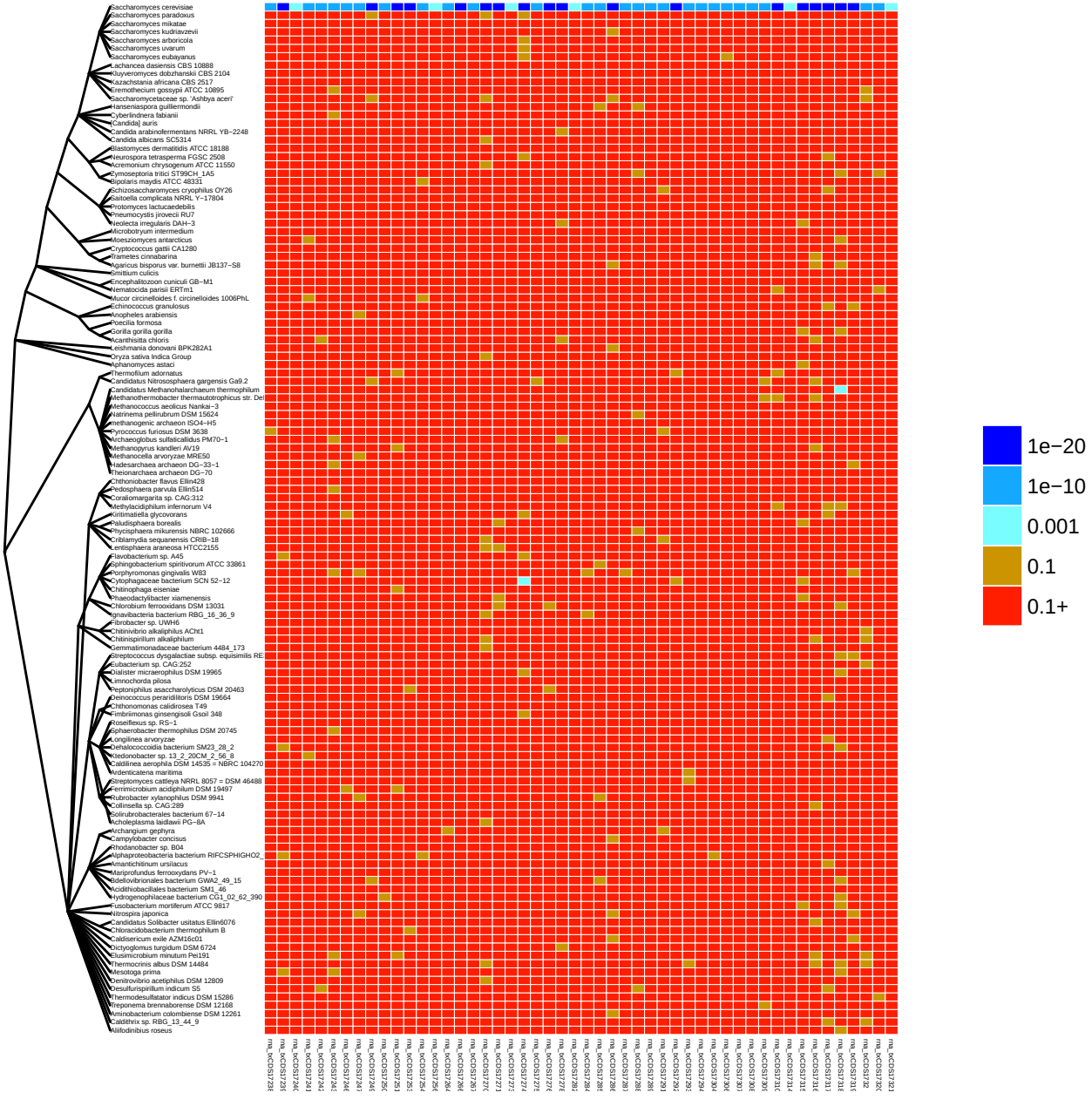

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

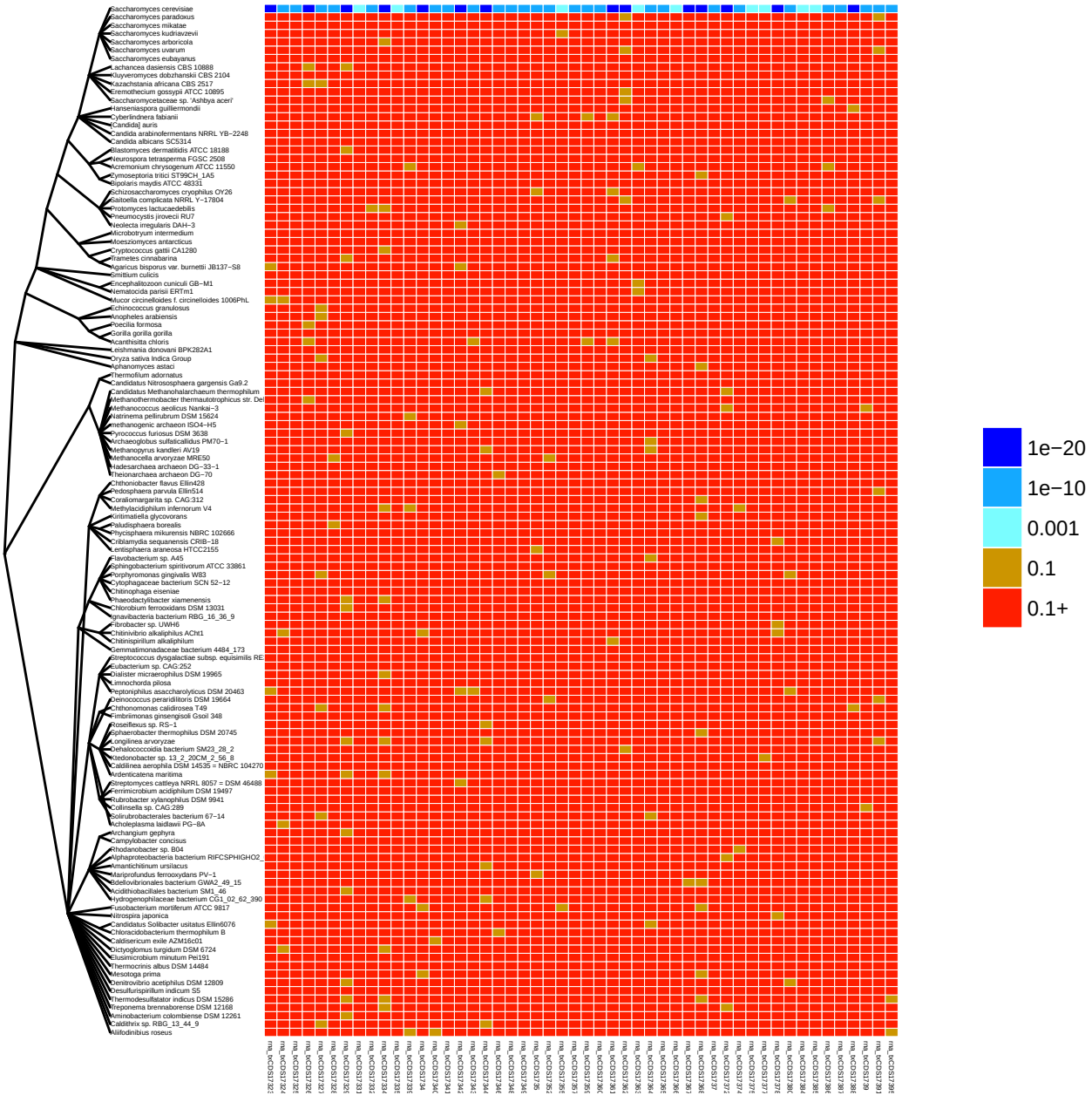

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

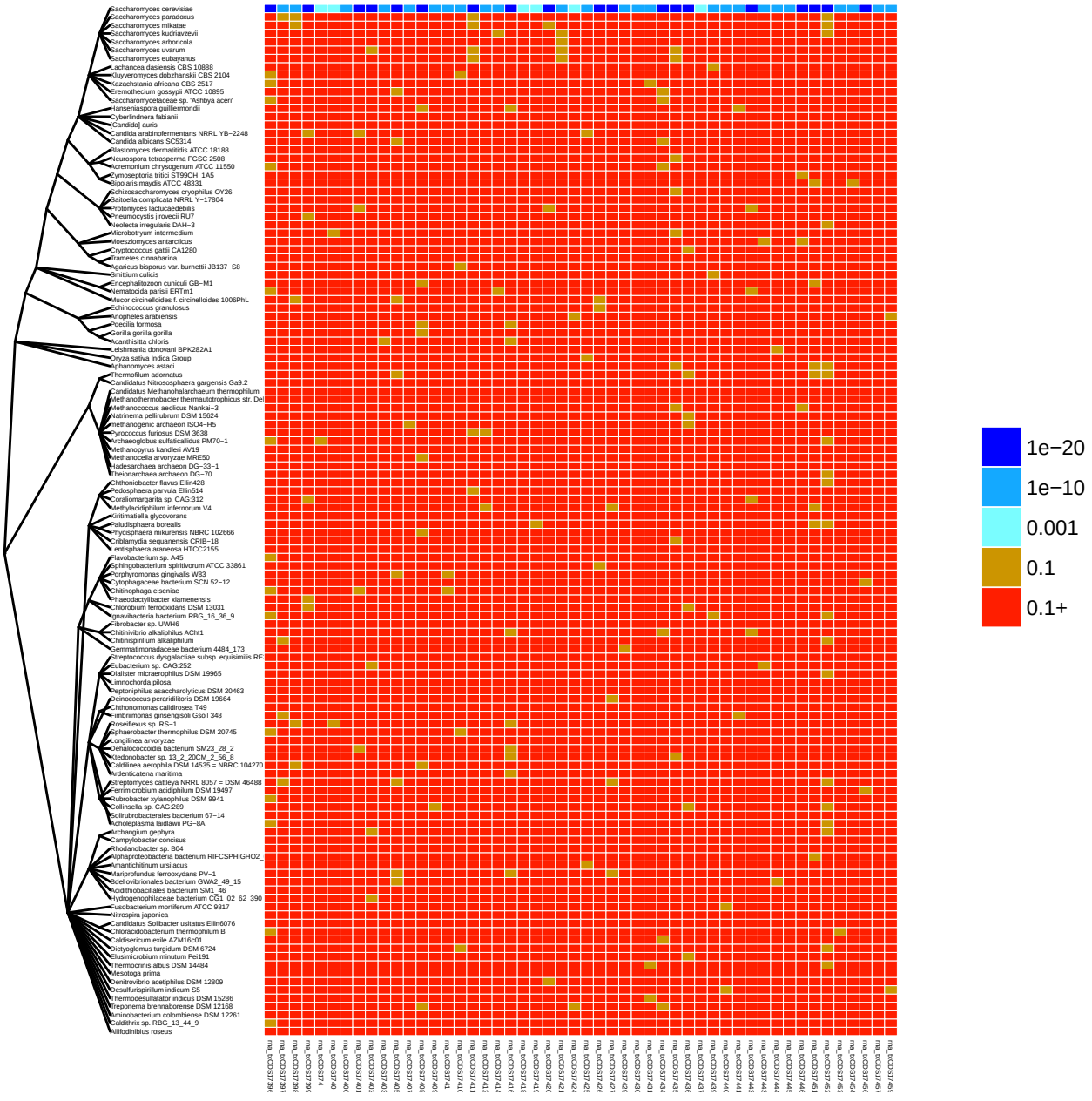

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

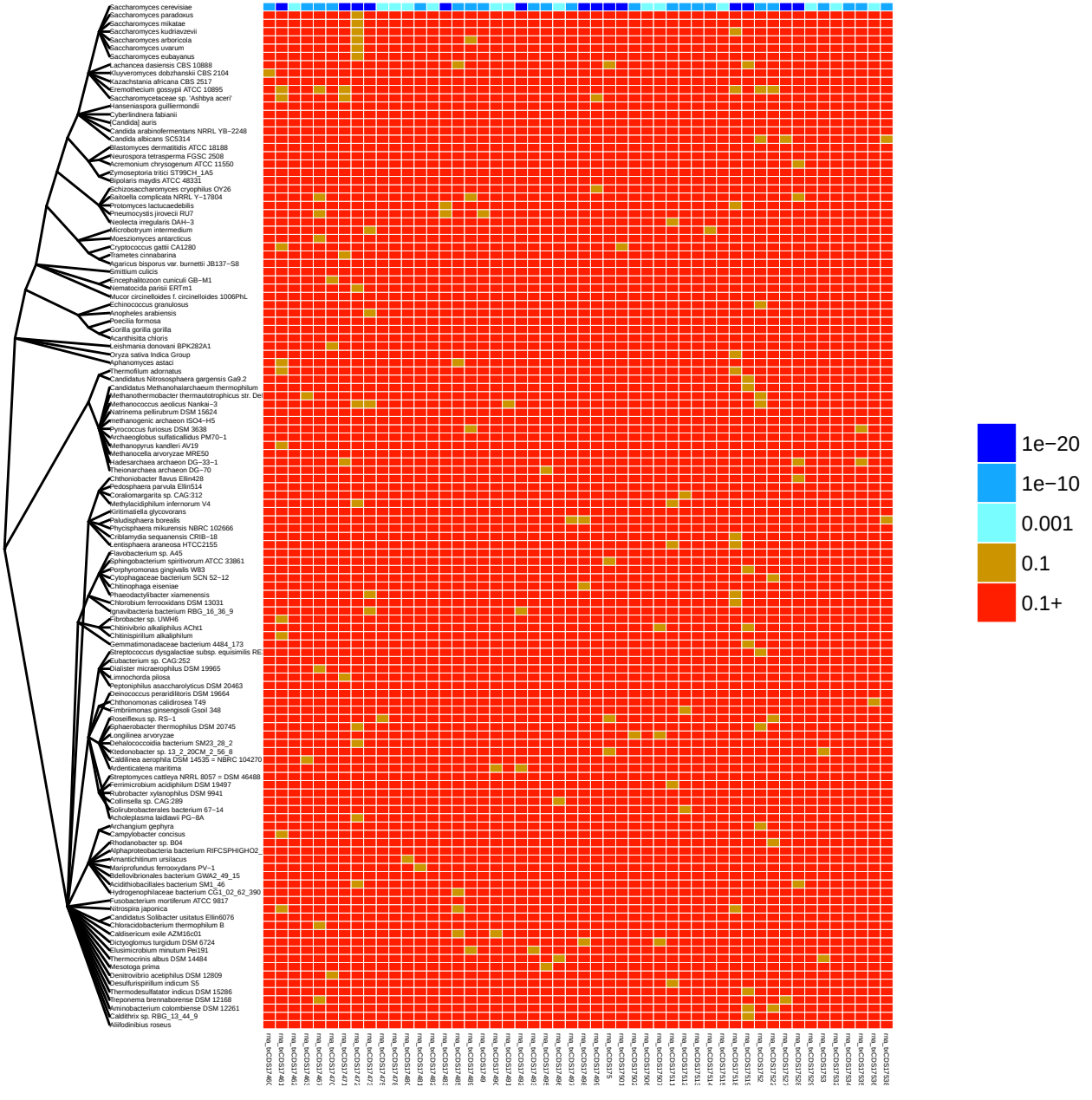

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

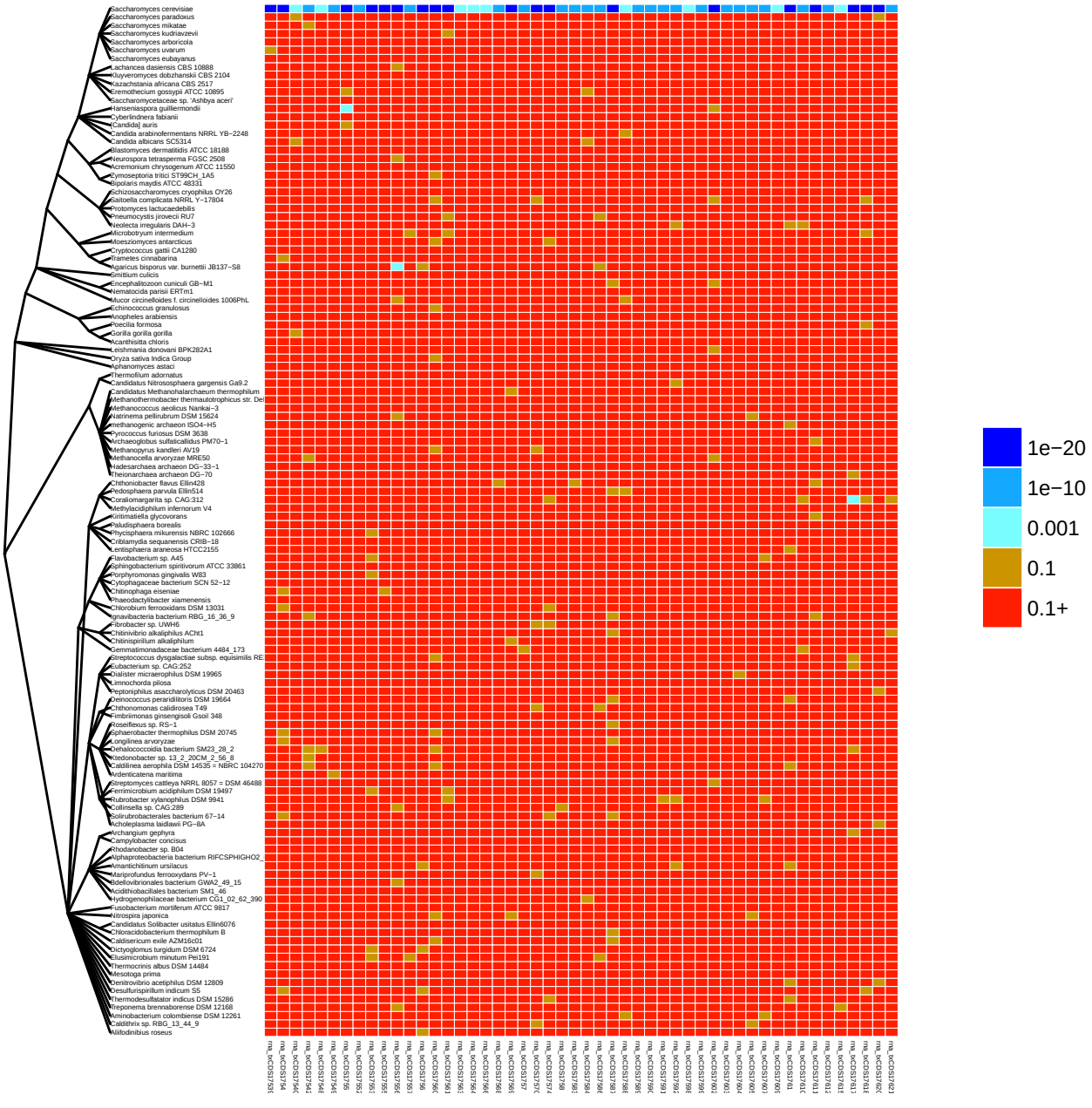

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

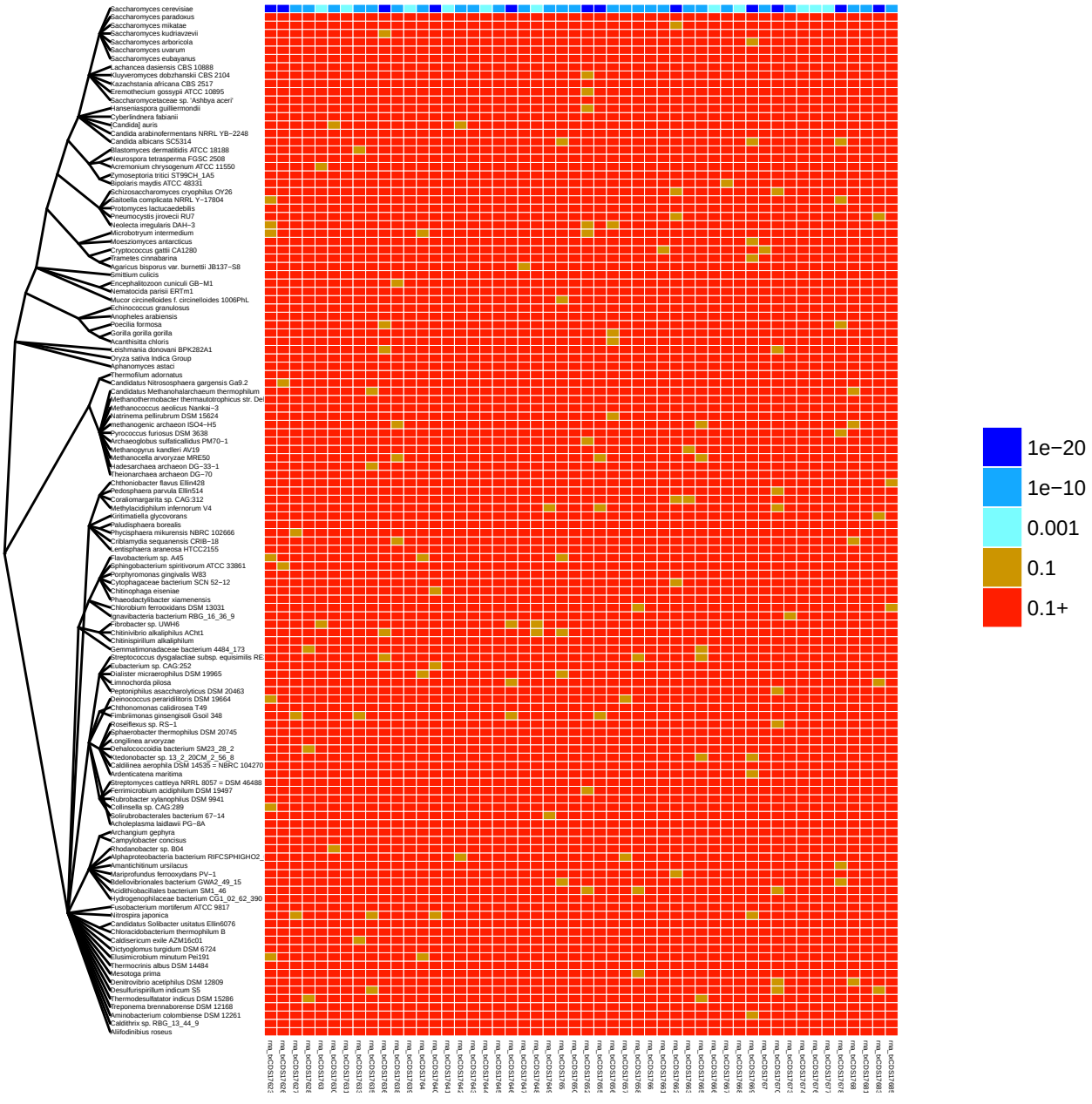

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

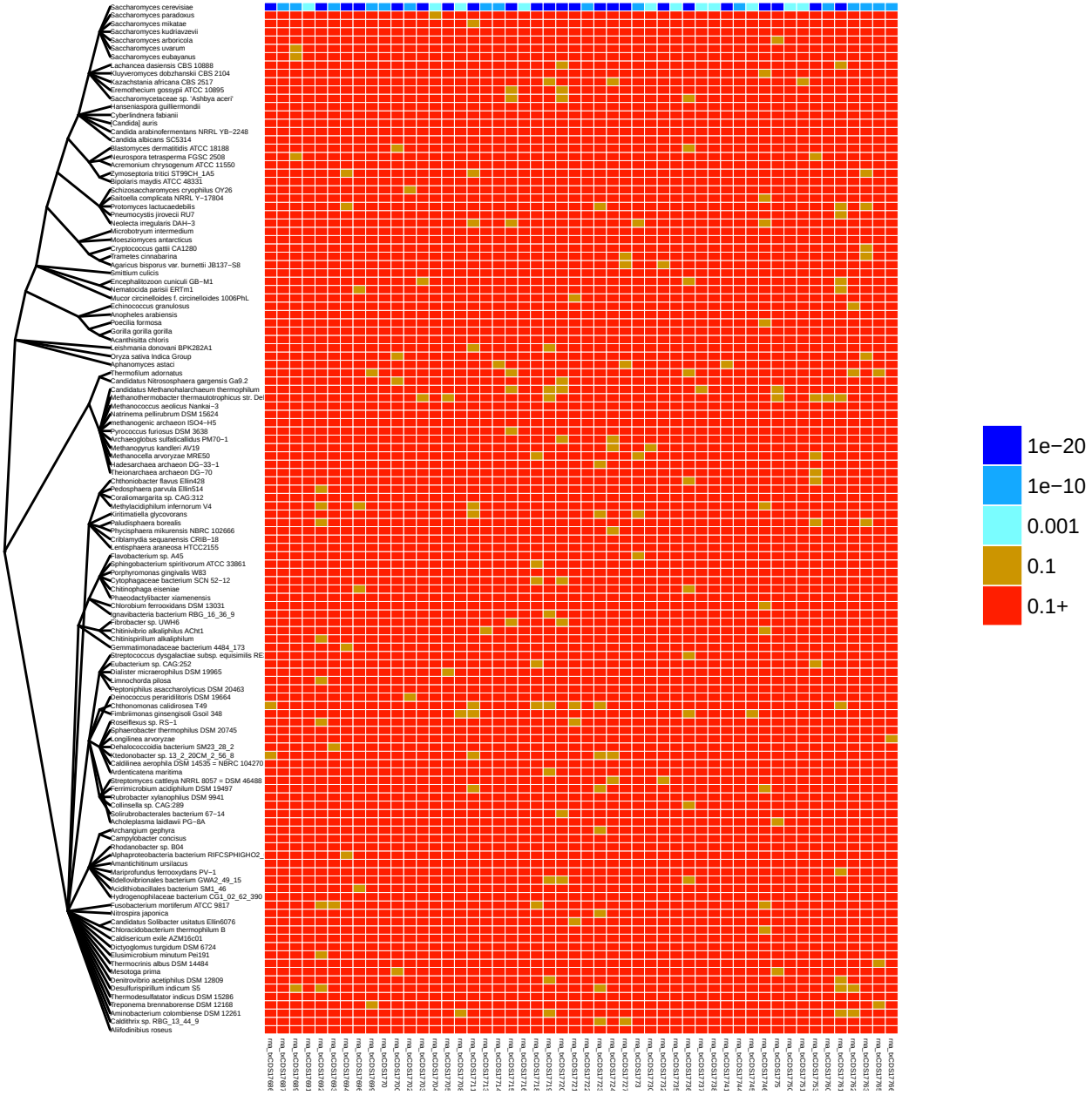

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

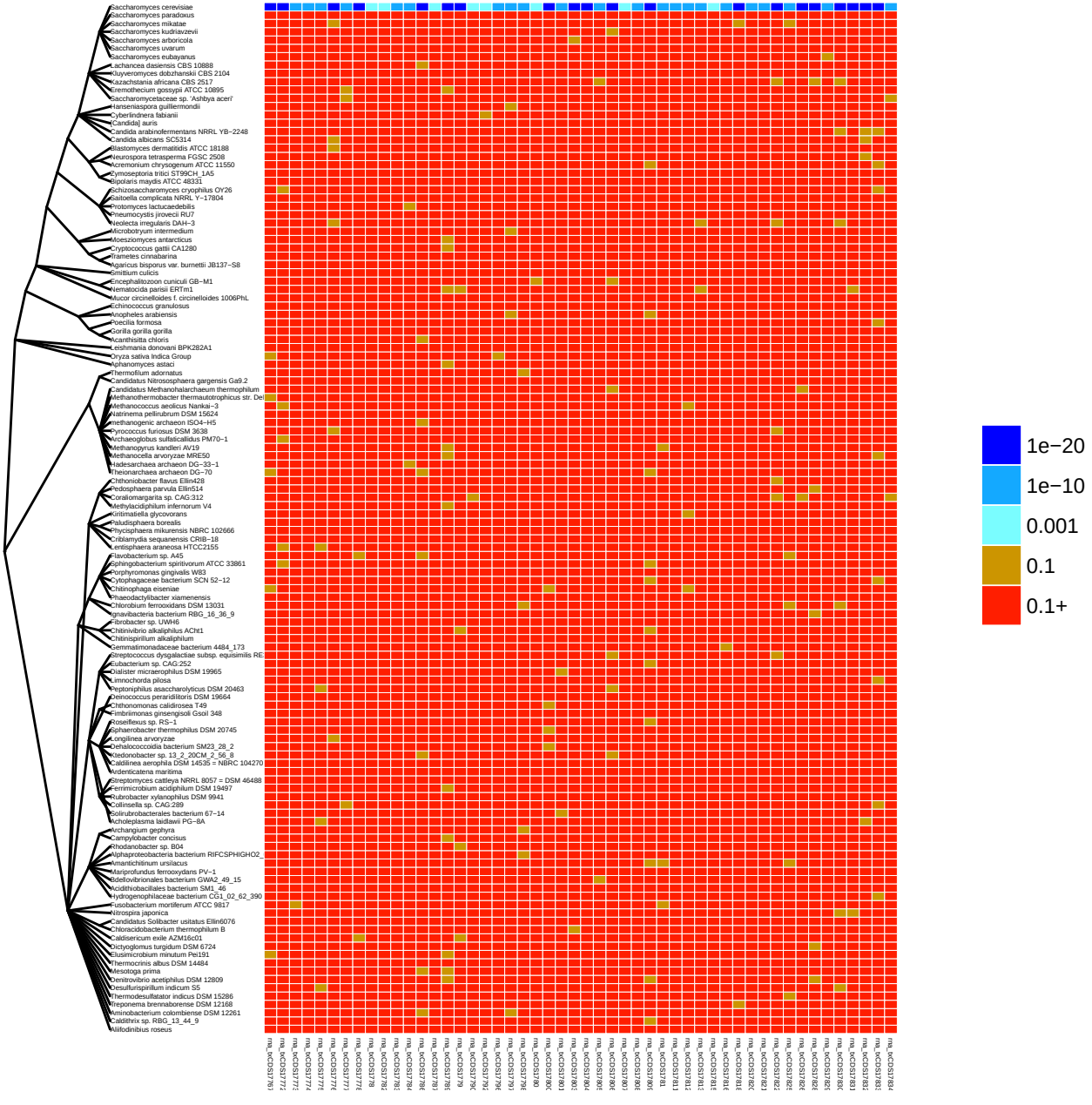

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

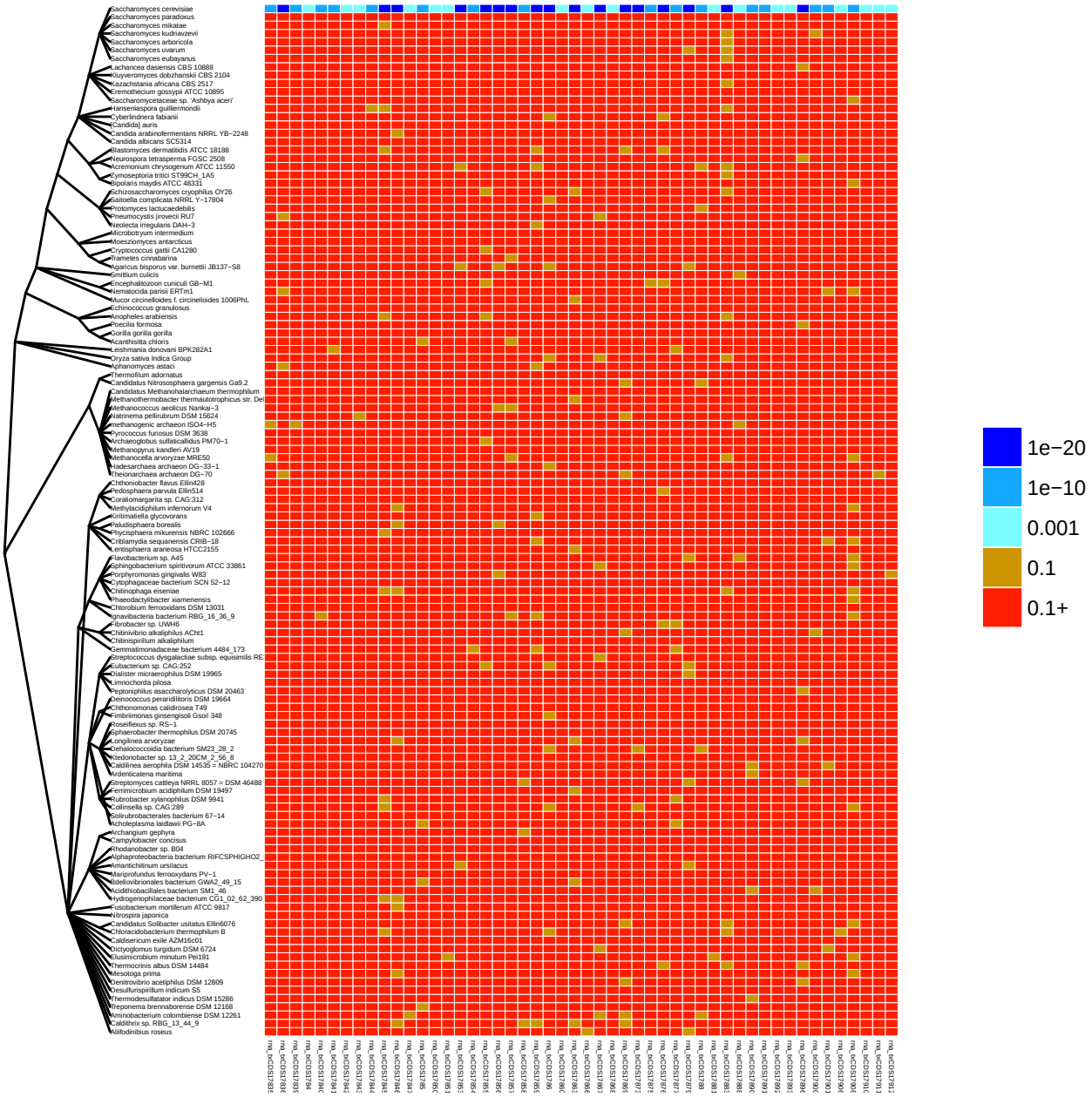

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa
Malassezia restricta
Ustilago maydis
Cryptococcus neoformans var. grubii
Cryptococcus gattii
Cryptococcus neoformans var. neoformans
Cryptococcus deuterogattii
Cryptococcus bacillisporus
Cryptococcus tetragattii
Cryptococcus wingfieldii
Cryptococcus amylolentus
Cryptococcus depauperatus
Cryptococcus floridanus
Cryptococcus heterothallicus
Cryptococcus neoformans var. gattii
Cryptococcus neoformans var. neoformans
Cryptococcus neoformans var. grub

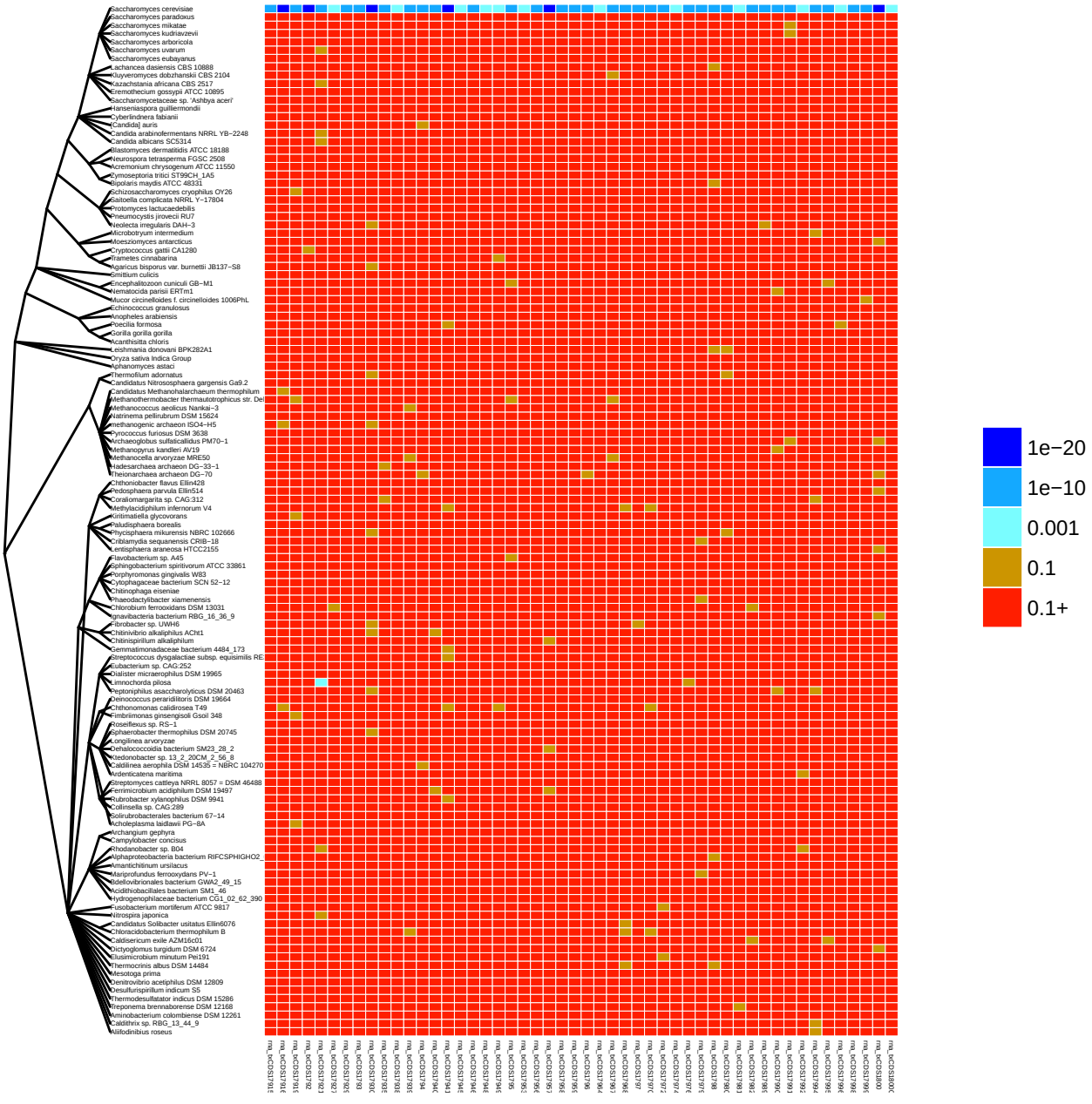

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

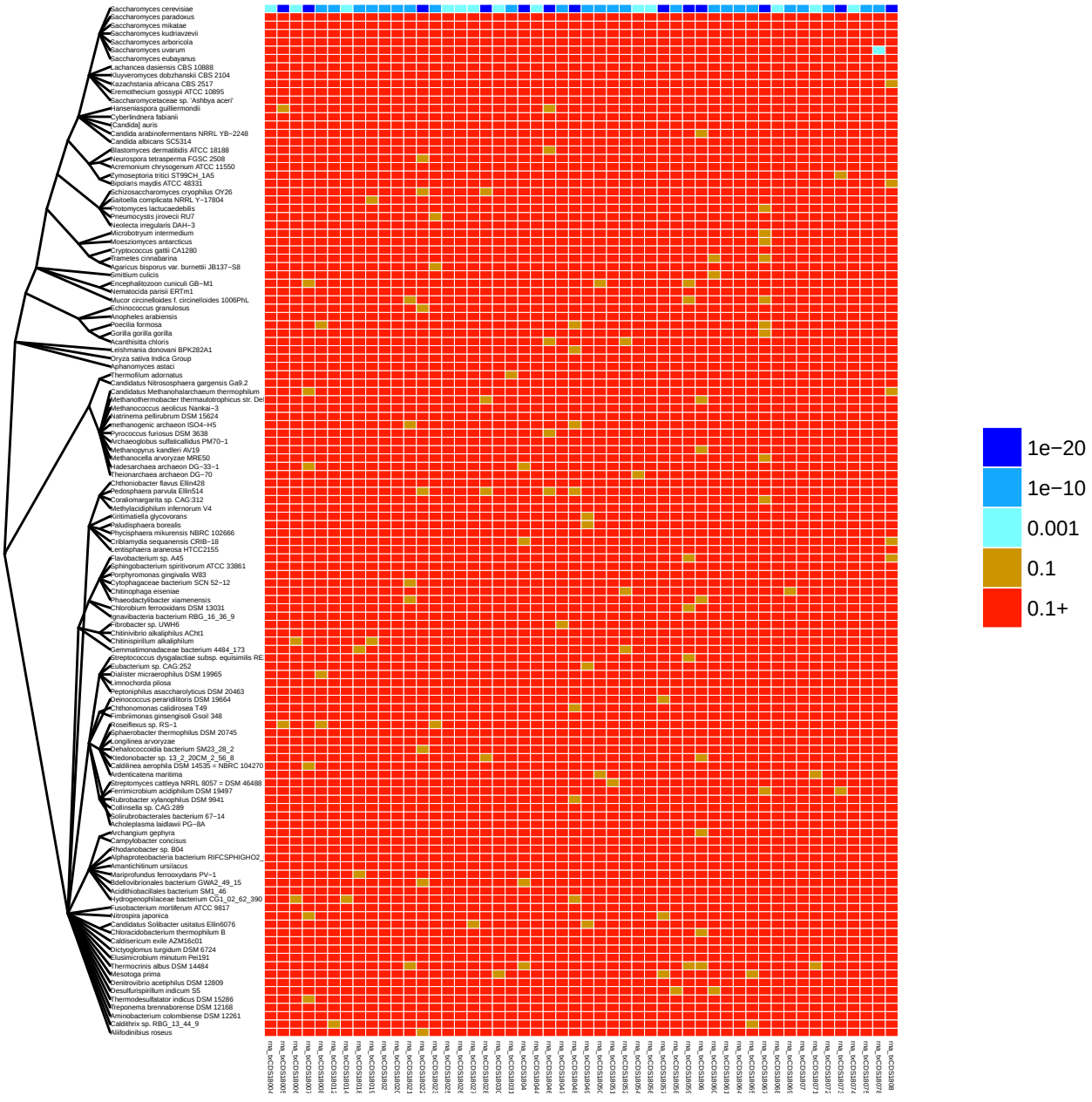

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

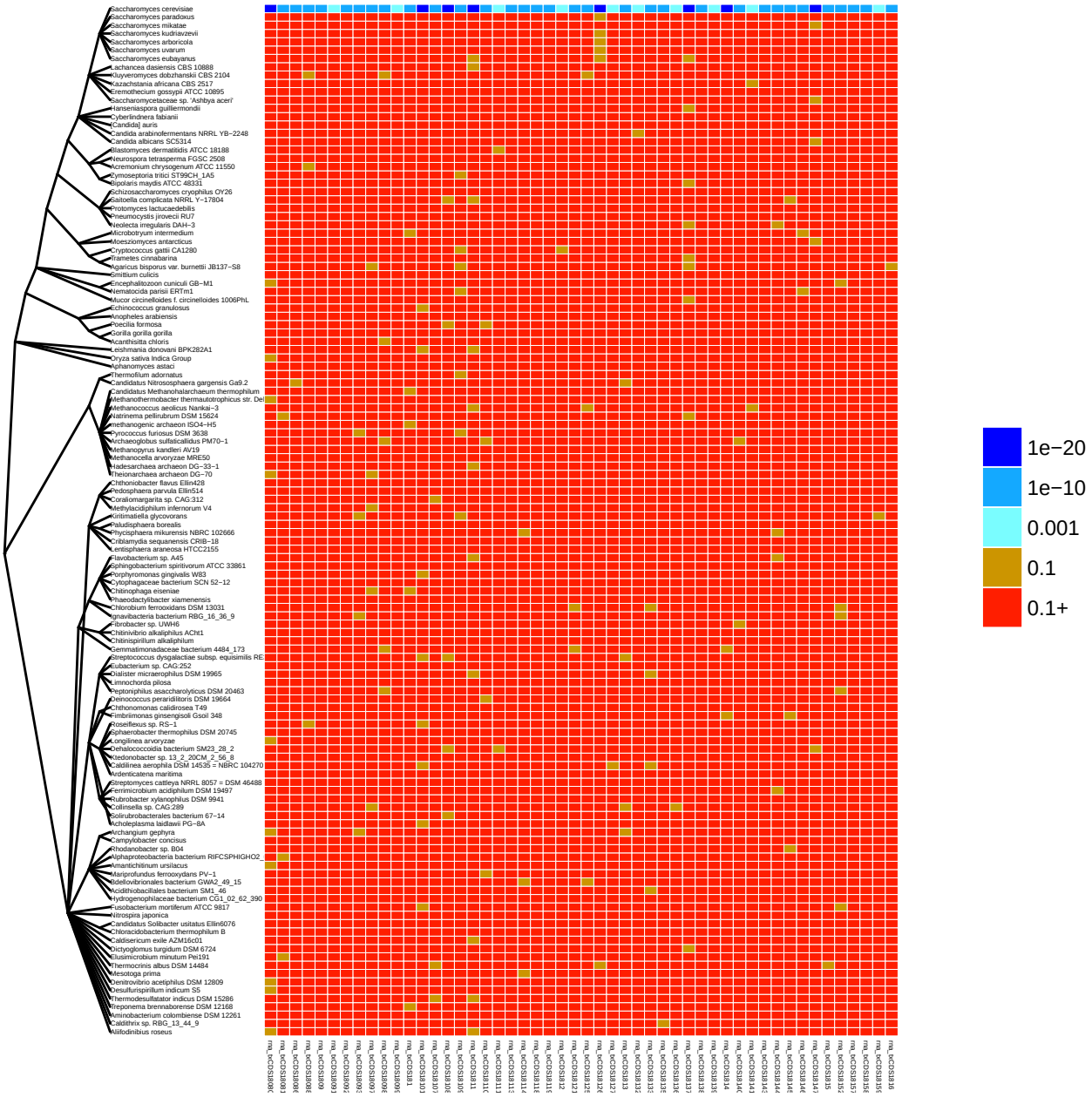

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
1e−20
1e−10
0.001
0.1
0.1+

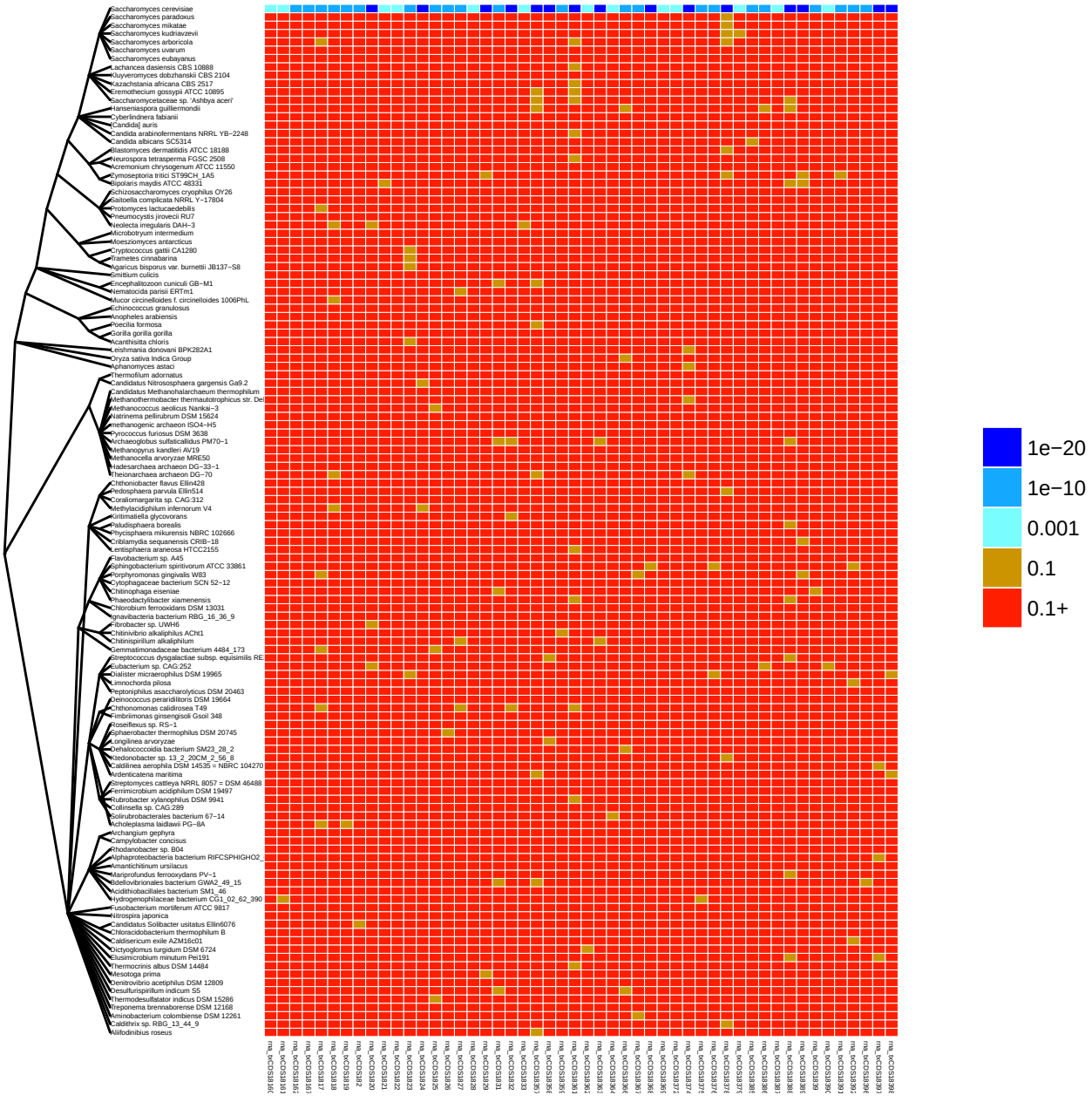

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

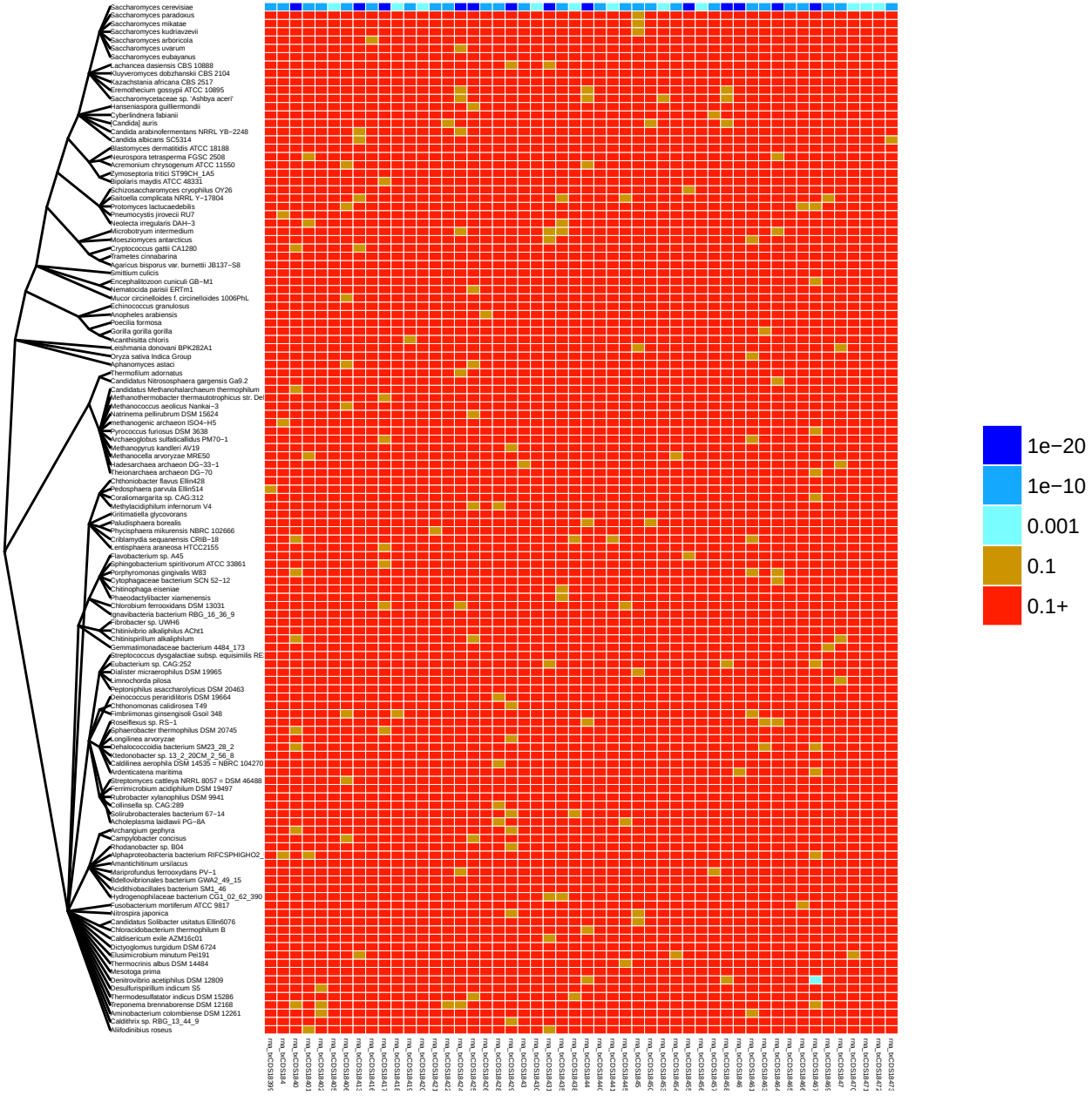

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

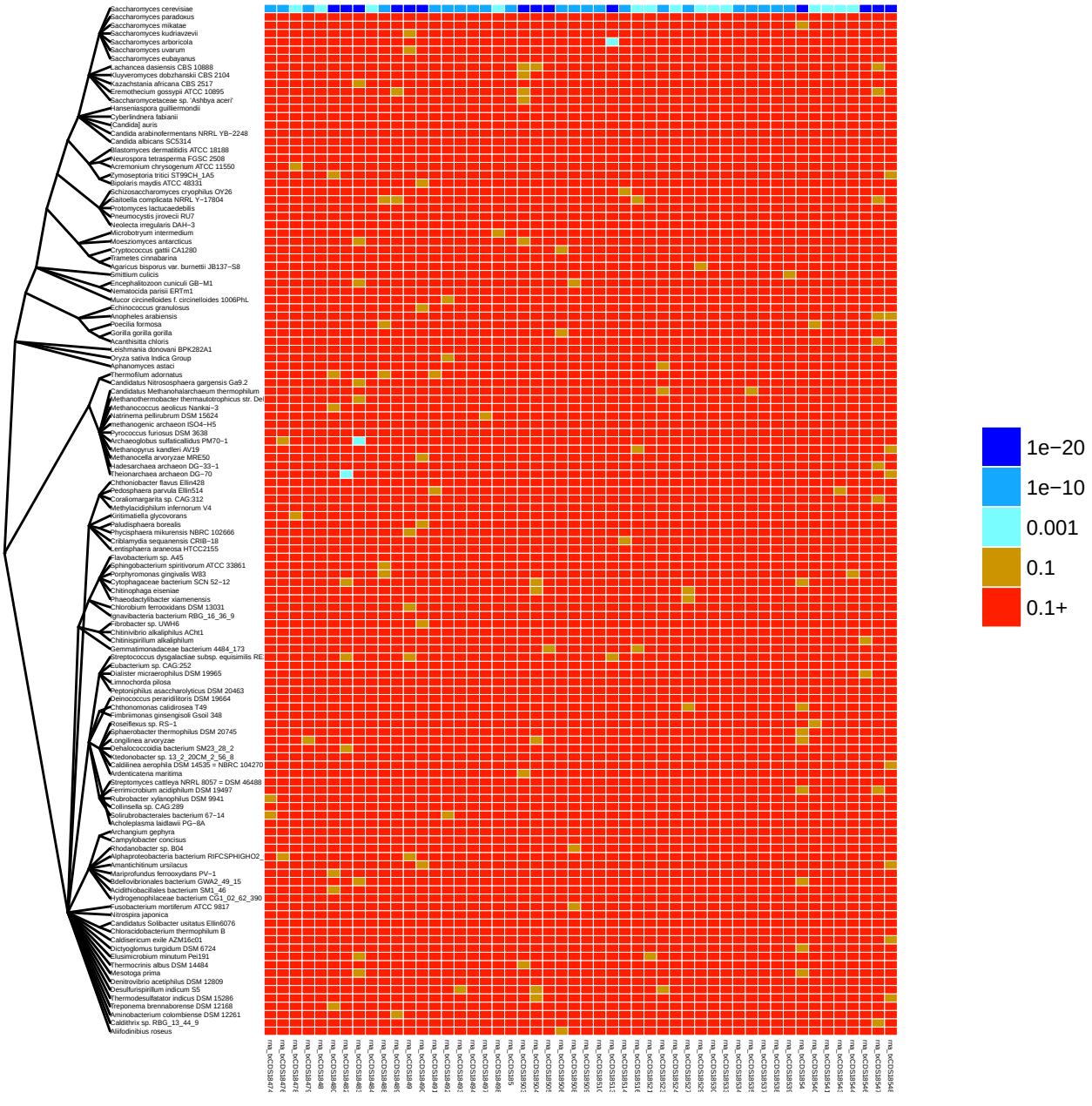

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

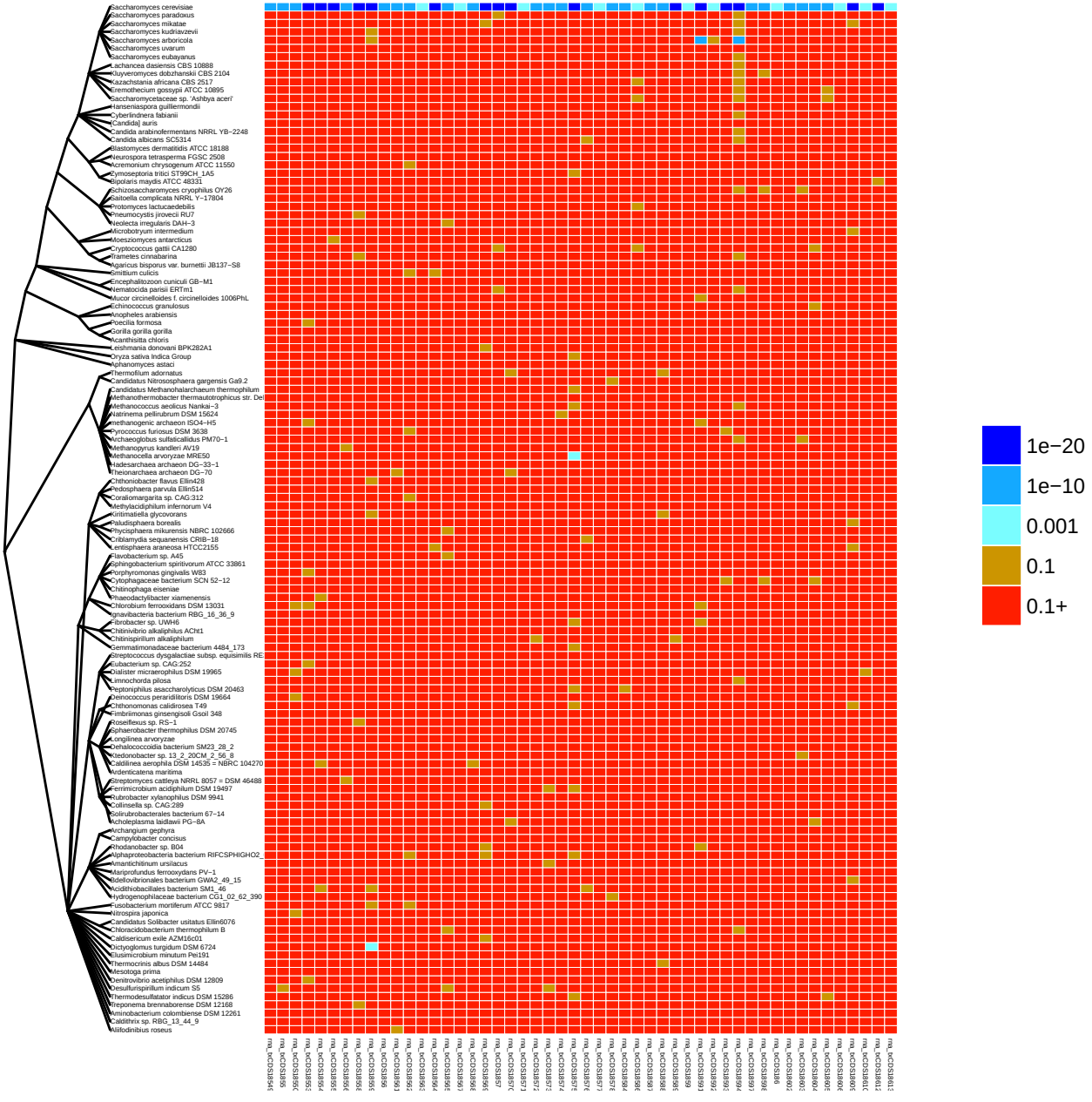

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

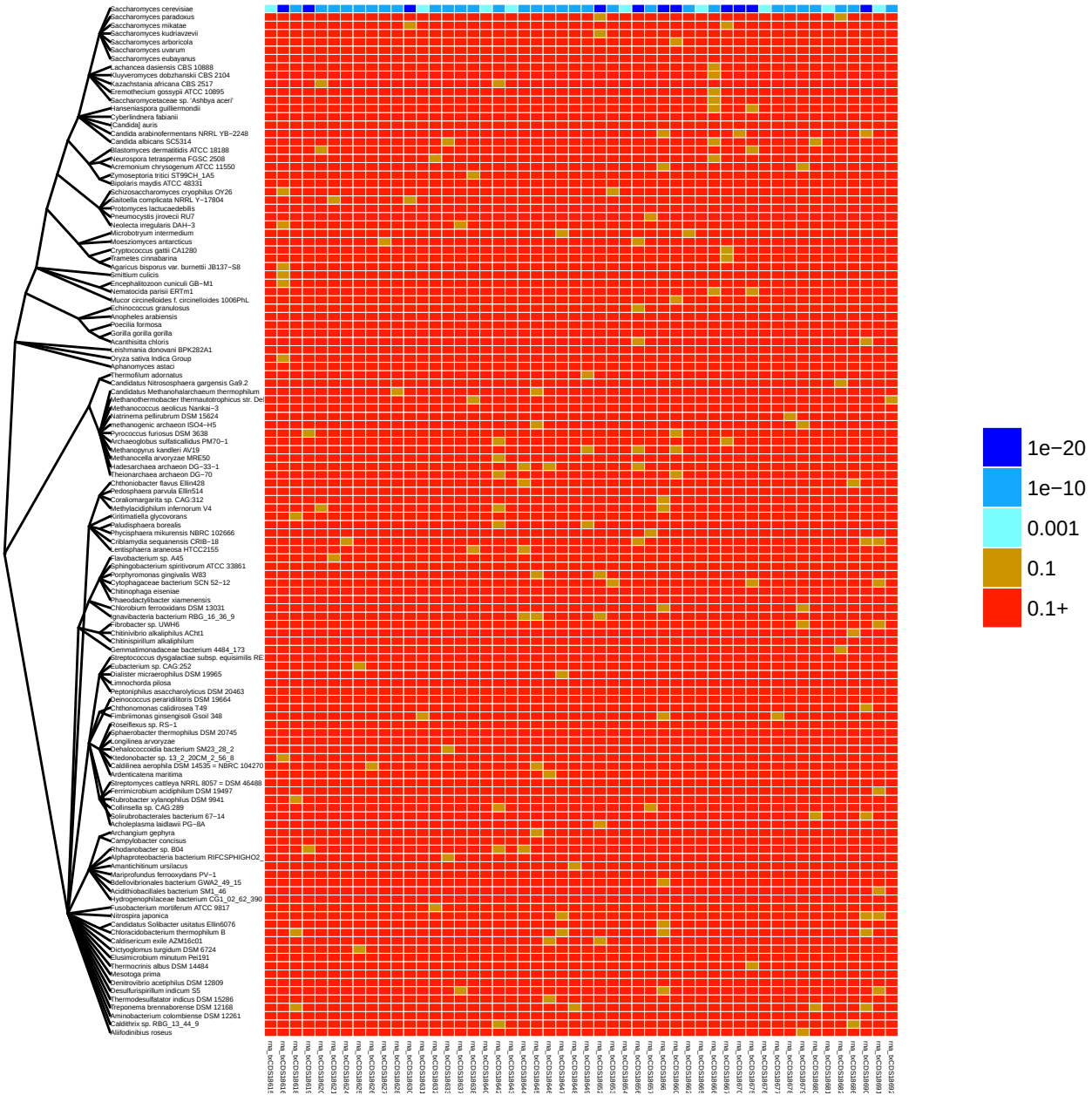

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

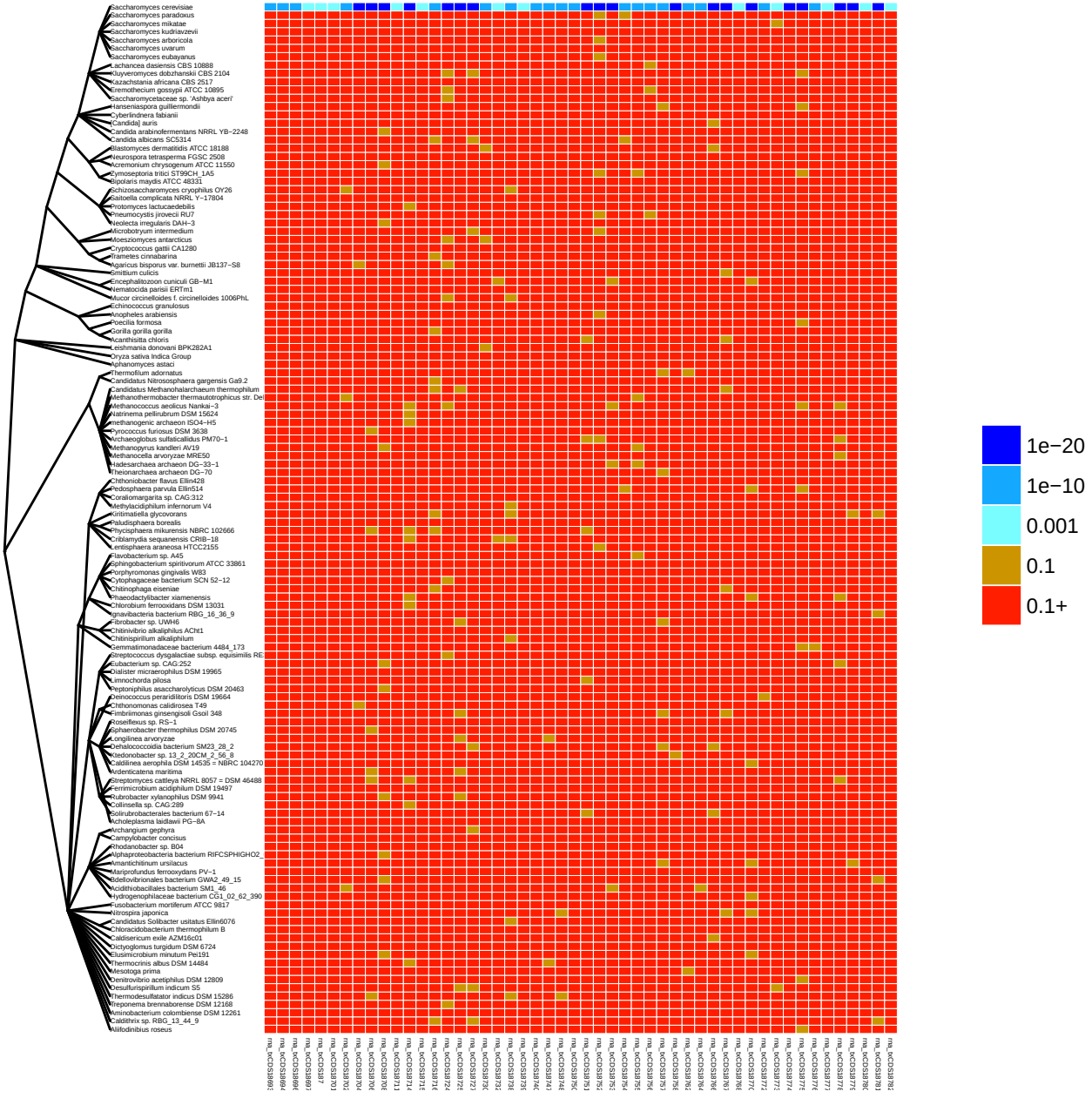

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is79A1
1e−20
1e−10
0.001
0.1
0.1+

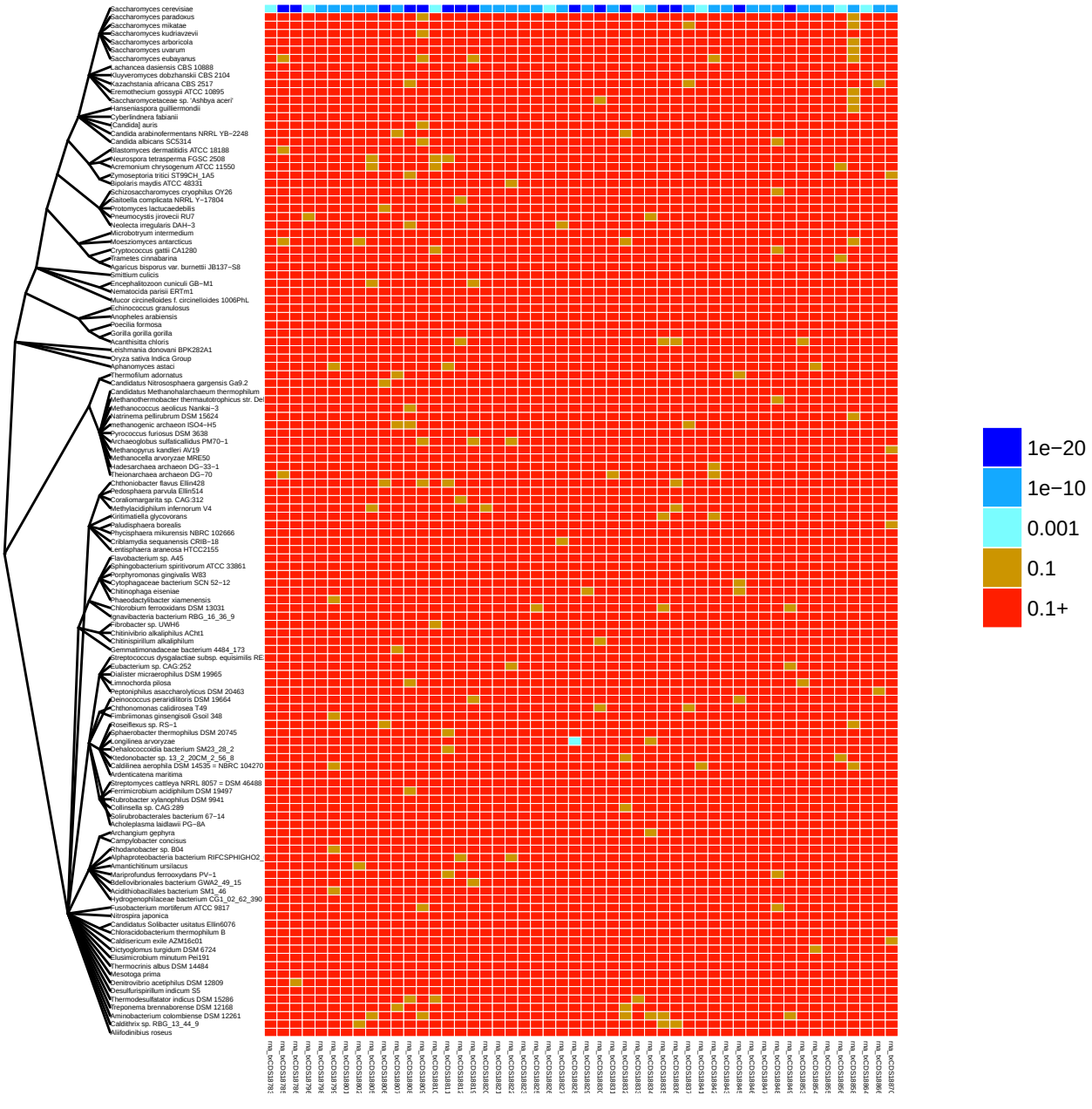

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

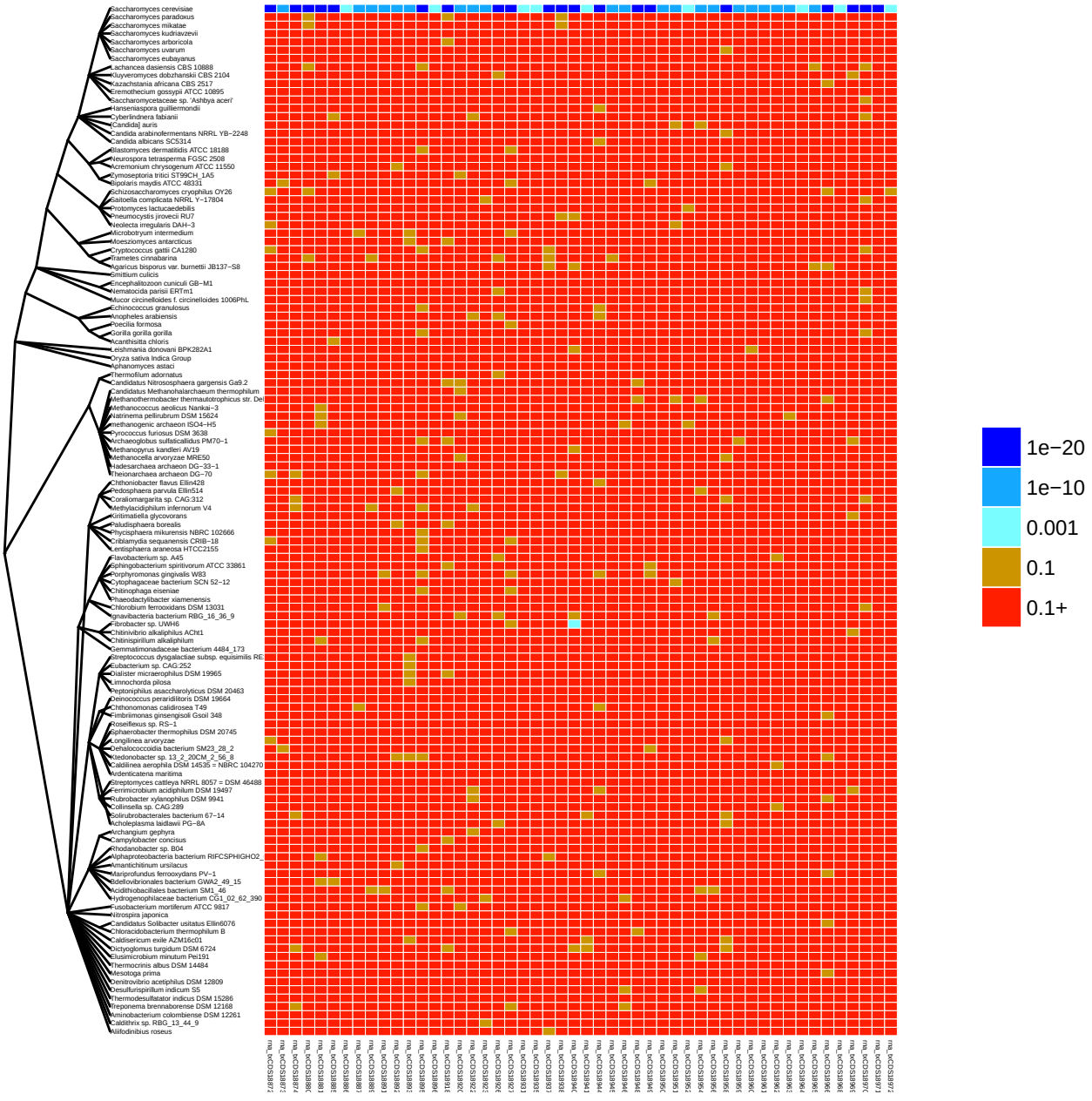

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

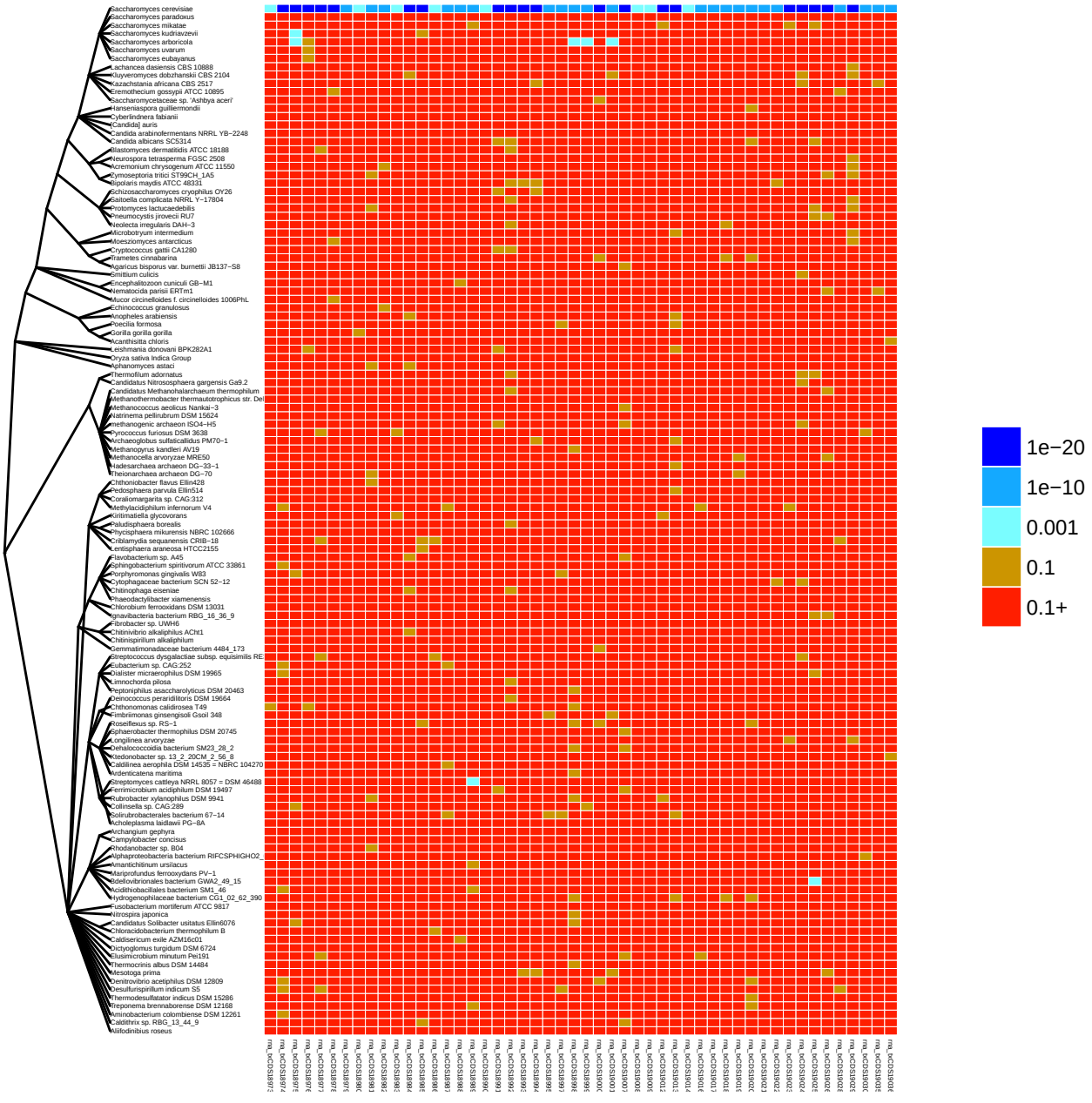

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

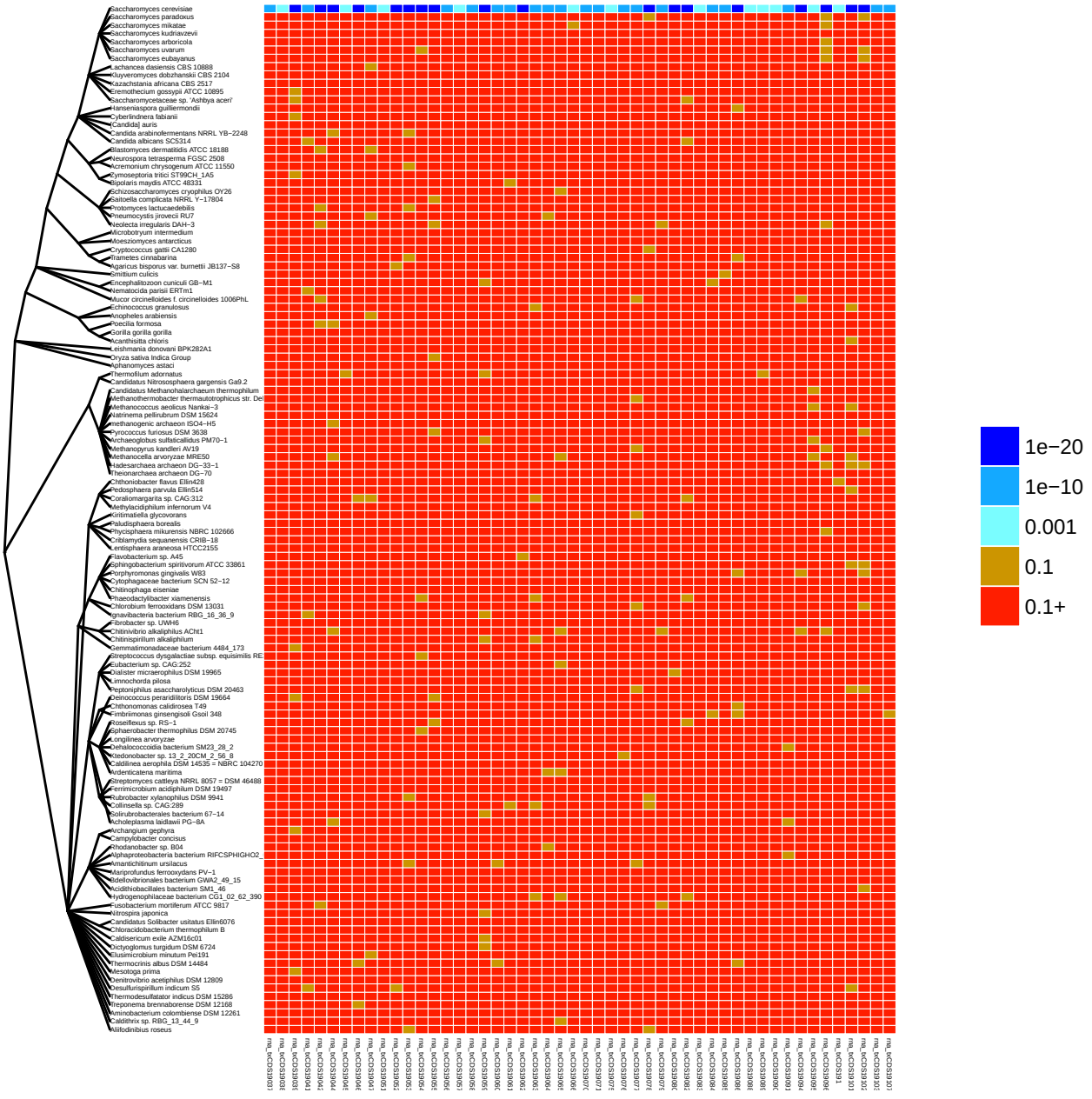

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

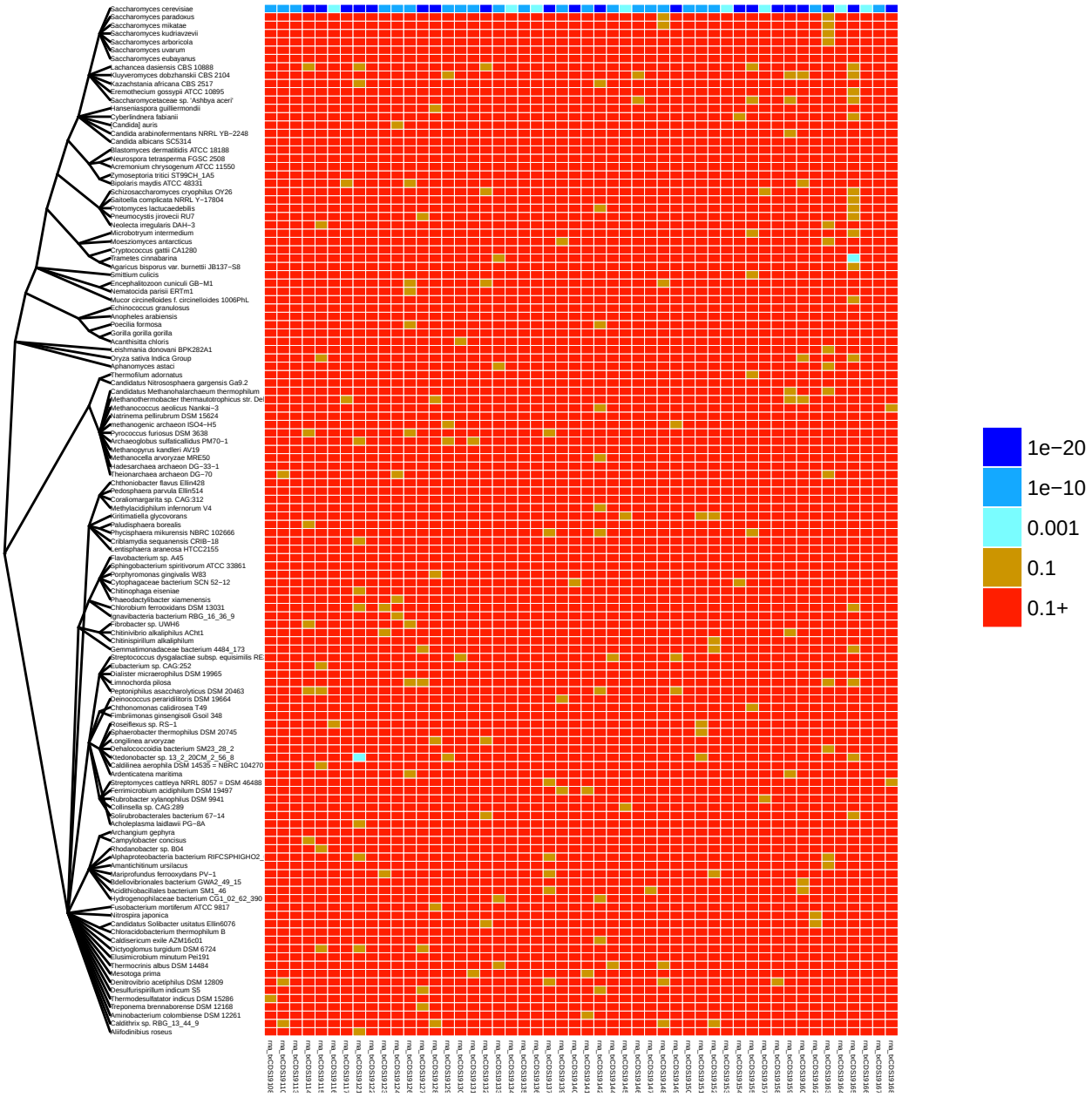

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

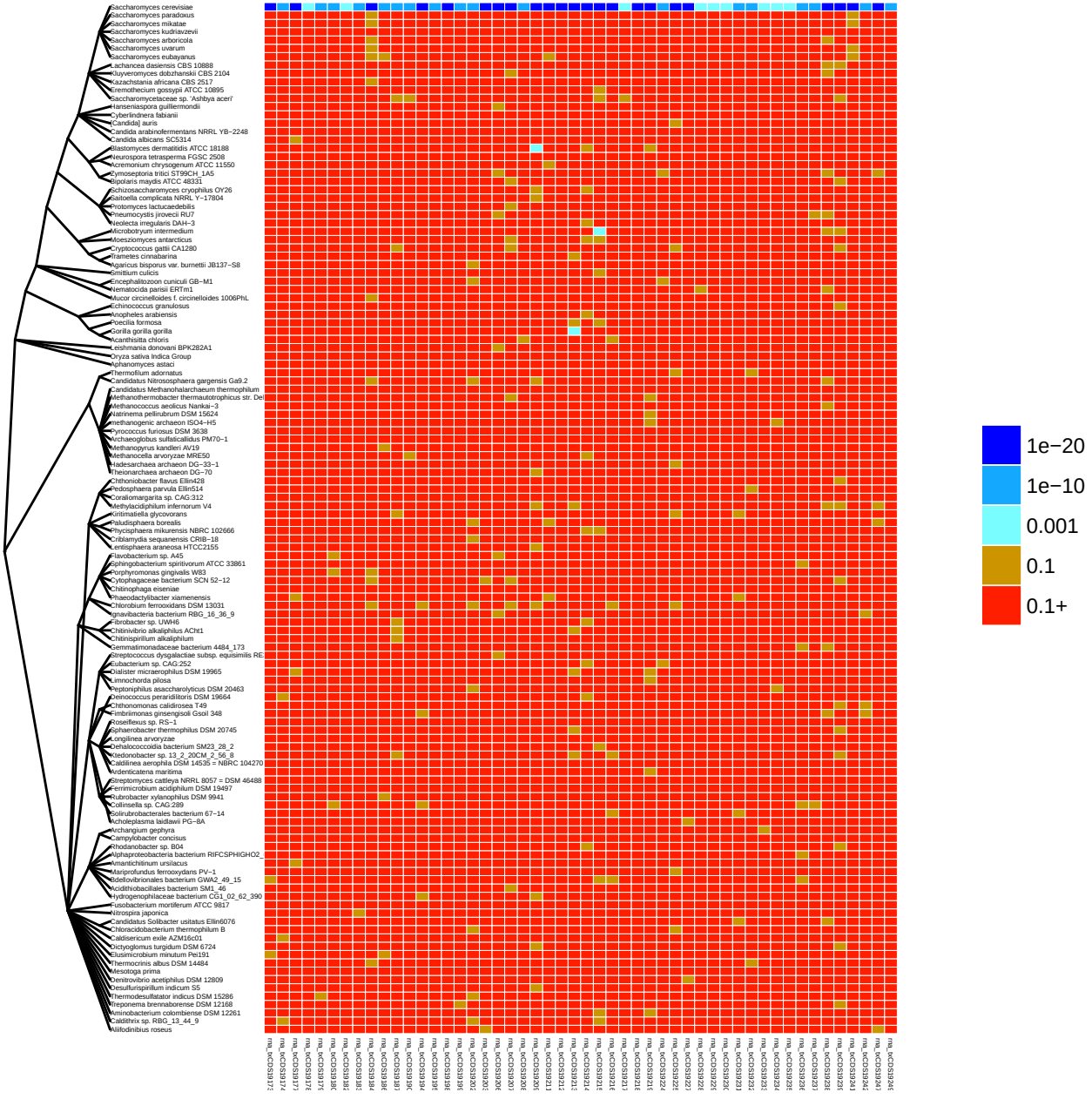

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

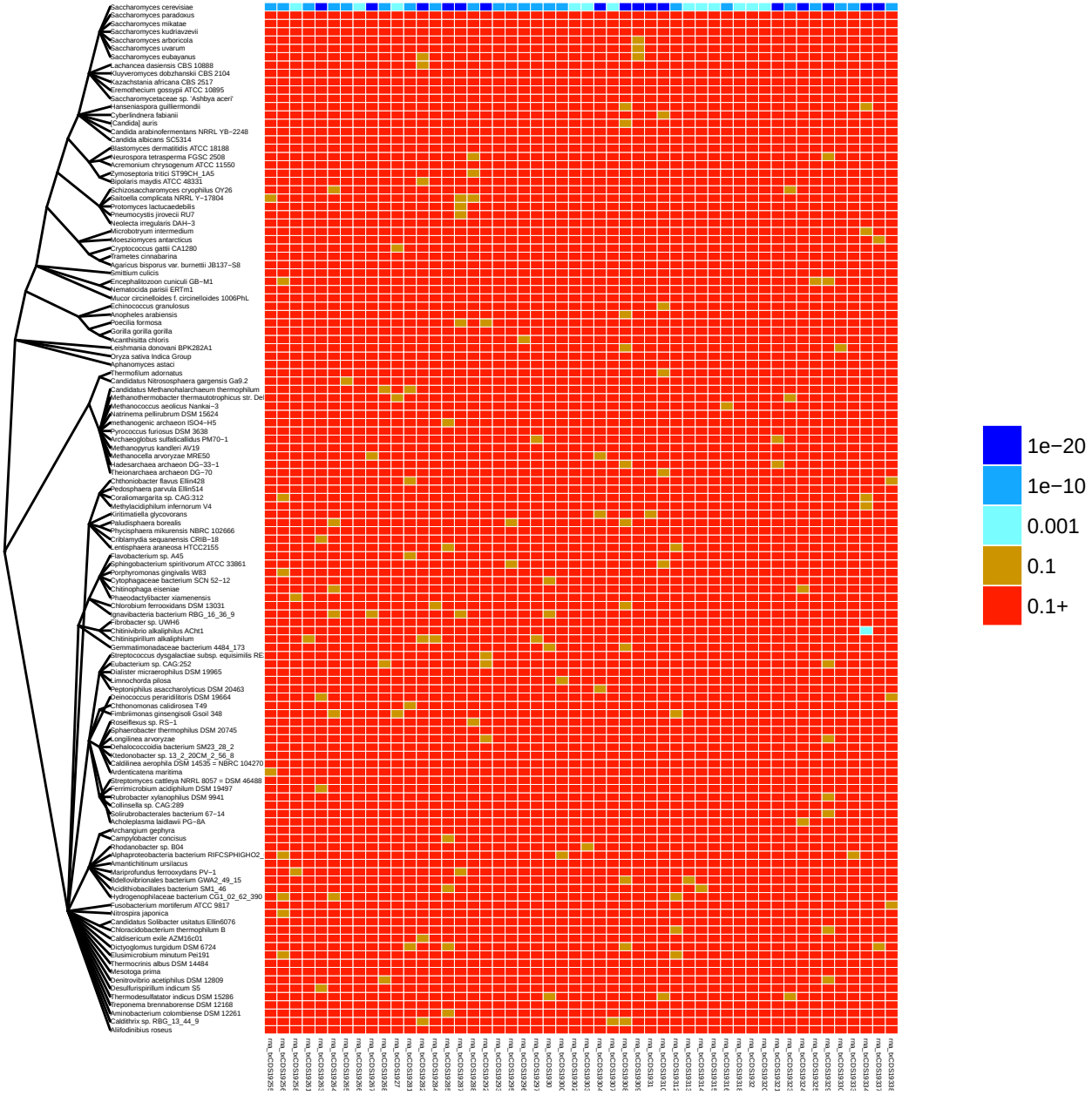

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Methanomassiliicoccus intestinalis Issoria MG−RS−2
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

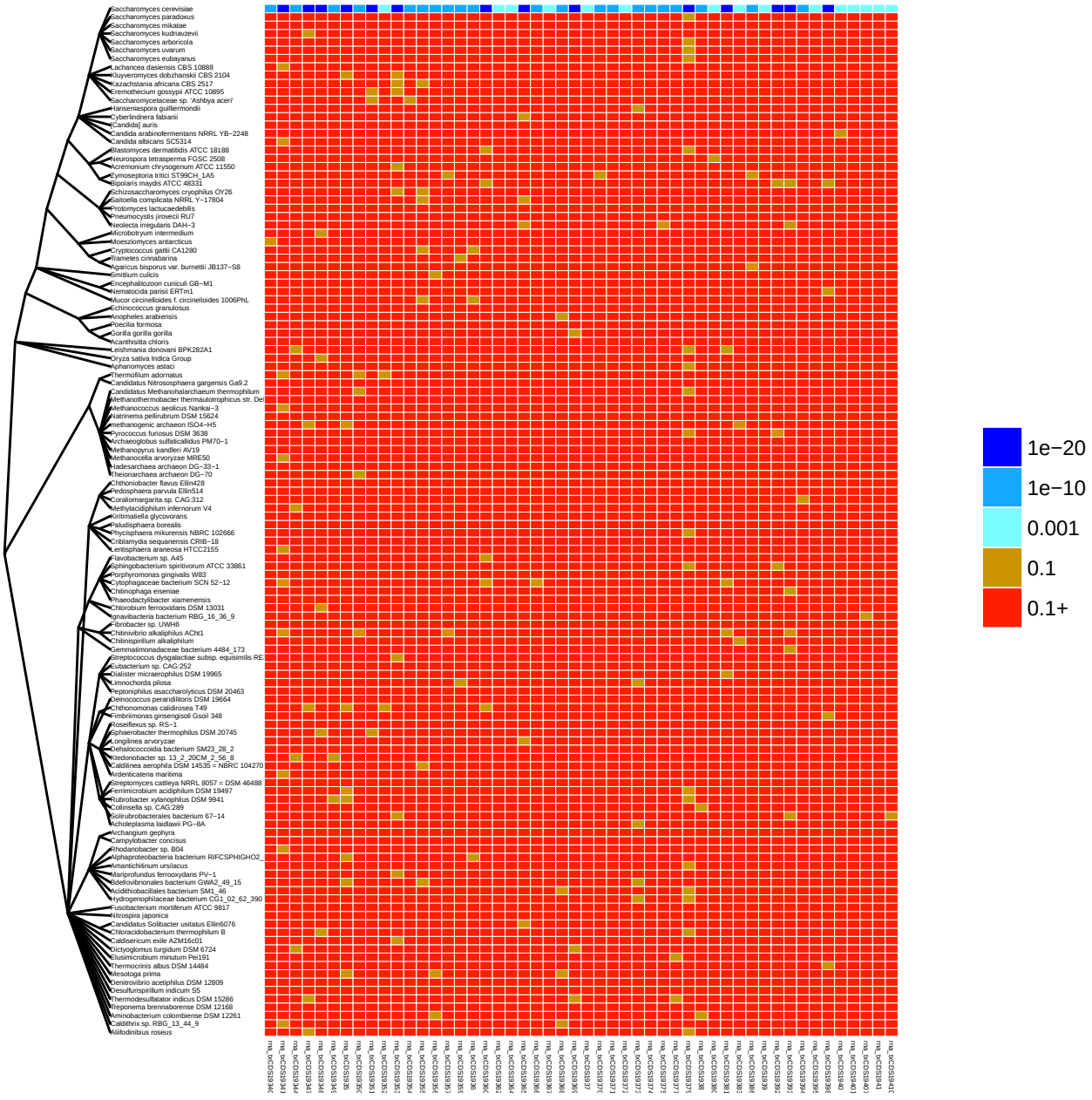

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszómyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

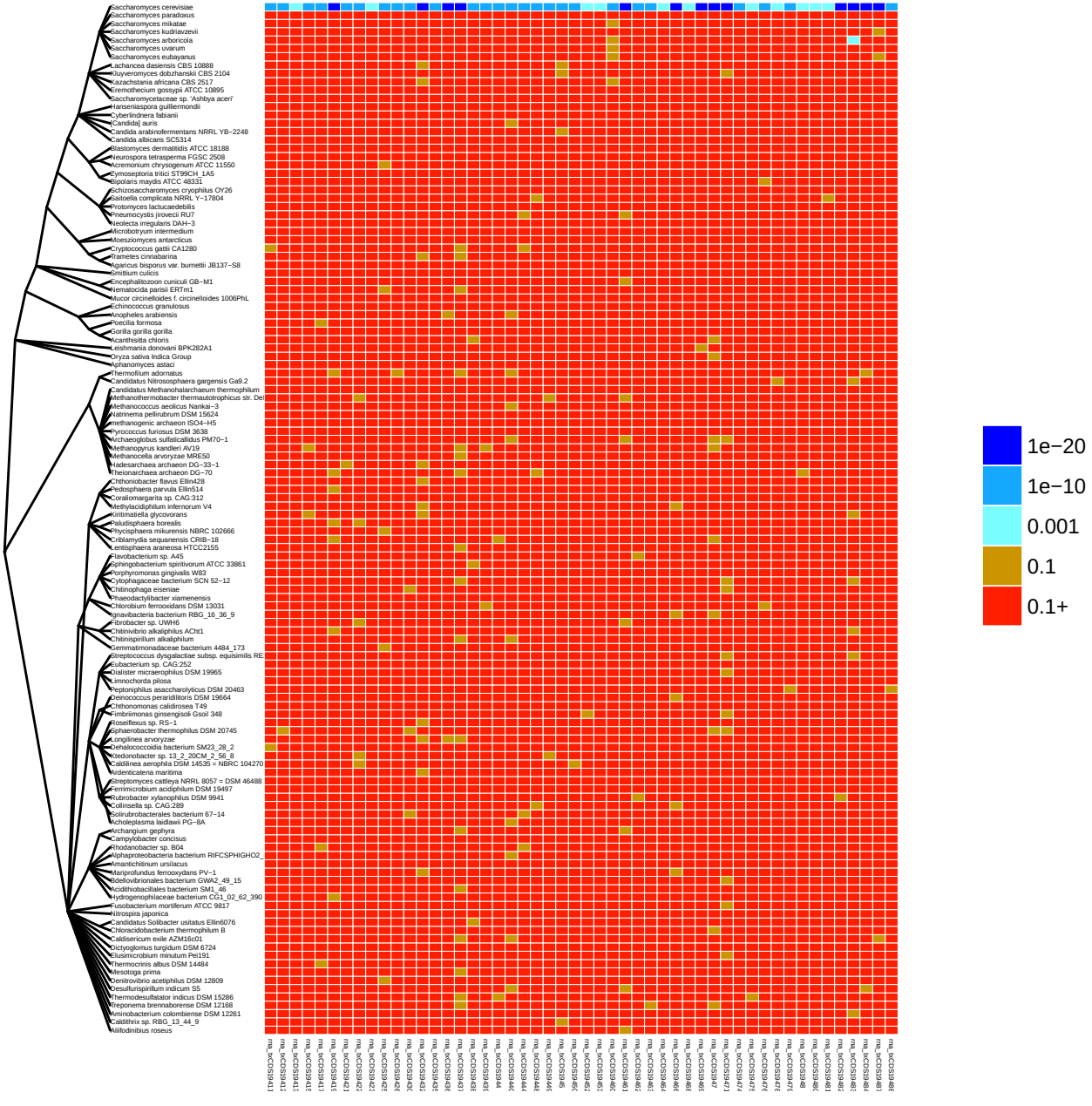

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR2
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas N3
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Clone W
Candidatus Nitrosotenuis Clone Z
Candidatus Nitrosotenuis Clone AR
Candidatus Nitrosotenuis Clone Y
Candidatus Nitrosotenuis Clone I
Candidatus Nitrosotenuis Clone J
Candidatus Nitrosotenuis Clone K
Candidatus Nitrosotenuis Clone L
Candidatus Nitrosotenuis Clone M
Candidatus Nitrosotenuis Clone N
Candidatus Nitrosotenuis Clone O
Candidatus Nitrosotenuis Clone P
Candidatus Nitrosotenuis Clone Q
Candidatus Nitrosotenuis Clone R
Candidatus Nitrosotenuis Clone S
Candidatus Nitrosotenuis Clone T
Candidatus Nitrosotenuis Clone U
Candidatus Nitrosotenuis Clone V
Candidatus Nitrosotenuis Clone X
Candidatus Nitrosotenuis Clone AA
Candidatus Nitrosotenuis Clone AB
Candidatus Nitrosotenuis Clone AC
Candidatus Nitrosotenuis Clone AD
Candidatus Nitrosotenuis Clone AE
Candidatus Nitrosotenuis Clone AF
Candidatus Nitrosotenuis Clone AG
Candidatus Nitrosotenuis Clone AH
Candidatus Nitrosotenuis Clone AI
Candidatus Nitrosotenuis Clone AJ
Candidatus Nitrosotenuis Clone AK
Candidatus Nitrosotenuis Clone AL
Candidatus Nitrosotenuis Clone AM
Candidatus Nitrosotenuis Clone AN
Candidatus Nitrosotenuis Clone AO
Candidatus Nitrosotenuis Clone AP
Candidatus Nitrosotenuis Clone AQ
Candidatus Nitrosotenuis Clone AR
Candidatus Nitrosotenuis Clone AS
Candidatus Nitrosotenuis Clone AT
Candidatus Nitrosotenuis Clone AU
Candidatus Nitrosotenuis Clone AV
Candidatus Nitrosotenuis Clone AW
Candidatus Nitrosotenuis Clone AX
Candidatus Nitrosotenuis Clone AY
Candidatus Nitrosotenuis Clone AZ
Candidatus Nitrosotenuis Clone BA
Candidatus Nitrosotenuis Clone BB
Candidatus Nitrosotenuis Clone BC
Candidatus Nitrosotenuis Clone BD
Candidatus Nitrosotenuis Clone BE
Candidatus Nitrosotenuis Clone BF
Candidatus Nitrosotenuis Clone BG
Candidatus Nitrosotenuis Clone BH
Candidatus Nitrosotenuis Clone BI
Candidatus Nitrosotenuis Clone BJ
Candidatus Nitrosotenuis Clone BK
Candidatus Nitrosotenuis Clone BL
Candidatus Nitrosotenuis Clone BM
Candidatus Nitrosotenuis Clone BN
Candidatus Nitrosotenuis Clone BO
Candidatus Nitrosotenuis Clone BP
Candidatus Nitrosotenuis Clone BQ
Candidatus Nitrosotenuis Clone BR
Candidatus Nitrosotenuis Clone BS
Candidatus Nitrosotenuis Clone BT
Candidatus Nitrosotenuis Clone BU
Candidatus Nitrosotenuis Clone BV
Candidatus Nitrosotenuis Clone BW
Candidatus Nitrosotenuis Clone BX
Candidatus Nitrosotenuis Clone BY
Candidatus Nitrosotenuis Clone BZ
Candidatus Nitrosotenuis Clone CA
Candidatus Nitrosotenuis Clone CB
Candidatus Nitrosotenuis Clone CC
Candidatus Nitrosotenuis Clone CD
Candidatus Nitrosotenuis Clone CE
Candidatus Nitrosotenuis Clone CF
Candidatus Nitrosotenuis Clone CG
Candidatus Nitrosotenuis Clone CH
Candidatus Nitrosotenuis Clone CI
Candidatus Nitrosotenuis Clone CJ
Candidatus Nitrosotenuis Clone CK
Candidatus Nitrosotenuis Clone CL
Candidatus Nitrosotenuis Clone CM
Candidatus Nitrosotenuis Clone CN
Candidatus Nitrosotenuis Clone CO
Candidatus Nitrosotenuis Clone CP
Candidatus Nitrosotenuis Clone CQ
Candidatus Nitrosotenuis Clone CR
Candidatus Nitrosotenuis Clone CS
Candidatus Nitrosotenuis Clone CT
Candidatus Nitrosotenuis Clone CU
Candidatus Nitrosotenuis Clone CV
Candidatus Nitrosotenuis Clone CW
Candidatus Nitrosotenuis Clone CX
Candidatus Nitrosotenuis Clone CY
Candidatus Nitrosotenuis Clone CZ
Candidatus Nitrosotenuis Clone DA
Candidatus Nitrosotenuis Clone DB
Candidatus Nitrosotenuis Clone DC
Candidatus Nitrosotenuis Clone DD
Candidatus Nitrosotenuis Clone DE
Candidatus Nitrosotenuis Clone DF
Candidatus Nitrosotenuis Clone DG
Candidatus Nitrosotenuis Clone DH
Candidatus Nitrosotenuis Clone DI
Candidatus Nitrosotenuis Clone DJ
Candidatus Nitrosotenuis Clone DK
Candidatus Nitrosotenuis Clone DL
Candidatus Nitrosotenuis Clone DM
Candidatus Nitrosotenuis Clone DN
Candidatus Nitrosotenuis Clone DO
Candidatus Nitrosotenuis Clone DP
Candidatus Nitrosotenuis Clone DQ
Candidatus Nitrosotenuis Clone DR
Candidatus Nitrosotenuis Clone DS
Candidatus Nitrosotenuis Clone DT
Candidatus Nitrosotenuis Clone DU
Candidatus Nitrosotenuis Clone DV
Candidatus Nitrosotenuis Clone DW
Candidatus Nitrosotenuis Clone DX
Candidatus Nitrosotenuis Clone DY
Candidatus Nitrosotenuis Clone DZ
Candidatus Nitrosotenuis Clone EA
Candidatus Nitrosotenuis Clone EB
Candidatus Nitrosotenuis Clone EC
Candidatus Nitrosotenuis Clone ED
Candidatus Nitrosotenuis Clone EE
Candidatus Nitrosotenuis Clone EF
Candidatus Nitrosotenuis Clone EG
Candidatus Nitrosotenuis Clone EH
Candidatus Nitrosotenuis Clone EI
Candidatus Nitrosotenuis Clone EJ
Candidatus Nitrosotenuis Clone EK
Candidatus Nitrosotenuis Clone EL
Candidatus Nitrosotenuis Clone EM
Candidatus Nitrosotenuis Clone EN
Candidatus Nitrosotenuis Clone EO
Candidatus Nitrosotenuis Clone EP
Candidatus Nitrosotenuis Clone EQ
Candidatus Nitrosotenuis Clone ER
Candidatus Nitrosotenuis Clone ES
Candidatus Nitrosotenuis Clone ET
Candidatus Nitrosotenuis Clone EU
Candidatus Nitrosotenuis Clone EV
Candidatus Nitrosotenuis Clone EW
Candidatus Nitrosotenuis Clone EX
Candidatus Nitrosotenuis Clone EY
Candidatus Nitrosotenuis Clone EZ
Candidatus Nitrosotenuis Clone FA
Candidatus Nitrosotenuis Clone FB
Candidatus Nitrosotenuis Clone FC
Candidatus Nitrosotenuis Clone FD
Candidatus Nitrosotenuis Clone FE
Candidatus Nitrosotenuis Clone FF
Candidatus Nitrosotenuis Clone FG
Candidatus Nitrosotenuis Clone FH
Candidatus Nitrosotenuis Clone FI
Candidatus Nitrosotenuis Clone FJ
Candidatus Nitrosotenuis Clone FK
Candidatus Nitrosotenuis Clone FL
Candidatus Nitrosotenuis Clone FM
Candidatus Nitrosotenuis Clone FN
Candidatus Nitrosotenuis Clone FO
Candidatus Nitrosotenuis Clone FP
Candidatus Nitrosotenuis Clone FQ
Candidatus Nitrosotenuis Clone FR
Candidatus Nitrosotenuis Clone FS
Candidatus Nitrosotenuis Clone FT
Candidatus Nitrosotenuis Clone FU
Candidatus Nitrosotenuis Clone FV
Candidatus Nitrosotenuis Clone FW
Candidatus Nitrosotenuis Clone FX
Candidatus Nitrosotenuis Clone FY
Candidatus Nitrosotenuis Clone FZ
Candidatus Nitrosotenuis Clone GA
Candidatus Nitrosotenuis Clone GB
Candidatus Nitrosotenuis Clone GC
Candidatus Nitrosotenuis Clone GD
Candidatus Nitrosotenuis Clone GE
Candidatus Nitrosotenuis Clone GF
Candidatus Nitrosotenuis Clone GG
Candidatus Nitrosotenuis Clone GH
Candidatus Nitrosotenuis Clone GI
Candidatus Nitrosotenuis Clone GJ
Candidatus Nitrosotenuis Clone GK
Candidatus Nitrosotenuis Clone GL
Candidatus Nitrosotenuis Clone GM
Candidatus Nitrosotenuis Clone GN
Candidatus Nitrosotenuis Clone GO
Candidatus Nitrosotenuis Clone GP
Candidatus Nitrosotenuis Clone GQ
Candidatus Nitrosotenuis Clone GR
Candidatus Nitrosotenuis Clone GS
Candidatus Nitrosotenuis Clone GT
Candidatus Nitrosotenuis Clone GU
Candidatus Nitrosotenuis Clone GV
Candidatus Nitrosotenuis Clone GW
Candidatus Nitrosotenuis Clone GX
Candidatus Nitrosotenuis Clone GY
Candidatus Nitrosotenuis Clone GZ
Candidatus Nitrosotenuis Clone HA
Candidatus Nitrosotenuis Clone HB
Candidatus Nitrosotenuis Clone HC
Candidatus Nitrosotenuis Clone HD
Candidatus Nitrosotenuis Clone HE
Candidatus Nitrosotenuis Clone HF
Candidatus Nitrosotenuis Clone HG
Candidatus Nitrosotenuis Clone HH
Candidatus Nitrosotenuis Clone HI
Candidatus Nitrosotenuis Clone HJ
Candidatus Nitrosotenuis Clone HK
Candidatus Nitrosotenuis Clone HL
Candidatus Nitrosotenuis Clone HM
Candidatus Nitrosotenuis Clone HN
Candidatus Nitrosotenuis Clone HO
Candidatus Nitrosotenuis Clone HP
Candidatus Nitrosotenuis Clone HQ
Candidatus Nitrosotenuis Clone HR
Candidatus Nitrosotenuis Clone HS
Candidatus Nitrosotenuis Clone HT
Candidatus Nitrosotenuis Clone HU
Candidatus Nitrosotenuis Clone HV
Candidatus Nitrosotenuis Clone HW
Candidatus Nitrosotenuis Clone HX
Candidatus Nitrosotenuis Clone HY
Candidatus Nitrosotenuis Clone HZ
Candidatus Nitrosotenuis Clone IA
Candidatus Nitrosotenuis Clone IB
Candidatus Nitrosotenuis Clone IC
Candidatus Nitrosotenuis Clone ID
Candidatus Nitrosotenuis Clone IE
Candidatus Nitrosotenuis Clone IF
Candidatus Nitrosotenuis Clone IG
Candidatus Nitrosotenuis Clone IH
Candidatus Nitrosotenuis Clone II
Candidatus Nitrosotenuis Clone IJ
Candidatus Nitrosotenuis Clone IK
Candidatus Nitrosotenuis Clone IL
Candidatus Nitrosotenuis Clone IM
Candidatus Nitrosotenuis Clone IN
Candidatus Nitrosotenuis Clone IO
Candidatus Nitrosotenuis Clone IP
Candidatus Nitrosotenuis Clone IQ
Candidatus Nitrosotenuis Clone IR
Candidatus Nitrosotenuis Clone IS
Candidatus Nitrosotenuis Clone IT
Candidatus Nitrosotenuis Clone IU
Candidatus Nitrosotenuis Clone IV
Candidatus Nitrosotenuis Clone IW
Candidatus Nitrosotenuis Clone IX
Candidatus Nitrosotenuis Clone IY
Candidatus Nitrosotenuis Clone IZ
Candidatus Nitrosotenuis Clone JA
Candidatus Nitrosotenuis Clone JB
Candidatus Nitrosotenuis Clone JC
Candidatus Nitrosotenuis Clone JD
Candidatus Nitrosotenuis Clone JE
Candidatus Nitrosotenuis Clone JF
Candidatus Nitrosotenuis Clone JG
Candidatus Nitrosotenuis Clone JH
Candidatus Nitrosotenuis Clone JI
Candidatus Nitrosotenuis Clone JJ
Candidatus Nitrosotenuis Clone JK
Candidatus Nitrosotenuis Clone JL
Candidatus Nitrosotenuis Clone JM
Candidatus Nitrosotenuis Clone JN
Candidatus Nitrosotenuis Clone JO
Candidatus Nitrosotenuis Clone JP
Candidatus Nitrosotenuis Clone JQ
Candidatus Nitrosotenuis Clone JR
Candidatus Nitrosotenuis Clone JS
Candidatus Nitrosotenuis Clone JT
Candidatus Nitrosotenuis Clone JU
Candidatus Nitrosotenuis Clone JV
Candidatus Nitrosotenuis Clone JW
Candidatus Nitrosotenuis Clone JX
Candidatus Nitrosotenuis Clone JY
Candidatus Nitrosotenuis Clone JZ
Candidatus Nitrosotenuis Clone KA
Candidatus Nitrosotenuis Clone KB
Candidatus Nitrosotenuis Clone KC
Candidatus Nitrosotenuis Clone KD
Candidatus Nitrosotenuis Clone KE
Candidatus Nitrosotenuis Clone KF
Candidatus Nitrosotenuis Clone KG
Candidatus Nitrosotenuis Clone KH
Candidatus Nitrosotenuis Clone KI
Candidatus Nitrosotenuis Clone KJ
Candidatus Nitrosotenuis Clone KK
Candidatus Nitrosotenuis Clone KL
Candidatus Nitrosotenuis Clone KM
Candidatus Nitrosotenuis Clone KN
Candidatus Nitrosotenuis Clone KO
Candidatus Nitrosotenuis Clone KP
Candidatus Nitrosotenuis Clone KQ
Candidatus Nitrosotenuis Clone KR
Candidatus Nitrosotenuis Clone KS
Candidatus Nitrosotenuis Clone KT
Candidatus Nitrosotenuis Clone KU
Candidatus Nitrosotenuis Clone KV
Candidatus Nitrosotenuis Clone KW
Candidatus Nitrosotenuis Clone KX
Candidatus Nitrosotenuis Clone KY
Candidatus Nitrosotenuis Clone KZ
Candidatus Nitrosotenuis Clone LA
Candidatus Nitrosotenuis Clone LB
Candidatus Nitrosotenuis Clone LC
Candidatus Nitrosotenuis Clone LD
Candidatus Nitrosotenuis Clone LE
Candidatus Nitrosotenuis Clone LF
Candidatus Nitrosotenuis Clone LG
Candidatus Nitrosotenuis Clone LH
Candidatus Nitrosotenuis Clone LI
Candidatus Nitrosotenuis Clone LJ
Candidatus Nitrosotenuis Clone LK
Candidatus Nitrosotenuis Clone LL
Candidatus Nitrosotenuis Clone LM
Candidatus Nitrosotenuis Clone LN
Candidatus Nitrosotenuis Clone LO
Candidatus Nitrosotenuis Clone LP
Candidatus Nitrosotenuis Clone LQ
Candidatus Nitrosotenuis Clone LR
Candidatus Nitrosotenuis Clone LS
Candidatus Nitrosotenuis Clone LT
Candidatus Nitrosotenuis Clone LU
Candidatus Nitrosotenuis Clone LV
Candidatus Nitrosotenuis Clone LW
Candidatus Nitrosotenuis Clone LX
Candidatus Nitrosotenuis Clone LY
Candidatus Nitrosotenuis Clone LZ
Candidatus Nitrosotenuis Clone MA
Candidatus Nitrosotenuis Clone MB
Candidatus Nitrosotenuis Clone MC
Candidatus Nitrosotenuis Clone MD
Candidatus Nitrosotenuis Clone ME
Candidatus Nitrosotenuis Clone MF
Candidatus Nitrosotenuis Clone MG
Candidatus Nitrosotenuis Clone MH
Candidatus Nitrosotenuis Clone MI
Candidatus Nitrosotenuis Clone MJ
Candidatus Nitrosotenuis Clone MK
Candidatus Nitrosotenuis Clone ML
Candidatus Nitrosotenuis Clone MM
Candidatus Nitrosotenuis Clone MN
Candidatus Nitrosotenuis Clone MO
Candidatus Nitrosotenuis Clone MP
Candidatus Nitrosotenuis Clone MQ
Candidatus Nitrosotenuis Clone MR
Candidatus Nitrosotenuis Clone MS
Candidatus Nitrosotenuis Clone MT
Candidatus Nitrosotenuis Clone MU
Candidatus Nitrosotenuis Clone MV
Candidatus Nitrosotenuis Clone MW
Candidatus Nitrosotenuis Clone MX
Candidatus Nitrosotenuis Clone MY
Candidatus Nitrosotenuis Clone MZ
Candidatus Nitrosotenuis Clone NA
Candidatus Nitrosotenuis Clone NB
Candidatus Nitrosotenuis Clone NC
Candidatus Nitrosotenuis Clone ND
Candidatus Nitrosotenuis Clone NE
Candidatus Nitrosotenuis Clone NF
Candidatus Nitrosotenuis Clone NG
Candidatus Nitrosotenuis Clone NH
Candidatus Nitrosotenuis Clone NI
Candidatus Nitrosotenuis Clone NJ
Candidatus Nitrosotenuis Clone NK
Candidatus Nitrosotenuis Clone NL
Candidatus Nitrosotenuis Clone NM
Candidatus Nitrosotenuis Clone NN
Candidatus Nitrosotenuis Clone NO
Candidatus Nitrosotenuis Clone NP
Candidatus Nitrosotenuis Clone NQ
Candidatus Nitrosotenuis Clone NR
Candidatus Nitrosotenuis Clone NS
Candidatus Nitrosotenuis Clone NT
Candidatus Nitrosotenuis Clone NU
Candidatus Nitrosotenuis Clone NV
Candidatus Nitrosotenuis Clone NW
Candidatus Nitrosotenuis Clone NX
Candidatus Nitrosotenuis Clone NY
Candidatus Nitrosotenuis Clone NZ
Candidatus Nitrosotenuis Clone OA
Candidatus Nitrosotenuis Clone OB
Candidatus Nitrosotenuis Clone OC
Candidatus Nitrosotenuis Clone OD
Candidatus Nitrosotenuis Clone OE
Candidatus Nitrosotenuis Clone OF
Candidatus Nitrosotenuis Clone OG
Candidatus Nitrosotenuis Clone OH
Candidatus Nitrosotenuis Clone OI
Candidatus Nitrosotenuis Clone OJ
Candidatus Nitrosotenuis Clone OK
Candidatus Nitrosotenuis Clone OL
Candidatus Nitrosotenuis Clone OM
Candidatus Nitrosotenuis Clone ON
Candidatus Nitrosotenuis Clone OO
Candidatus Nitrosotenuis Clone OP
Candidatus Nitrosotenuis Clone OQ
Candidatus Nitrosotenuis Clone OR
Candidatus Nitrosotenuis Clone OS
Candidatus Nitrosotenuis Clone OT
Candidatus Nitrosotenuis Clone OU
Candidatus Nitrosotenuis Clone OV
Candidatus Nitrosotenuis Clone OW
Candidatus Nitrosotenuis Clone OX
Candidatus Nitrosotenuis Clone OY
Candidatus Nitrosotenuis Clone OZ
Candidatus Nitrosotenuis Clone PA
Candidatus Nitrosotenuis Clone PB
Candidatus Nitrosotenuis Clone PC
Candidatus Nitrosotenuis Clone PD
Candidatus Nitrosotenuis Clone PE
Candidatus Nitrosotenuis Clone PF
Candidatus Nitrosotenuis Clone PG
Candidatus Nitrosotenuis Clone PH
Candidatus Nitrosotenuis Clone PI
Candidatus Nitrosotenuis Clone PJ
Candidatus Nitrosotenuis Clone PK
Candidatus Nitrosotenuis Clone PL
Candidatus Nitrosotenuis Clone PM
Candidatus Nitrosotenuis Clone PN
Candidatus Nitrosotenuis Clone PO
Candidatus Nitrosotenuis Clone PP
Candidatus Nitrosotenuis Clone PQ
Candidatus Nitrosotenuis Clone PR
Candidatus Nitrosotenuis Clone PS
Candidatus Nitrosotenuis Clone PT
Candidatus Nitrosotenuis Clone PU
Candidatus Nitrosotenuis Clone PV
Candidatus Nitrosotenuis Clone PW
Candidatus Nitrosotenuis Clone PX
Candidatus Nitrosotenuis Clone PY
Candidatus Nitrosotenuis Clone PZ
Candidatus Nitrosotenuis Clone QA
Candidatus Nitrosotenuis Clone QB
Candidatus Nitrosotenuis Clone QC
Candidatus Nitrosotenuis Clone QD
Candidatus Nitrosotenuis Clone QE
Candidatus Nitrosotenuis Clone QF
Candidatus Nitrosotenuis Clone QG
Candidatus Nitrosotenuis Clone QH
Candidatus Nitrosotenuis Clone QI
Candidatus Nitrosotenuis Clone QJ
Candidatus Nitrosotenuis Clone QK
Candidatus Nitrosotenuis Clone QL
Candidatus Nitrosotenuis Clone QM
Candidatus Nitrosotenuis Clone QN
Candidatus Nitrosotenuis Clone QO
Candidatus Nitrosotenuis Clone QP
Candidatus Nitrosotenuis Clone QQ
Candidatus Nitrosotenuis Clone QR
Candidatus Nitrosotenuis Clone QS
Candidatus Nitrosotenuis Clone QT
Candidatus Nitrosotenuis Clone QU
Candidatus Nitrosotenuis Clone QV
Candidatus Nitrosotenuis Clone QW
Candidatus Nitrosotenuis Clone QX
Candidatus Nitrosotenuis Clone QY
Candidatus Nitrosotenuis Clone QZ
Candidatus Nitrosotenuis Clone RA
Candidatus Nitrosotenuis Clone RB
Candidatus Nitrosotenuis Clone RC
Candidatus Nitrosotenuis Clone RD
Candidatus Nitrosotenuis Clone RE
Candidatus Nitrosotenuis Clone RF
Candidatus Nitrosotenuis Clone RG
Candidatus Nitrosotenuis Clone RH
Candidatus Nitrosotenuis Clone RI
Candidatus Nitrosotenuis Clone RJ
Candidatus Nitrosotenuis Clone RK
Candidatus Nitrosotenuis Clone RL
Candidatus Nitrosotenuis Clone RM
Candidatus Nitrosotenuis Clone RN
Candidatus Nitrosotenuis Clone RO
Candidatus Nitrosotenuis Clone RP
Candidatus Nitrosotenuis Clone RQ
Candidatus Nitrosotenuis Clone RR
Candidatus Nitrosotenuis Clone RS
Candidatus Nitrosotenuis Clone RT
Candidatus Nitrosotenuis Clone RU
Candidatus Nitrosotenuis Clone RV
Candidatus Nitrosotenuis Clone RW
Candidatus Nitrosotenuis Clone RX
Candidatus Nitrosotenuis Clone RY
Candidatus Nitrosotenuis Clone RZ
Candidatus Nitrosotenuis Clone SA
Candidatus Nitrosotenuis Clone SB
Candidatus Nitrosotenuis Clone SC
Candidatus Nitrosotenuis Clone SD
Candidatus Nitrosotenuis Clone SE
Candidatus Nitrosotenuis Clone SF
Candidatus Nitrosotenuis Clone SG
Candidatus Nitrosotenuis Clone SH
Candidatus Nitrosotenuis Clone SI
Candidatus Nitrosotenuis Clone SJ
Candidatus Nitrosotenuis Clone SK
Candidatus Nitrosotenuis Clone SL
Candidatus Nitrosotenuis Clone SM
Candidatus Nitrosotenuis Clone SN
Candidatus Nitrosotenuis Clone SO
Candidatus Nitrosotenuis Clone SP
Candidatus Nitrosotenuis Clone SQ
Candidatus Nitrosotenuis Clone SR
Candidatus Nitrosotenuis Clone SS
Candidatus Nitrosotenuis Clone ST
Candidatus Nitrosotenuis Clone SU
Candidatus Nitrosotenuis Clone SV
Candidatus Nitrosotenuis Clone SW
Candidatus Nitrosotenuis Clone SX
Candidatus Nitrosotenuis Clone SY
Candidatus Nitrosotenuis Clone SZ
Candidatus Nitrosotenuis Clone TA
Candidatus Nitrosotenuis Clone TB
Candidatus Nitrosotenuis Clone TC
Candidatus Nitrosotenuis Clone TD
Candidatus Nitrosotenuis Clone TE
Candidatus Nitrosotenuis Clone TF
Candidatus Nitrosotenuis Clone TG
Candidatus Nitrosotenuis Clone TH
Candidatus Nitrosotenuis Clone TI
Candidatus Nitrosotenuis Clone TJ
Candidatus Nitrosotenuis Clone TK
Candidatus Nitrosotenuis Clone TL
Candidatus Nitrosotenuis Clone TM
Candidatus Nitrosotenuis Clone TN
Candidatus Nitrosotenuis Clone TO
Candidatus Nitrosotenuis Clone TP
Candidatus Nitrosotenuis Clone TQ
Candidatus Nitrosotenuis Clone TR
Candidatus Nitrosotenuis Clone TS
Candidatus Nitrosotenuis Clone TT
Candidatus Nitrosotenuis Clone TU
Candidatus Nitrosotenuis Clone TV
Candidatus Nitrosotenuis Clone TW
Candidatus Nitrosotenuis Clone TX
Candidatus Nitrosotenuis Clone TY
Candidatus Nitrosotenuis Clone TZ
Candidatus Nitrosotenuis Clone UA
Candidatus Nitrosotenuis Clone UB
Candidatus Nitrosotenuis Clone UC
Candidatus Nitrosotenuis Clone UD
Candidatus Nitrosotenuis Clone UE
Candidatus Nitrosotenuis Clone UF
Candidatus Nitrosotenuis Clone UG
Candidatus Nitrosotenuis Clone UH
Candidatus Nitrosotenuis Clone UI
Candidatus Nitrosotenuis Clone UJ
Candidatus Nitrosotenuis Clone UK
Candidatus Nitrosotenuis Clone UL
Candidatus Nitrosotenuis Clone UM
Candidatus Nitrosotenuis Clone UN
Candidatus Nitrosotenuis Clone UO
Candidatus Nitrosotenuis Clone UP
Candidatus Nitrosotenuis Clone UQ
Candidatus Nitrosotenuis Clone UR
Candidatus Nitrosotenuis Clone US
Candidatus Nitrosotenuis Clone UT
Candidatus Nitrosotenuis Clone UU
Candidatus Nitrosotenuis Clone UV
Candidatus Nitrosotenuis Clone UW
Candidatus Nitrosotenuis Clone UX
Candidatus Nitrosotenuis Clone UY
Candidatus Nitrosotenuis Clone UZ
Candidatus Nitrosotenuis Clone VA
Candidatus Nitrosotenuis Clone VB
Candidatus Nitrosotenuis Clone VC
Candidatus Nitrosotenuis Clone VD
Candidatus Nitrosotenuis Clone VE
Candidatus Nitrosotenuis Clone VF
Candidatus Nitrosotenuis Clone VG
Candidatus Nitrosotenuis Clone VH
Candidatus Nitrosotenuis Clone VI
Candidatus Nitrosotenuis Clone VJ
Candidatus Nitrosotenuis Clone VK
Candidatus Nitrosotenuis Clone VL
Candidatus Nitrosotenuis Clone VM
Candidatus Nitrosotenuis Clone VN
Candidatus Nitrosotenuis Clone VO
Candidatus Nitrosotenuis Clone VP
Candidatus Nitrosotenuis Clone VQ
Candidatus Nitrosotenuis Clone VR
Candidatus Nitrosotenuis Clone VS
Candidatus Nitrosotenuis Clone VT
Candidatus Nitrosotenuis Clone VU
Candidatus Nitrosotenuis Clone VV
Candidatus Nitrosotenuis Clone VW
Candidatus Nitrosotenuis Clone VX
Candidatus Nitrosotenuis Clone VY
Candidatus Nitrosotenuis Clone VZ
Candidatus Nitrosotenuis Clone WA
Candidatus Nitrosotenuis Clone WB
Candidatus Nitrosotenuis Clone WC
Candidatus Nitrosotenuis Clone WD
Candidatus Nitrosotenuis Clone WE
Candidatus Nitrosotenuis Clone WF
Candidatus Nitrosotenuis Clone WG
Candidatus Nitrosotenuis Clone WH
Candidatus Nitrosotenuis Clone WI
Candidatus Nitrosotenuis Clone WJ
Candidatus Nitrosotenuis Clone WK
Candidatus Nitrosotenuis Clone WL
Candidatus Nitrosotenuis Clone WM
Candidatus Nitrosotenuis Clone WN
Candidatus Nitrosotenuis Clone WO
Candidatus Nitrosotenuis Clone WP
Candidatus Nitrosotenuis Clone WQ
Candidatus Nitrosotenuis Clone WR
Candidatus Nitrosotenuis Clone WS
Candidatus Nitrosotenuis Clone WT
Candidatus Nitrosotenuis Clone WU
Candidatus Nitrosotenuis Clone WV
Candidatus Nitrosotenuis Clone WW
Candidatus Nitrosotenuis Clone WX
Candidatus Nitrosotenuis Clone WY
Candidatus Nitrosotenuis Clone WZ
Candidatus Nitrosotenuis Clone XA
Candidatus Nitrosotenuis Clone XB
Candidatus Nitrosotenuis Clone XC
Candidatus Nitrosotenuis Clone XD
Candidatus Nitrosotenuis Clone XE
Candidatus Nitrosotenuis Clone XF
Candidatus Nitrosotenuis Clone XG
Candidatus Nitrosotenuis Clone XH
Candidatus Nitrosotenuis Clone XI
Candidatus Nitrosotenuis Clone XJ
Candidatus Nitrosotenuis Clone XK
Candidatus Nitrosotenuis Clone XL
Candidatus Nitrosotenuis Clone XM
Candidatus Nitrosotenuis Clone XN
Candidatus Nitrosotenuis Clone XO
Candidatus Nitrosotenuis Clone XP
Candidatus Nitrosotenuis Clone XQ
Candidatus Nitrosotenuis Clone XR
Candidatus Nitrosotenuis Clone XS
Candidatus Nitrosotenuis Clone XT
Candidatus Nitrosotenuis Clone XU
Candidatus Nitrosotenuis Clone XV
Candidatus Nitrosotenuis Clone XW
Candidatus Nitrosotenuis Clone XX
Candidatus Nitrosotenuis Clone XY
Candidatus Nitrosotenuis Clone XZ
Candidatus Nitrosotenuis Clone YA
Candidatus Nitrosotenuis Clone YB
Candidatus Nitrosotenuis Clone YC
Candidatus Nitrosotenuis Clone YD
Candidatus Nitrosotenuis Clone YE
Candidatus Nitrosotenuis Clone YF
Candidatus Nitrosotenuis Clone YG
Candidatus Nitrosotenuis Clone YH
Candidatus Nitrosotenuis Clone YI
Candidatus Nitrosotenuis Clone YJ
Candidatus Nitrosotenuis Clone YK
Candidatus Nitrosotenuis Clone YL
Candidatus Nitrosotenuis Clone YM
Candidatus Nitrosotenuis Clone YN
Candidatus Nitrosotenuis Clone YO
Candidatus Nitrosotenuis Clone YP
Candidatus Nitrosotenuis Clone YQ
Candidatus Nitrosotenuis Clone YR
Candidatus Nitrosotenuis Clone YS
Candidatus Nitrosotenuis Clone YT
Candidatus Nitrosotenuis Clone YU
Candidatus Nitrosotenuis Clone YV
Candidatus Nitrosotenuis Clone YW
Candidatus Nitrosotenuis Clone YX
Candidatus Nitrosotenuis Clone YY
Candidatus Nitrosotenuis Clone YZ
Candidatus Nitrosotenuis Clone ZA
Candidatus Nitrosotenuis Clone ZB
Candidatus Nitrosotenuis Clone ZC
Candidatus Nitrosotenuis Clone ZD
Candidatus Nitrosotenuis Clone ZE
Candidatus Nitrosotenuis Clone ZF
Candidatus Nitrosotenuis Clone ZG
Candidatus Nitrosotenuis Clone ZH
Candidatus Nitrosotenuis Clone ZI
Candidatus Nitrosotenuis Clone ZJ
Candidatus Nitrosotenuis Clone ZK
Candidatus Nitrosotenuis Clone ZL
Cand

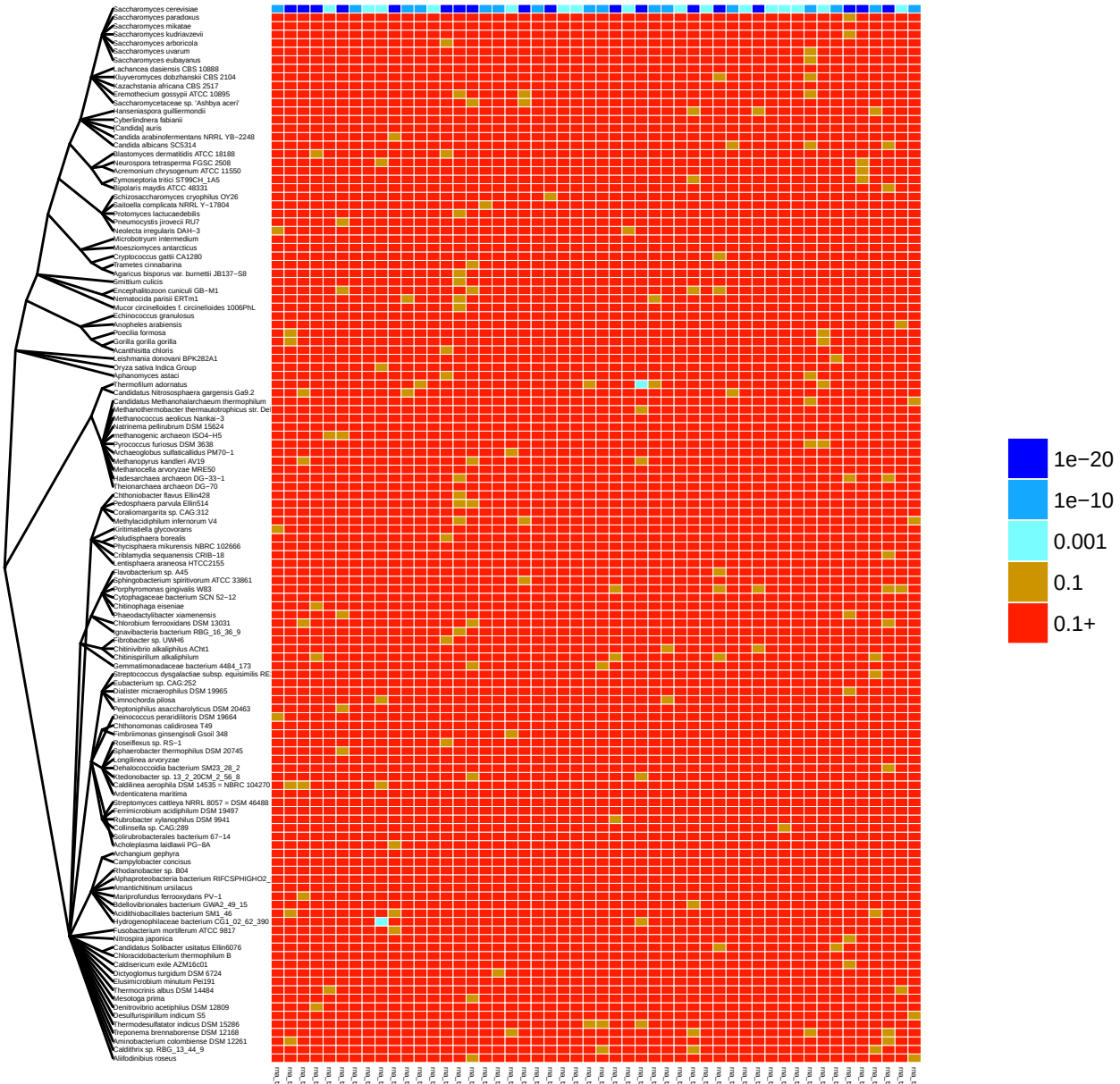

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

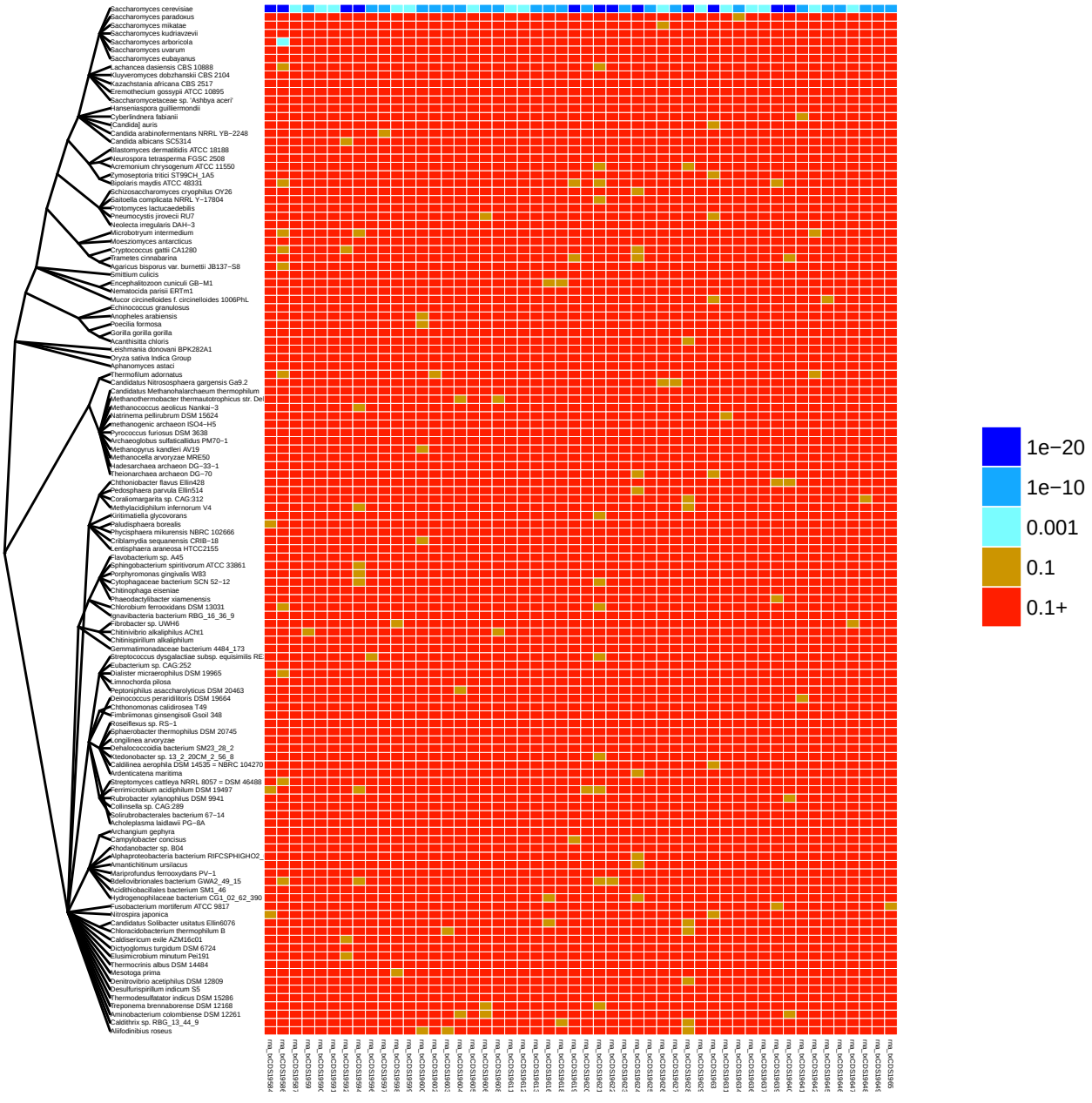

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

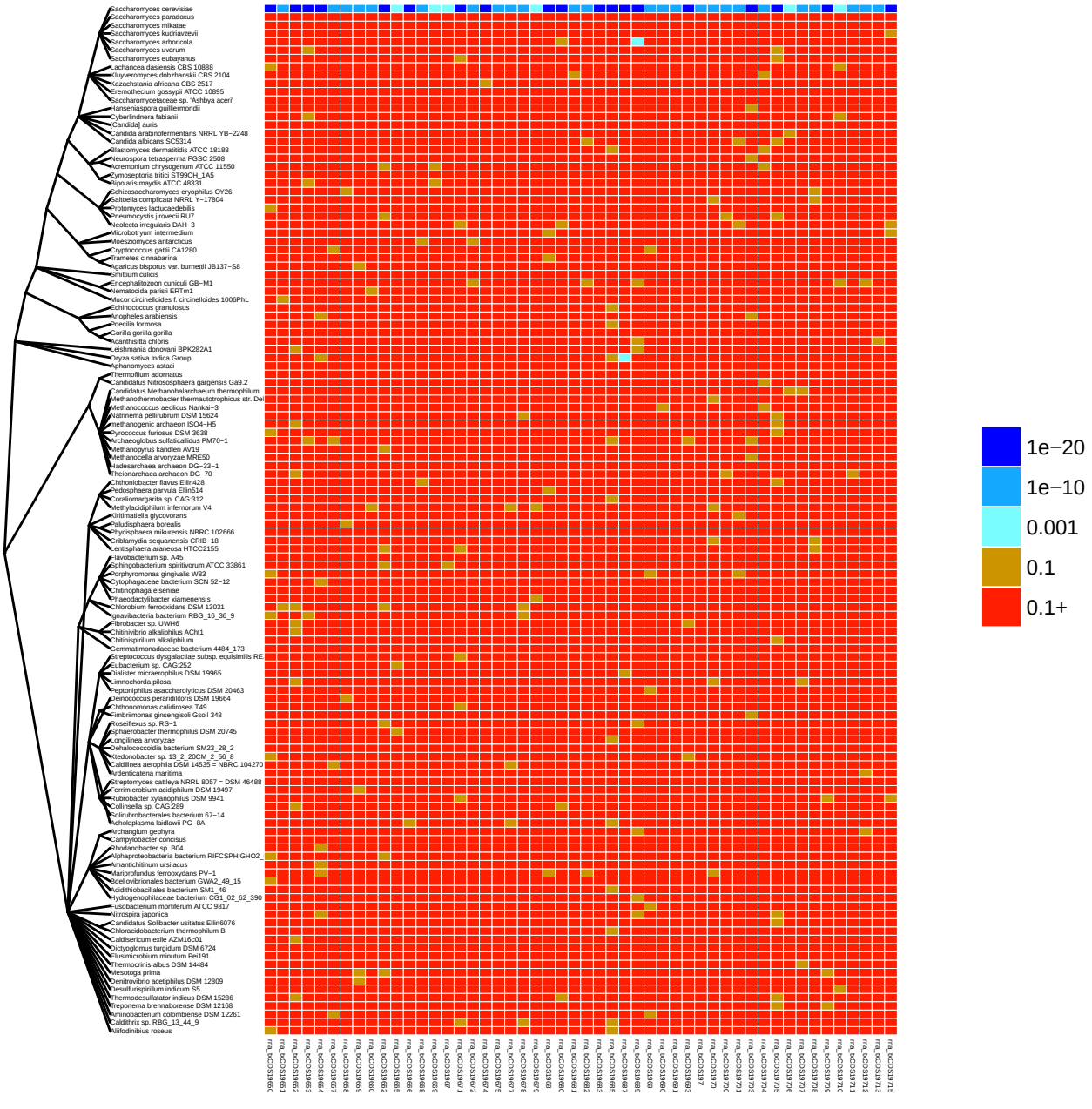

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

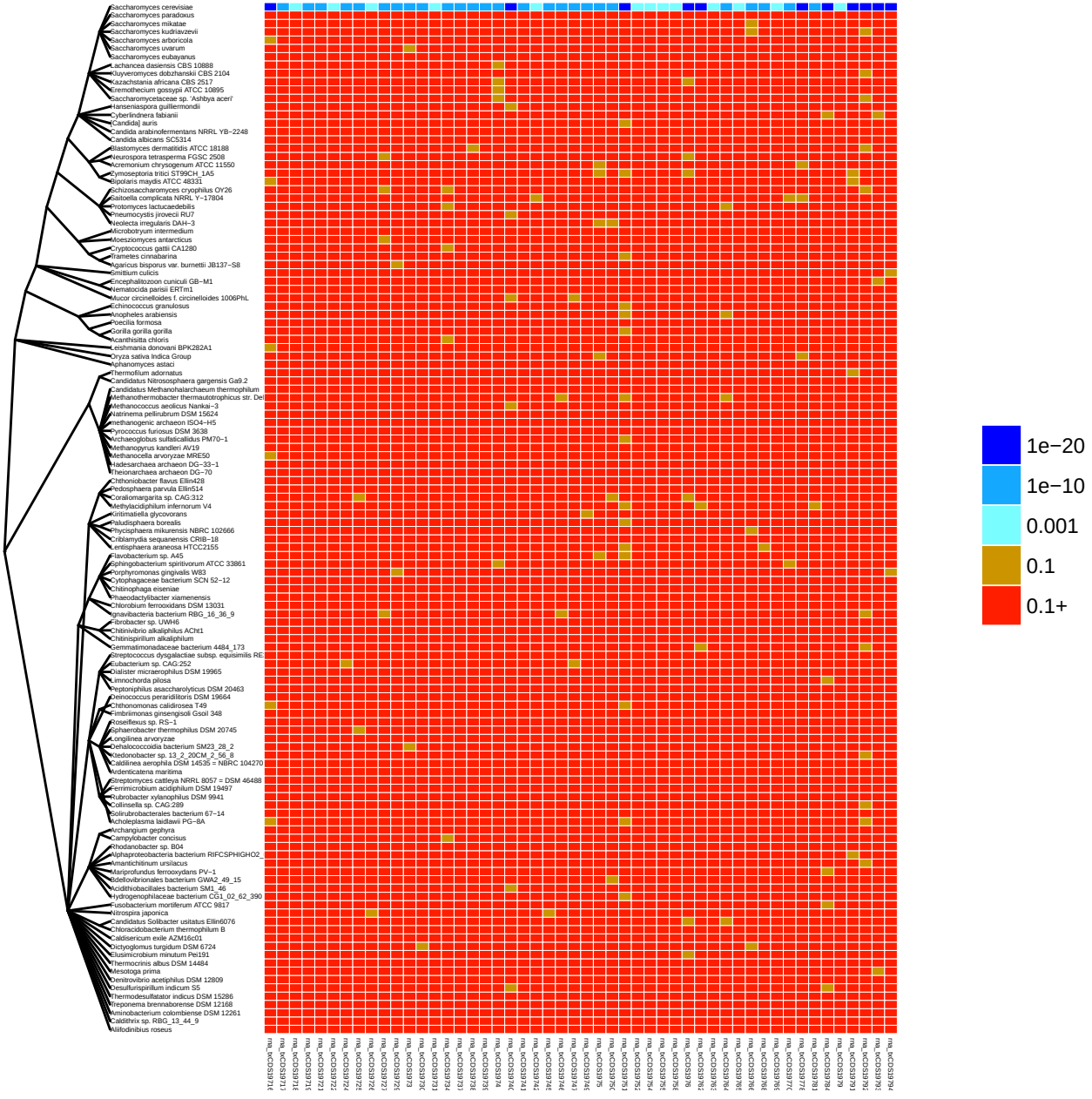

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

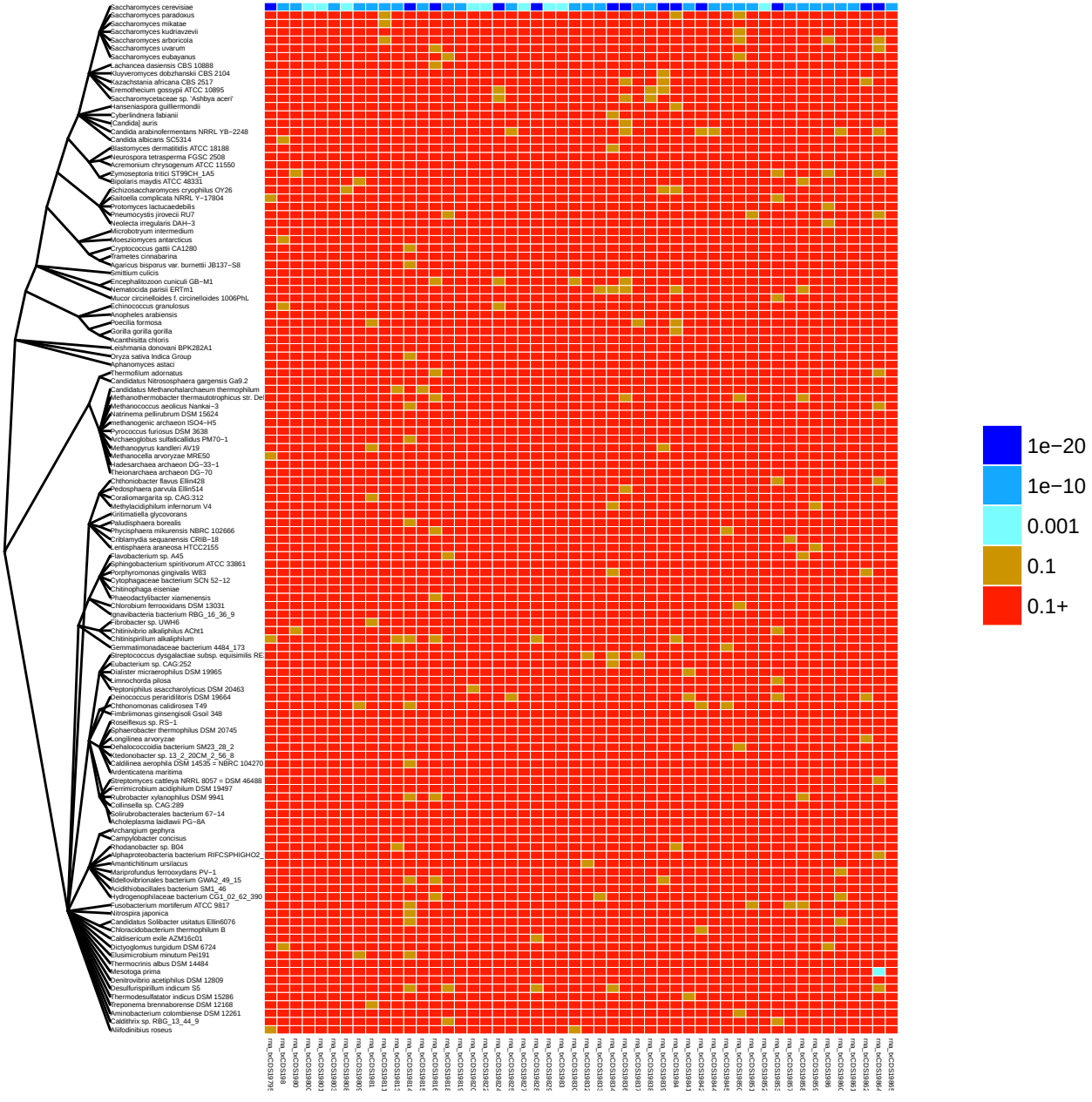

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

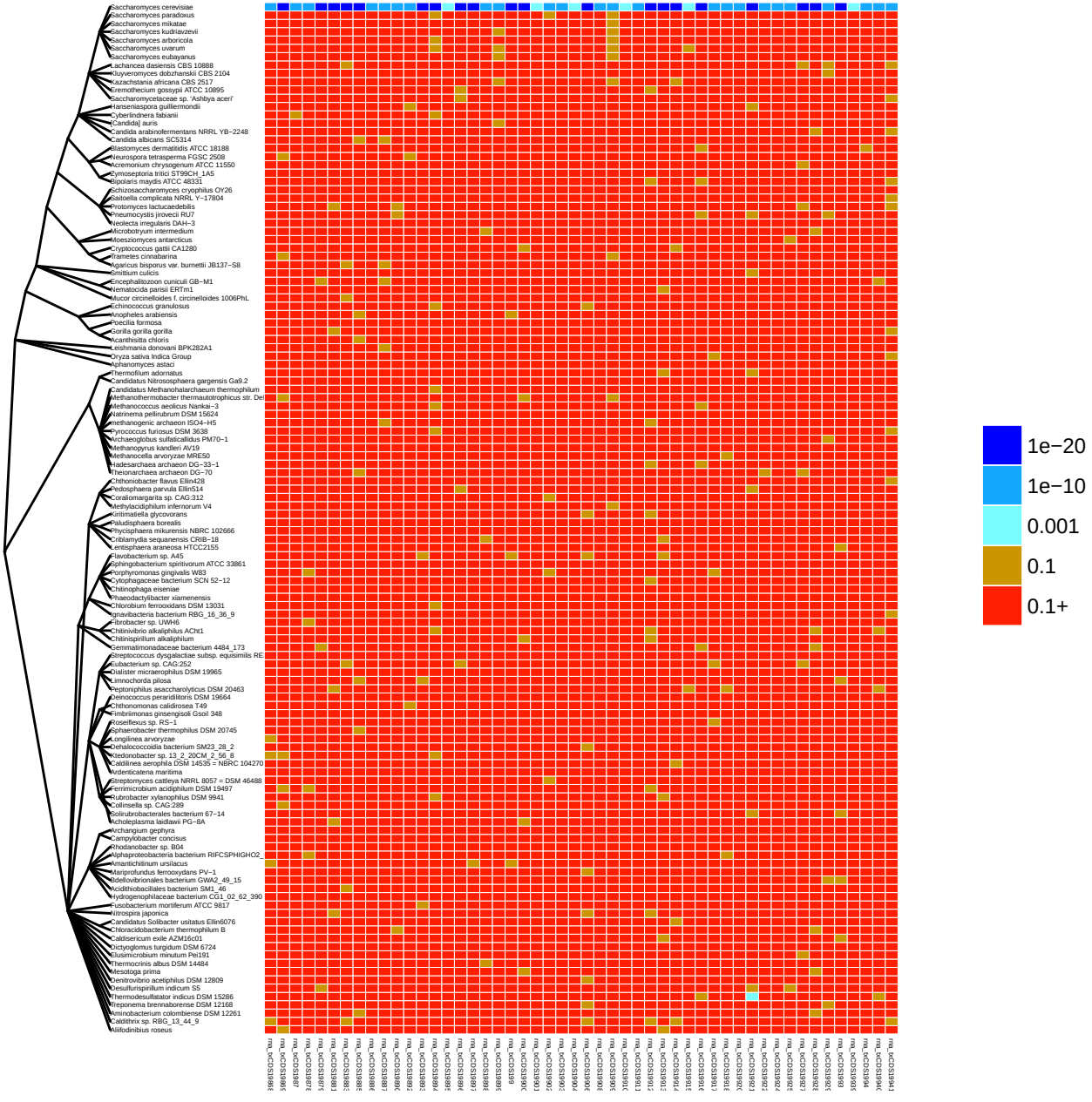

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

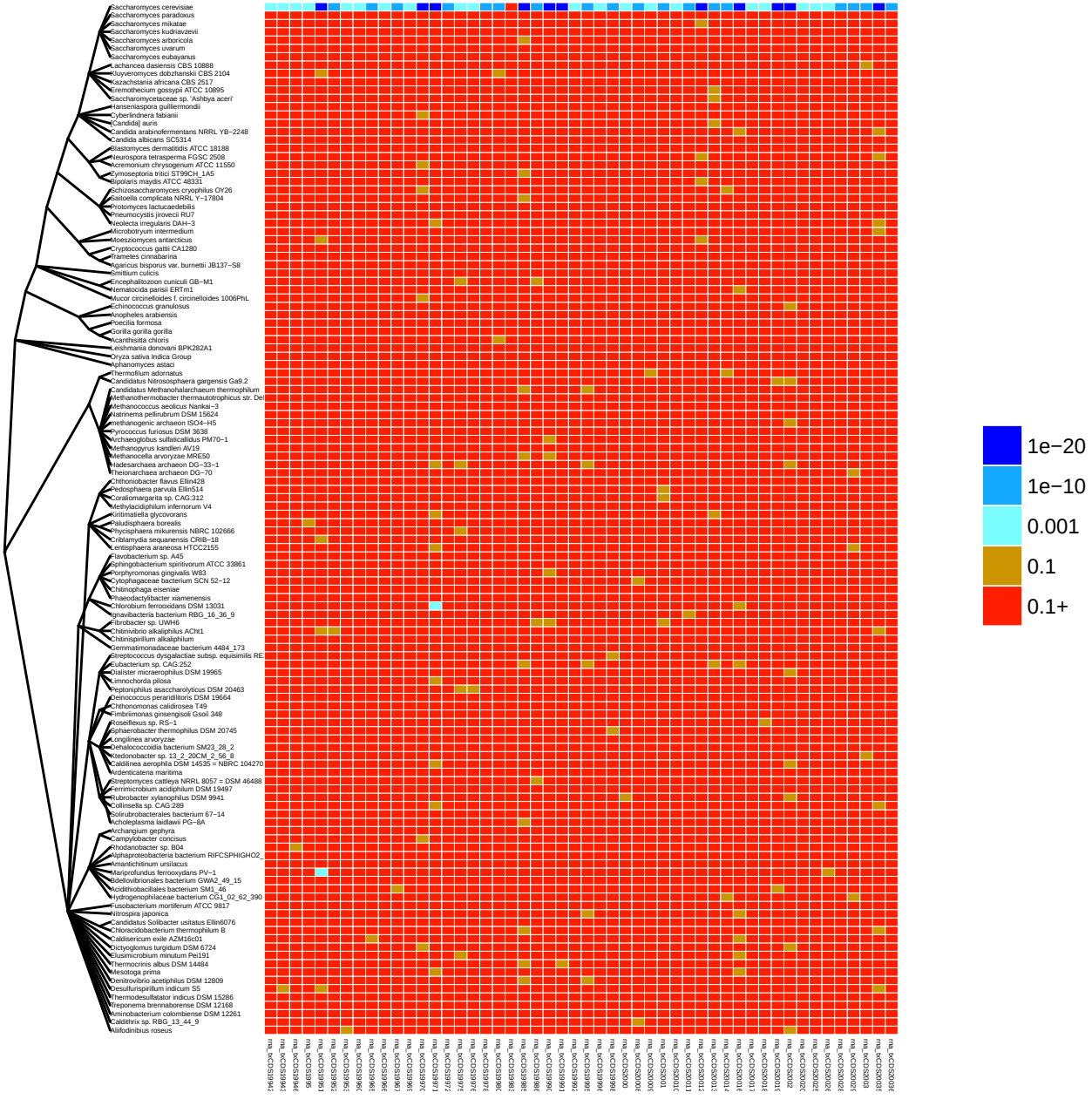

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiteonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

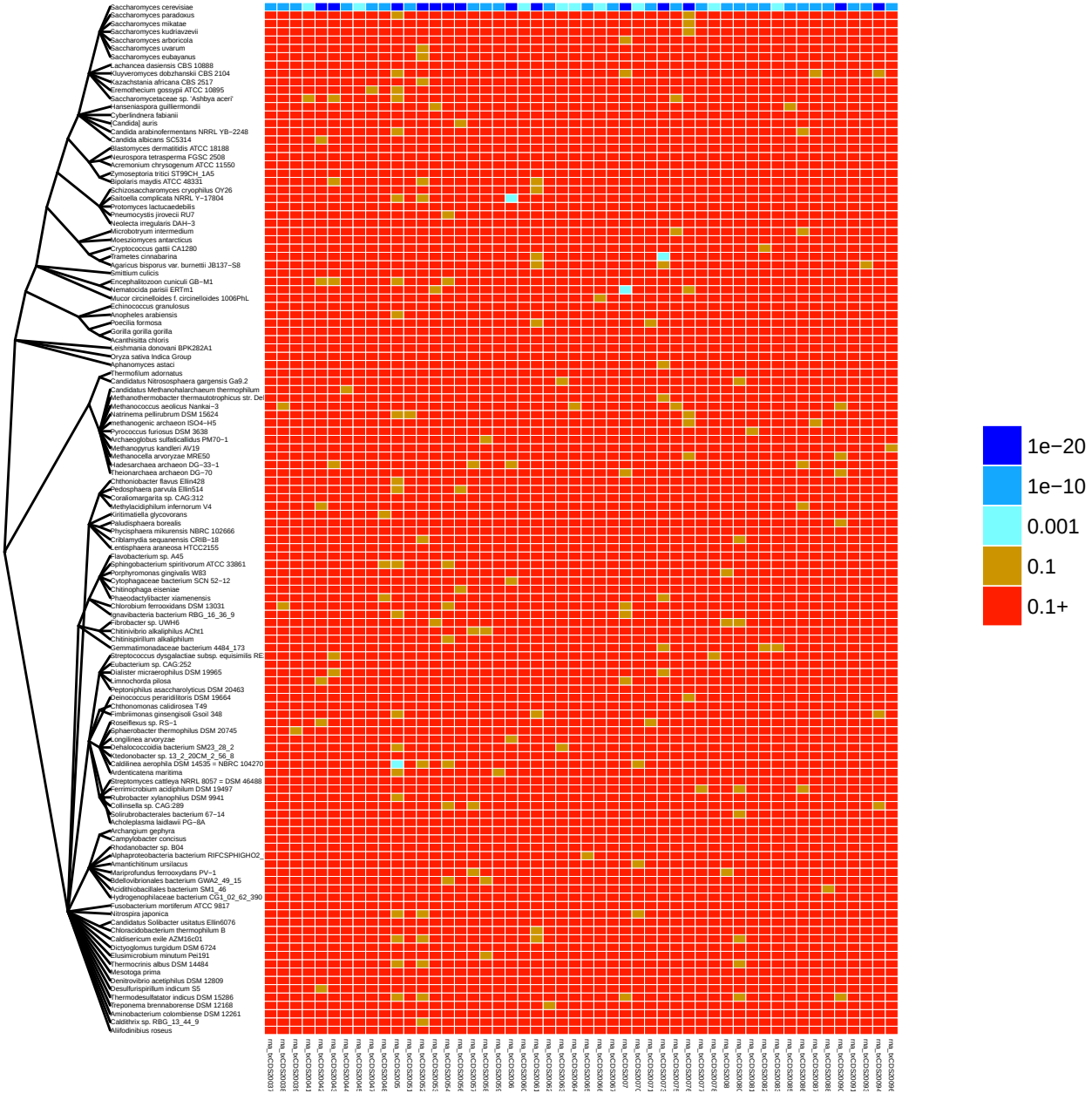

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

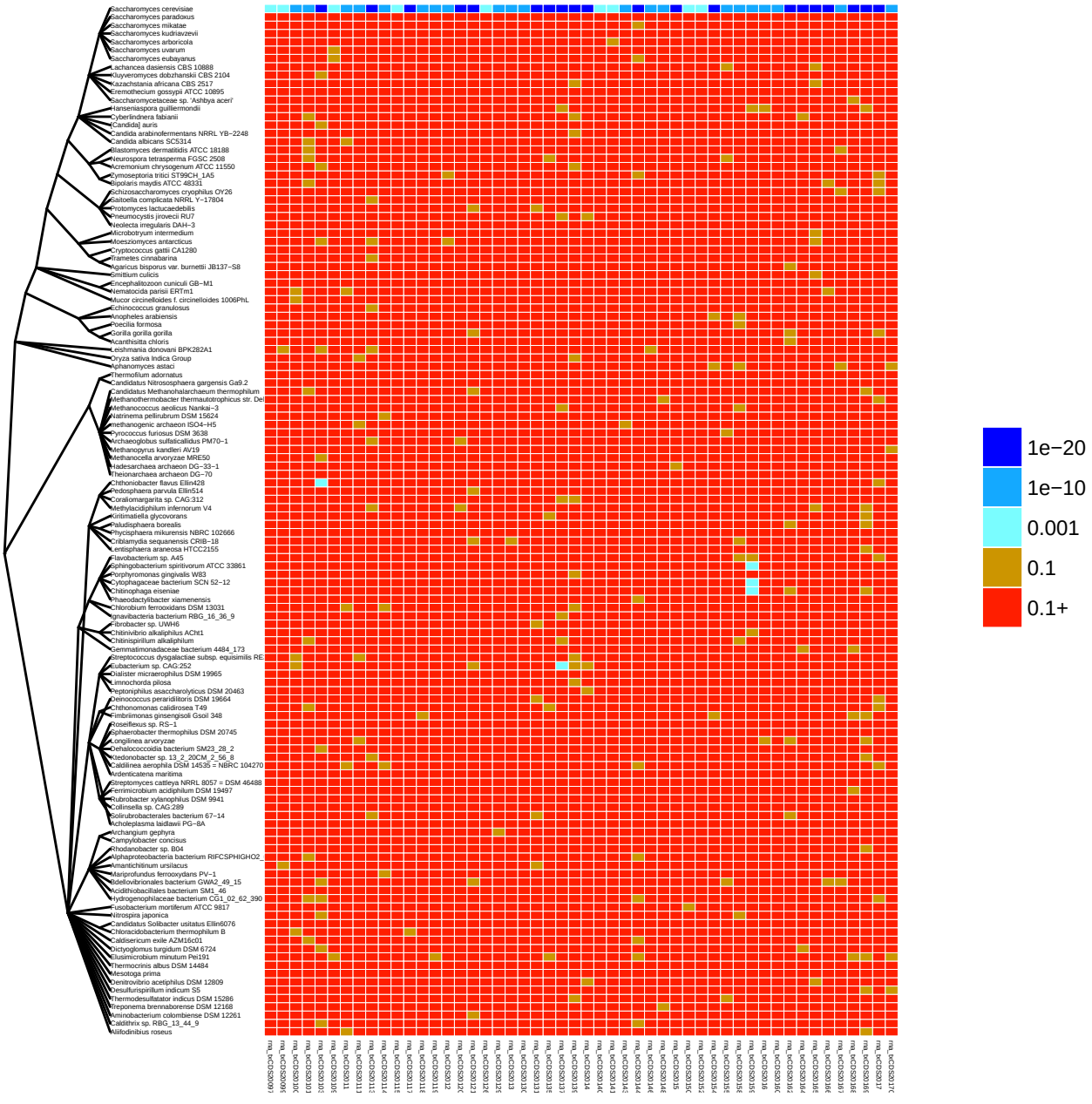

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

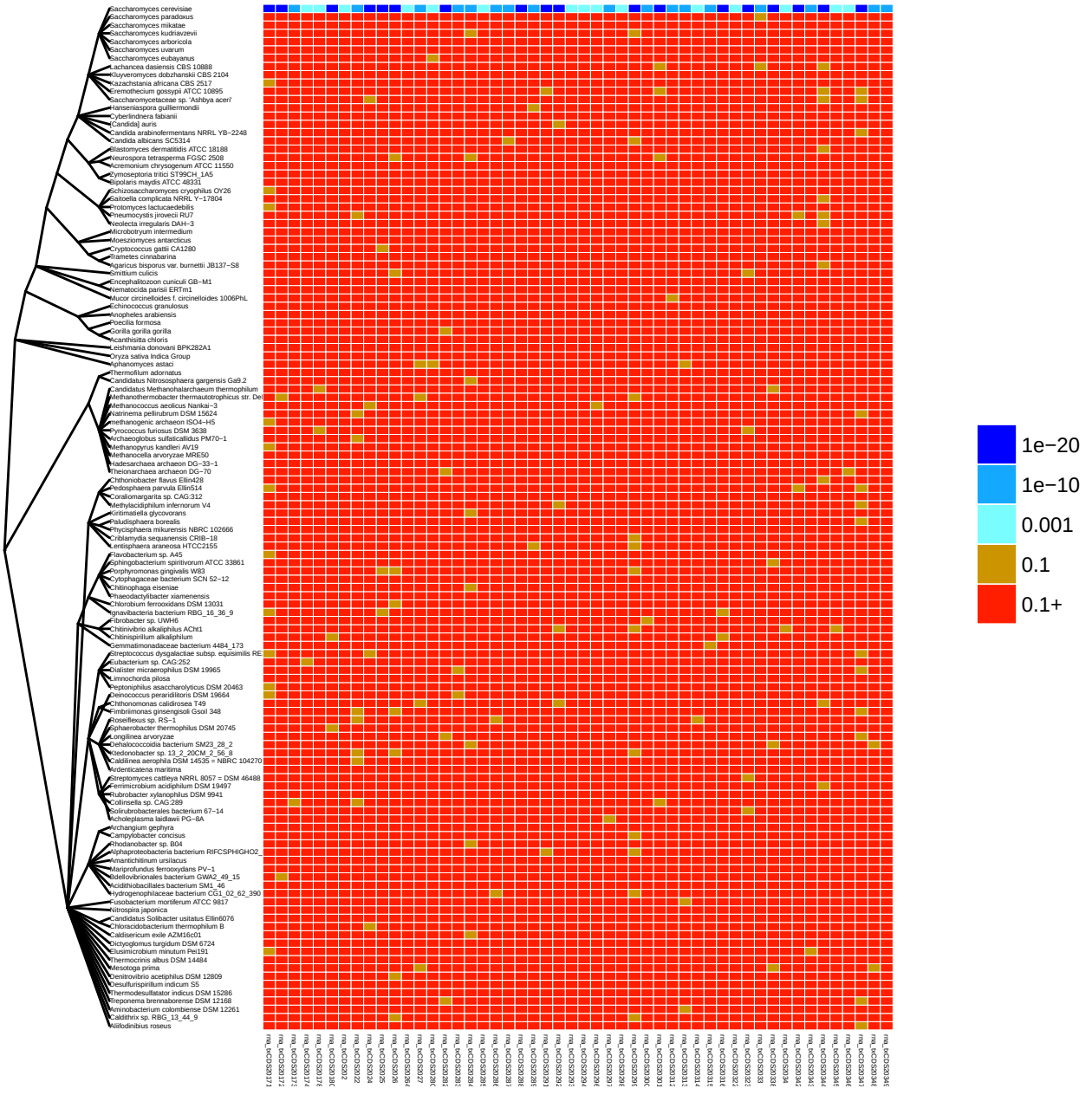

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

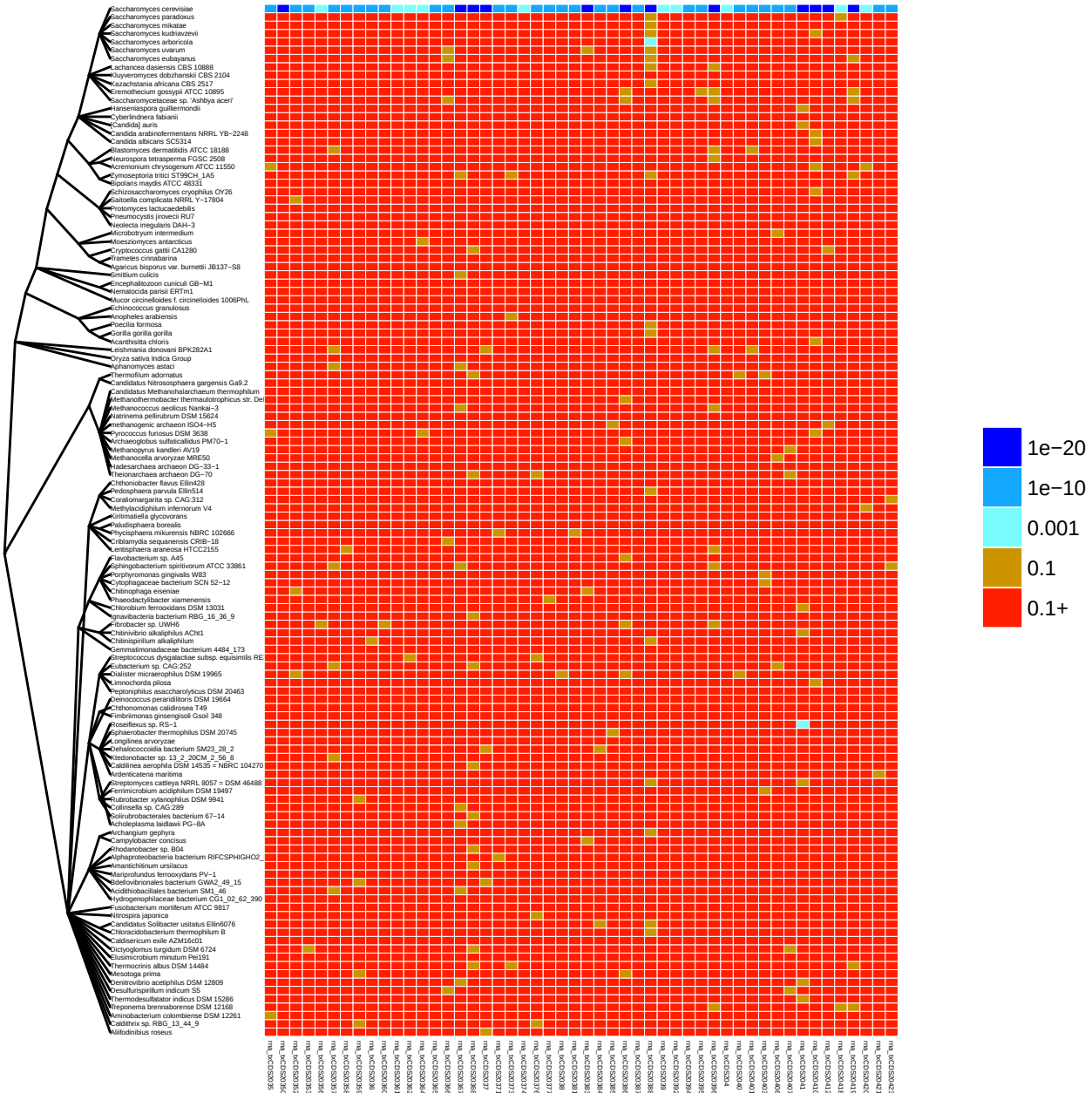

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Sporisorium reilianum SRS1
Ustilago maydis 521
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia japonica CBS 9558
Malassezia brasiliensis CBS 9959
Malassezia cuniculi CBS 9960
Malassezia nana CBS 9961
Malassezia obtusa CBS 9962
Malassezia pachydermatis CBS 9963
Malassezia globosa CBS 9964
Malassezia restricta CBS 9965
Malassezia slooffiae CBS 9966
Malassezia furfur CBS 9967
Malassezia dermatis CBS 9968
Malassezia yamatoensis CBS 9969
Malassezia japonica CBS 9970
Malassezia brasiliensis CBS 9971
Malassezia cuniculi CBS 9972
Malassezia nana CBS 9973
Malassezia obtusa CBS 9974
Malassezia pachydermatis CBS 9975
Malassezia globosa CBS 9976
Malassezia restricta CBS 9977
Malassezia slooffiae CBS 9978
Malassezia dermatis CBS 9979
Malassezia yamatoensis CBS 9980
Malassezia japonica CBS 9981
Malassezia brasiliensis CBS 9982
Malassezia cuniculi CBS 9983
Malassezia nana CBS 9984
Malassezia obtusa CBS 9985
Malassezia pachydermatis CBS 9986
Malassezia globosa CBS 9987
Malassezia restricta CBS 9988
Malassezia slooffiae CBS 9989
Malassezia dermatis CBS 9990
Malassezia yamatoensis CBS 9991
Malassezia japonica CBS 9992
Malassezia brasiliensis CBS 9993
Malassezia cuniculi CBS 9994
Malassezia nana CBS 9995
Malassezia obtusa CBS 9996
Malassezia pachydermatis CBS 9997
Malassezia globosa CBS 9998
Malassezia restricta CBS 9999
Malassezia slooffiae CBS 10000
Malassezia dermatis CBS 10001
Malassezia yamatoensis CBS 10002
Malassezia japonica CBS 10003
Malassezia brasiliensis CBS 10004
Malassezia cuniculi CBS 10005
Malassezia nana CBS 10006
Malassezia obtusa CBS 10007
Malassezia pachydermatis CBS 10008
Malassezia globosa CBS 10009
Malassezia restricta CBS 10010
Malassezia slooffiae CBS 10011
Malassezia dermatis CBS 10012
Malassezia yamatoensis CBS 10013
Malassezia japonica CBS 10014
Malassezia brasiliensis CBS 10015
Malassezia cuniculi CBS 10016
Malassezia nana CBS 10017
Malassezia obtusa CBS 10018
Malassezia pachydermatis CBS 10019
Malassezia globosa CBS 10020
Malassezia restricta CBS 10021
Malassezia slooffiae CBS 10022
Malassezia dermatis CBS 10023
Malassezia yamatoensis CBS 10024
Malassezia japonica CBS 10025
Malassezia brasiliensis CBS 10026
Malassezia cuniculi CBS 10027
Malassezia nana CBS 10028
Malassezia obtusa CBS 10029
Malassezia pachydermatis CBS 10030
Malassezia globosa CBS 10031
Malassezia restricta CBS 10032
Malassezia slooffiae CBS 10033
Malassezia dermatis CBS 10034
Malassezia yamatoensis CBS 10035
1e−20
1e−10
0.001
0.1
0.1+

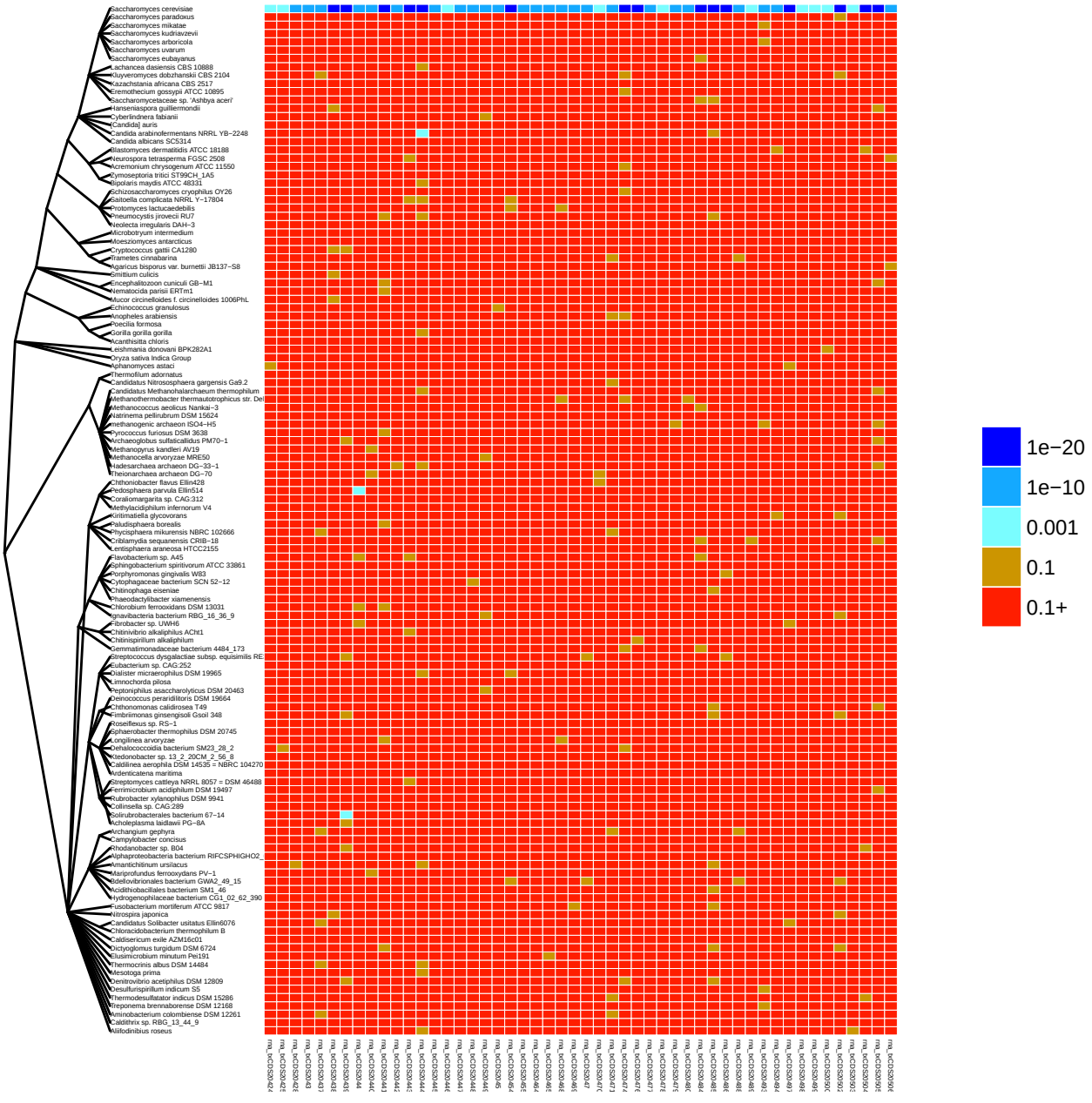

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

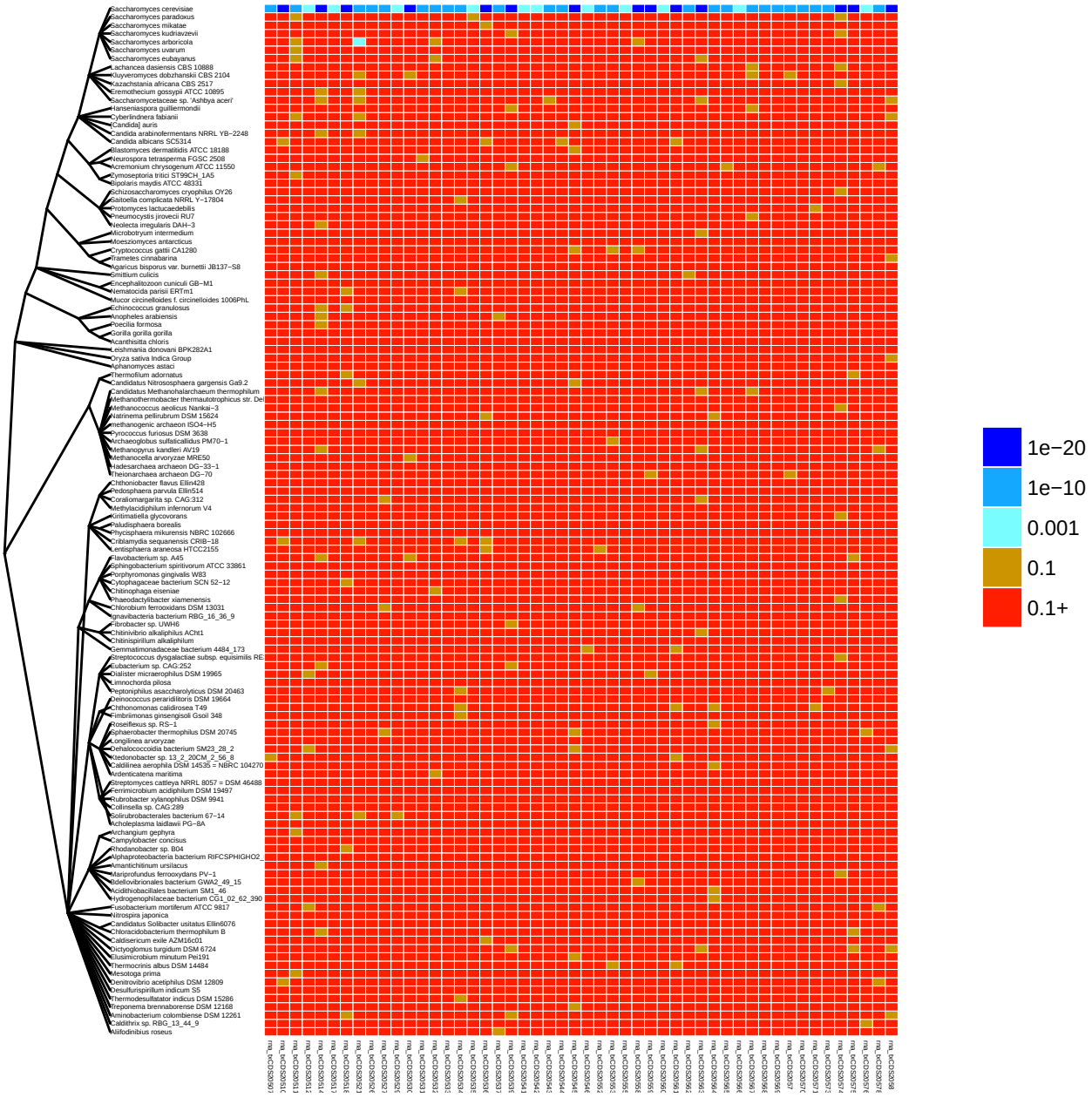

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas sp. Is79A3
Nitrosomonas europaea ATCC 19718
Nitrosomonas eutropha C91
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A3

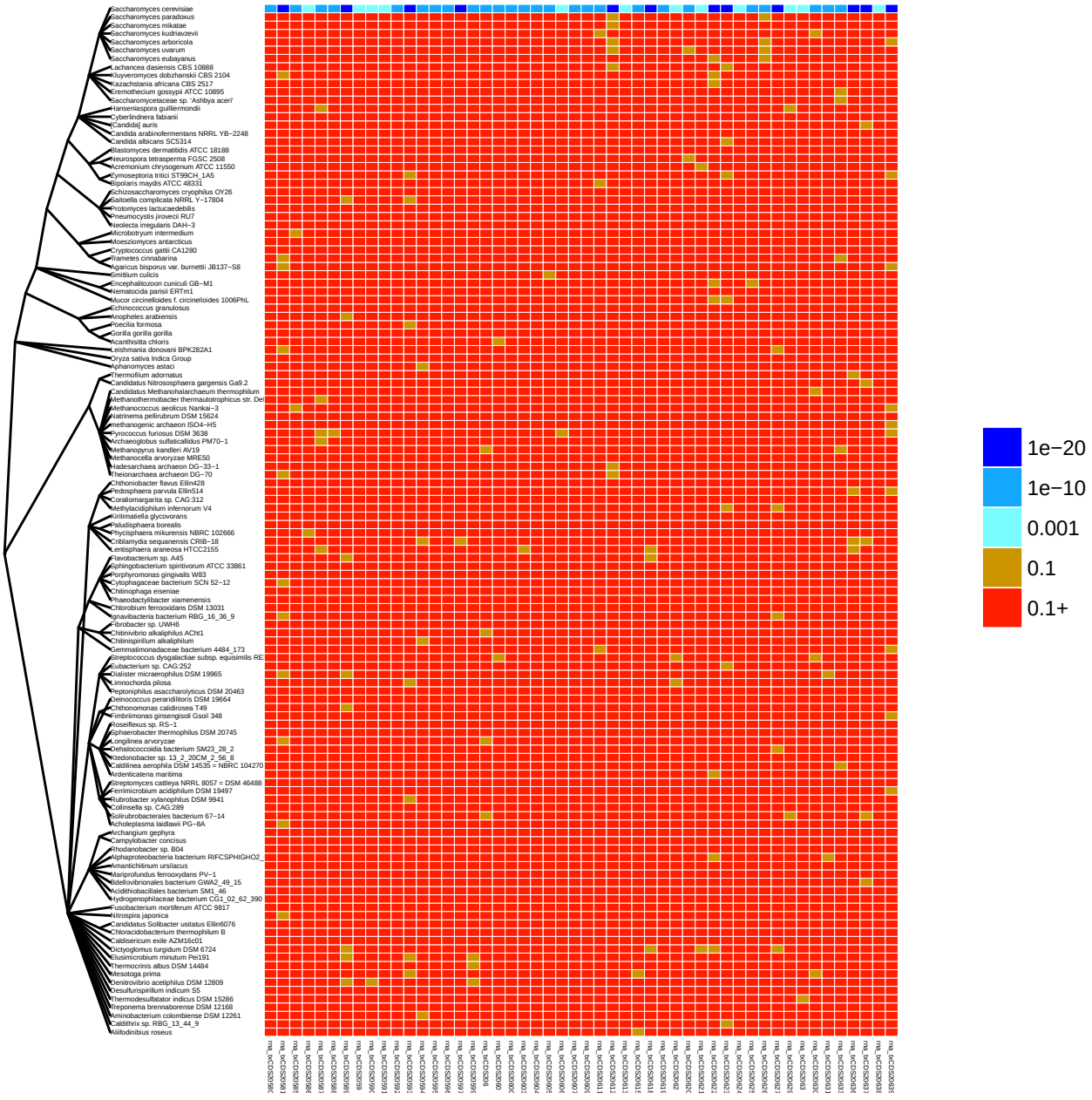

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

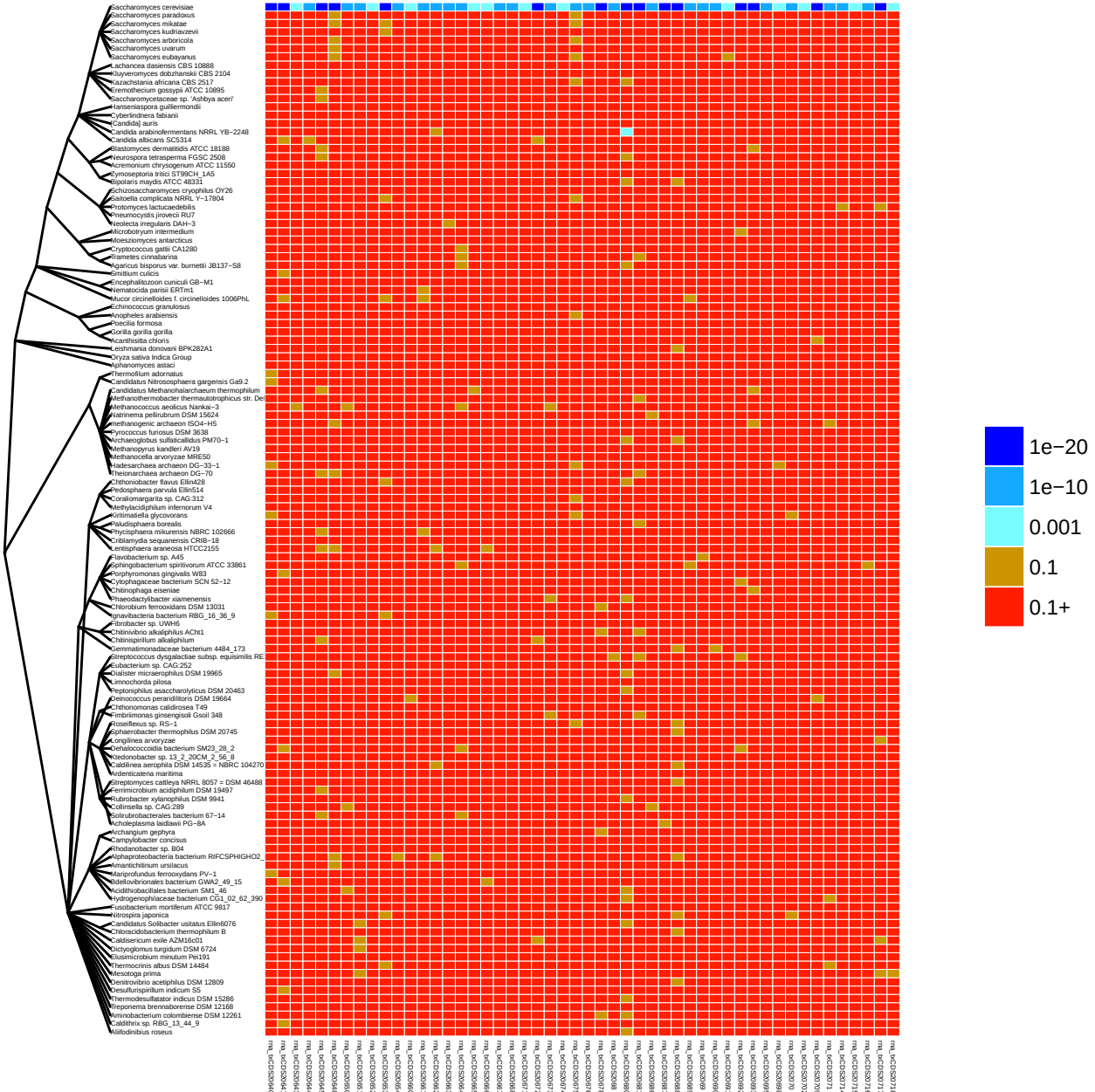

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas ACT3
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Cg17
Candidatus Nitrosotenuis Cg19
Candidatus Nitrosotenuis Cg20
Candidatus Nitrosotenuis Cg21
Candidatus Nitrosotenuis Cg22
Candidatus Nitrosotenuis Cg23
Candidatus Nitrosotenuis Cg24
Candidatus Nitrosotenuis Cg25
Candidatus Nitrosotenuis Cg26
Candidatus Nitrosotenuis Cg27
Candidatus Nitrosotenuis Cg28
Candidatus Nitrosotenuis Cg29
Candidatus Nitrosotenuis Cg30
Candidatus Nitrosotenuis Cg31
Candidatus Nitrosotenuis Cg32
Candidatus Nitrosotenuis Cg33
Candidatus Nitrosotenuis Cg34
Candidatus Nitrosotenuis Cg35
Candidatus Nitrosotenuis Cg36
Candidatus Nitrosotenuis Cg37
Candidatus Nitrosotenuis Cg38
Candidatus Nitrosotenuis Cg39
Candidatus Nitrosotenuis Cg40
Candidatus Nitrosotenuis Cg41
Candidatus Nitrosotenuis Cg42
Candidatus Nitrosotenuis Cg43
Candidatus Nitrosotenuis Cg44
Candidatus Nitrosotenuis Cg45
Candidatus Nitrosotenuis Cg46
1e−20
1e−10
0.001
0.1
0.1+

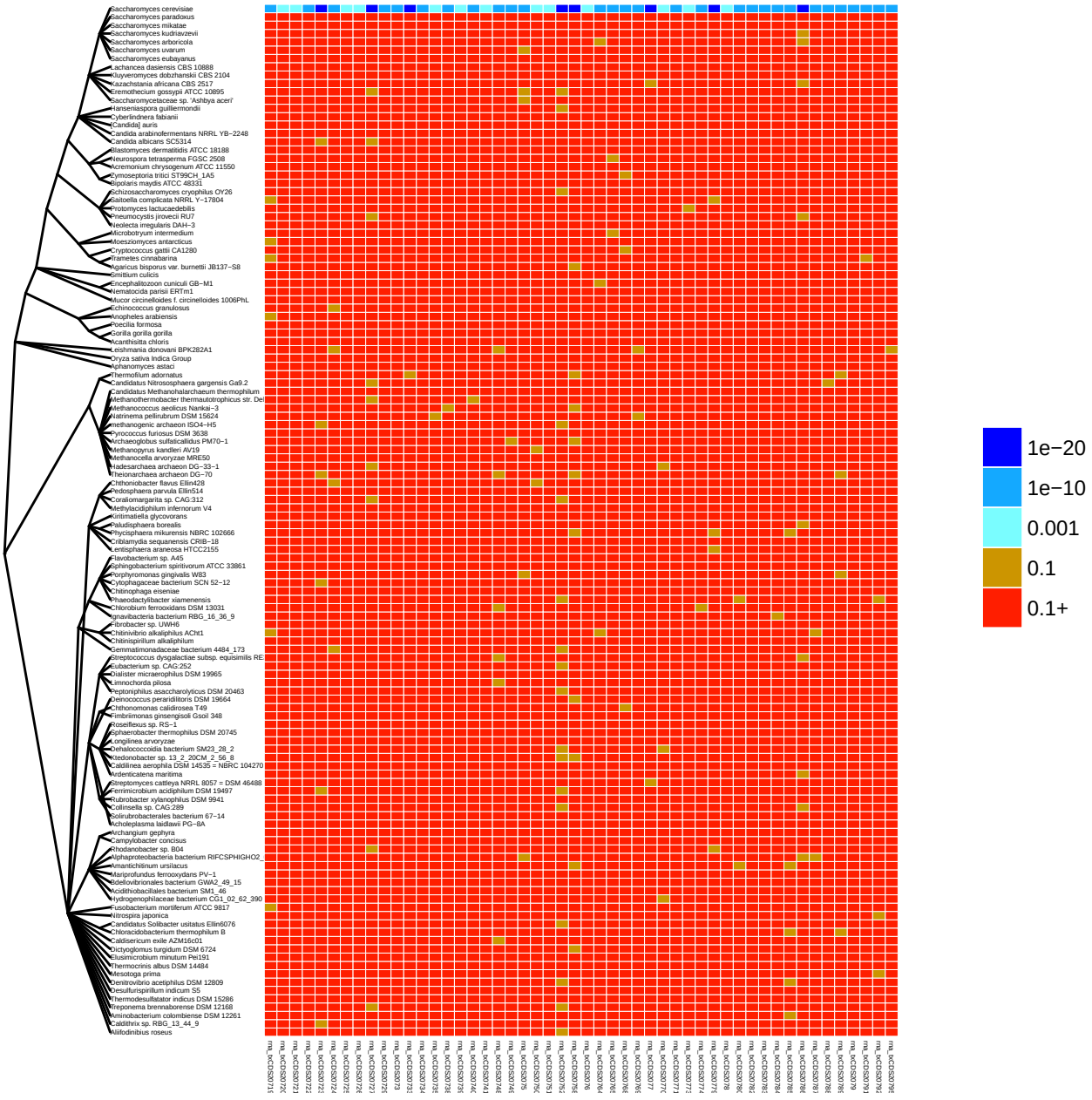

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans
Kiritimatiella glycovorans
Kiritimatiella glycovorans

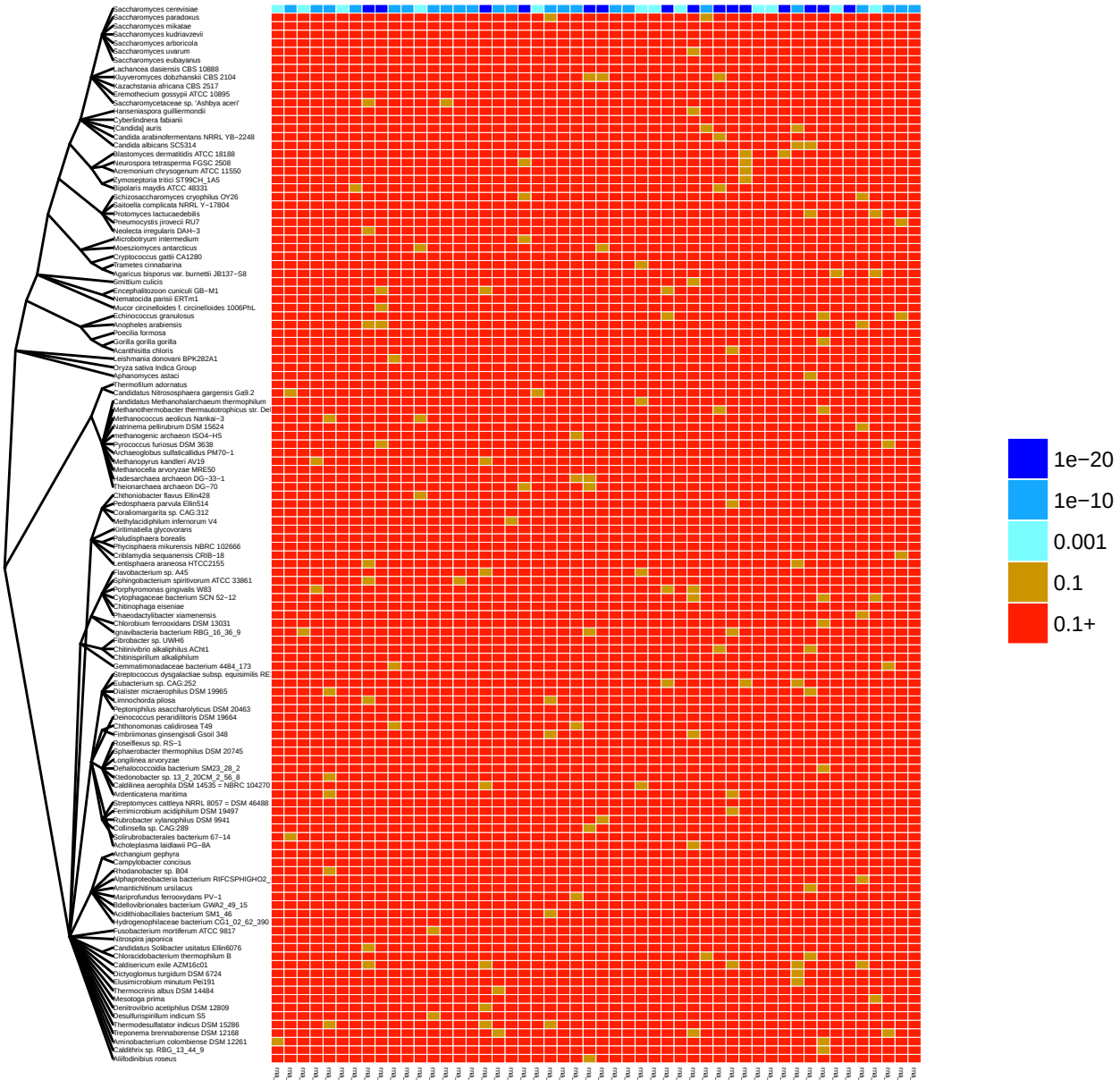

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciditphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
1e−20
1e−10
0.001
0.1
0.1+

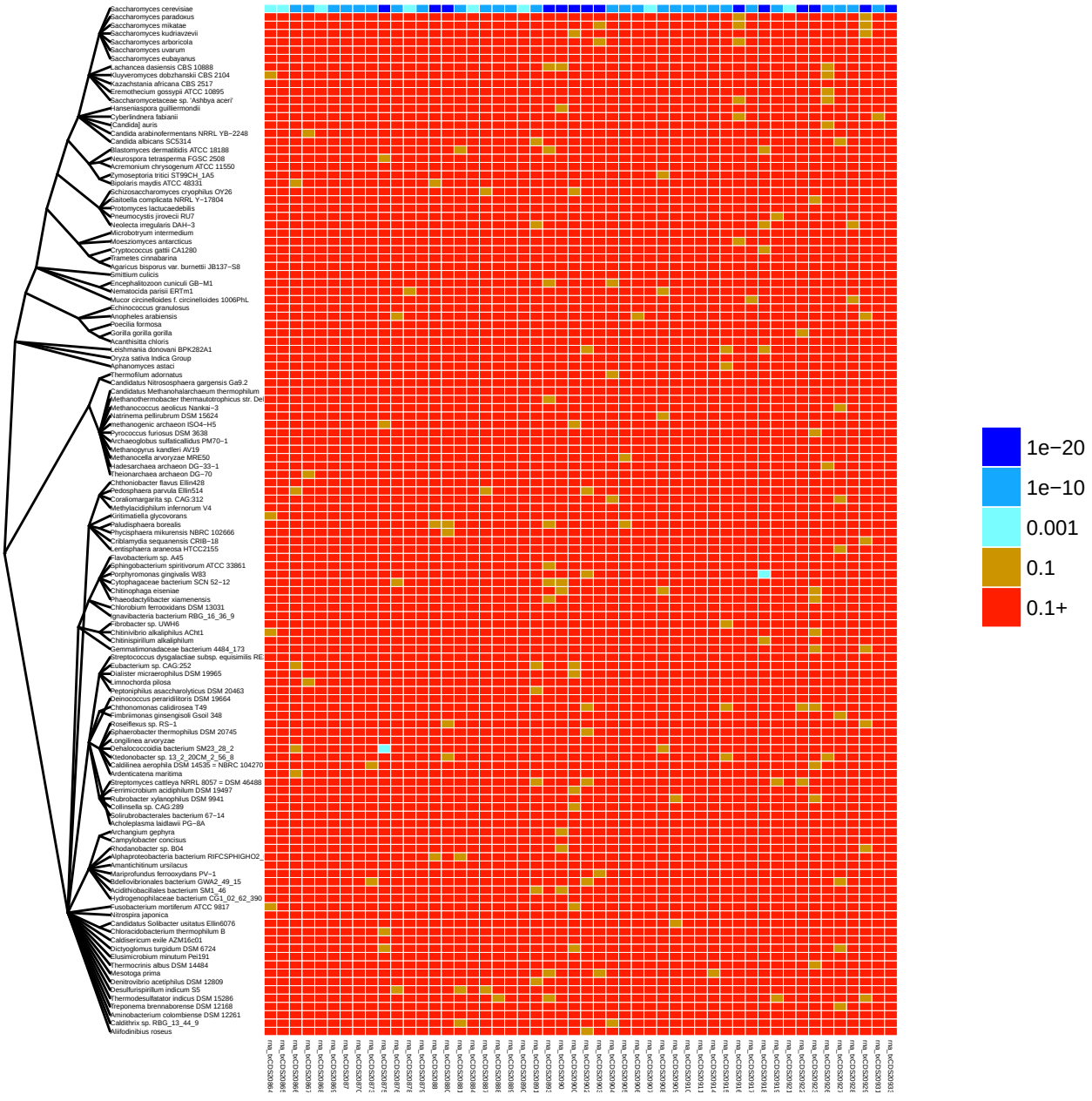

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

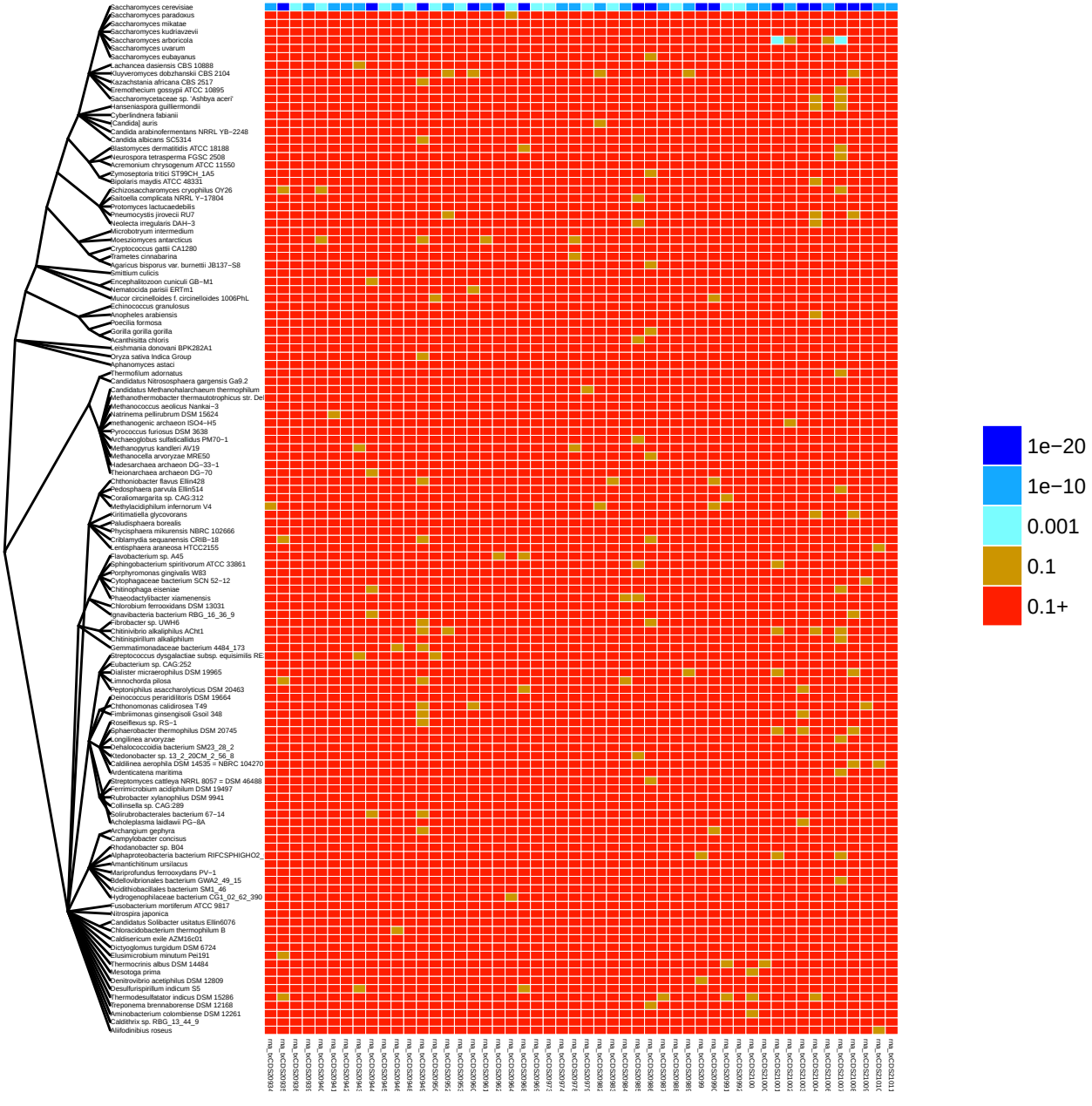

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

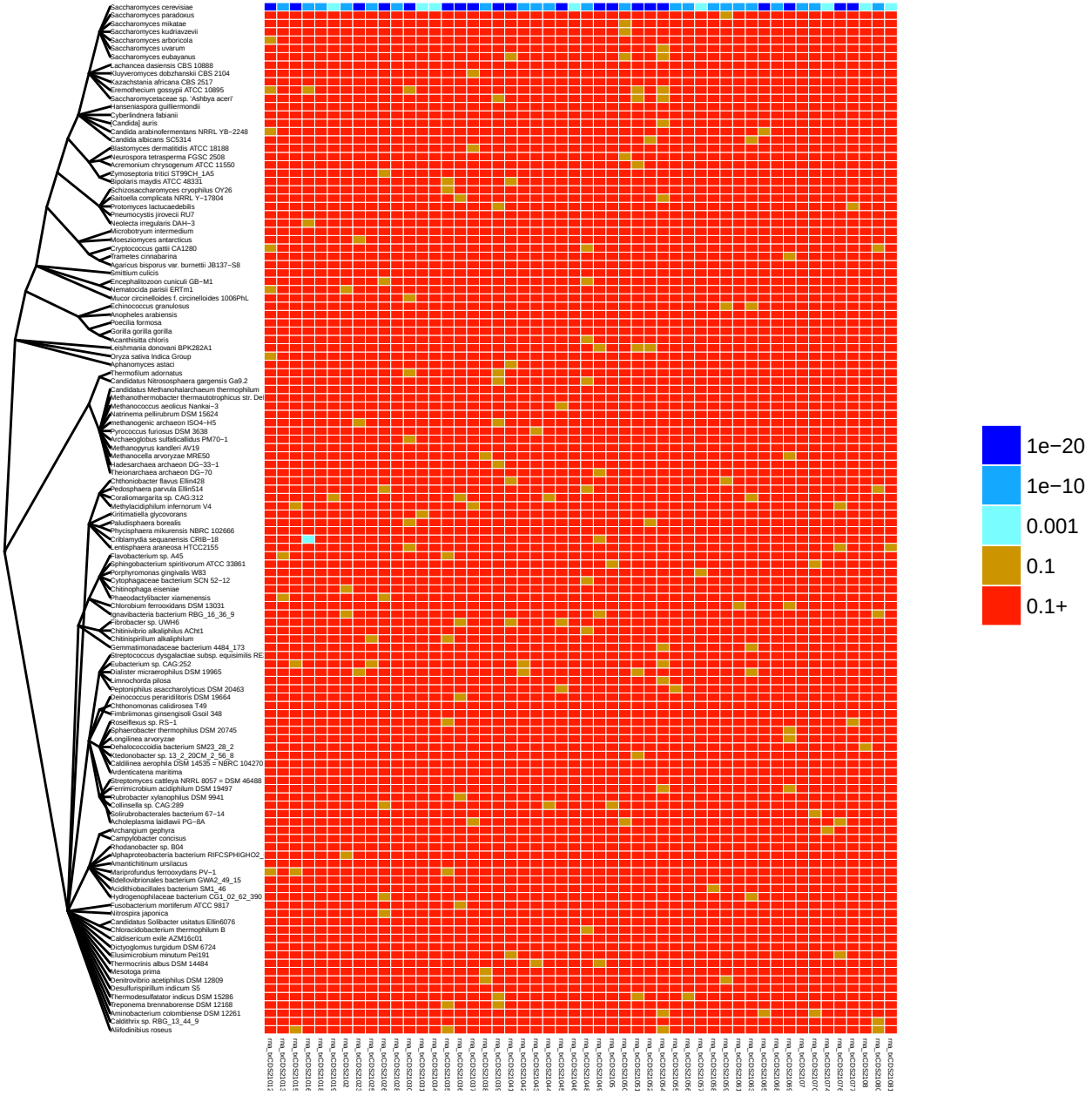

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

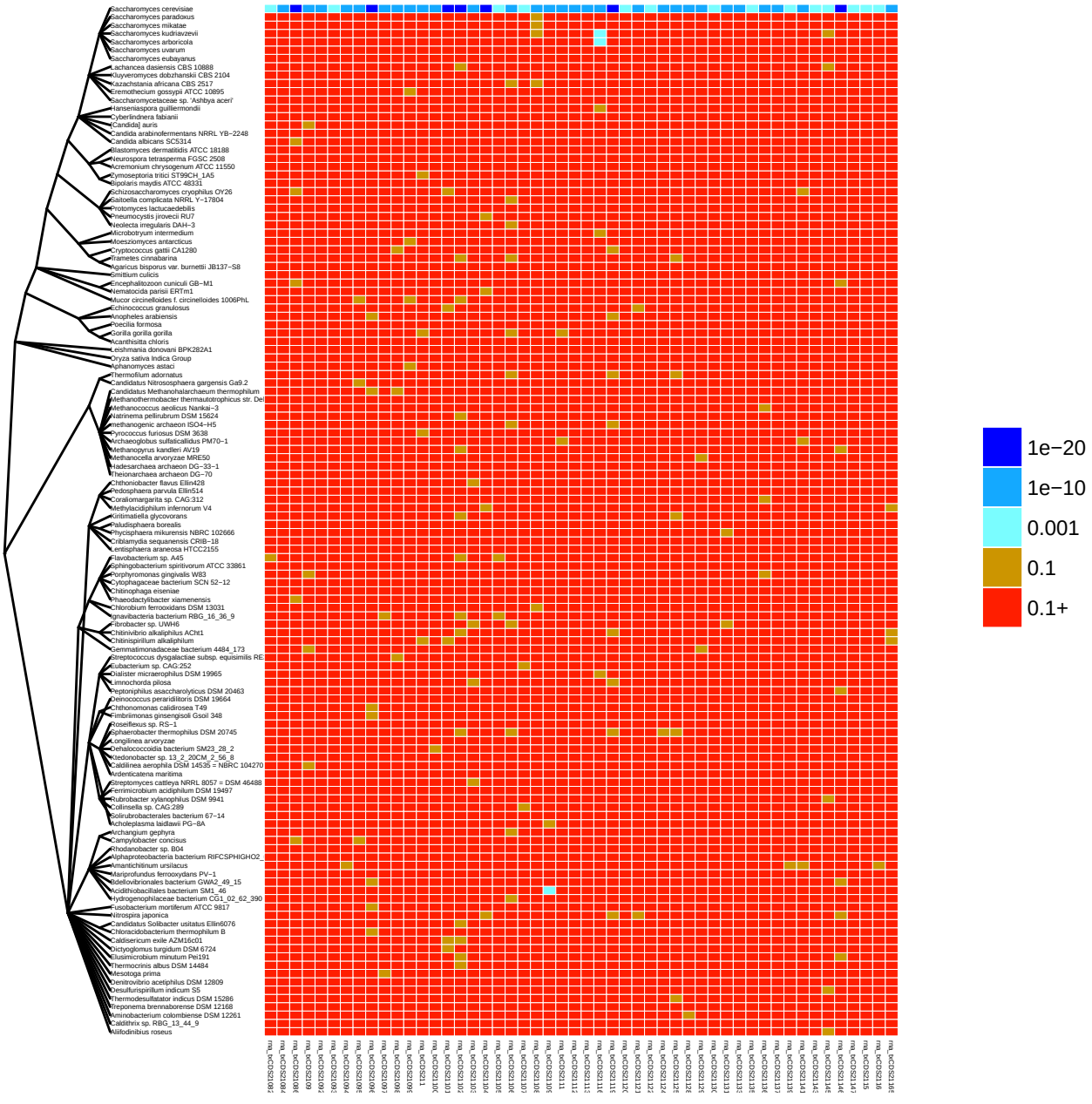

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa CBS 7966
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus cobalt
Nitrosopumilus sp. AR
Nitrosopumilus sp. U
Nitrosopumilus sp. K
Nitrosopumilus sp. S
Nitrosopumilus sp. T
Nitrosopumilus sp. Z
Nitrosopumilus sp. Y
Nitrosopumilus sp. H
Nitrosopumilus sp. J
Nitrosopumilus sp. N
Nitrosopumilus sp. P
Nitrosopumilus sp. W
Nitrosopumilus sp. V
Nitrosopumilus sp. Q
Nitrosopumilus sp. R
Nitrosopumilus sp. X
Nitrosopumilus sp. O
Nitrosopumilus sp. M
Nitrosopumilus sp. L
Nitrosopumilus sp. I
Nitrosopumilus sp. G
Nitrosopumilus sp. E
Nitrosopumilus sp. D
Nitrosopumilus sp. C
Nitrosopumilus sp. B
Nitrosopumilus sp. A
Nitrosopumilus sp. 7
Nitrosopumilus sp. 6
Nitrosopumilus sp. 5
Nitrosopumilus sp. 4
Nitrosopumilus sp. 3
Nitrosopumilus sp. 2
Nitrosopumilus sp. 1
Nitrosopumilus sp. 0
Nitrosopumilus sp. 9
Nitrosopumilus sp. 8
Nitrosopumilus sp. 11
Nitrosopumilus sp. 10
Nitrosopumilus sp. 13
Nitrosopumilus sp. 12
Nitrosopumilus sp. 15
Nitrosopumilus sp. 14
Nitrosopumilus sp. 17
Nitrosopumilus sp. 16
Nitrosopumilus sp. 19
Nitrosopumilus sp. 18
Nitrosopumilus sp. 21
Nitrosopumilus sp. 20
Nitrosopumilus sp. 23
Nitrosopumilus sp. 22
Nitrosopumilus sp. 25
Nitrosopumilus sp. 24
Nitrosopumilus sp. 27
Nitrosopumilus sp. 26
Nitrosopumilus sp. 29
Nitrosopumilus sp. 28
Nitrosopumilus sp. 31
Nitrosopumilus sp. 30
Nitrosopumilus sp. 33
Nitrosopumilus sp. 32
Nitrosopumilus sp. 35
Nitrosopumilus sp. 34
Nitrosopumilus sp. 37
Nitrosopumilus sp. 36
Nitrosopumilus sp. 39
Nitrosopumilus sp. 38
Nitrosopumilus sp. 41
Nitrosopumilus sp. 40
Nitrosopumilus sp. 43
Nitrosopumilus sp. 42
Nitrosopumilus sp. 45
Nitrosopumilus sp. 44
Nitrosopumilus sp. 47
Nitrosopumilus sp. 46
Nitrosopumilus sp. 49
Nitrosopumilus sp. 48
Nitrosopumilus sp. 51
Nitrosopumilus sp. 50
Nitrosopumilus sp. 53
Nitrosopumilus sp. 52
Nitrosopumilus sp. 55
Nitrosopumilus sp. 54
Nitrosopumilus sp. 57
Nitrosopumilus sp. 56
Nitrosopumilus sp. 59
Nitrosopumilus sp. 58
Nitrosopumilus sp. 61
Nitrosopumilus sp. 60
Nitrosopumilus sp. 63
Nitrosopumilus sp. 62
Nitrosopumilus sp. 65
Nitrosopumilus sp. 64
Nitrosopumilus sp. 67
Nitrosopumilus sp. 66
Nitrosopumilus sp. 69
Nitrosopumilus sp. 68
Nitrosopumilus sp. 71
Nitrosopumilus sp. 70
Nitrosopumilus sp. 73
Nitrosopumilus sp. 72
Nitrosopumilus sp. 75
Nitrosopumilus sp. 74
Nitrosopumilus sp. 77
Nitrosopumilus sp. 76
Nitrosopumilus sp. 79
Nitrosopumilus sp. 78
Nitrosopumilus sp. 81
Nitrosopumilus sp. 80
Nitrosopumilus sp. 83
Nitrosopumilus sp. 82
Nitrosopumilus sp. 85
Nitrosopumilus sp. 84
Nitrosopumilus sp. 87
Nitrosopumilus sp. 86
Nitrosopumilus sp. 89
Nitrosopumilus sp. 88
Nitrosopumilus sp. 91
Nitrosopumilus sp. 90
Nitrosopumilus sp. 93
Nitrosopumilus sp. 92
Nitrosopumilus sp. 95
Nitrosopumilus sp. 94
Nitrosopumilus sp. 97
Nitrosopumilus sp. 96
1e−20
1e−10
0.001
0.1
0.1+

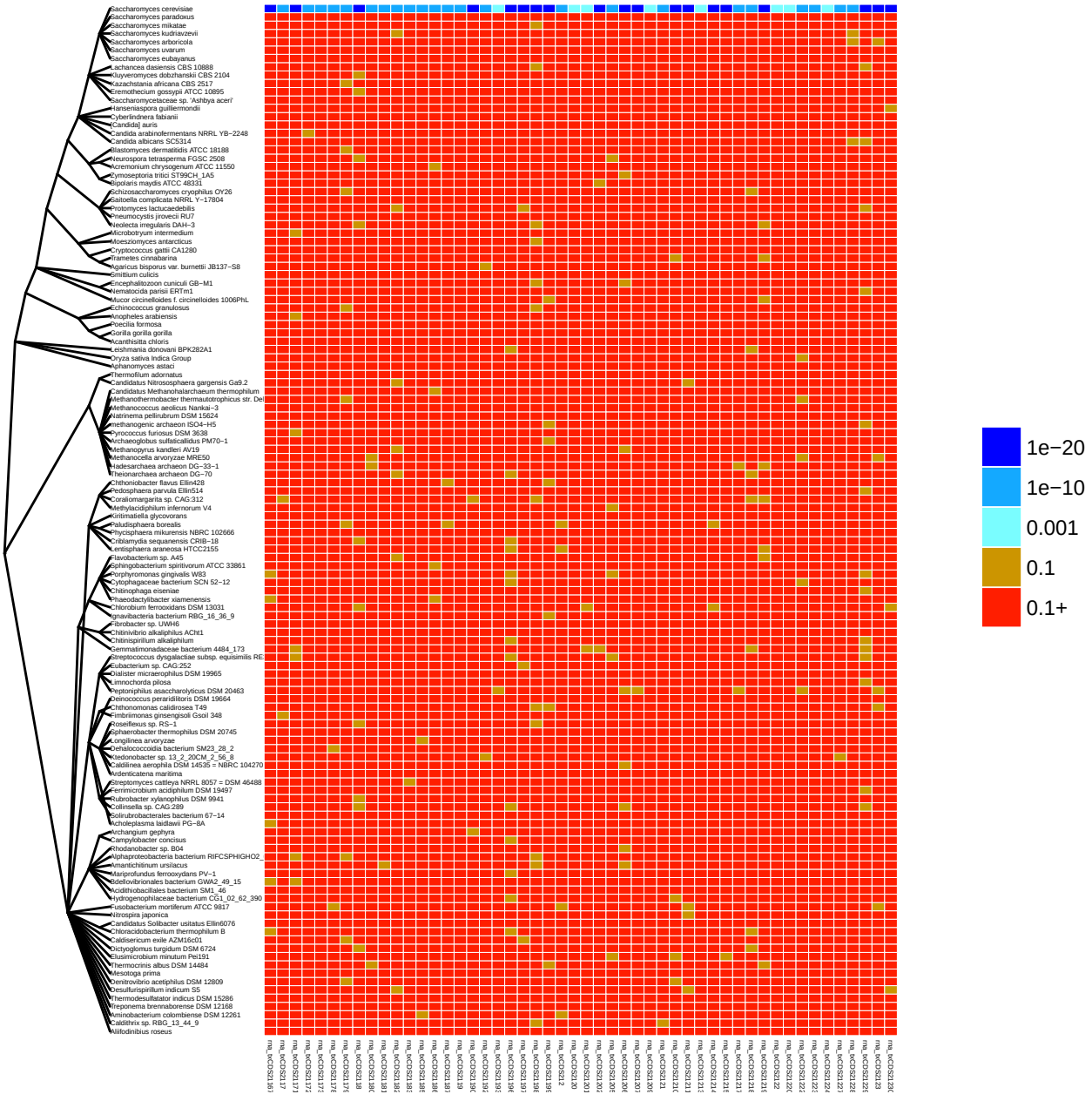

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

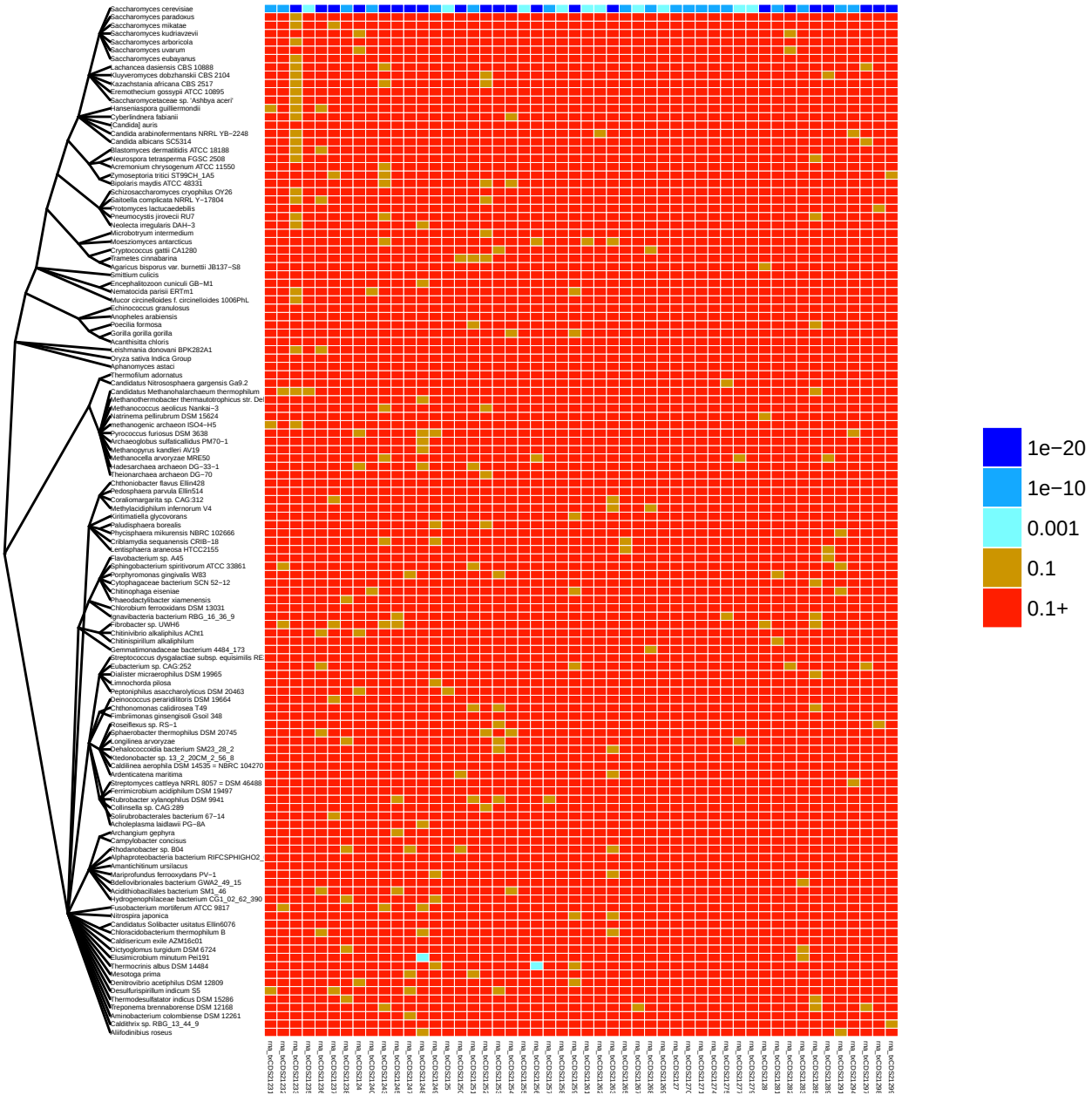

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

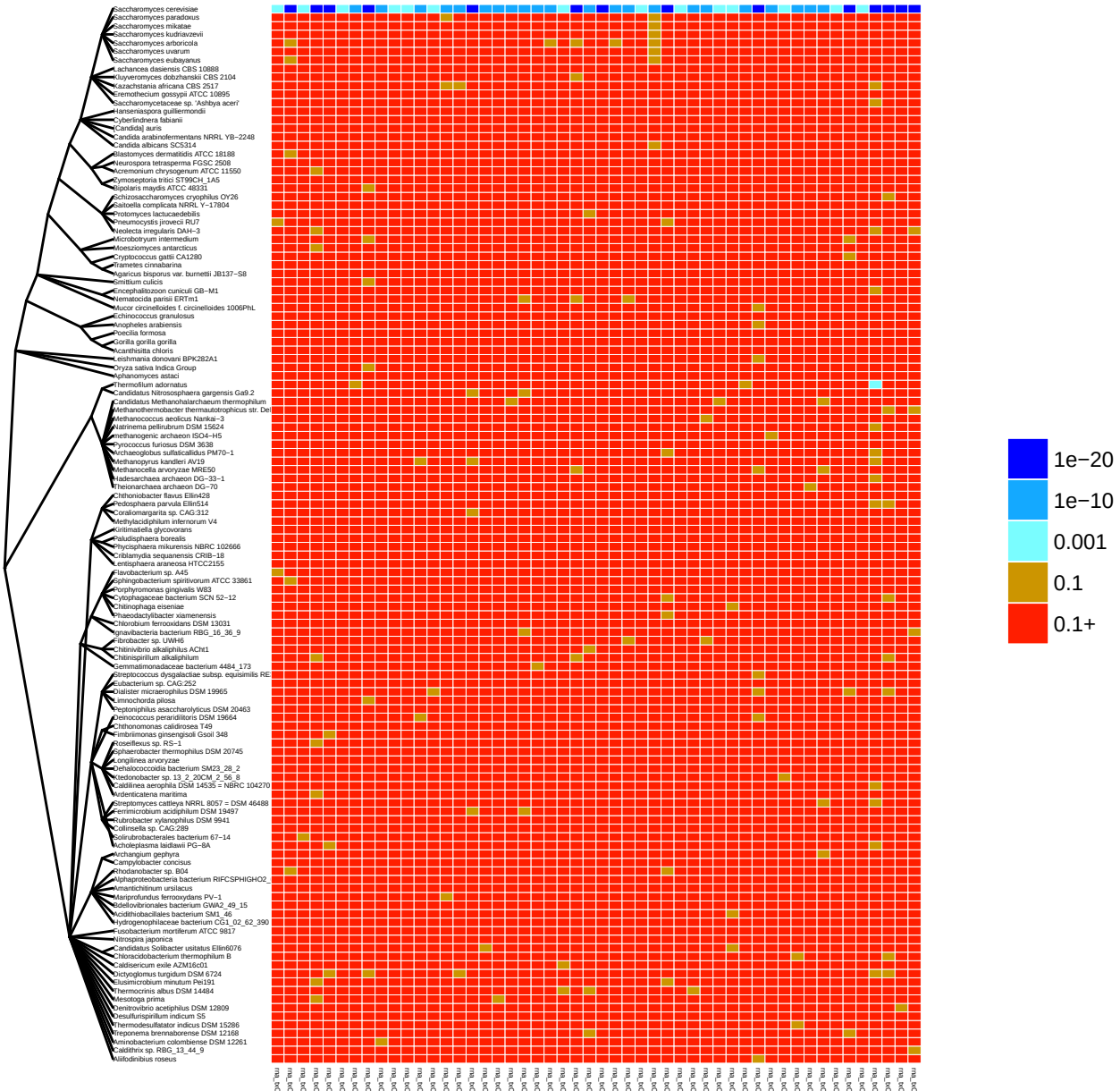

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

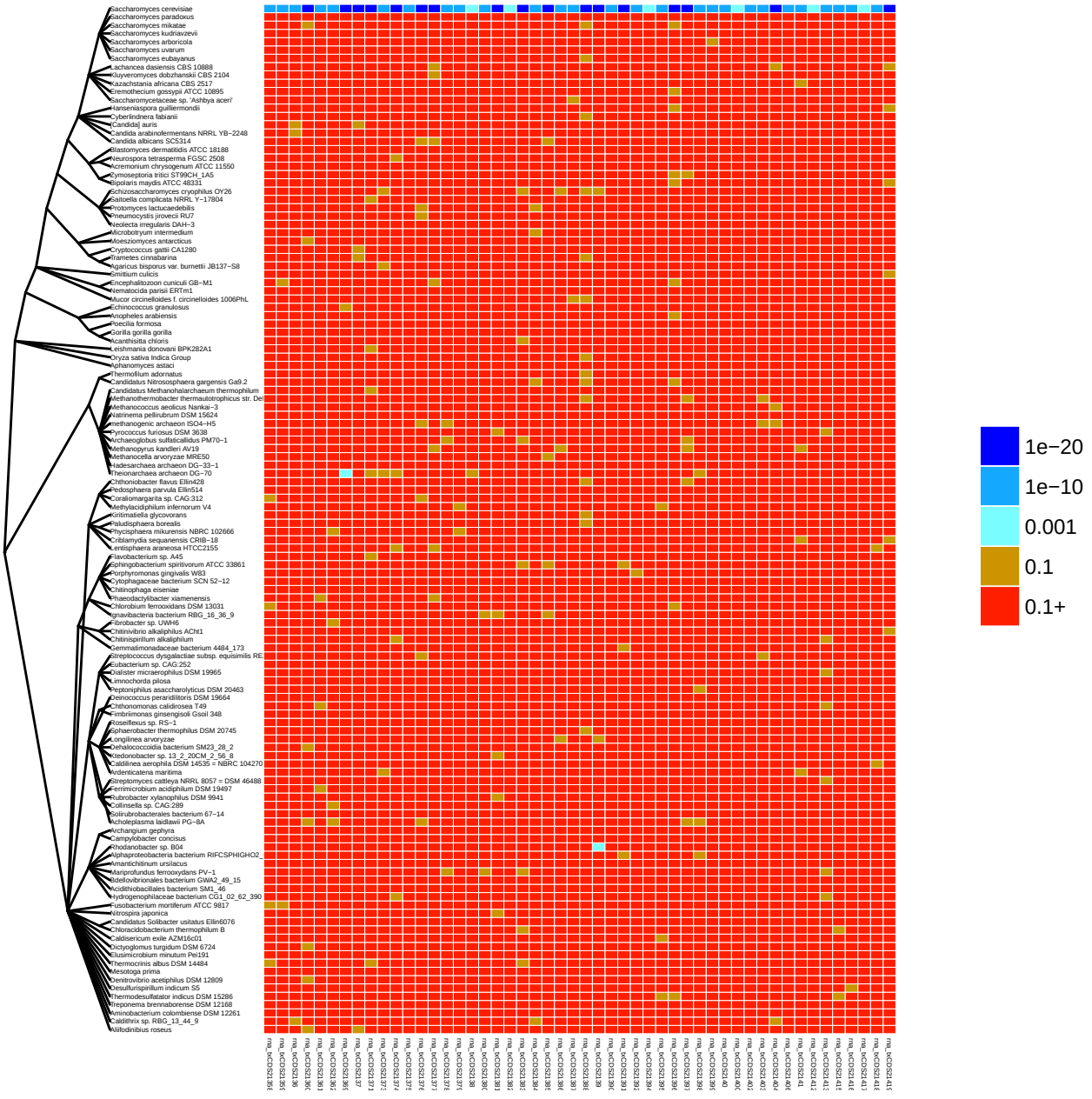

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

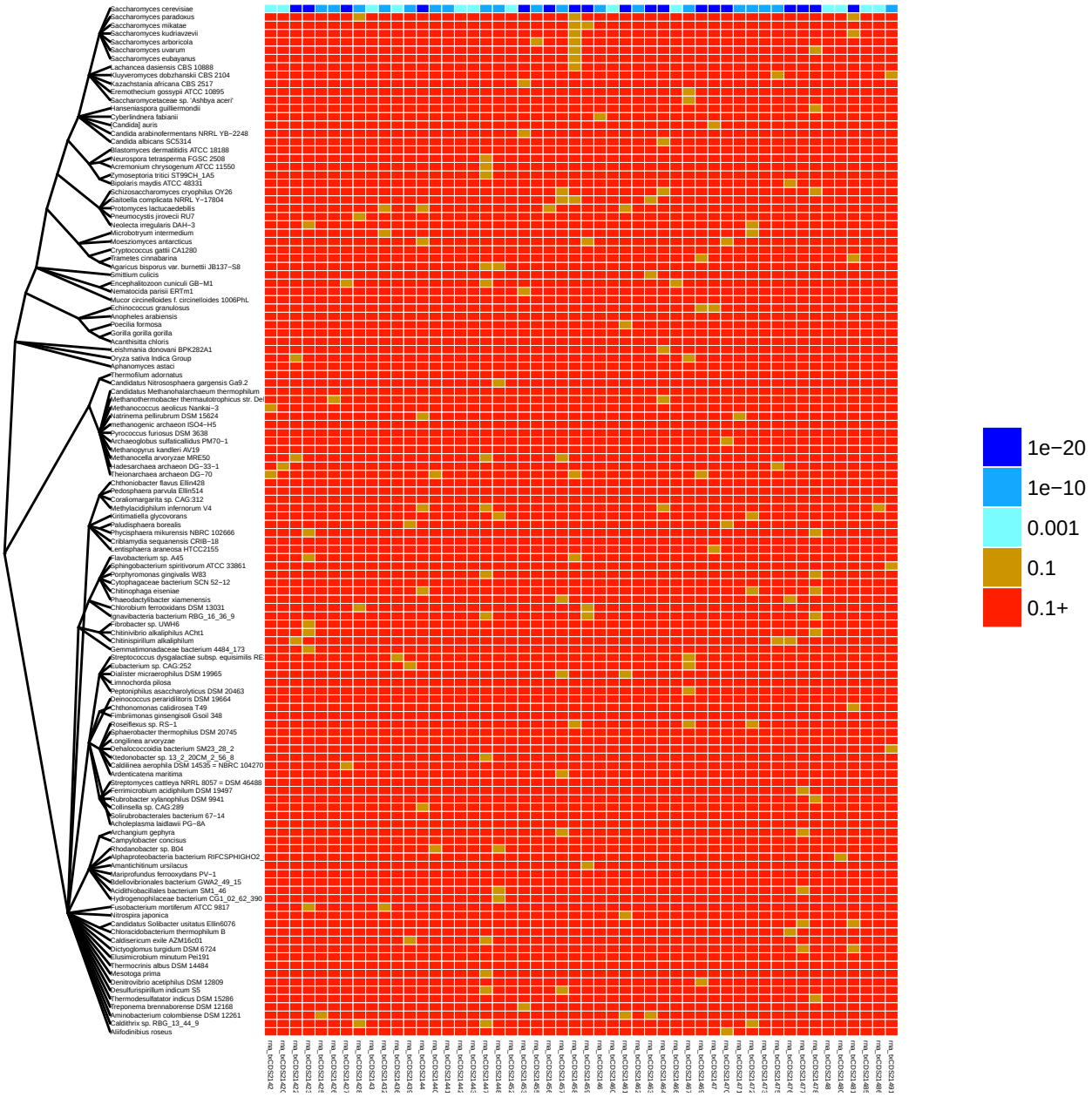

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

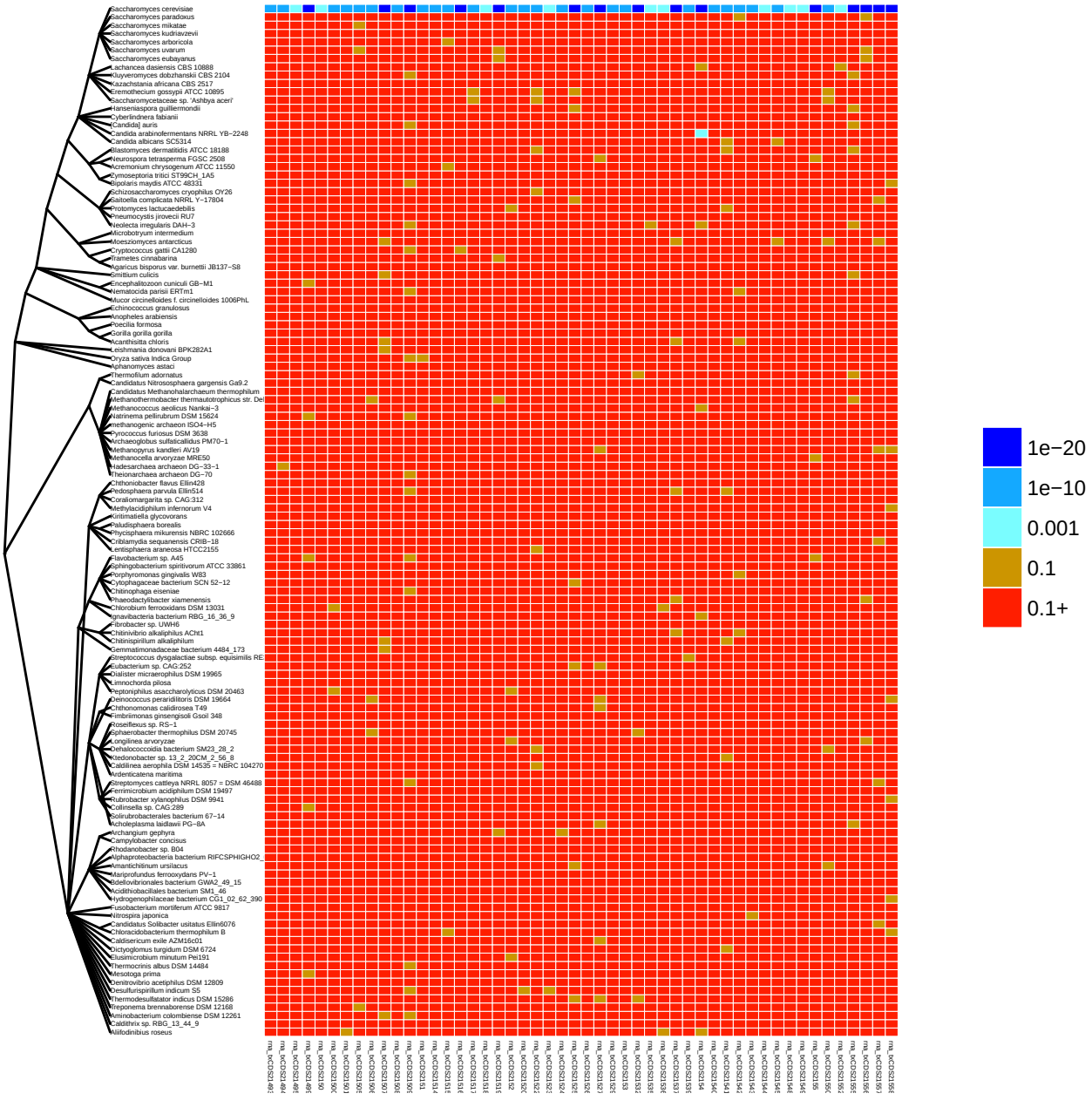

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciribacter sp. CAG:319
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eisenia
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

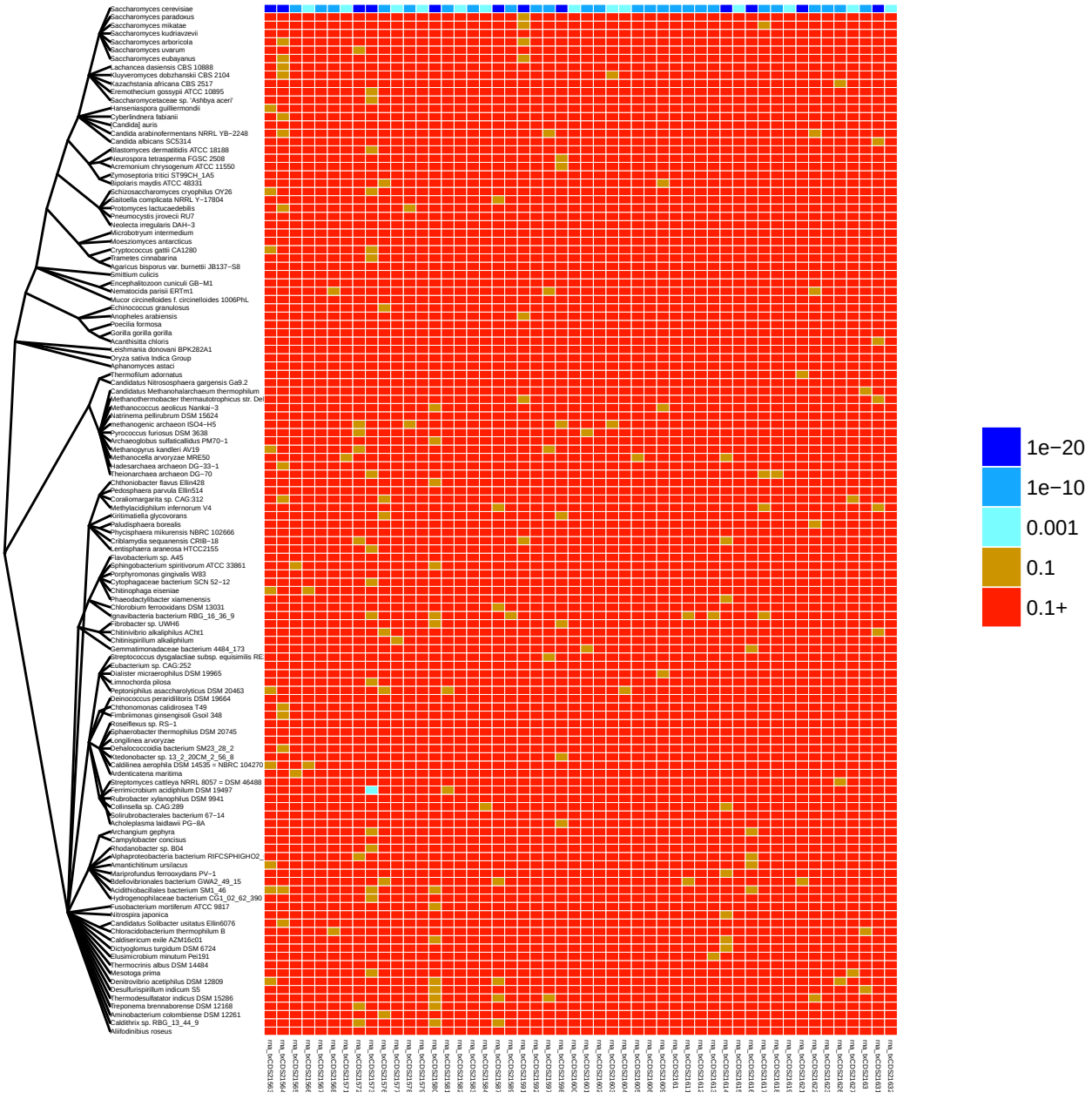

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ilyonectria maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

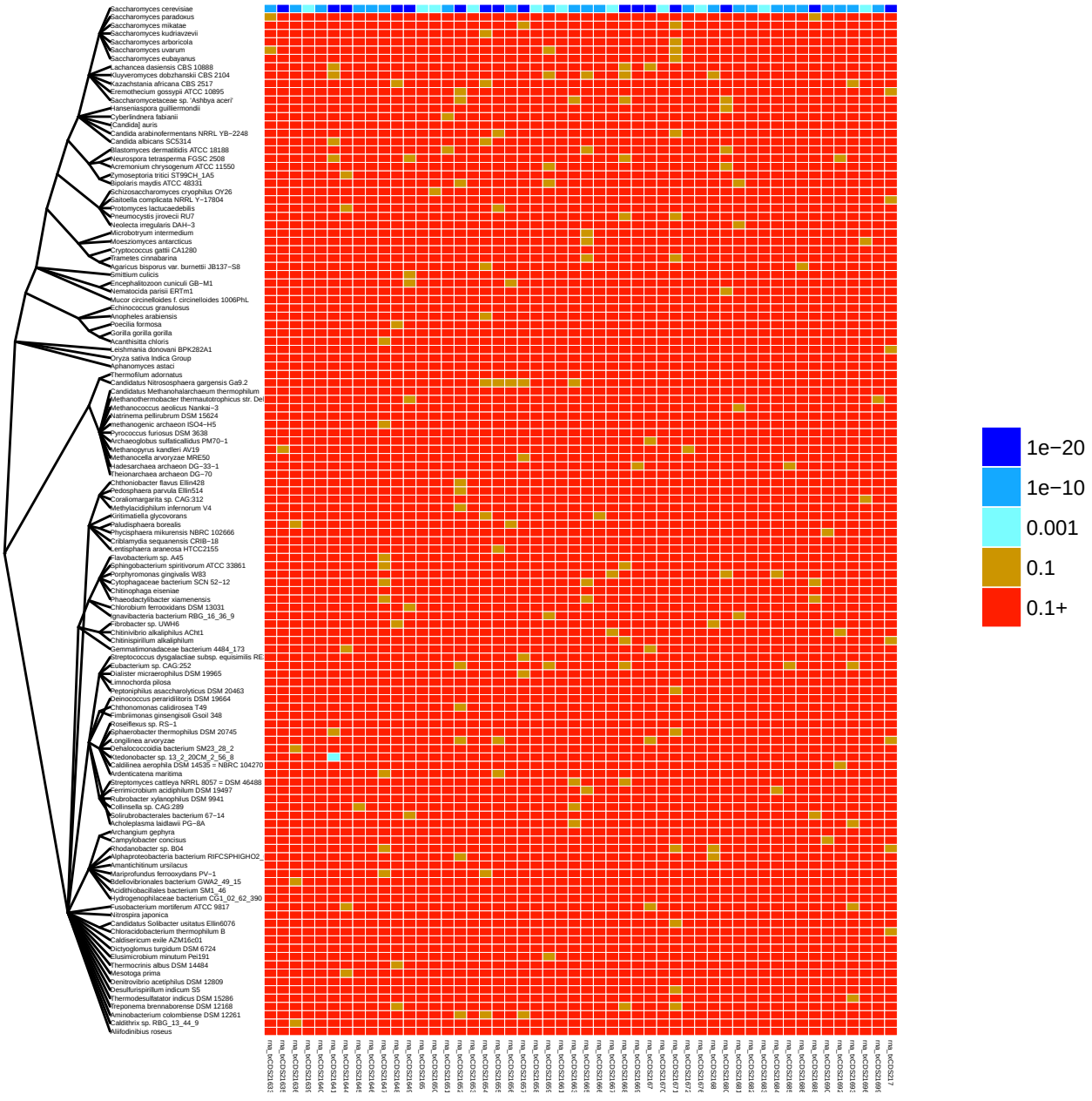

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

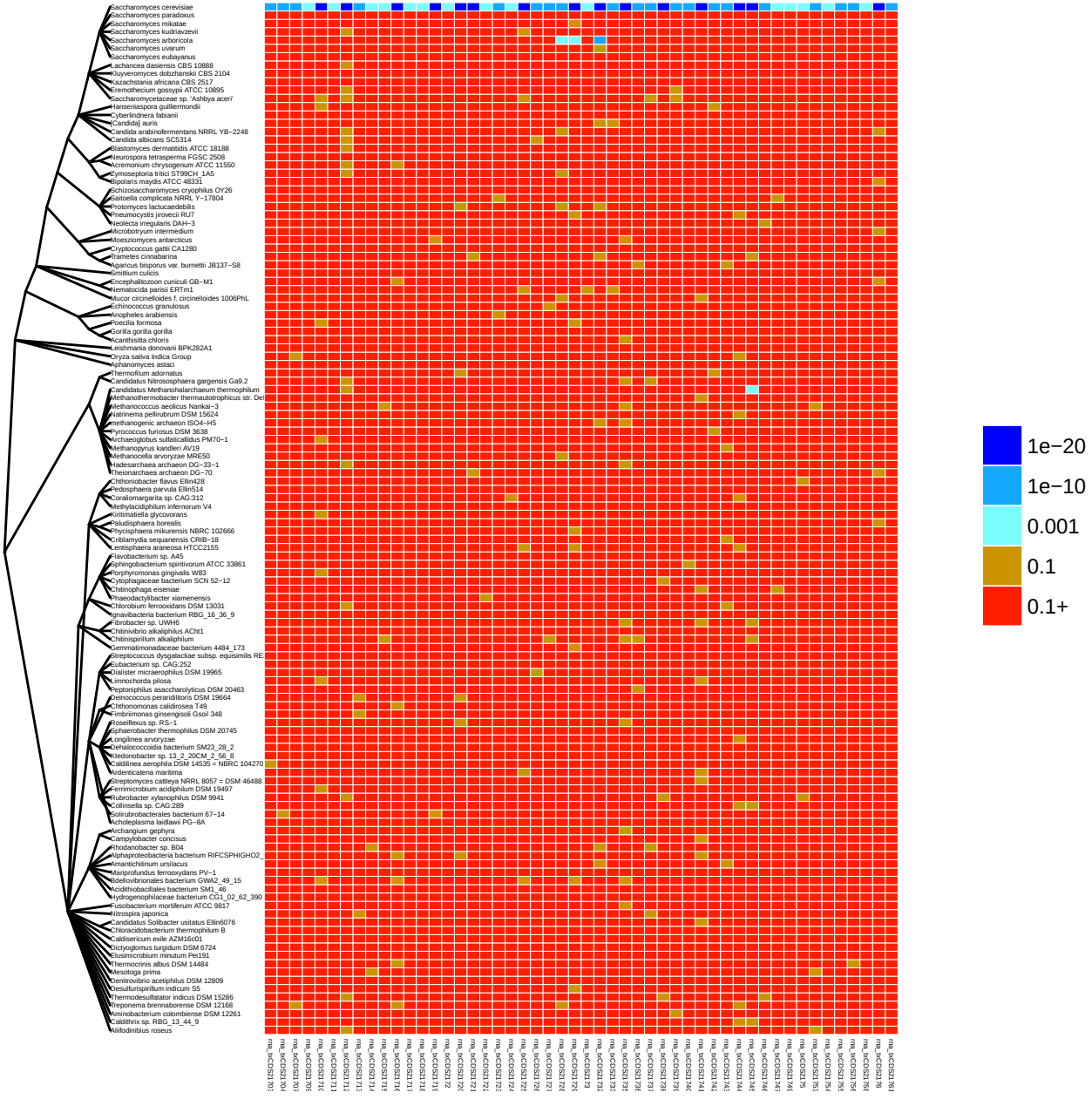

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

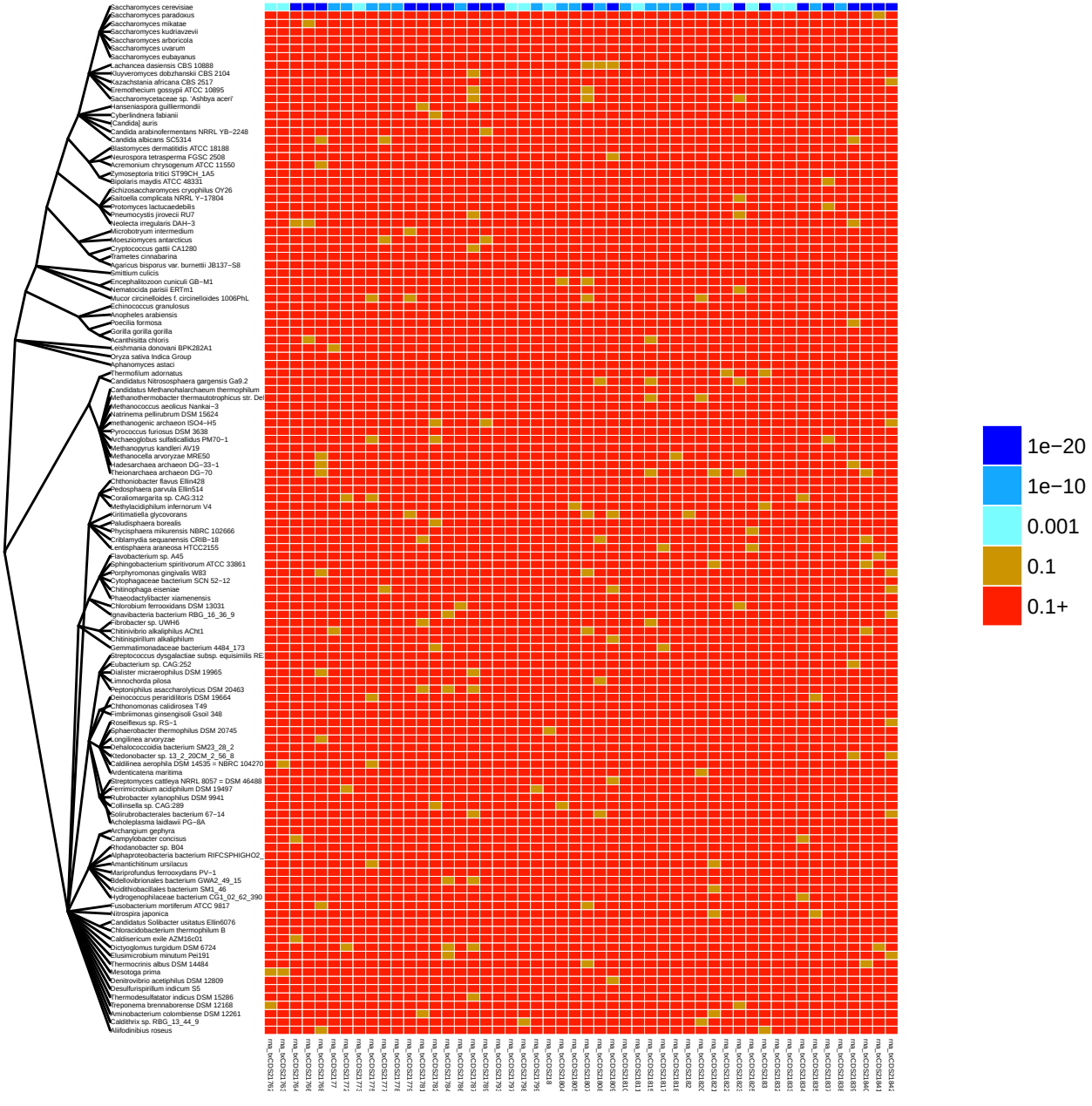

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
1e−20
1e−10
0.001
0.1
0.1+

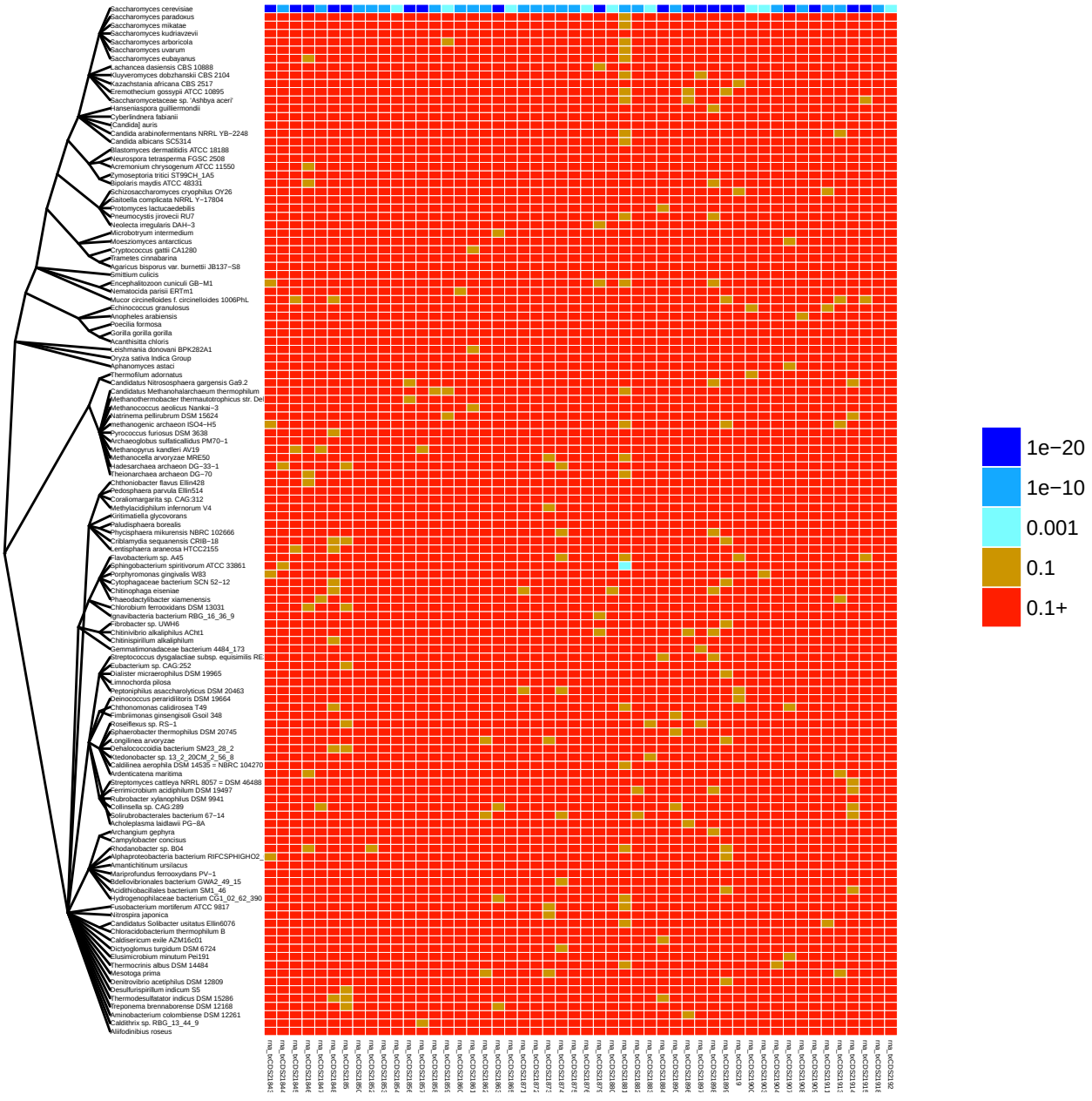

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Kiritimatiella glycovorans
Candidatus Methanomethylophilus alvus
Candidatus Methanomethylophilus sp. 1R26
Candidatus Methanomethylophilus sp. 7W
Candidatus Methanomethylophilus sp. UBA1069
Candidatus Methanomethylophilus sp. UBA1070
Candidatus Methanomethylophilus sp. UBA1071
Candidatus Methanomethylophilus sp. UBA1072
Candidatus Methanomethylophilus sp. UBA1073
Candidatus Methanomethylophilus sp. UBA1074
Candidatus Methanomethylophilus sp. UBA1075
Candidatus Methanomethylophilus sp. UBA1076
Candidatus Methanomethylophilus sp. UBA1077
Candidatus Methanomethylophilus sp. UBA1078
Candidatus Methanomethylophilus sp. UBA1079
Candidatus Methanomethylophilus sp. UBA1080
Candidatus Methanomethylophilus sp. UBA1081
Candidatus Methanomethylophilus sp. UBA1082
Candidatus Methanomethylophilus sp. UBA1083
Candidatus Methanomethylophilus sp. UBA1084
Candidatus Methanomethylophilus sp. UBA1085
Candidatus Methanomethylophilus sp. UBA1086
Candidatus Methanomethylophilus sp. UBA1087
Candidatus Methanomethylophilus sp. UBA1088
Candidatus Methanomethylophilus sp. UBA1089
Candidatus Methanomethylophilus sp. UBA1090
Candidatus Methanomethylophilus sp. UBA1091
Candidatus Methanomethylophilus sp. UBA1092
Candidatus Methanomethylophilus sp. UBA1093
Candidatus Methanomethylophilus sp. UBA1094
Candidatus Methanomethylophilus sp. UBA1095
Candidatus Methanomethylophilus sp. UBA1096
Candidatus Methanomethylophilus sp. UBA1097
Candidatus Methanomethylophilus sp. UBA1098
Candidatus Methanomethylophilus sp. UBA1099
Candidatus Methanomethylophilus sp. UBA1100
Candidatus Methanomethylophilus sp. UBA1101
Candidatus Methanomethylophilus sp. UBA1102
Candidatus Methanomethylophilus sp. UBA1103
Candidatus Methanomethylophilus sp. UBA1104
Candidatus Methanomethylophilus sp. UBA1105
Candidatus Methanomethylophilus sp. UBA1106
Candidatus Methanomethylophilus sp. UBA1107
Candidatus Methanomethylophilus sp. UBA1108
Candidatus Methanomethylophilus sp. UBA1109
Candidatus Methanomethylophilus sp. UBA1110
Candidatus Methanomethylophilus sp. UBA1111
Candidatus Methanomethylophilus sp. UBA1112
Candidatus Methanomethylophilus sp. UBA1113
Candidatus Methanomethylophilus sp. UBA1114
Candidatus Methanomethylophilus sp. UBA1115
Candidatus Methanomethylophilus sp. UBA1116
Candidatus Methanomethylophilus sp. UBA1117
Candidatus Methanomethylophilus sp. UBA1118
Candidatus Methanomethylophilus sp. UBA1119
Candidatus Methanomethylophilus sp. UBA1120
Candidatus Methanomethylophilus sp. UBA1121
Candidatus Methanomethylophilus sp. UBA1122
Candidatus Methanomethylophilus sp. UBA1123
Candidatus Methanomethylophilus sp. UBA1124
Candidatus Methanomethylophilus sp. UBA1125
Candidatus Methanomethylophilus sp. UBA1126
Candidatus Methanomethylophilus sp. UBA1127
Candidatus Methanomethylophilus sp. UBA1128
Candidatus Methanomethylophilus sp. UBA1129
Candidatus Methanomethylophilus sp. UBA1130
Candidatus Methanomethylophilus sp. UBA1131
Candidatus Methanomethylophilus sp. UBA1132
Candidatus Methanomethylophilus sp. UBA1133
Candidatus Methanomethylophilus sp. UBA1134
Candidatus Methanomethylophilus sp. UBA1135
Candidatus Methanomethylophilus sp. UBA1136
Candidatus Methanomethylophilus sp. UBA1137
Candidatus Methanomethylophilus sp. UBA1138
Candidatus Methanomethylophilus sp. UBA1139
Candidatus Methanomethylophilus sp. UBA1140
Candidatus Methanomethylophilus sp. UBA1141
Candidatus Methanomethylophilus sp. UBA1142
Candidatus Methanomethylophilus sp. UBA1143
Candidatus Methanomethylophilus sp. UBA1144
Candidatus Methanomethylophilus sp. UBA1145
Candidatus Methanomethylophilus sp. UBA1146
Candidatus Methanomethylophilus sp. UBA1147
Candidatus Methanomethylophilus sp. UBA1148
Candidatus Methanomethylophilus sp. UBA1149
Candidatus Methanomethylophilus sp. UBA1150
Candidatus Methanomethylophilus sp. UBA1151
Candidatus Methanomethylophilus sp. UBA1152
Candidatus Methanomethylophilus sp. UBA1153
Candidatus Methanomethylophilus sp. UBA1154
Candidatus Methanomethylophilus sp. UBA1155
Candidatus Methanomethylophilus sp. UBA1156
Candidatus Methanomethylophilus sp. UBA1157
Candidatus Methanomethylophilus sp. UBA1158
Candidatus Methanomethylophilus sp. UBA1159
Candidatus Methanomethylophilus sp. UBA1160
Candidatus Methanomethylophilus sp. UBA1161
Candidatus Methanomethylophilus sp. UBA1162
Candidatus Methanomethylophilus sp. UBA1163
Candidatus Methanomethylophilus sp. UBA1164
Candidatus Methanomethylophilus sp. UBA1165
Candidatus Methanomethylophilus sp. UBA1166
Candidatus Methanomethylophilus sp. UBA1167
Candidatus Methanomethylophilus sp. UBA1168
Candidatus Methanomethylophilus sp. UBA1169
Candidatus Methanomethylophilus sp. UBA1170
Candidatus Methanomethylophilus sp. UBA1171
Candidatus Methanomethylophilus sp. UBA1172
Candidatus Methanomethylophilus sp. UBA1173
Candidatus Methanomethylophilus sp. UBA1174
Candidatus Methanomethylophilus sp. UBA1175
Candidatus Methanomethylophilus sp. UBA1176
Candidatus Methanomethylophilus sp. UBA1177
Candidatus Methanomethylophilus sp. UBA1178
Candidatus Methanomethylophilus sp. UBA1179
Candidatus Methanomethylophilus sp. UBA1180
Candidatus Methanomethylophilus sp. UBA1181
Candidatus Methanomethylophilus sp. UBA1182
Candidatus Methanomethylophilus sp. UBA1183
Candidatus Methanomethylophilus sp. UBA1184
Candidatus Methanomethylophilus sp. UBA1185
Candidatus Methanomethylophilus sp. UBA1186
Candidatus Methanomethylophilus sp. UBA1187
Candidatus Methanomethylophilus sp. UBA1188
Candidatus Methanomethylophilus sp. UBA1189
Candidatus Methanomethylophilus sp. UBA1190
Candidatus Methanomethylophilus sp. UBA1191
Candidatus Methanomethylophilus sp. UBA1192
Candidatus Methanomethylophilus sp. UBA1193
Candidatus Methanomethylophilus sp. UBA1194
Candidatus Methanomethylophilus sp. UBA1195
Candidatus Methanomethylophilus sp. UBA1196
Candidatus Methanomethylophilus sp. UBA1197
Candidatus Methanomethylophilus sp. UBA1198
Candidatus Methanomethylophilus sp. UBA1199
Candidatus Methanomethylophilus sp. UBA1200
Candidatus Methanomethylophilus sp. UBA1201
Candidatus Methanomethylophilus sp. UBA1202
Candidatus Methanomethylophilus sp. UBA1203
Candidatus Methanomethylophilus sp. UBA1204
Candidatus Methanomethylophilus sp. UBA1205
Candidatus Methanomethylophilus sp. UBA1206
Candidatus Methanomethylophilus sp. UBA1207
Candidatus Methanomethylophilus sp. UBA1208
Candidatus Methanomethylophilus sp. UBA1209
Candidatus Methanomethylophilus sp. UBA1210
Candidatus Methanomethylophilus sp. UBA1211
Candidatus Methanomethylophilus sp. UBA1212
Candidatus Methanomethylophilus sp. UBA1213
Candidatus Methanomethylophilus sp. UBA1214
Candidatus Methanomethylophilus sp. UBA1215
Candidatus Methanomethylophilus sp. UBA1216
Candidatus Methanomethylophilus sp. UBA1217
Candidatus Methanomethylophilus sp. UBA1218
Candidatus Methanomethylophilus sp. UBA1219
Candidatus Methanomethylophilus sp. UBA1220
Candidatus Methanomethylophilus sp. UBA1221
Candidatus Methanomethylophilus sp. UBA1222
Candidatus Methanomethylophilus sp. UBA1223
Candidatus Methanomethylophilus sp. UBA1224
Candidatus Methanomethylophilus sp. UBA1225
Candidatus Methanomethylophilus sp. UBA1226
Candidatus Methanomethylophilus sp. UBA1227
Candidatus Methanomethylophilus sp. UBA1228
Candidatus Methanomethylophilus sp. UBA1229
Candidatus Methanomethylophilus sp. UBA1230
Candidatus Methanomethylophilus sp. UBA1231
Candidatus Methanomethylophilus sp. UBA1232
Candidatus Methanomethylophilus sp. UBA1233
Candidatus Methanomethylophilus sp. UBA1234
Candidatus Methanomethylophilus sp. UBA1235
Candidatus Methanomethylophilus sp. UBA1236
Candidatus Methanomethylophilus sp. UBA1237
Candidatus Methanomethylophilus sp. UBA1238
Candidatus Methanomethylophilus sp. UBA1239
Candidatus Methanomethylophilus sp. UBA1240
Candidatus Methanomethylophilus sp. UBA1241
Candidatus Methanomethylophilus sp. UBA1242
Candidatus Methanomethylophilus sp. UBA1243
Candidatus Methanomethylophilus sp. UBA1244
Candidatus Methanomethylophilus sp. UBA1245
Candidatus Methanomethylophilus sp. UBA1246
Candidatus Methanomethylophilus sp. UBA1247
Candidatus Methanomethylophilus sp. UBA1248
Candidatus Methanomethylophilus sp. UBA1249
Candidatus Methanomethylophilus sp. UBA1250
Candidatus Methanomethylophilus sp. UBA1251
Candidatus Methanomethylophilus sp. UBA1252
Candidatus Methanomethylophilus sp. UBA1253
Candidatus Methanomethylophilus sp. UBA1254
Candidatus Methanomethylophilus sp. UBA1255
Candidatus Methanomethylophilus sp. UBA1256
Candidatus Methanomethylophilus sp. UBA1257
Candidatus Methanomethylophilus sp. UBA1258
1e−20
1e−10
0.001
0.1
0.1+

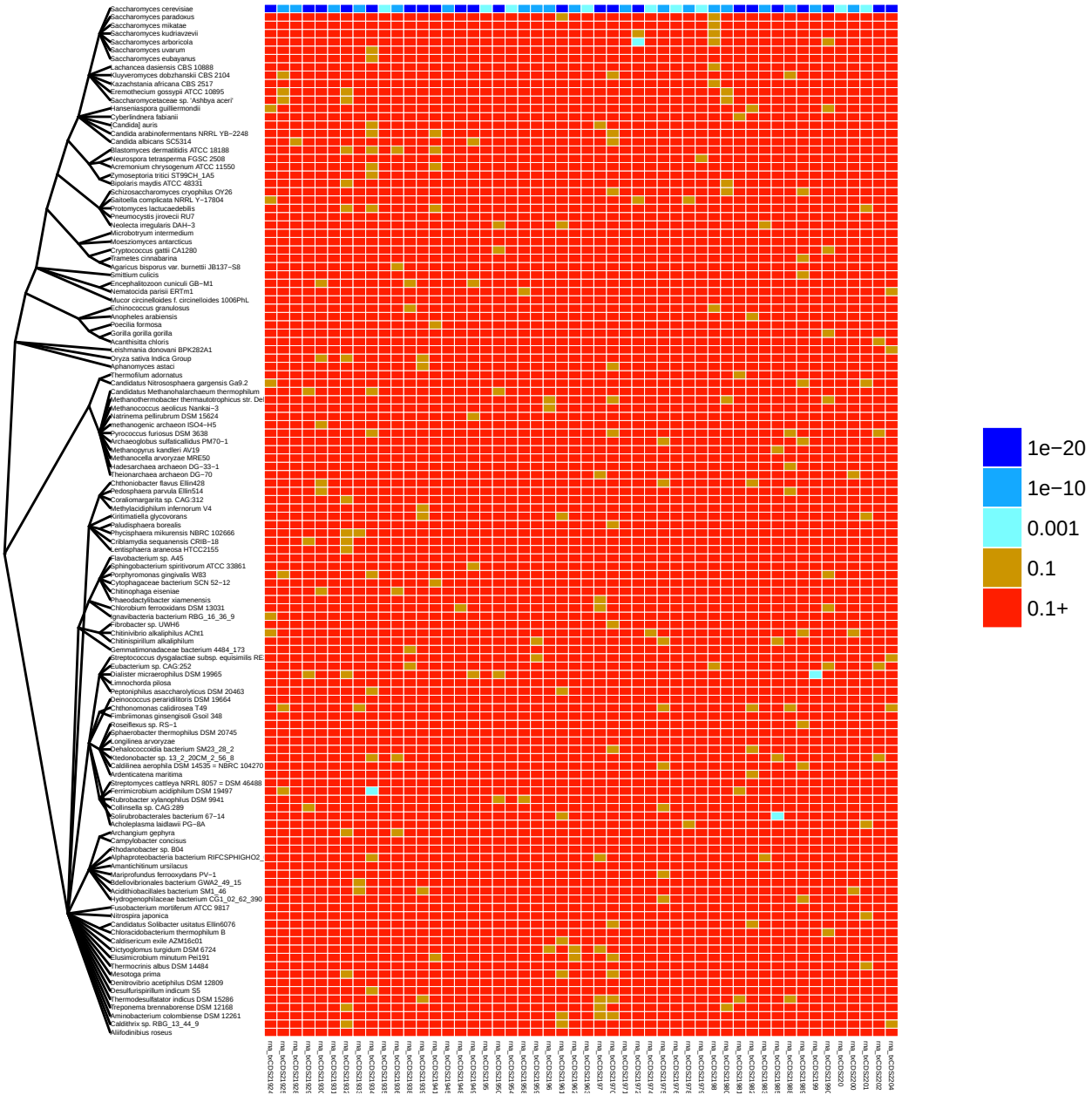

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

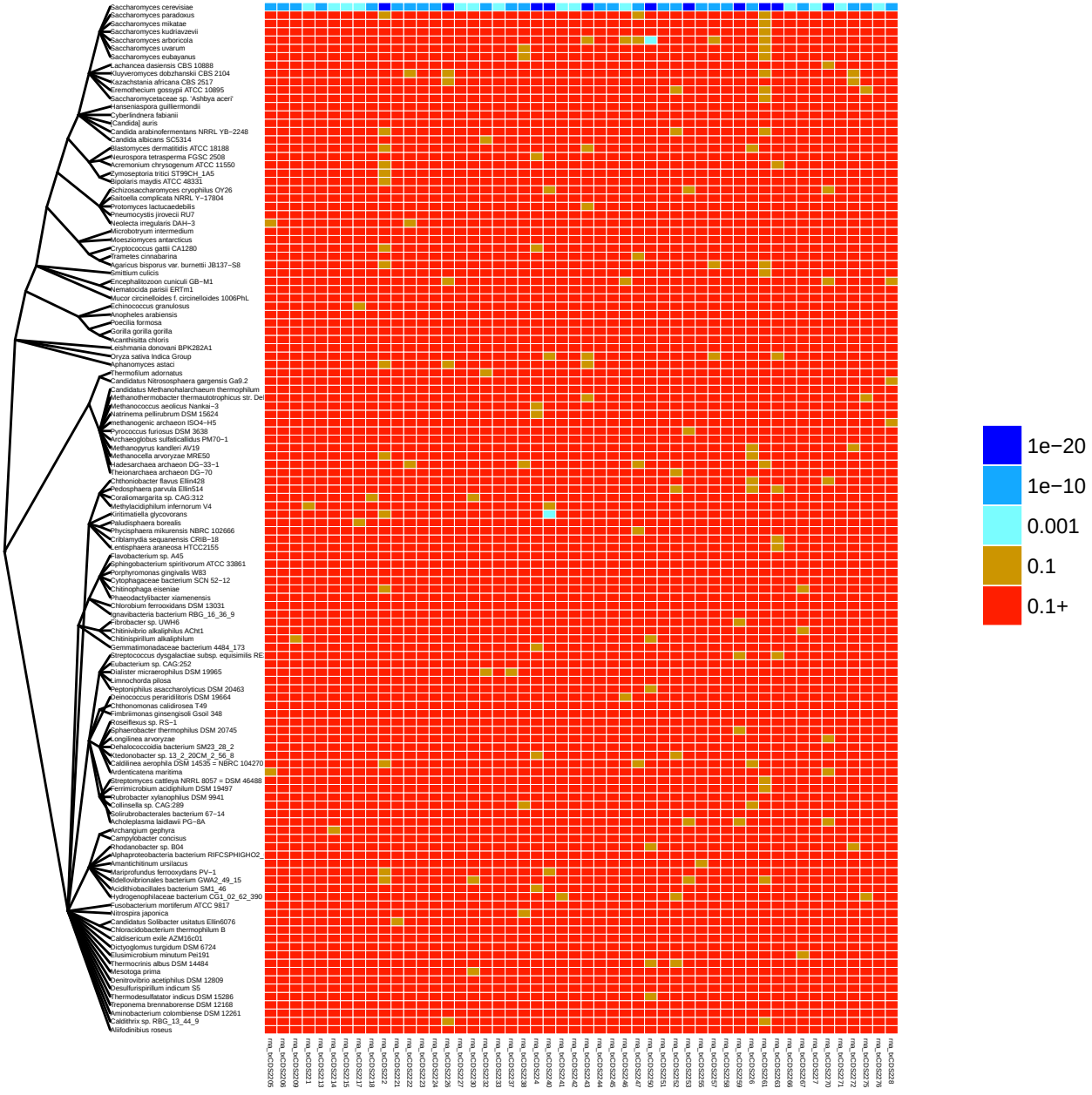

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

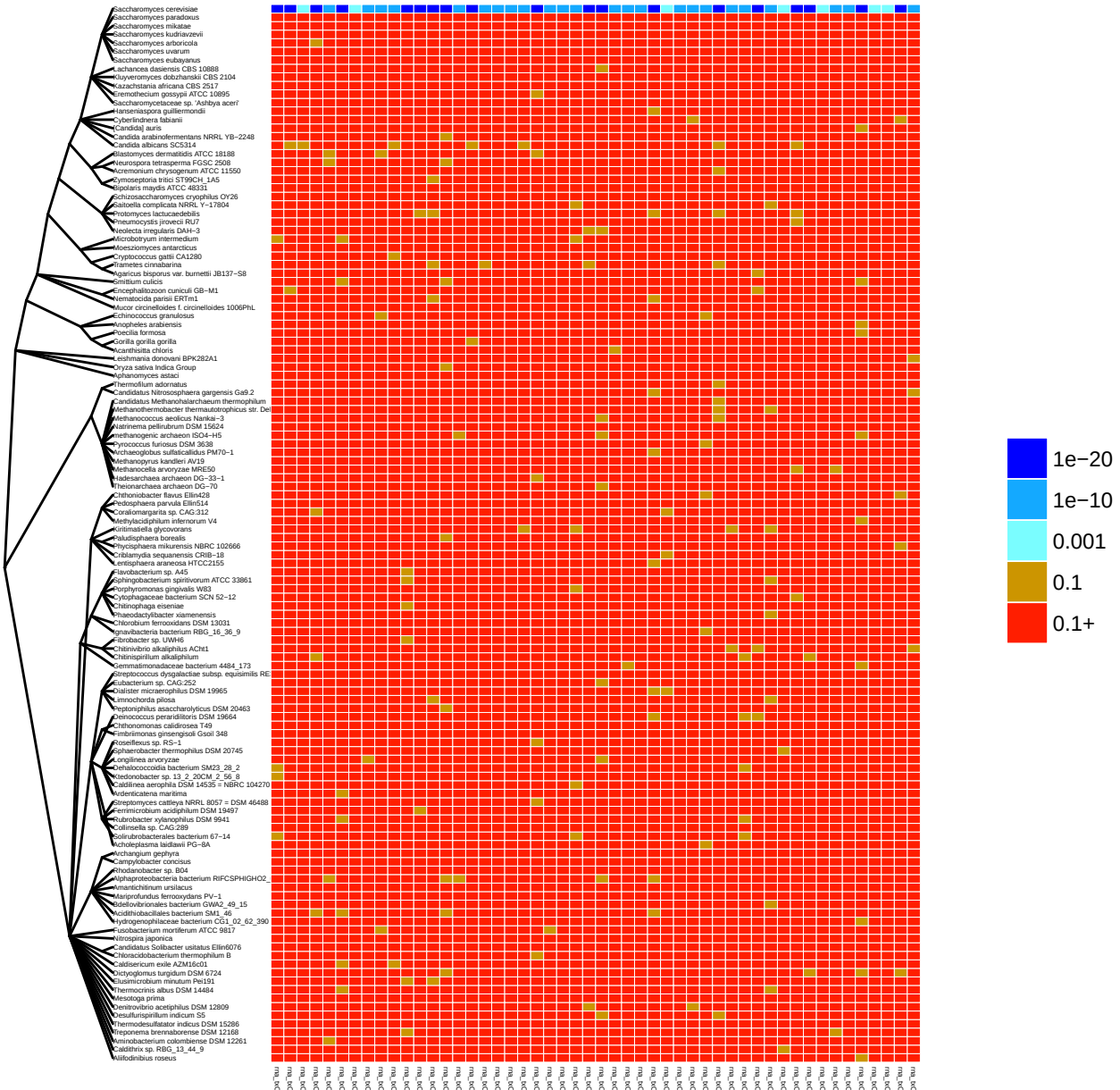

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

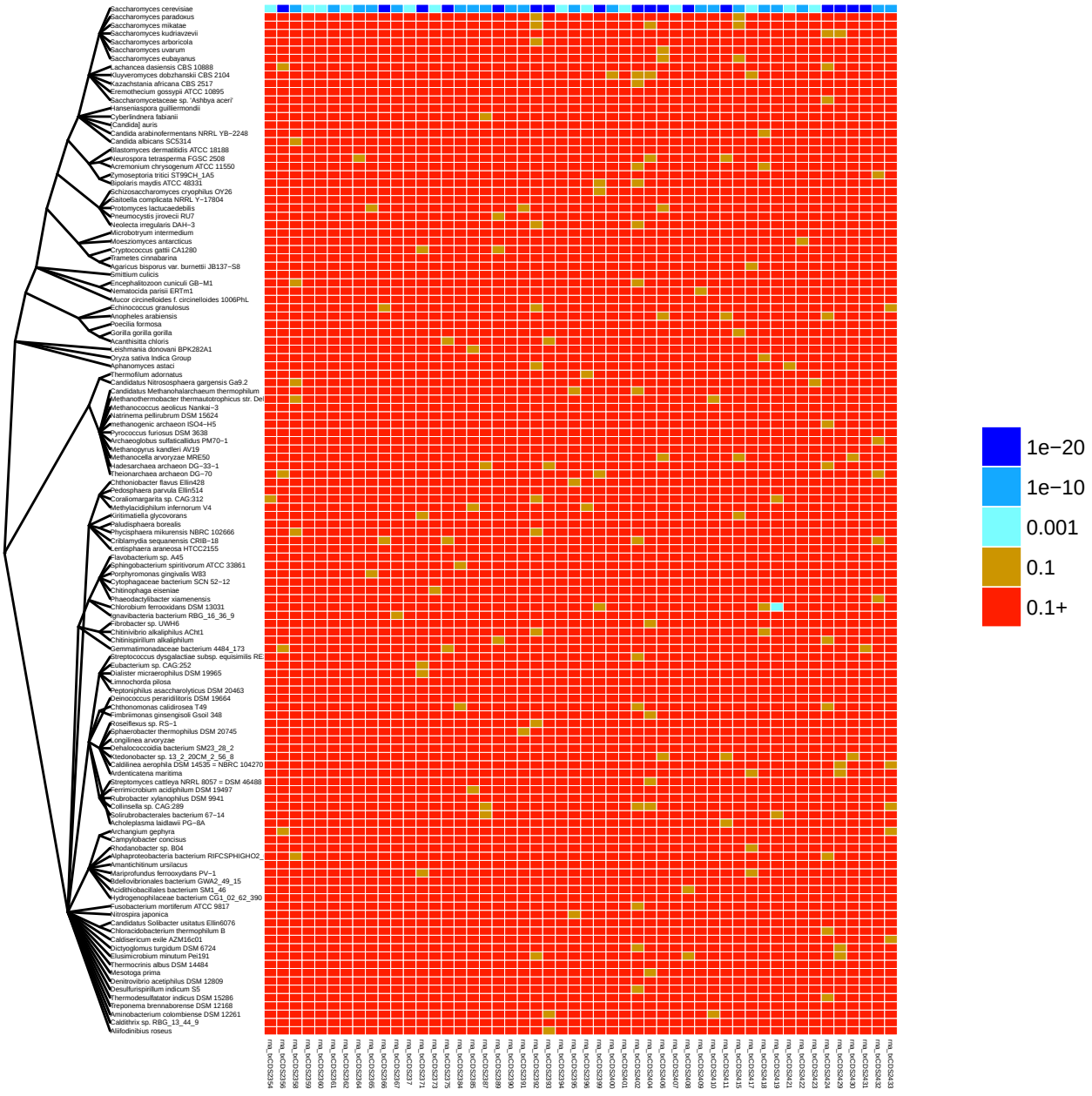

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

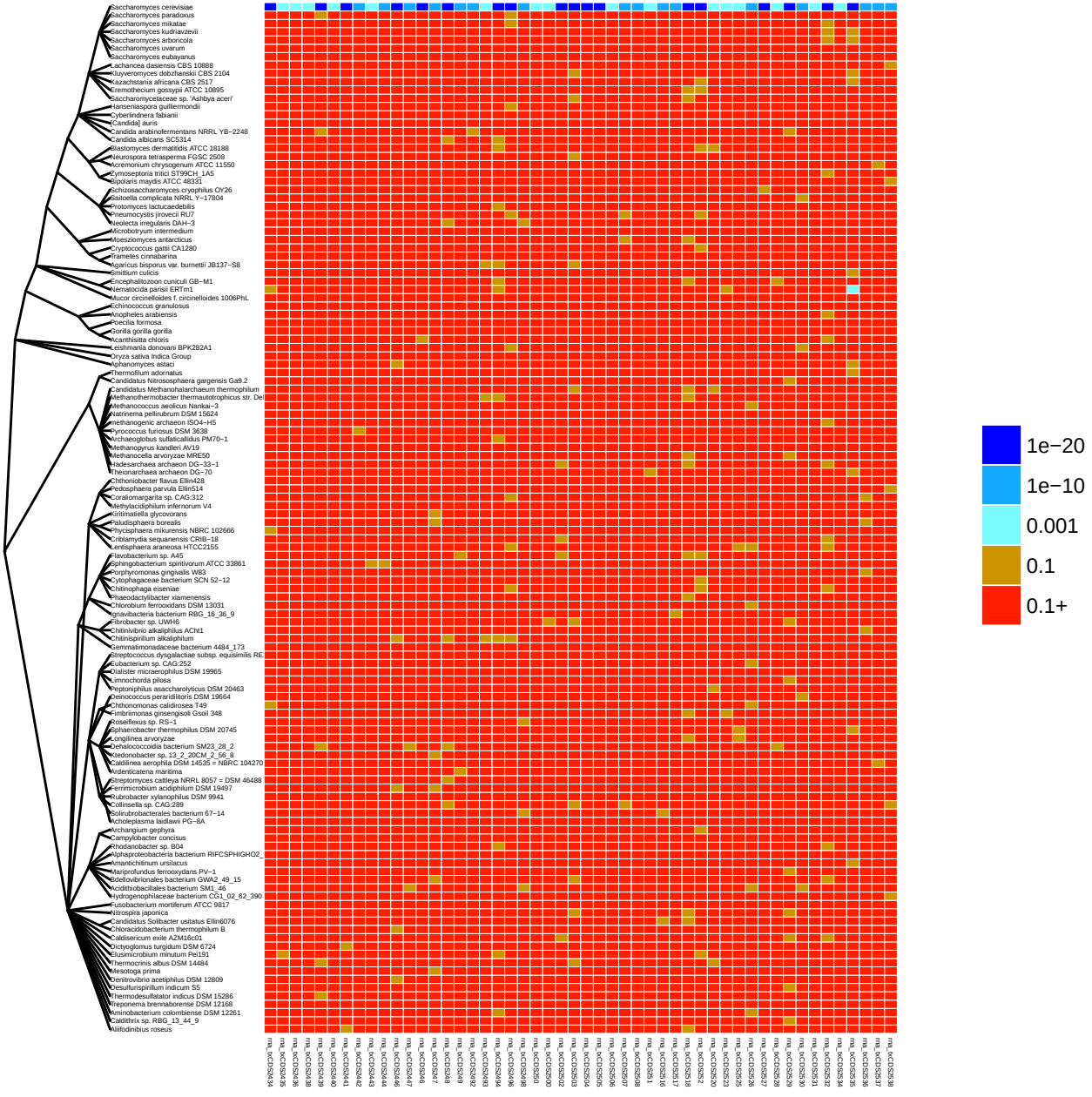

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

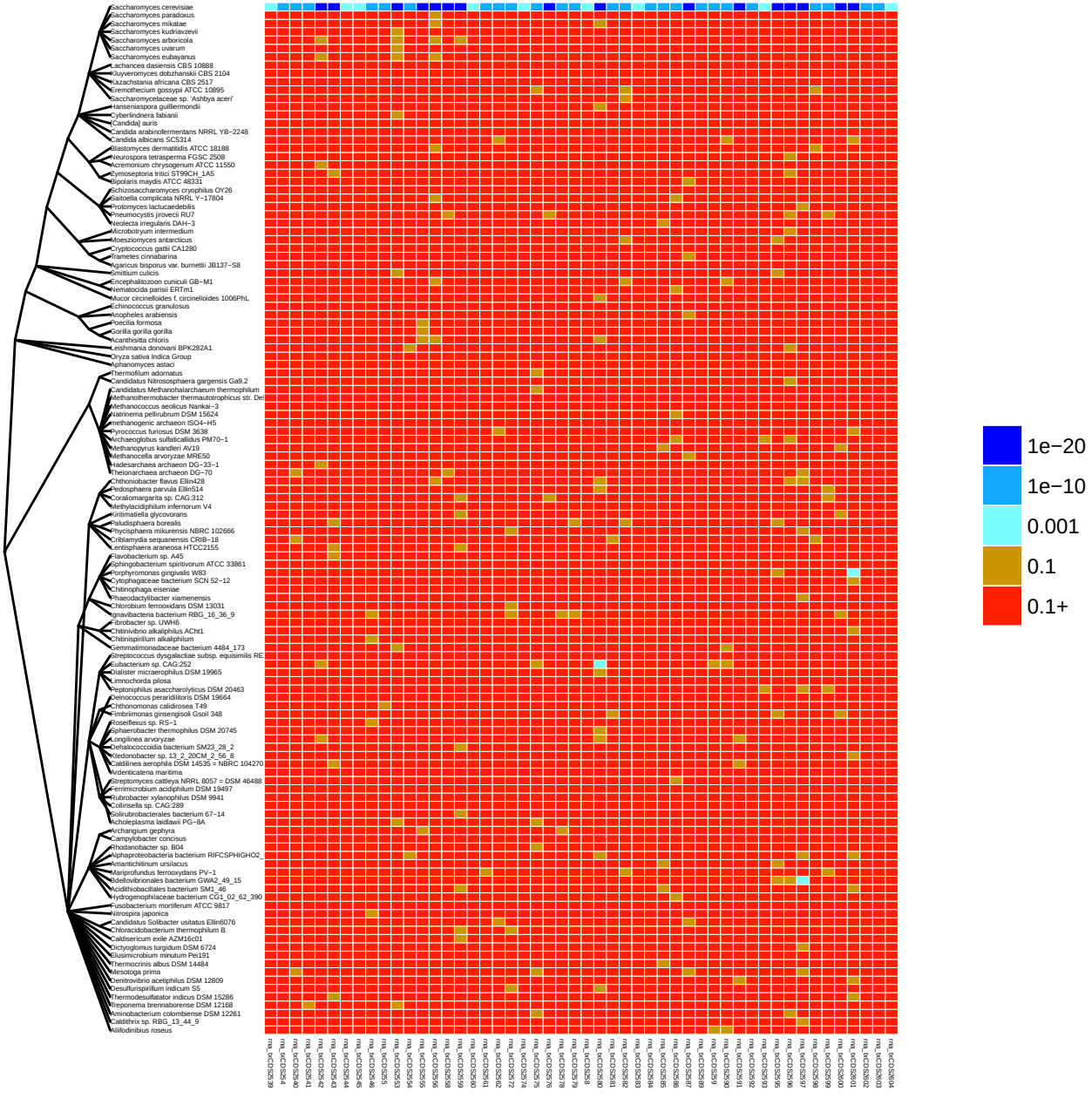

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

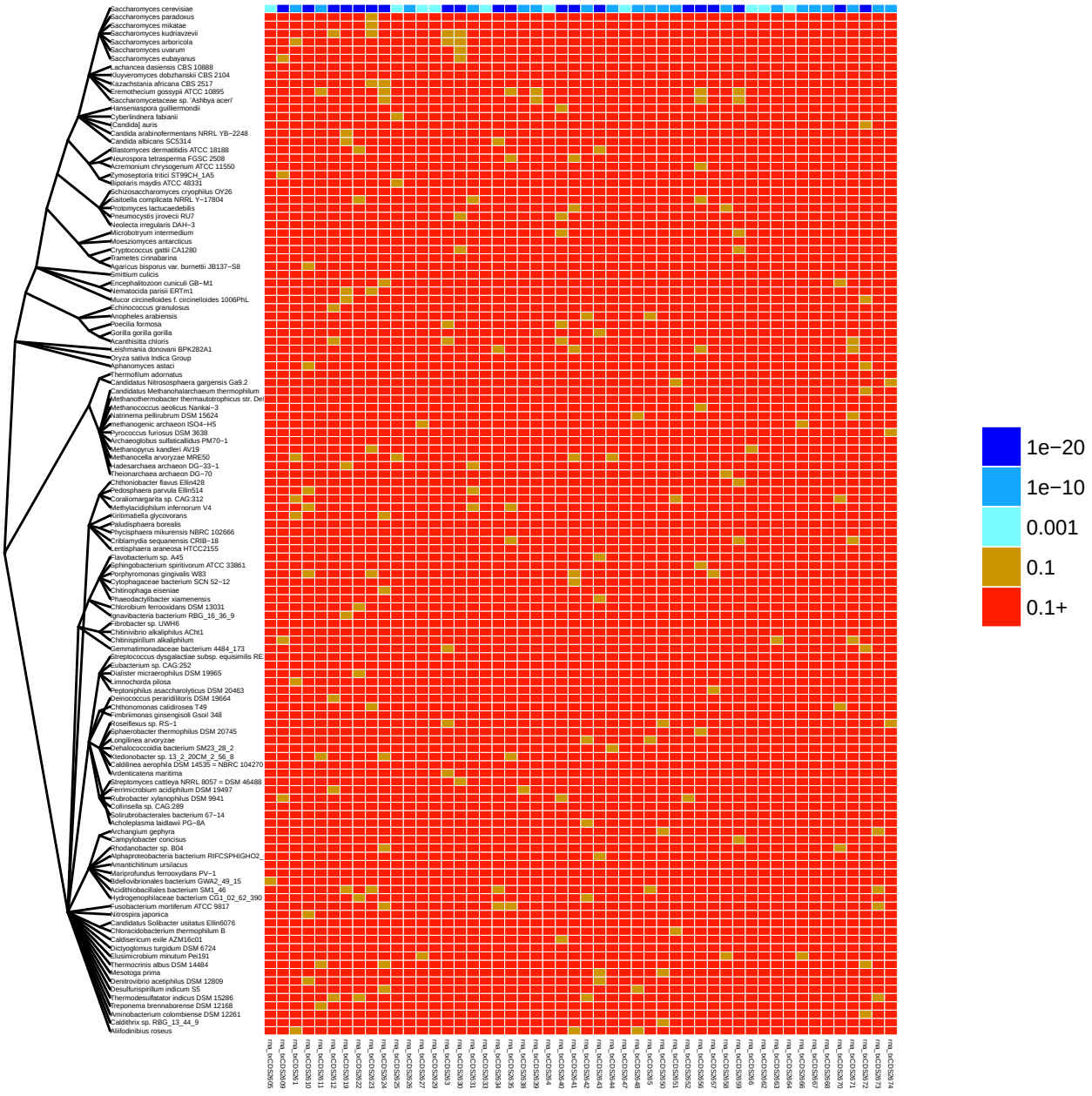

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

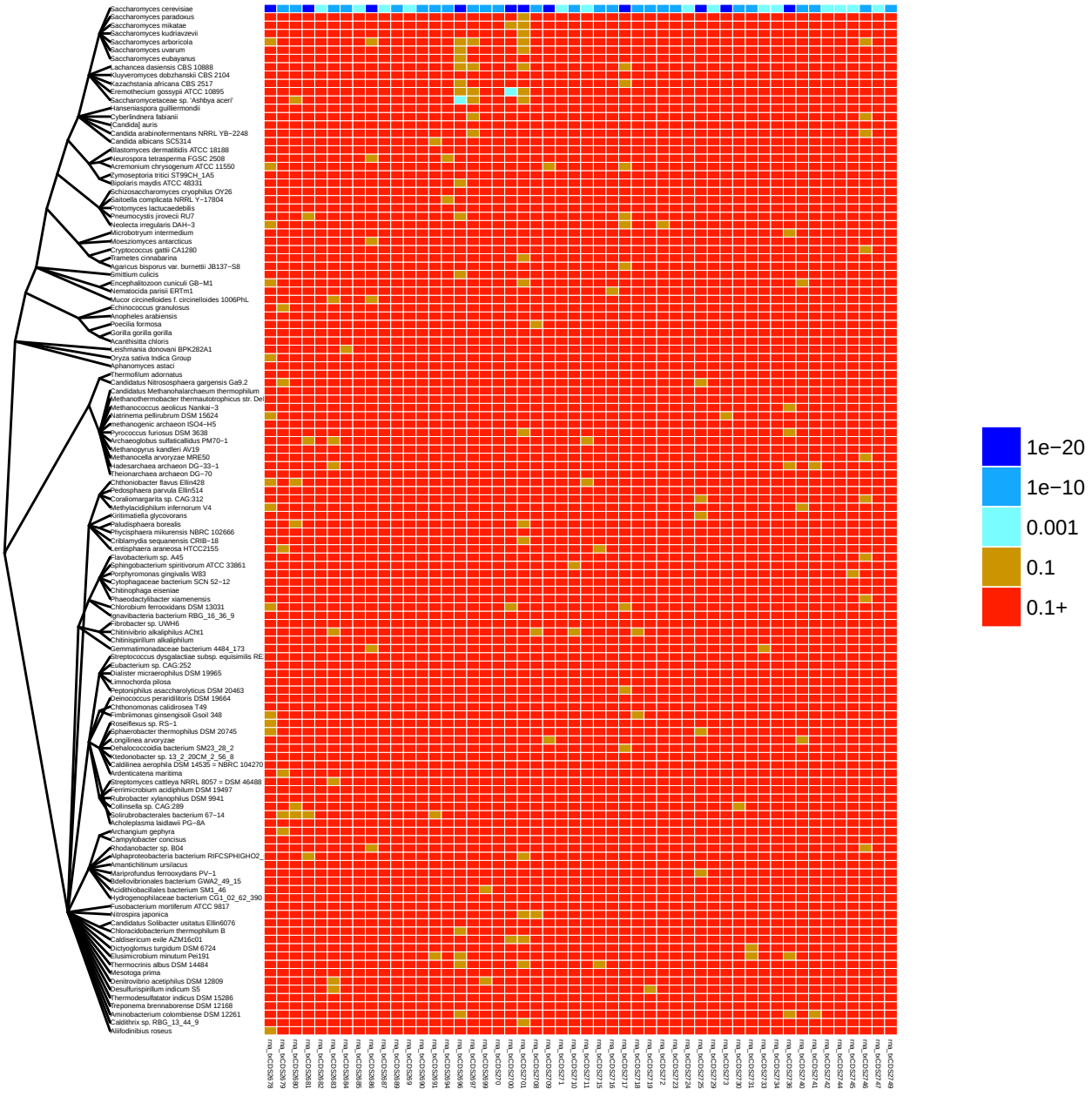

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_bCDS2280
mu_bCDS2281
mu_bCDS2282
mu_bCDS2283
mu_bCDS2284
mu_bCDS2285
mu_bCDS2287
mu_bCDS2288
mu_bCDS2289
mu_bCDS2291
mu_bCDS2292
mu_bCDS2294
mu_bCDS2295
mu_bCDS2296
mu_bCDS2299
mu_bCDS2300
mu_bCDS2302
mu_bCDS2304
mu_bCDS2305
mu_bCDS2306
mu_bCDS2308
mu_bCDS2309
mu_bCDS2310
mu_bCDS2311
mu_bCDS2312
mu_bCDS2313
mu_bCDS2314
mu_bCDS2319
mu_bCDS2320
mu_bCDS2321
mu_bCDS2323
mu_bCDS2333
mu_bCDS2334
mu_bCDS2335
mu_bCDS2336
mu_bCDS2337
mu_bCDS2339
mu_bCDS2241
mu_bCDS2243
mu_bCDS2244
mu_bCDS2245
mu_bCDS2246
mu_bCDS2247
mu_bCDS2248
mu_bCDS2249
mu_bCDS2250
mu_bCDS2251
mu_bCDS2252
mu_bCDS2253
1e−20
1e−10
0.001
0.1
0.1+

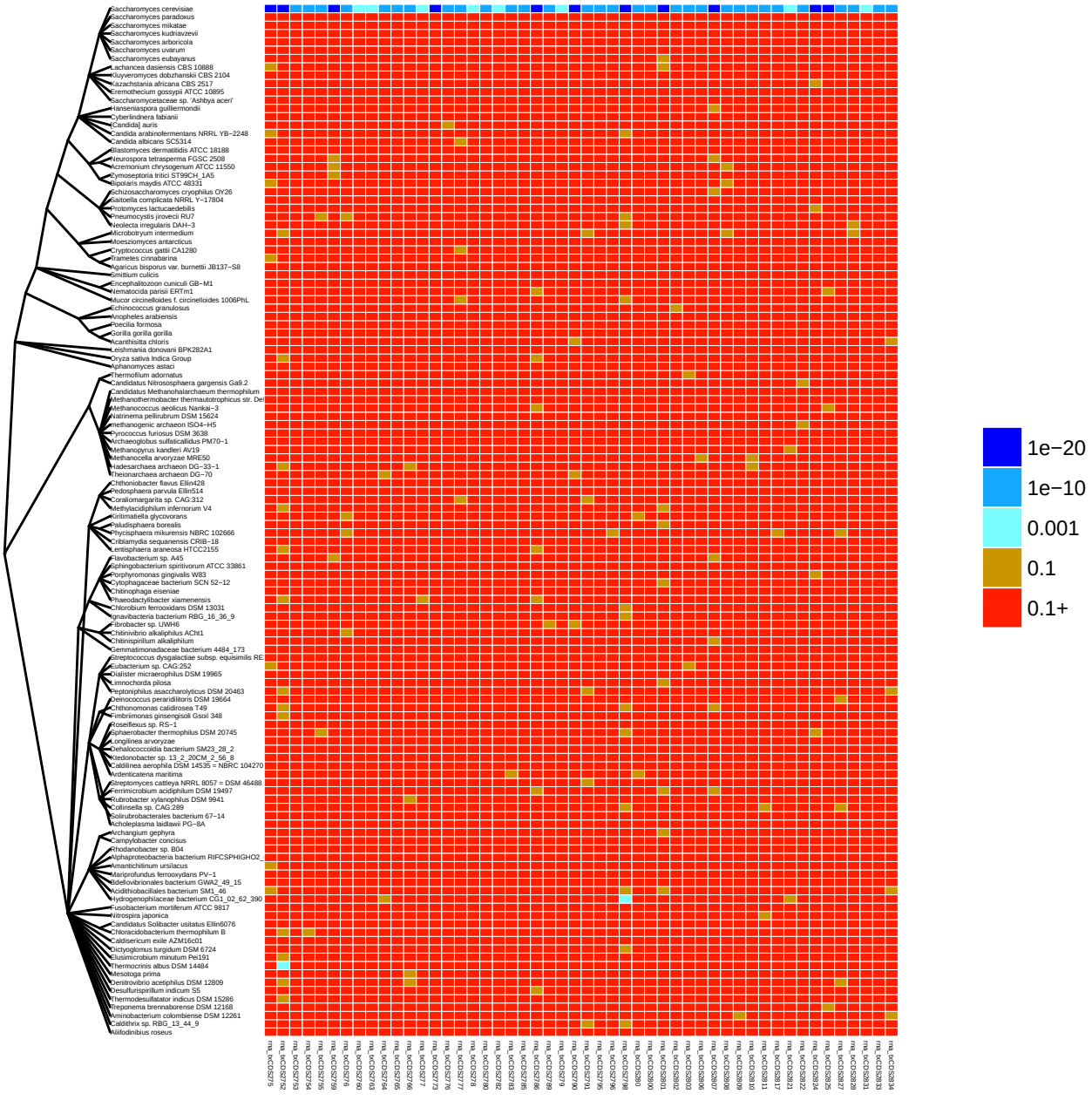

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_bcDS2234
ma_bcDS2236
ma_bcDS2238
ma_bcDS2239
ma_bcDS2240
ma_bcDS2261
ma_bcDS2262
ma_bcDS2264
ma_bcDS2265
ma_bcDS2266
ma_bcDS2267
ma_bcDS2371
ma_bcDS2373
ma_bcDS2375
ma_bcDS2384
ma_bcDS2385
ma_bcDS2387
ma_bcDS2389
ma_bcDS2390
ma_bcDS2391
ma_bcDS2392
ma_bcDS2393
ma_bcDS2394
ma_bcDS2396
ma_bcDS2398
ma_bcDS2399
ma_bcDS2400
ma_bcDS2401
ma_bcDS2402
ma_bcDS2404
ma_bcDS2405
ma_bcDS2407
ma_bcDS2408
ma_bcDS2409
ma_bcDS2410
ma_bcDS2411
ma_bcDS2415
ma_bcDS2417
ma_bcDS2418
ma_bcDS2419
ma_bcDS2421
ma_bcDS2422
ma_bcDS2423
ma_bcDS2424
ma_bcDS2429
ma_bcDS2430
ma_bcDS2431
ma_bcDS2432
ma_bcDS2433
1e−20
1e−10
0.001
0.1
0.1+

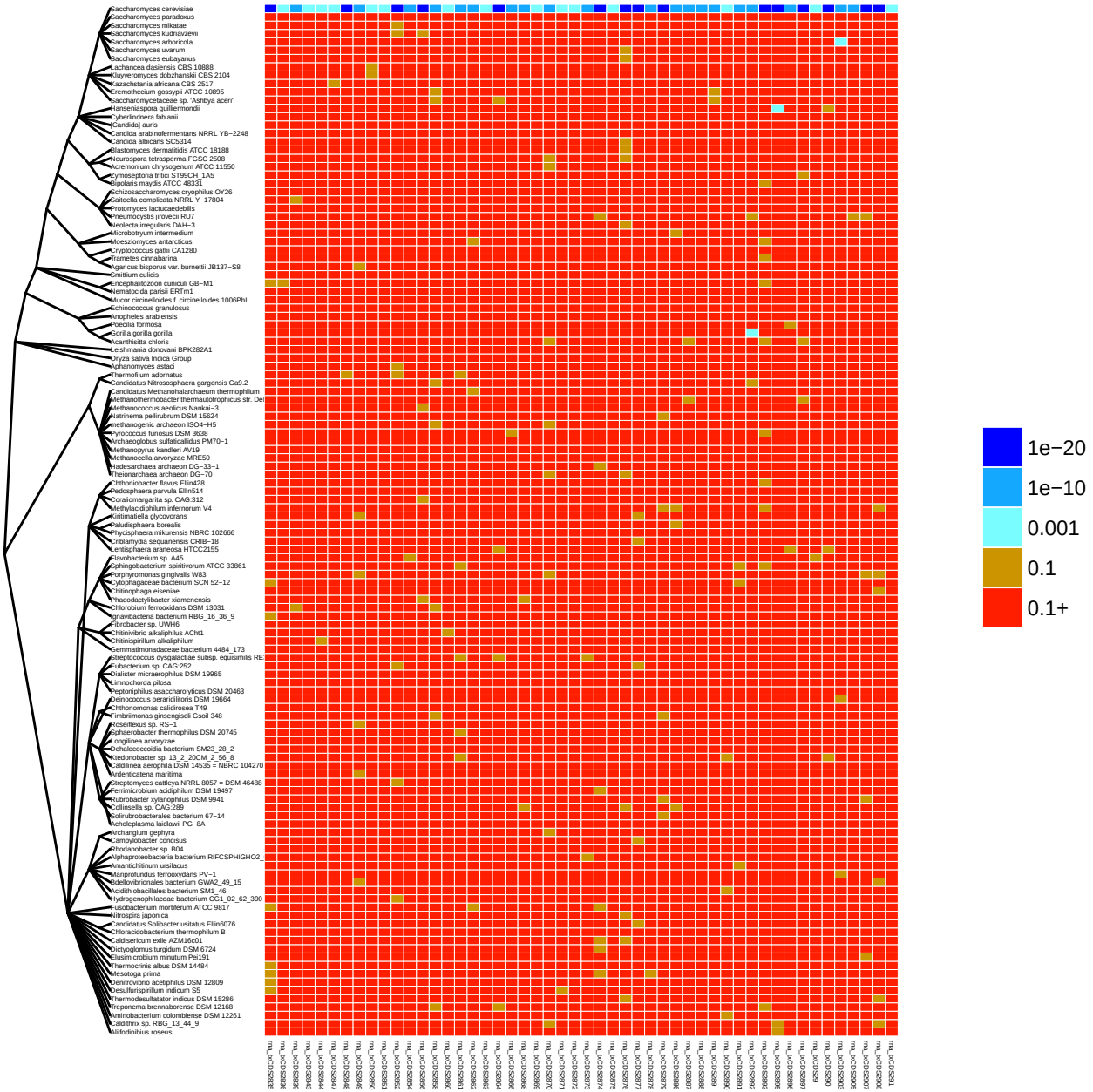

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramaria sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

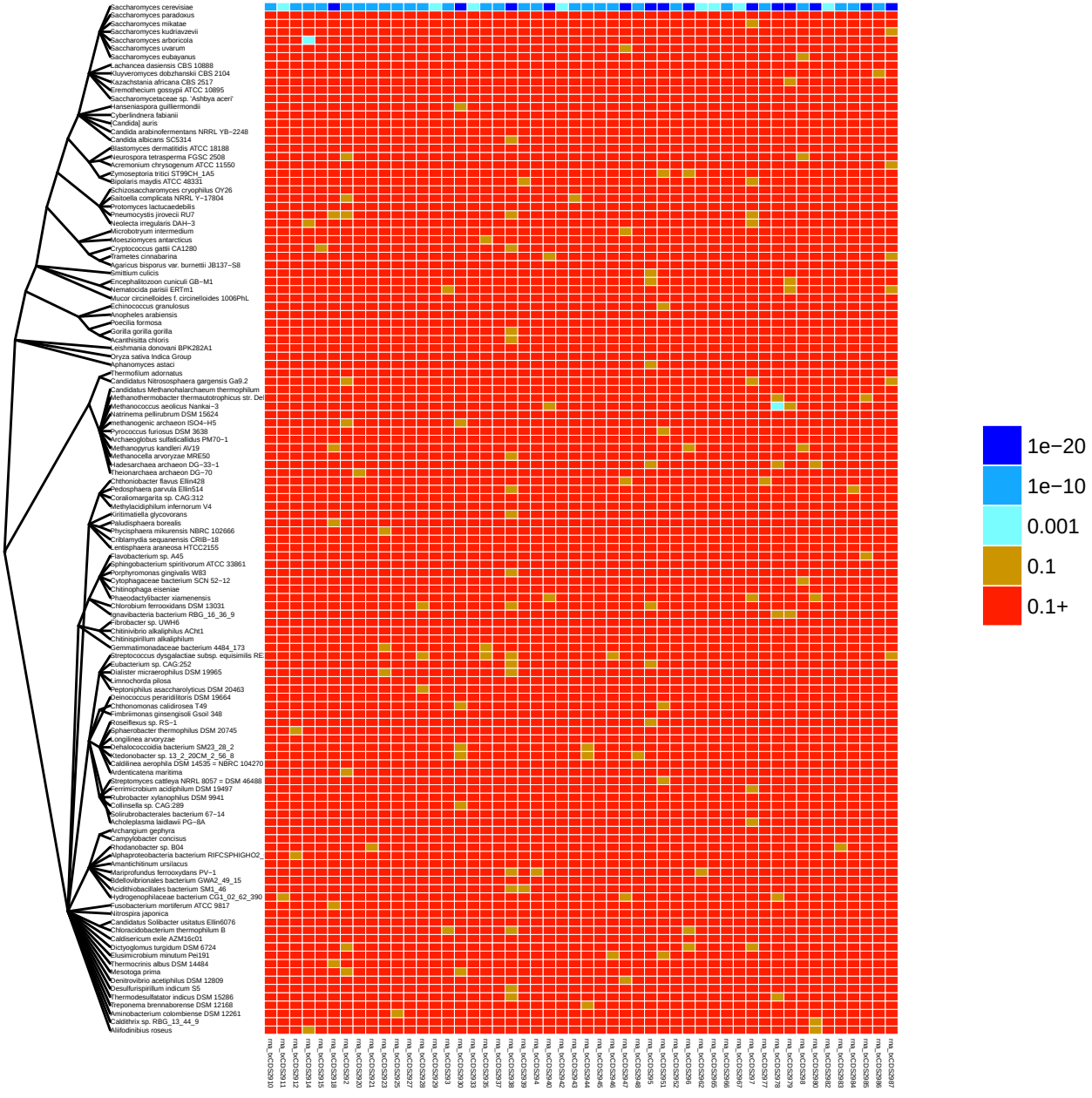

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

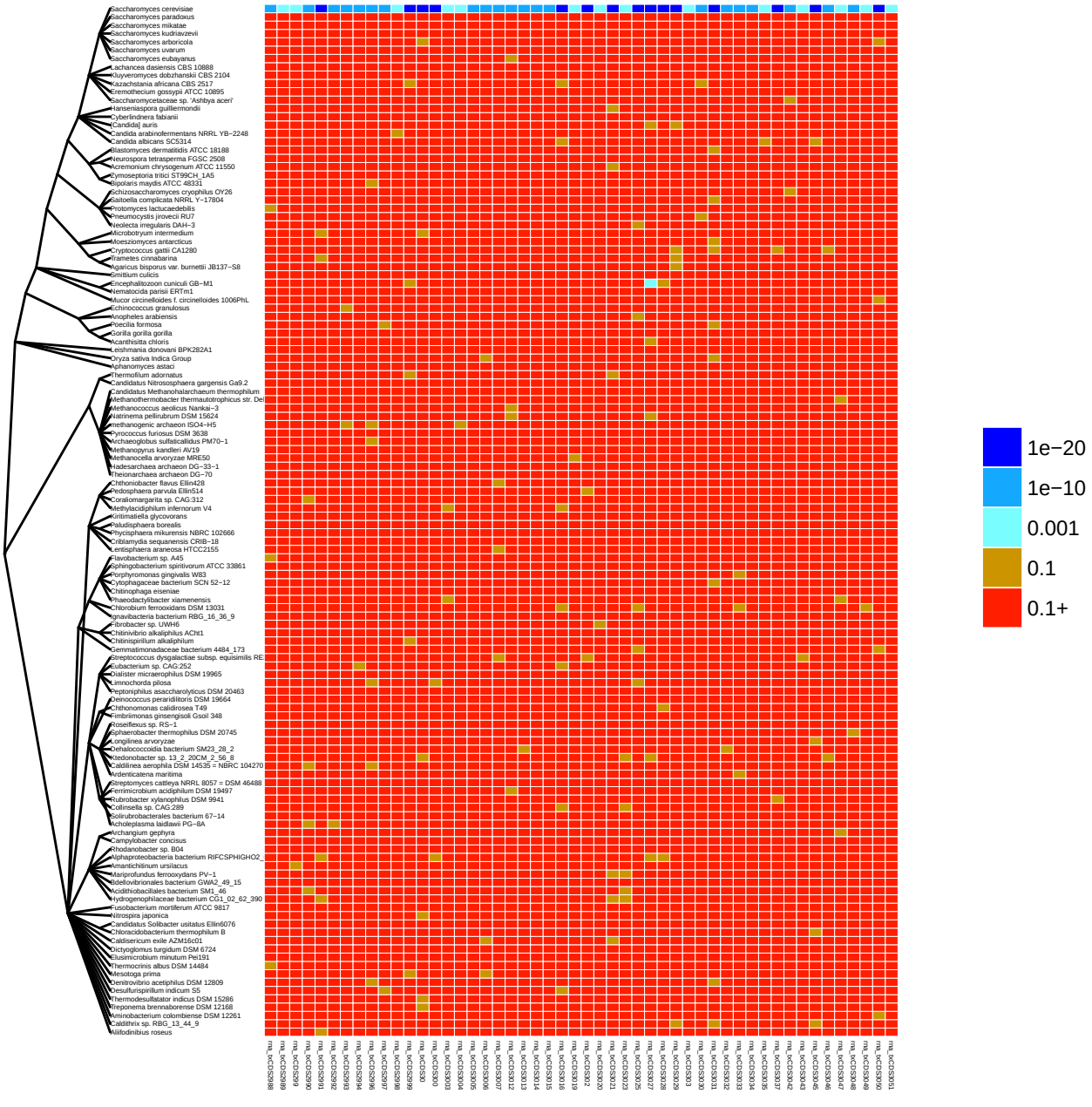

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

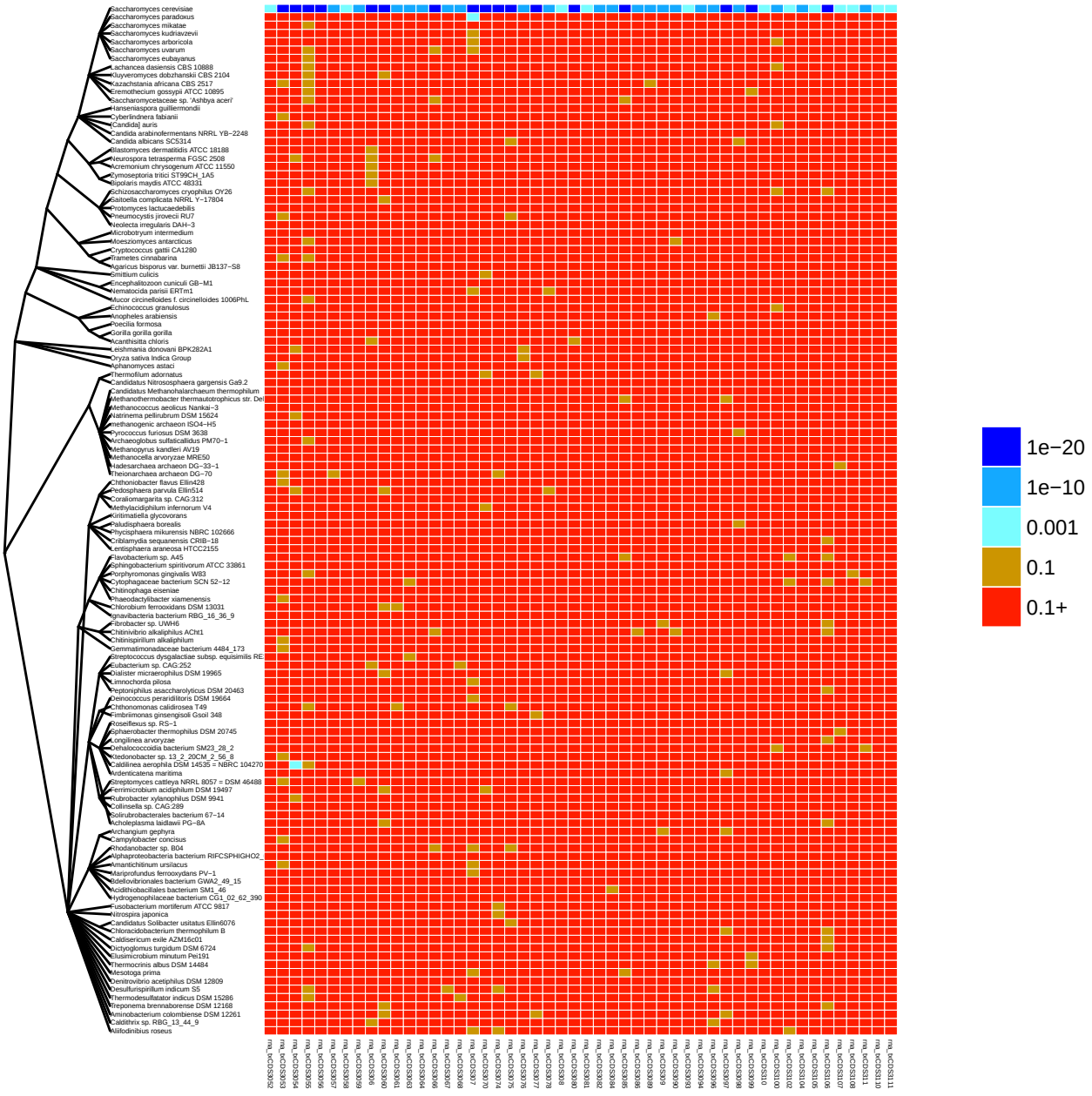

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

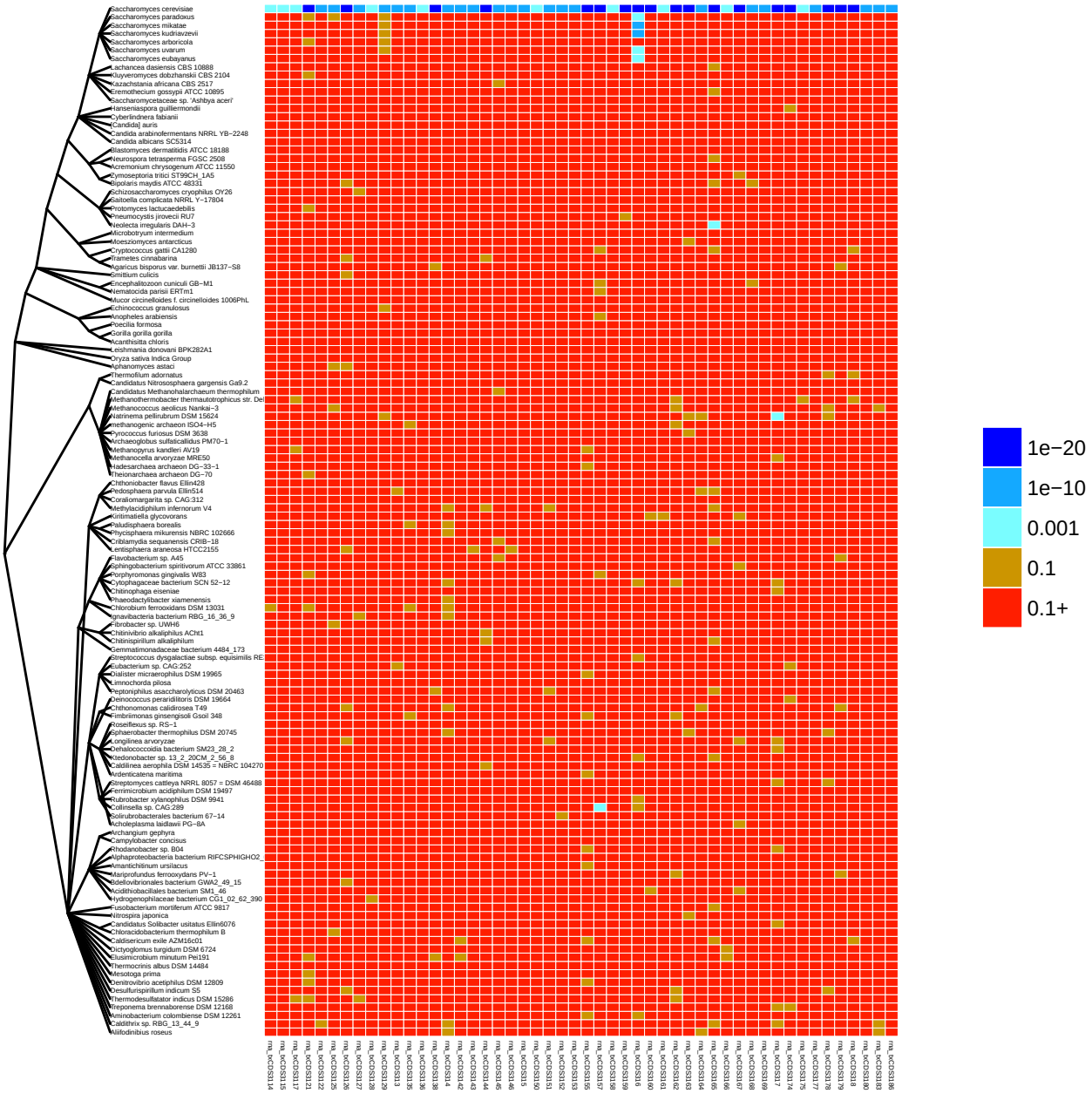

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Botpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszóimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

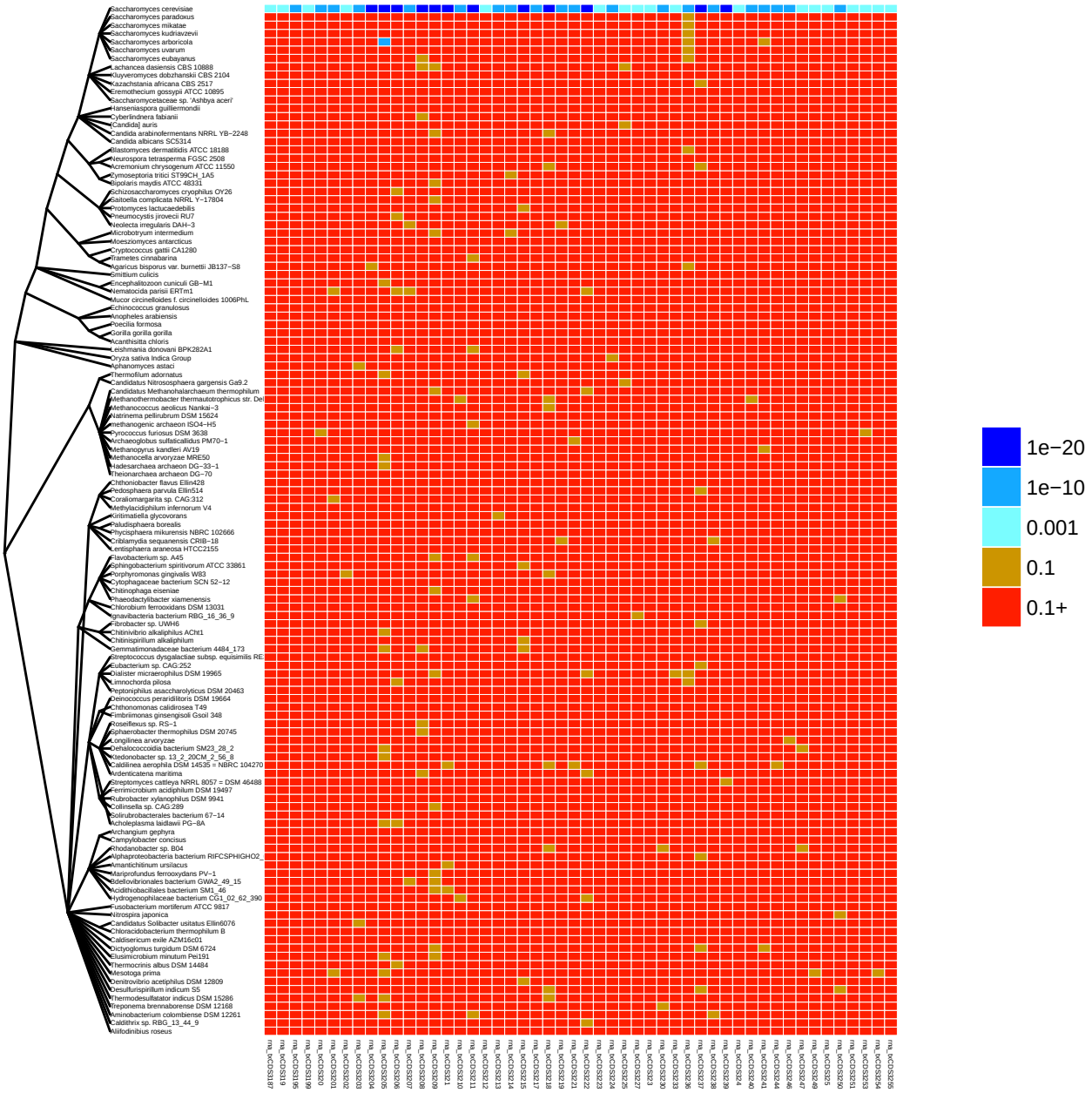

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylaciditphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_ACD52823
mu_ACD52824
mu_ACD52825
mu_ACD52826
mu_ACD52827
mu_ACD52828
mu_ACD52829
mu_ACD52830
mu_ACD52831
mu_ACD52832
mu_ACD52833
mu_ACD52834
mu_ACD52835
mu_ACD52836
mu_ACD52837
mu_ACD52838
mu_ACD52839
mu_ACD52840
mu_ACD52841
mu_ACD52842
mu_ACD52843
mu_ACD52844
mu_ACD52845
mu_ACD52846
mu_ACD52847
mu_ACD52848
mu_ACD52849
mu_ACD52850
mu_ACD52851
mu_ACD52852
mu_ACD52853
mu_ACD52854
mu_ACD52855
mu_ACD52856
mu_ACD52857
mu_ACD52858
mu_ACD52859
mu_ACD52860
mu_ACD52861
mu_ACD52862
mu_ACD52863
mu_ACD52864
mu_ACD52865
mu_ACD52866
mu_ACD52867
mu_ACD52868
mu_ACD52869
mu_ACD52870
mu_ACD52871
mu_ACD52872
mu_ACD52873
mu_ACD52874
mu_ACD52875
mu_ACD52876
mu_ACD52877
mu_ACD52878
mu_ACD52879
mu_ACD52880
mu_ACD52881
mu_ACD52882
mu_ACD52883
mu_ACD52884
mu_ACD52885
mu_ACD52886
mu_ACD52887
mu_ACD52888
mu_ACD52889
mu_ACD52890
mu_ACD52891
mu_ACD52892
mu_ACD52893
mu_ACD52894
mu_ACD52895
mu_ACD52896
mu_ACD52897
mu_ACD52898
mu_ACD52899
mu_ACD52900
mu_ACD52901
mu_ACD52902
mu_ACD52903
mu_ACD52904
mu_ACD52905
mu_ACD52906
mu_ACD52907
mu_ACD52908
mu_ACD52921
1e−20
1e−10
0.001
0.1
0.1+

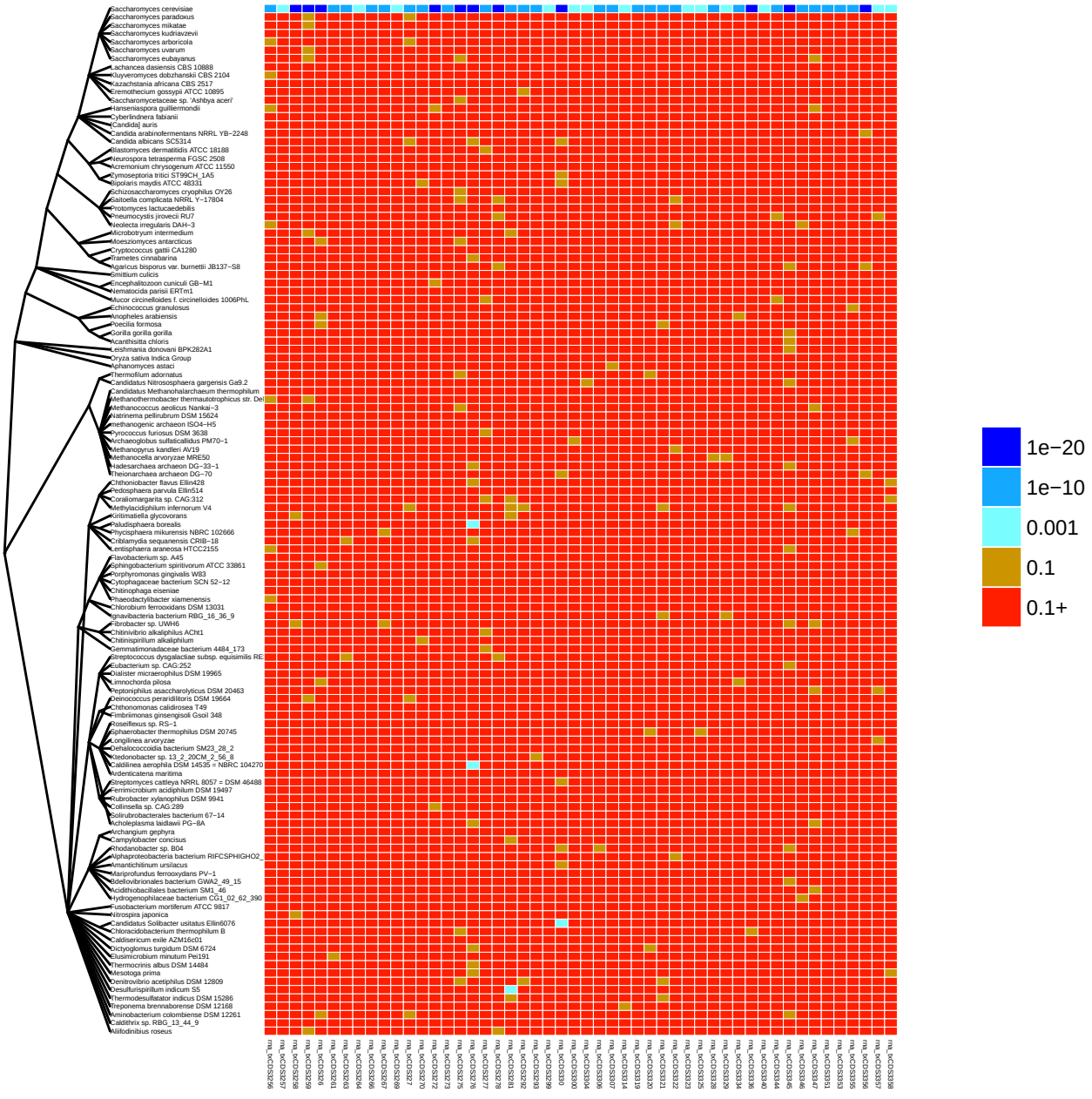

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister microaerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

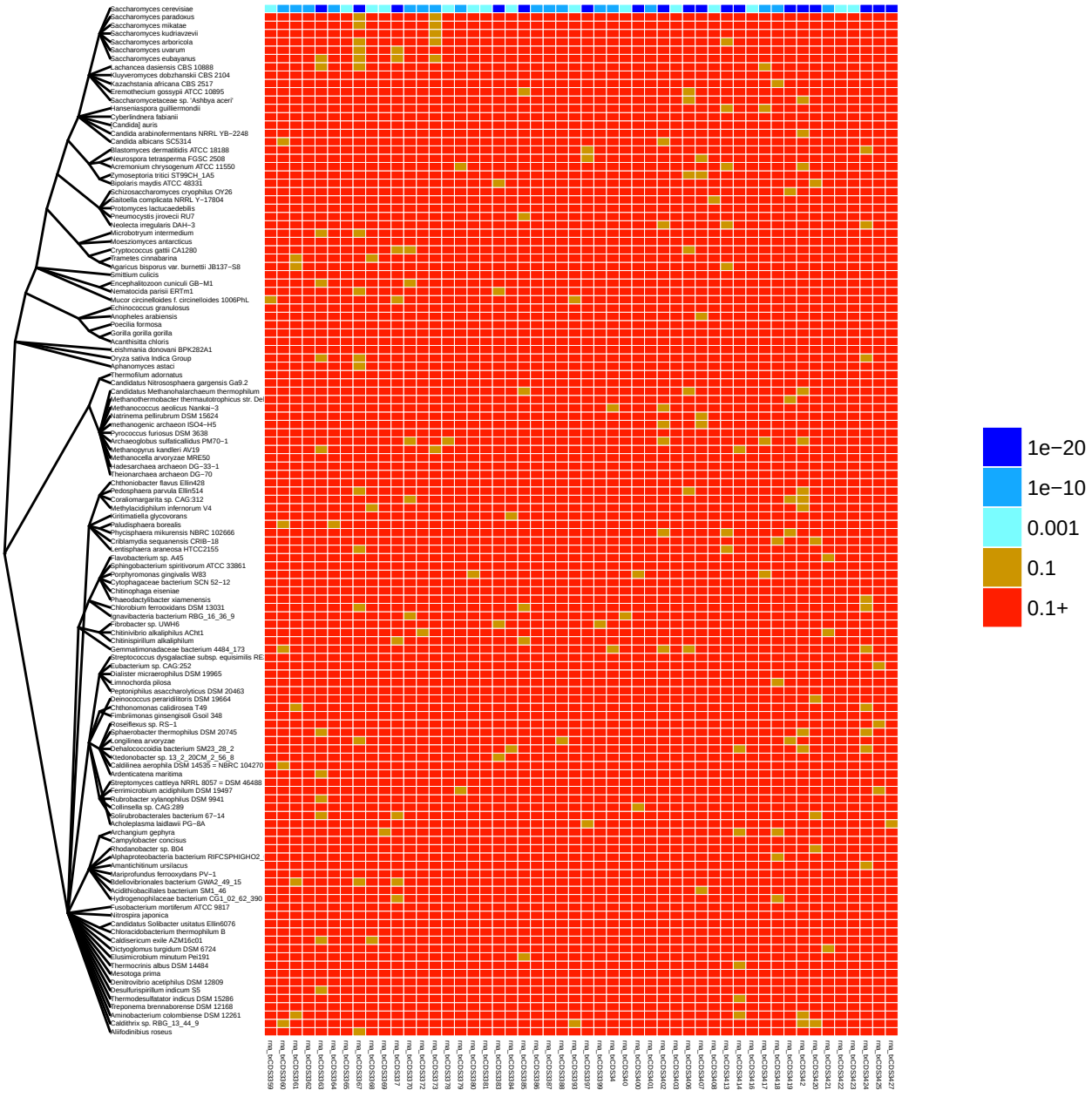

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

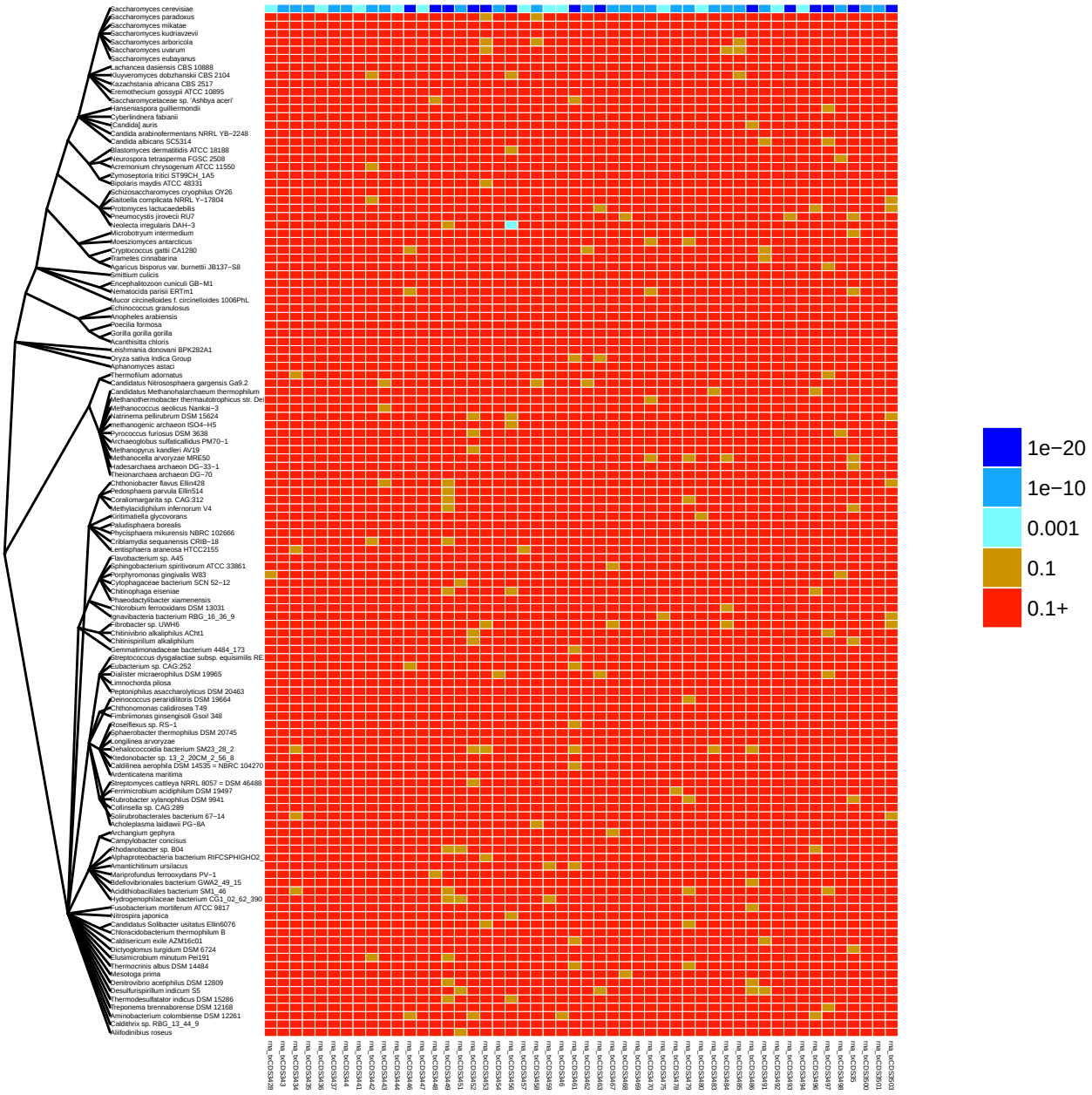

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas ACT3
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Cg17
Candidatus Nitrosotenuis Cg19
Candidatus Nitrosotenuis Cg20
Candidatus Nitrosotenuis Cg21
Candidatus Nitrosotenuis Cg22
Candidatus Nitrosotenuis Cg23
Candidatus Nitrosotenuis Cg24
Candidatus Nitrosotenuis Cg25
Candidatus Nitrosotenuis Cg26
Candidatus Nitrosotenuis Cg27
Candidatus Nitrosotenuis Cg28
Candidatus Nitrosotenuis Cg29
Candidatus Nitrosotenuis Cg30
Candidatus Nitrosotenuis Cg31
Candidatus Nitrosotenuis Cg32
Candidatus Nitrosotenuis Cg33
Candidatus Nitrosotenuis Cg34
Candidatus Nitrosotenuis Cg35
Candidatus Nitrosotenuis Cg36
Candidatus Nitrosotenuis Cg37
Candidatus Nitrosotenuis Cg38
Candidatus Nitrosotenuis Cg39
Candidatus Nitrosotenuis Cg40
Candidatus Nitrosotenuis Cg41
Candidatus Nitrosotenuis Cg42
Candidatus Nitrosotenuis Cg43
Candidatus Nitrosotenuis Cg44
Candidatus Nitrosotenuis Cg45
1e−20
1e−10
0.001
0.1
0.1+

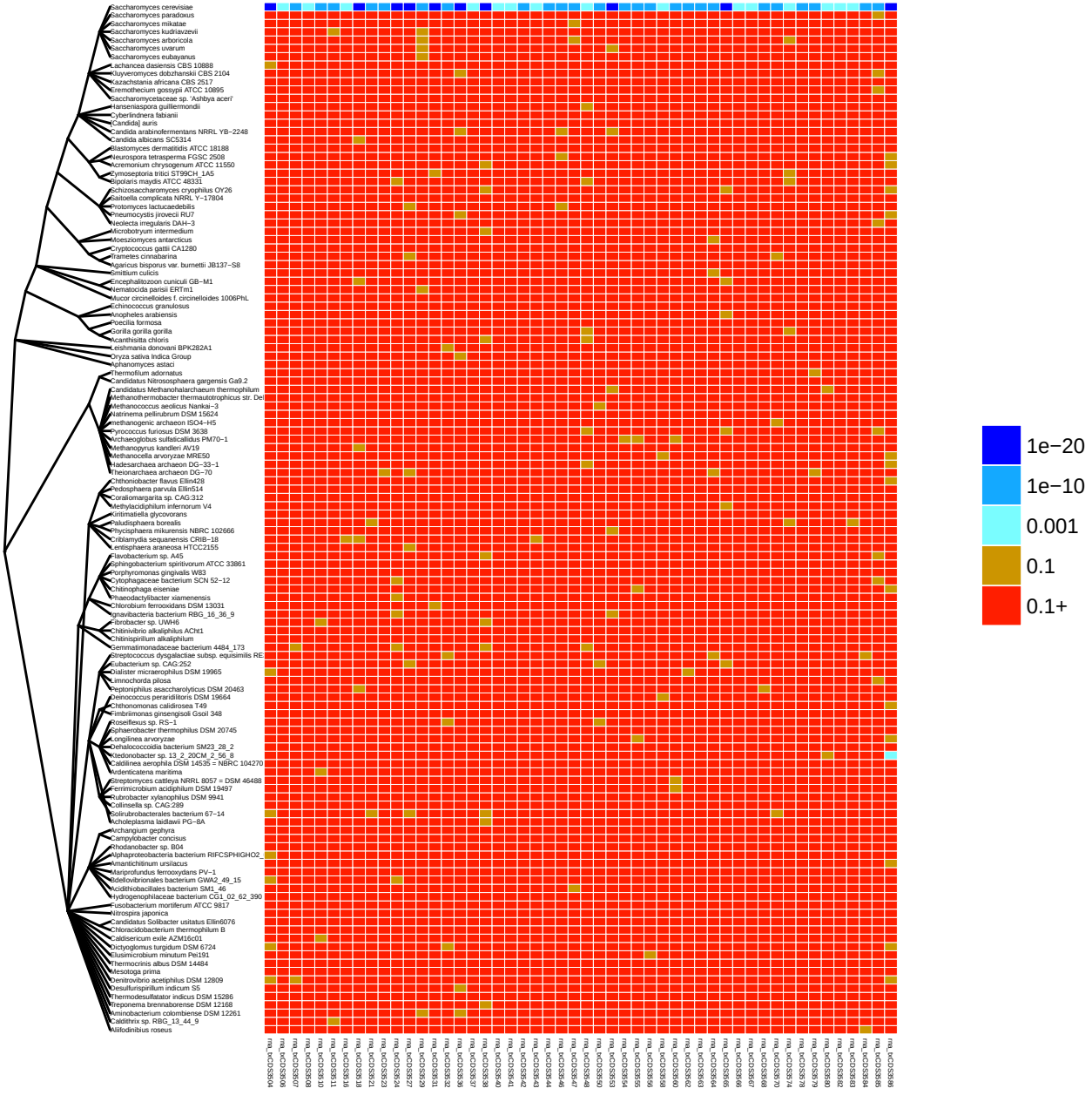

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

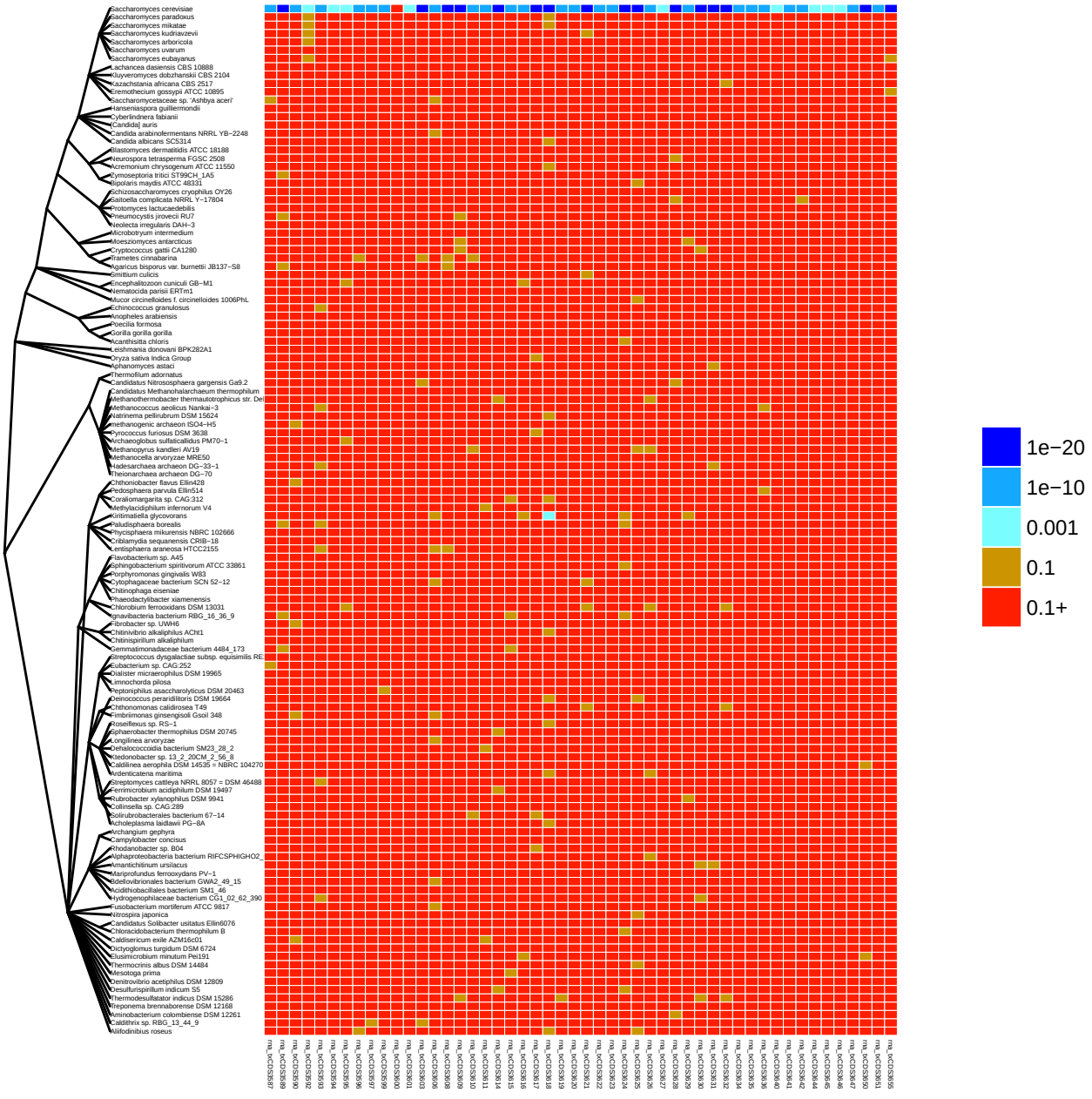

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

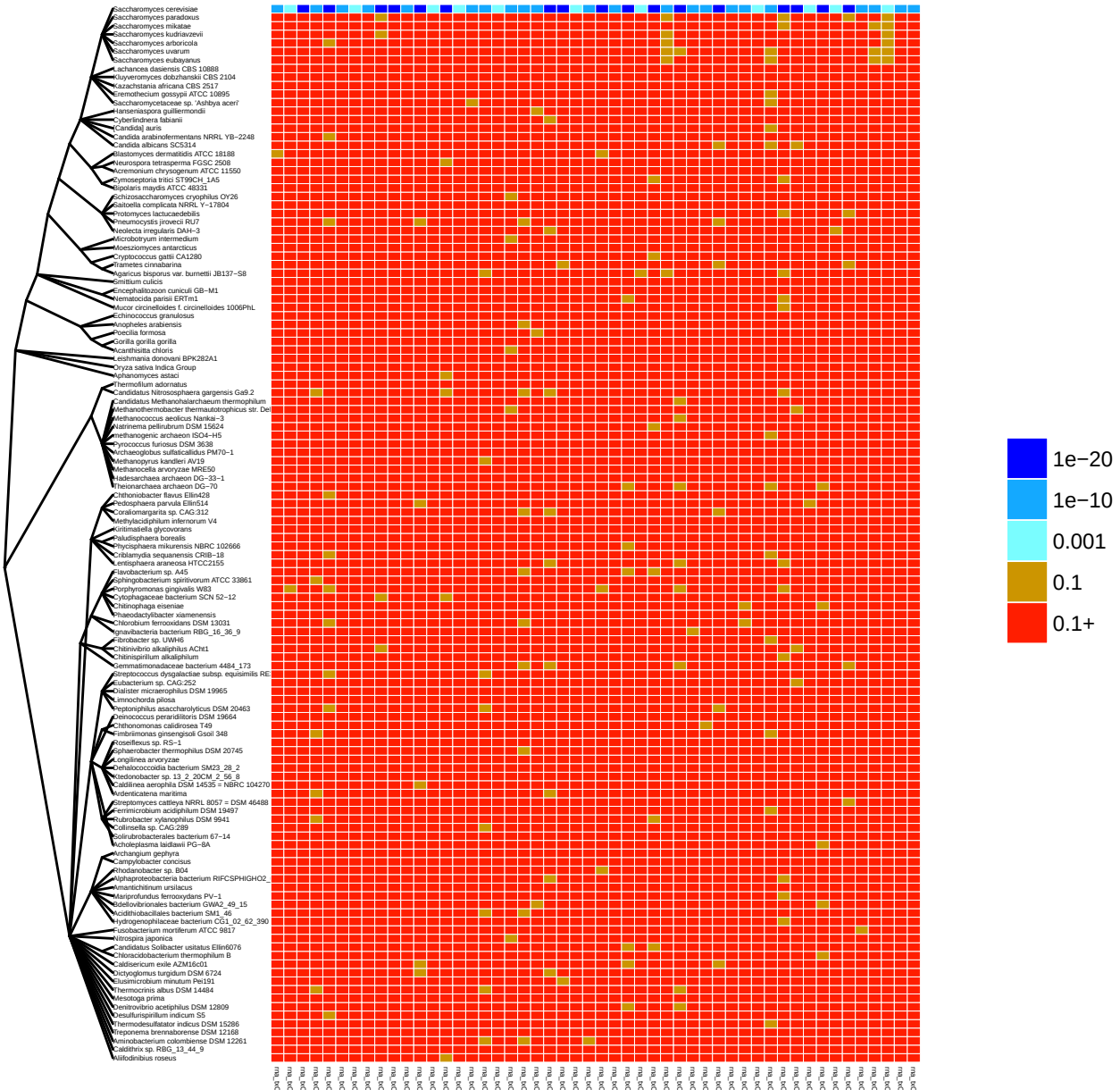

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niilofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

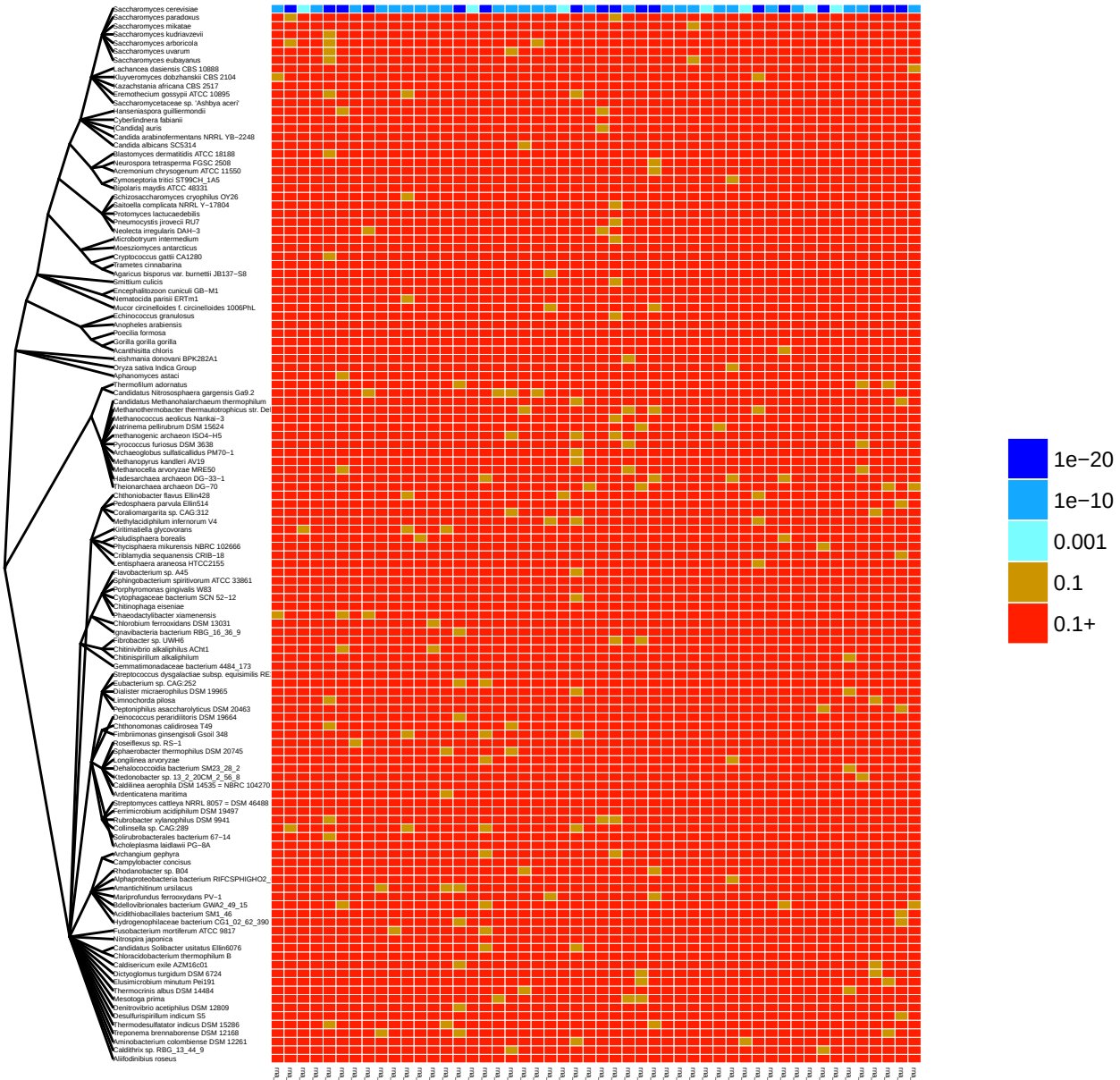

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

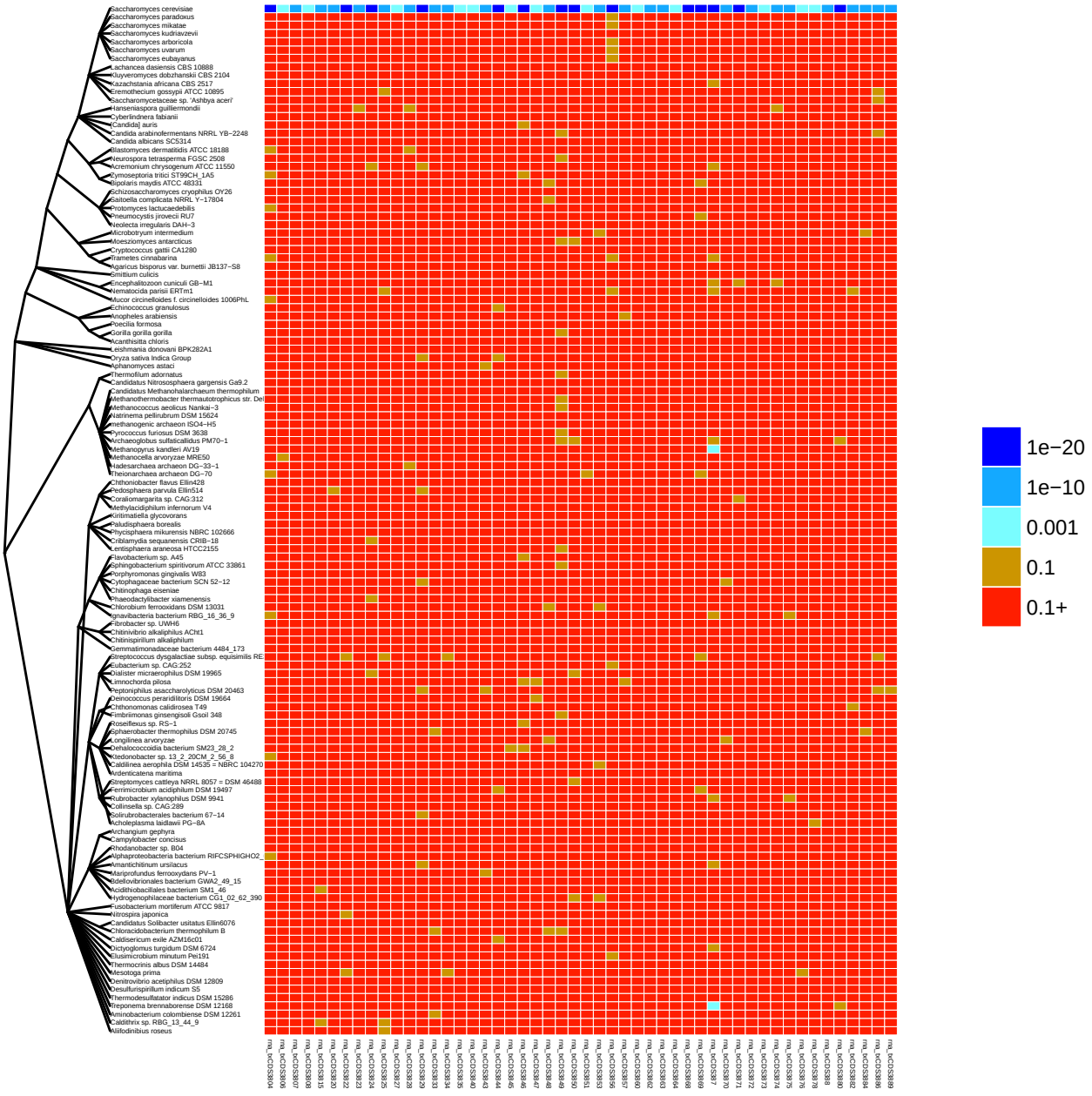

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

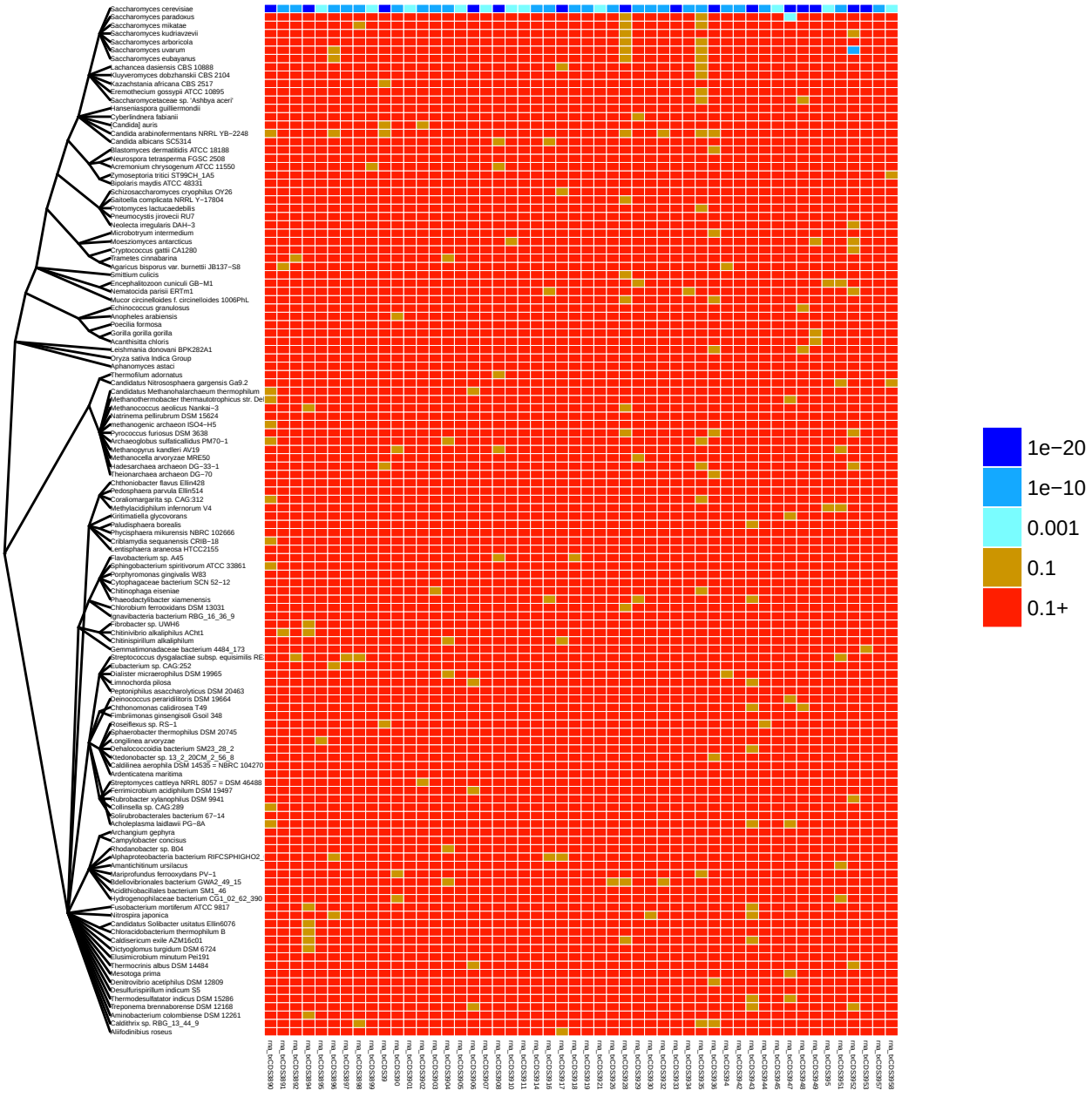

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

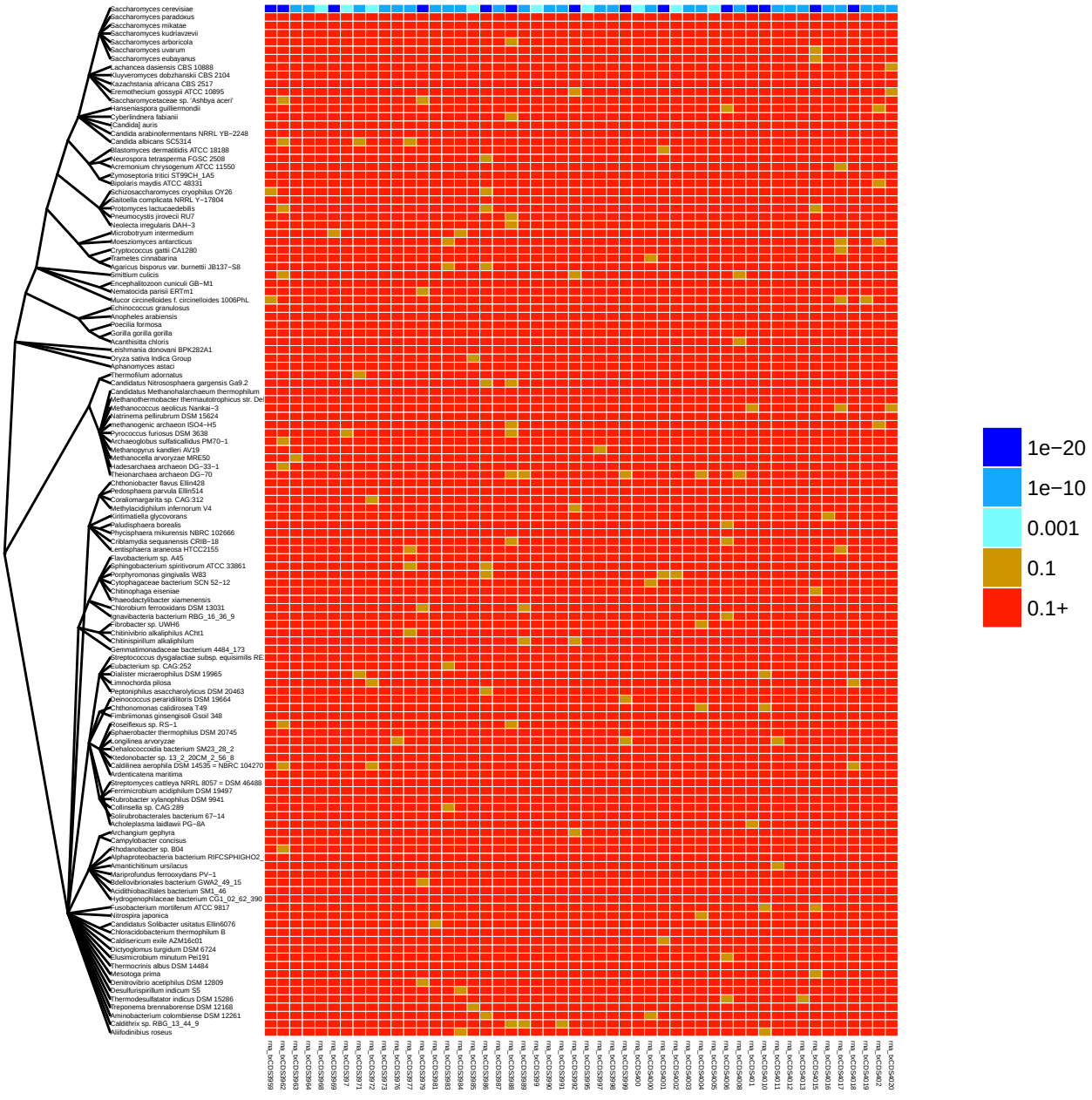

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

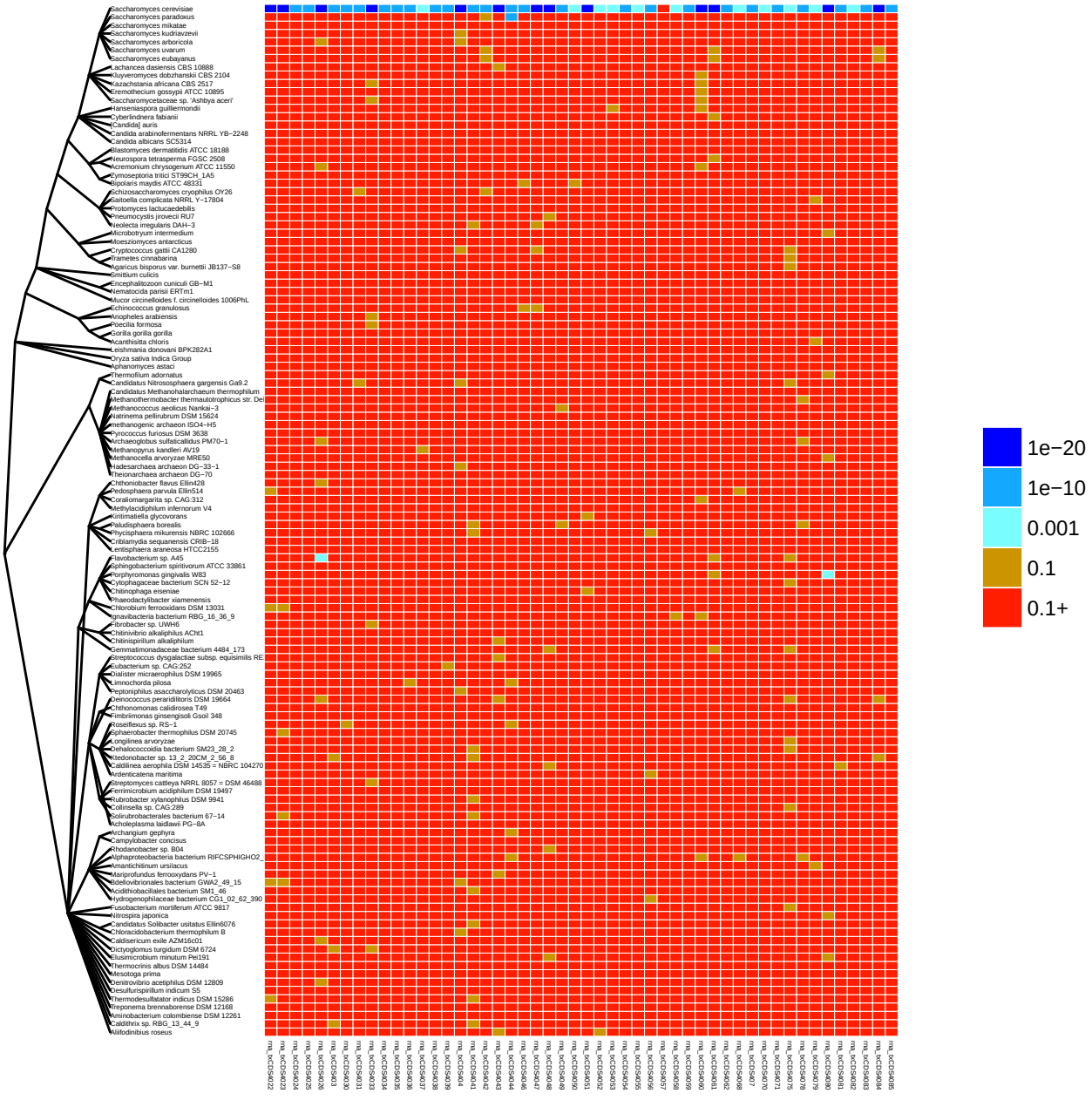

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiscerium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

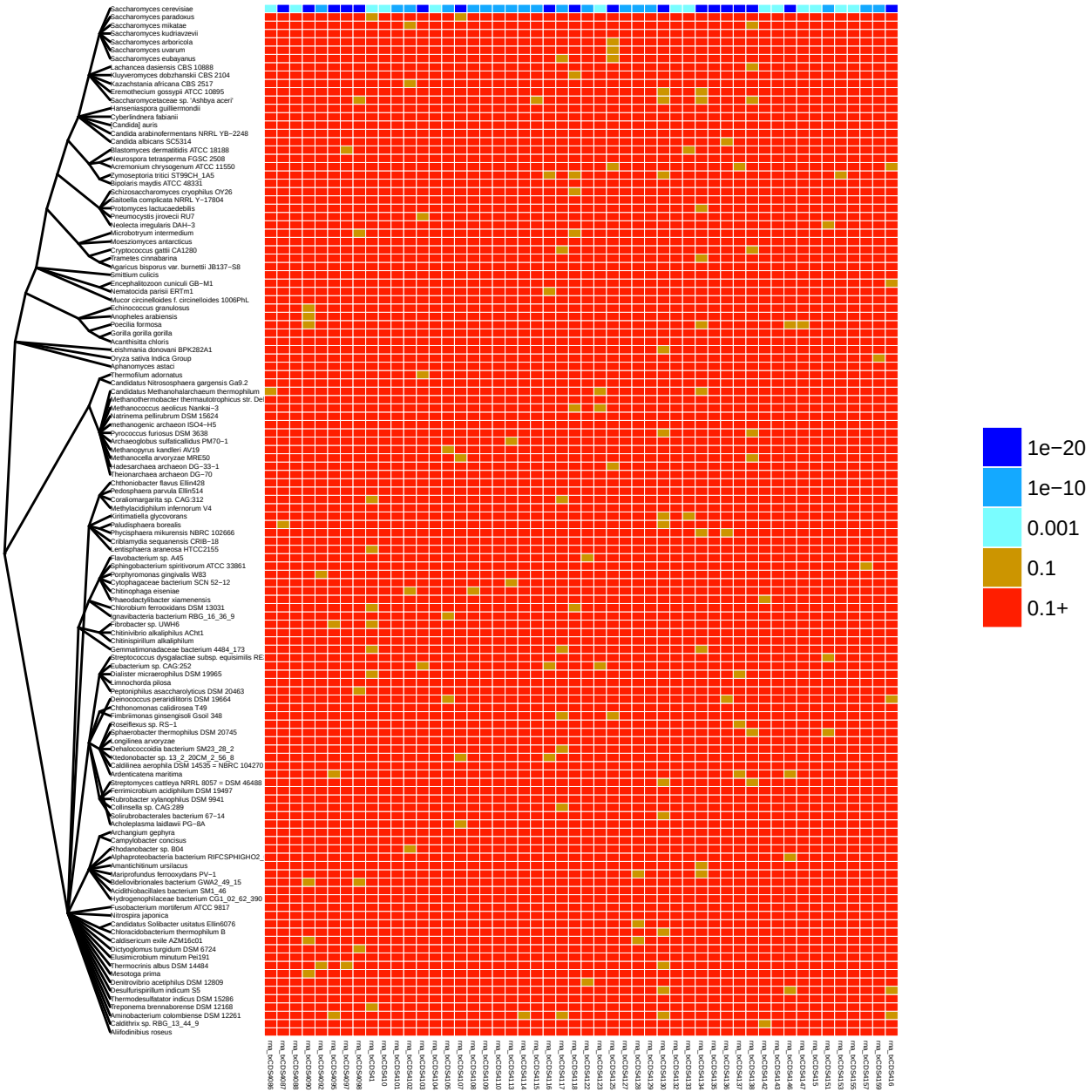

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
Ilyobacter polytropus DSM 2926
Ilyobacter polytropus DSM 2926

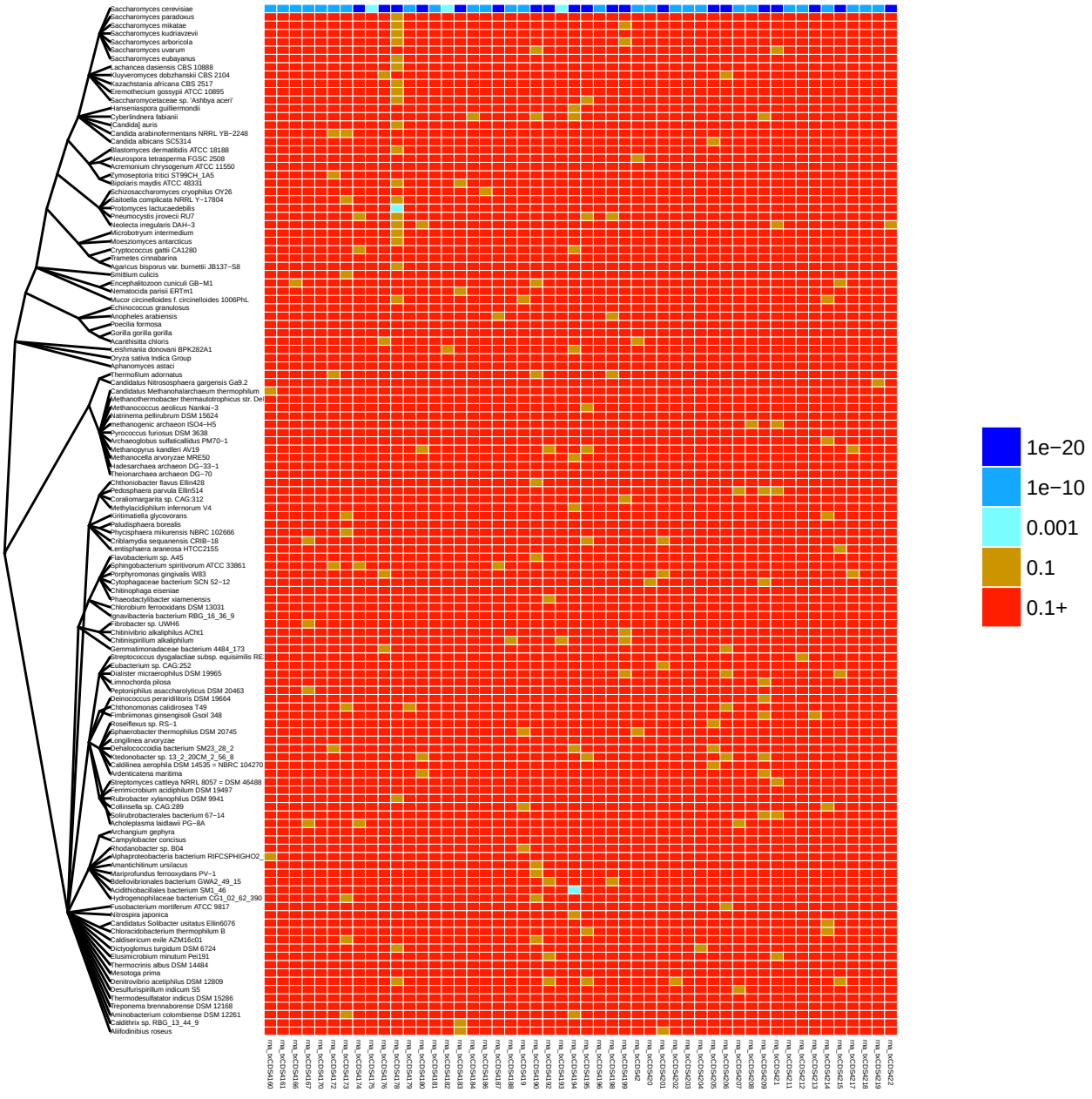

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinitrobius roseus
1e−20
1e−10
0.001
0.1
0.1+

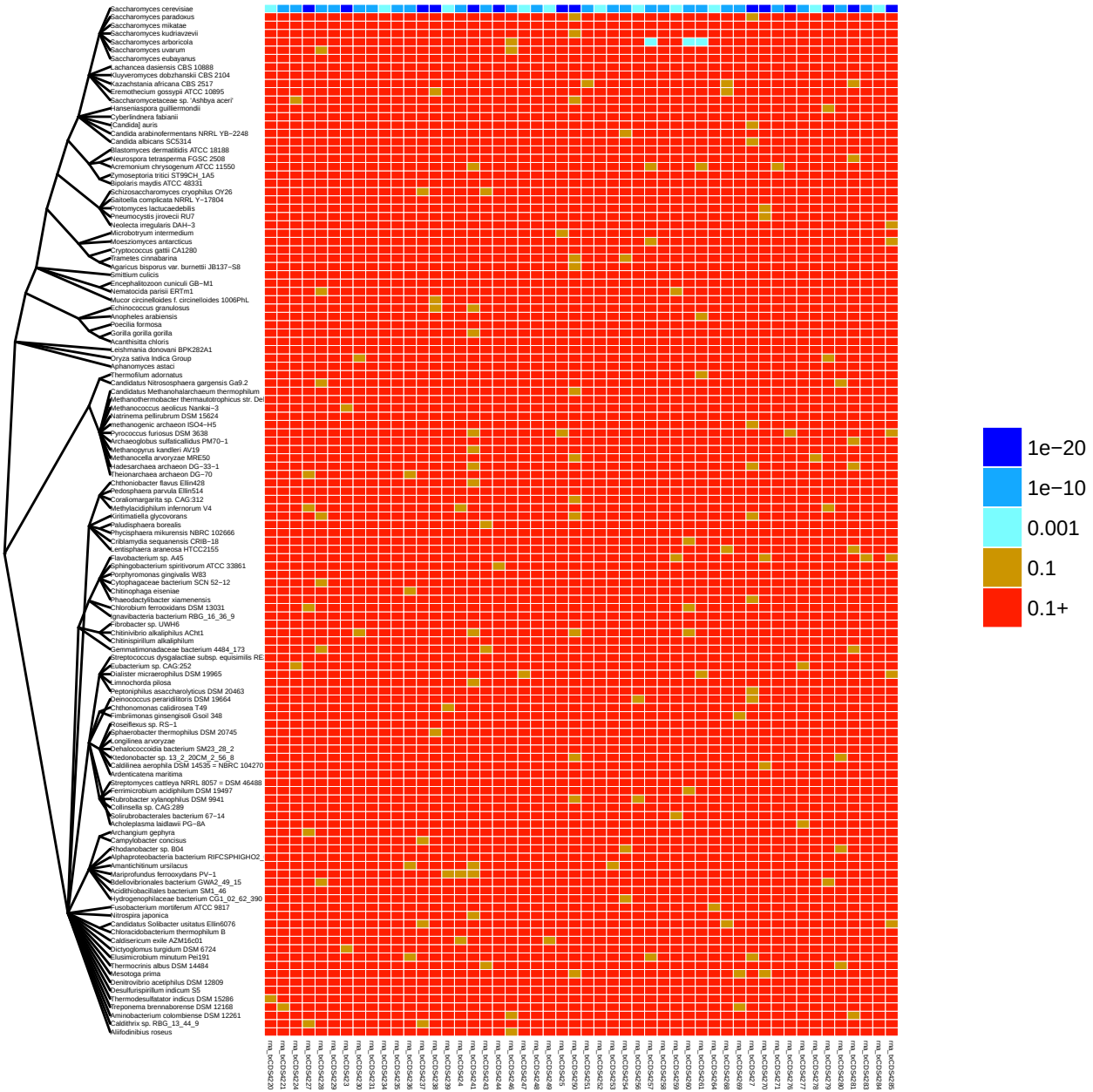

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

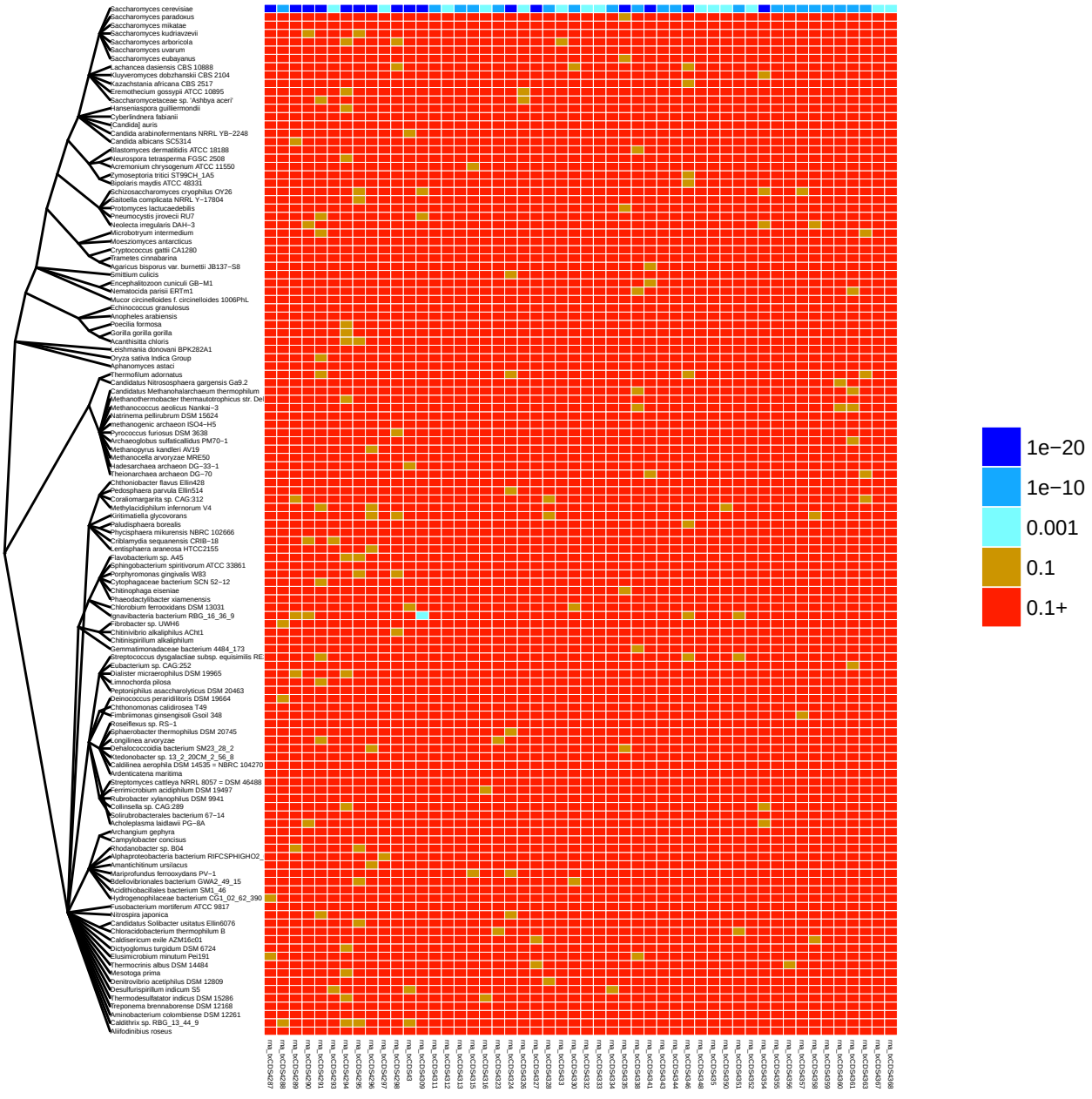

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

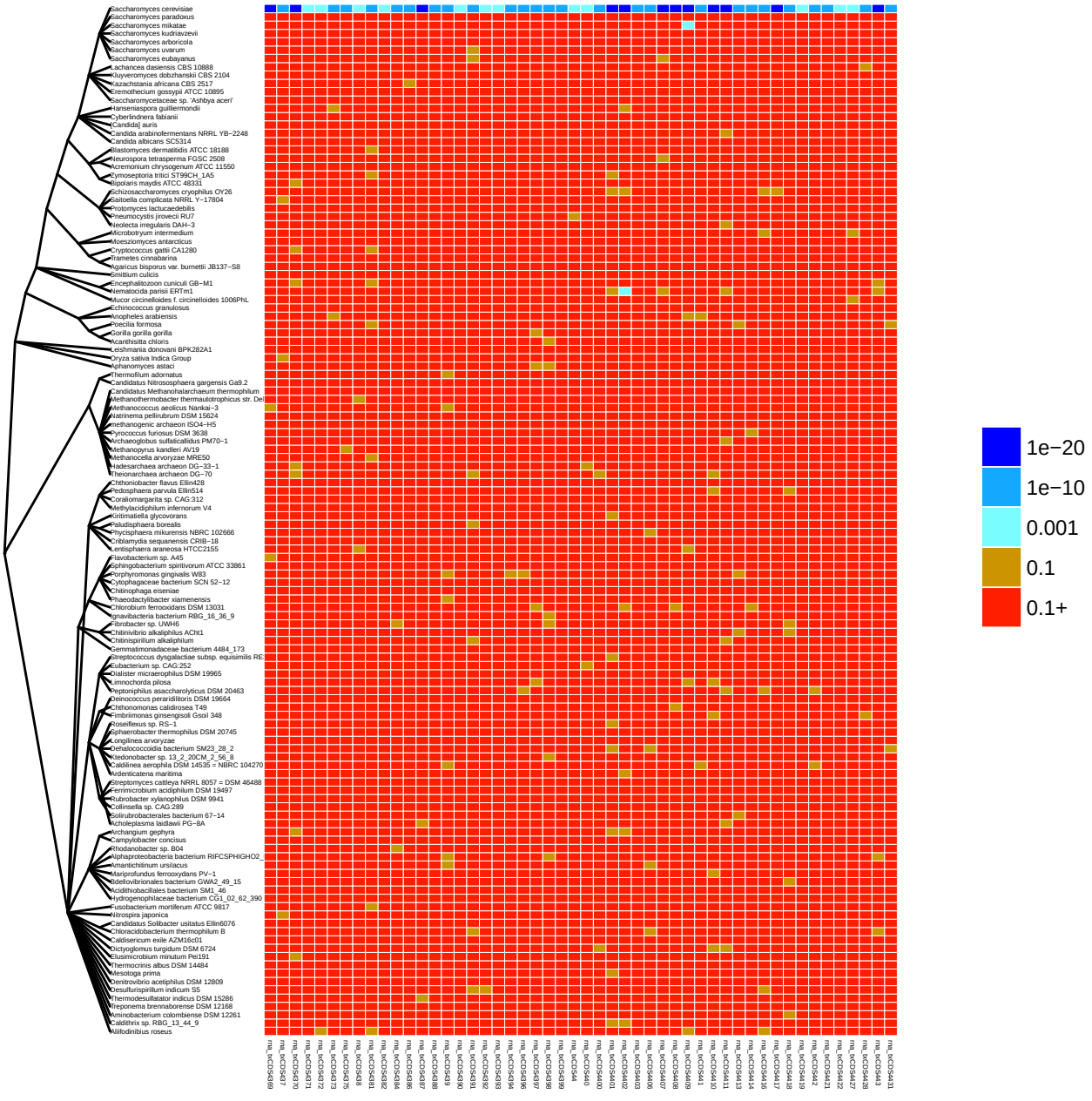

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

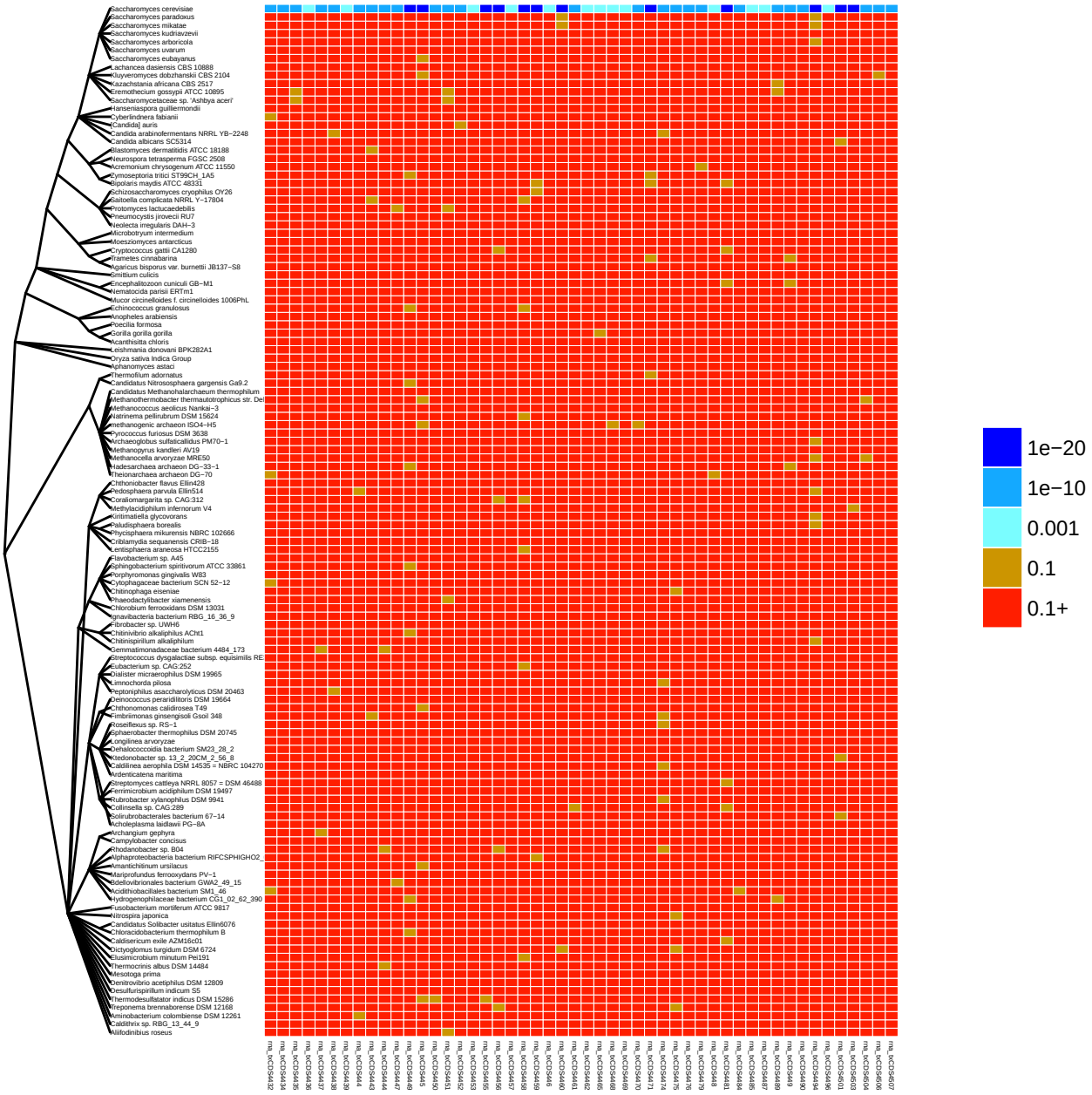

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Kiritimatiellaeota bacterium SM23_32_1
Candidatus Latescibacteria bacterium RIFCSPLOW2
Candidatus Omnitrophica bacterium RIFCSPHIGHO2
Candidatus Parcubacteria bacterium RIFCSPLOW2
Candidatus Saccharibacteria bacterium RIFCSPLOW2
Candidatus Tenericutes bacterium RIFCSPLOW2
Candidatus Tenericutes bacterium RIFCSPHIGHO

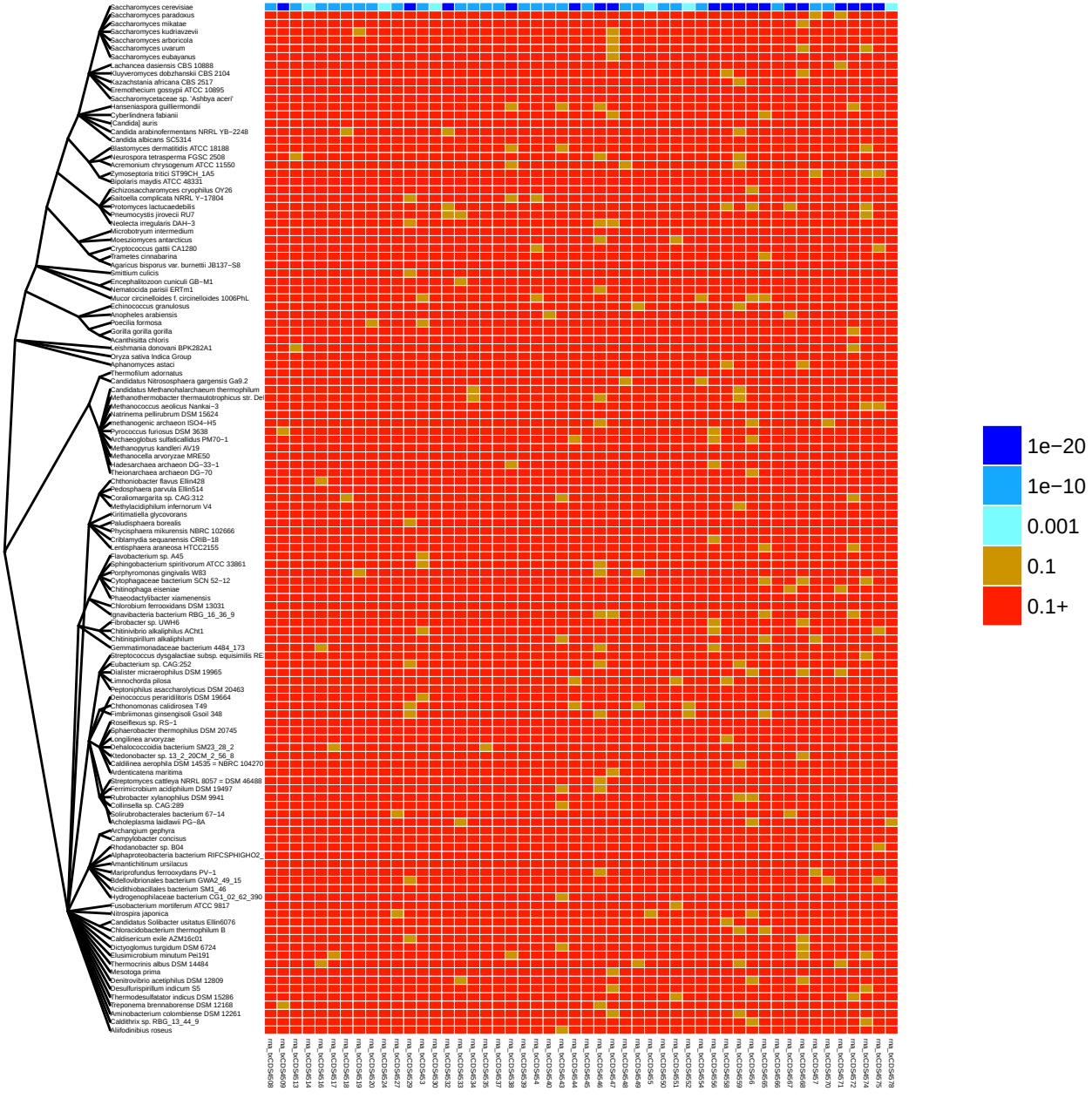

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

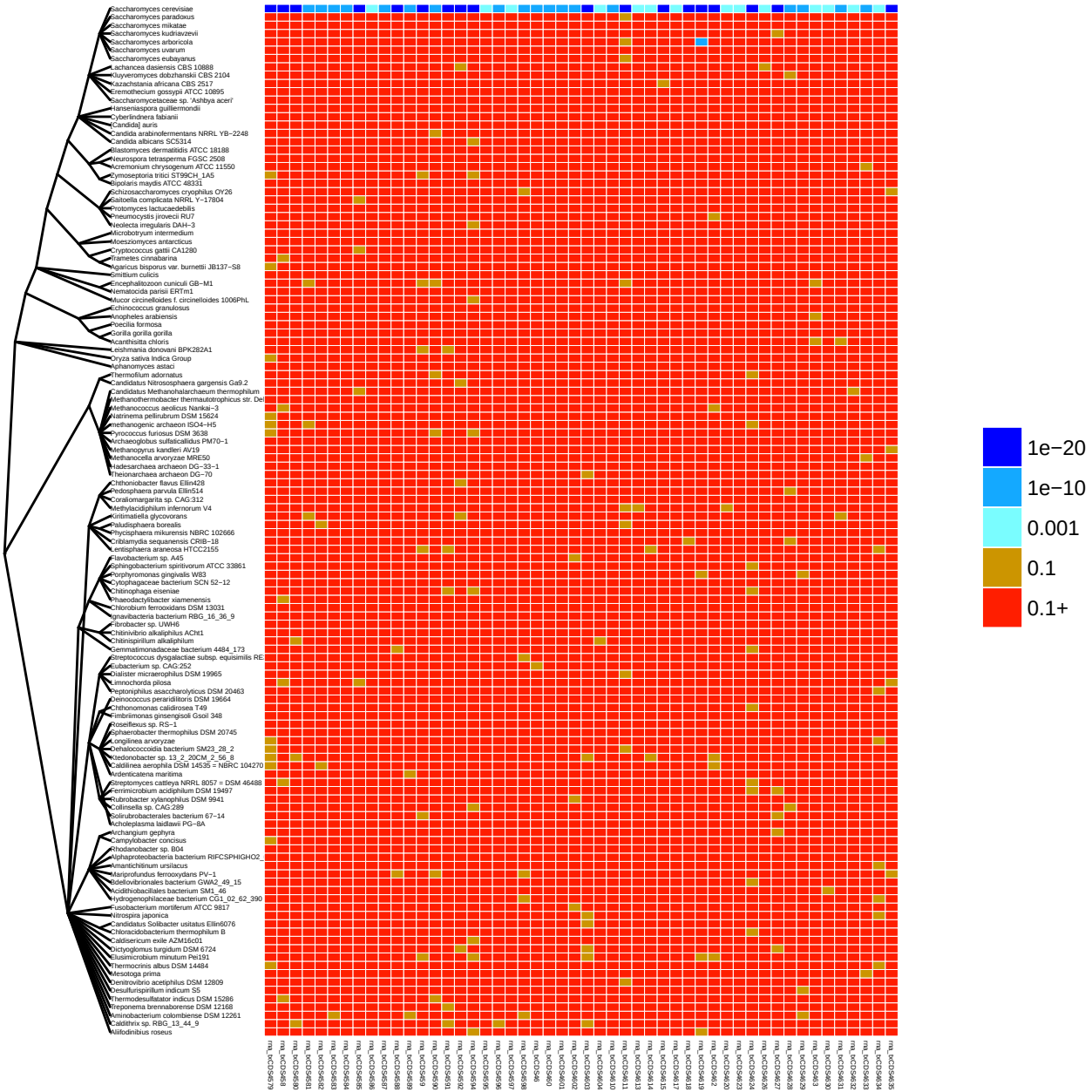

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

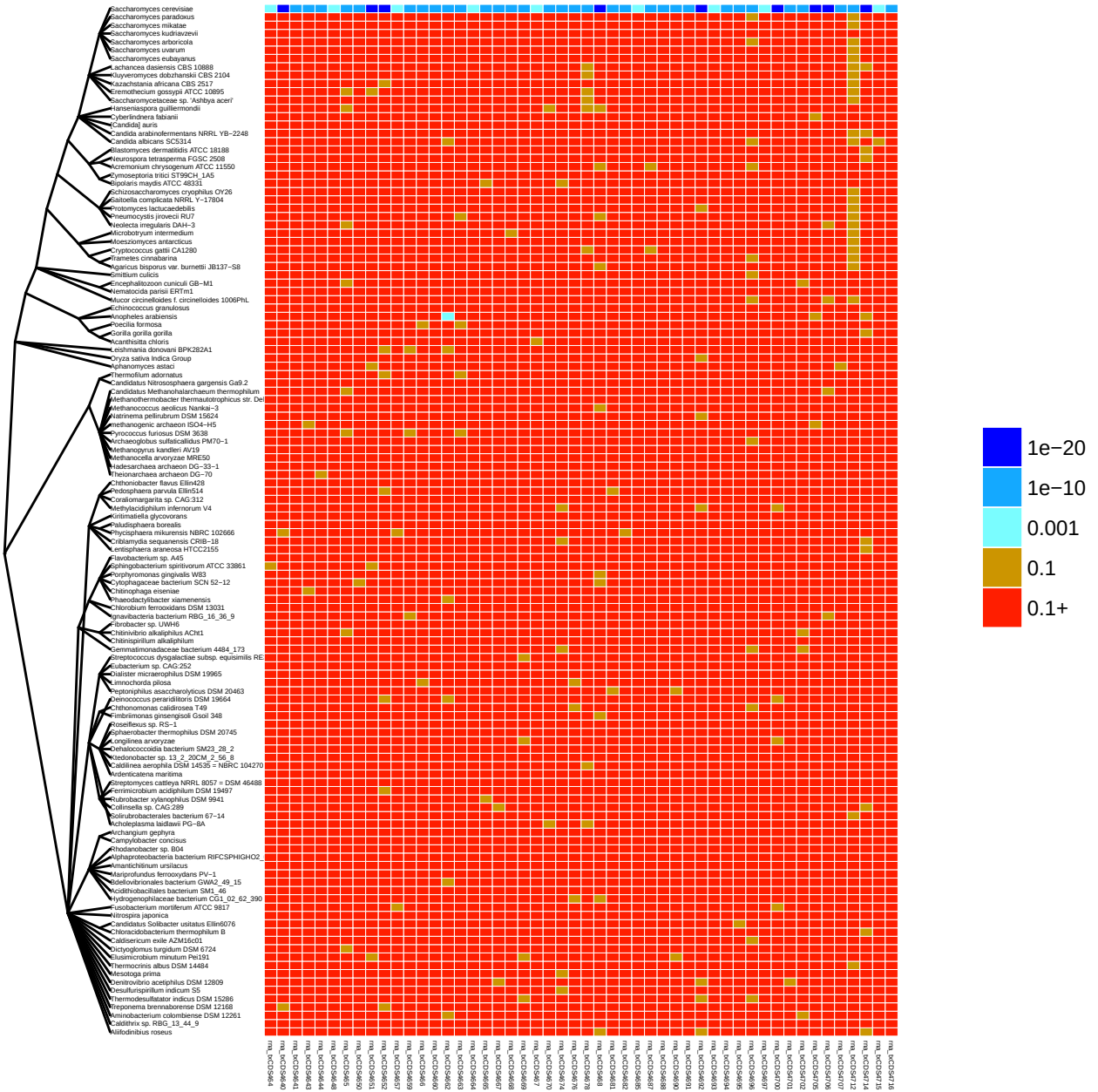

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

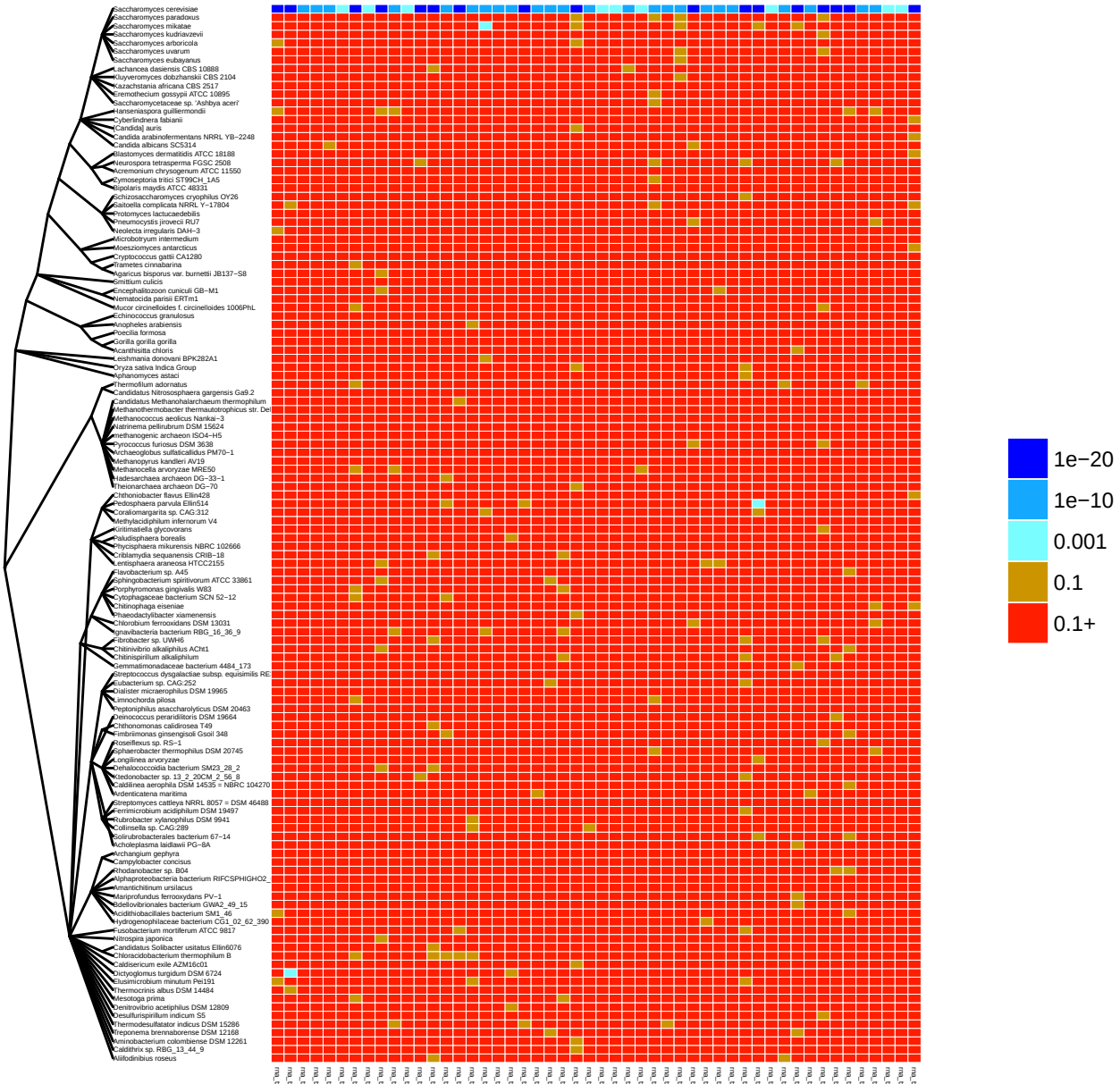

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_bCDS4269
mu_bCDS4277
mu_bCDS4370
mu_bCDS4371
mu_bCDS4372
mu_bCDS4373
mu_bCDS4375
mu_bCDS4381
mu_bCDS4382
mu_bCDS4384
mu_bCDS4386
mu_bCDS4387
mu_bCDS4388
mu_bCDS4389
mu_bCDS4390
mu_bCDS4391
mu_bCDS4392
mu_bCDS4393
mu_bCDS4394
mu_bCDS4396
mu_bCDS4397
mu_bCDS4398
mu_bCDS4399
mu_bCDS4400
mu_bCDS4401
mu_bCDS4402
mu_bCDS4403
mu_bCDS4406
mu_bCDS4407
mu_bCDS4408
mu_bCDS4409
mu_bCDS4411
mu_bCDS4410
mu_bCDS4413
mu_bCDS4414
mu_bCDS4416
mu_bCDS4417
mu_bCDS4418
mu_bCDS4419
mu_bCDS4421
mu_bCDS4422
mu_bCDS4427
mu_bCDS4428
mu_bCDS4431
mu_bCDS4431
1e−20
1e−10
0.001
0.1
0.1+

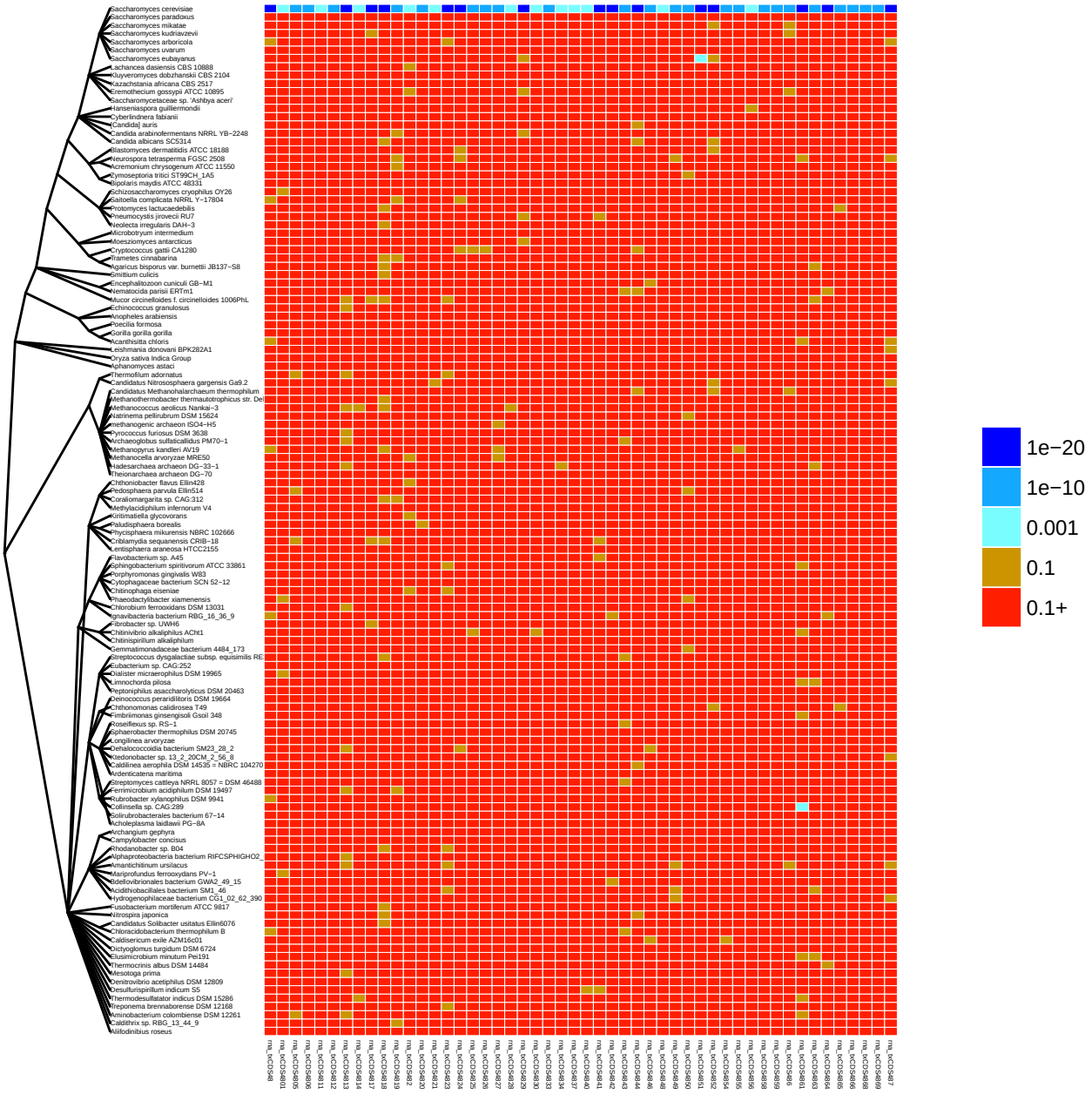

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_bCDS4432
mu_bCDS4434
mu_bCDS4435
mu_bCDS4436
mu_bCDS4437
mu_bCDS4438
mu_bCDS4439
mu_bCDS4443
mu_bCDS4444
mu_bCDS4447
mu_bCDS4449
mu_bCDS4450
mu_bCDS4451
mu_bCDS4452
mu_bCDS4453
mu_bCDS4455
mu_bCDS4456
mu_bCDS4457
mu_bCDS4458
mu_bCDS4459
mu_bCDS4460
mu_bCDS4461
mu_bCDS4462
mu_bCDS4465
mu_bCDS4468
mu_bCDS4469
mu_bCDS4470
mu_bCDS4471
mu_bCDS4474
mu_bCDS4475
mu_bCDS4476
mu_bCDS4479
mu_bCDS4480
mu_bCDS4481
mu_bCDS4484
mu_bCDS4486
mu_bCDS4487
mu_bCDS4489
mu_bCDS4490
mu_bCDS4494
mu_bCDS4496
mu_bCDS4501
mu_bCDS4503
mu_bCDS4504
mu_bCDS4505
mu_bCDS4507
1e−20
1e−10
0.001
0.1
0.1+

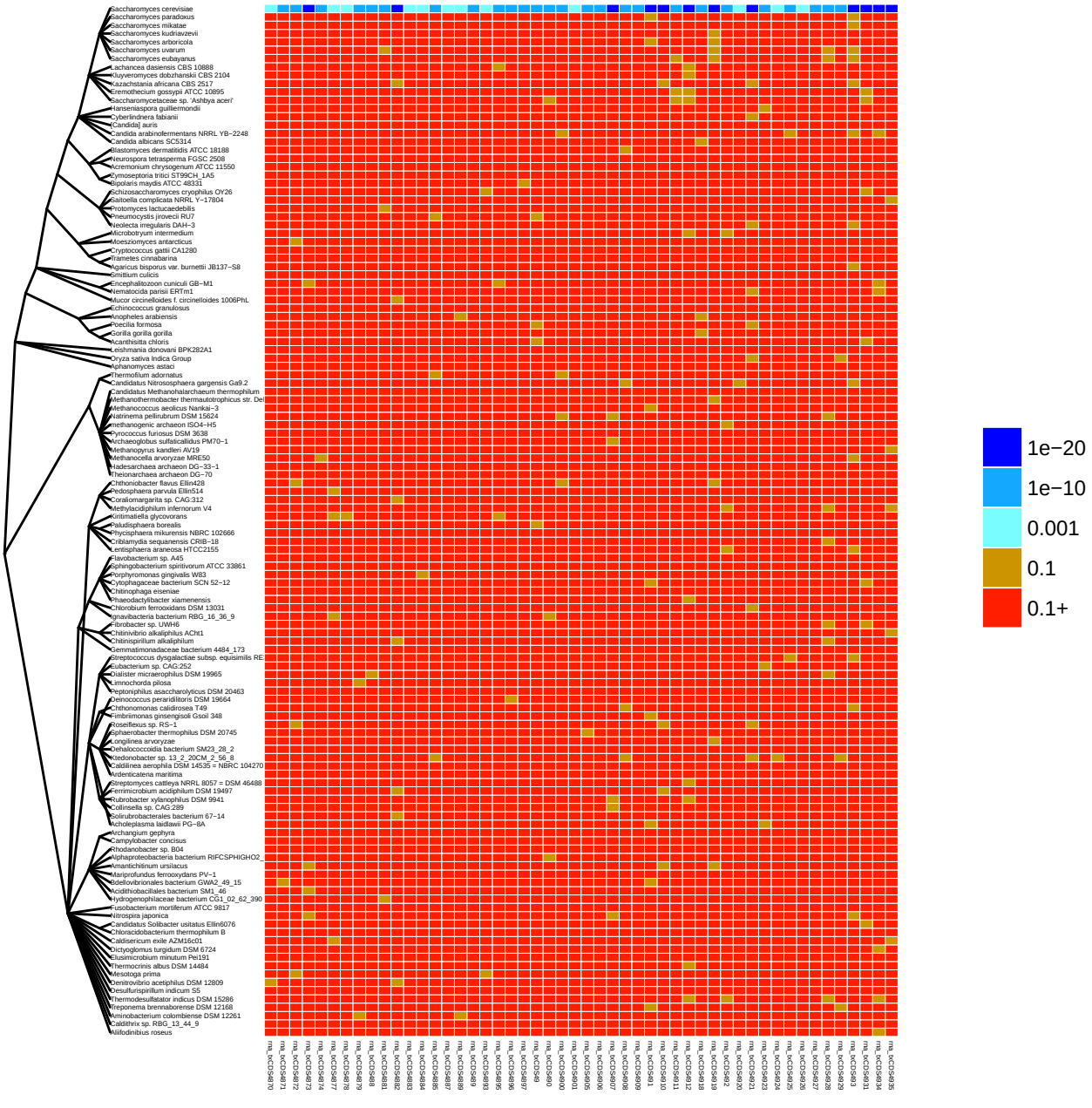

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
1e−20
1e−10
0.001
0.1
0.1+

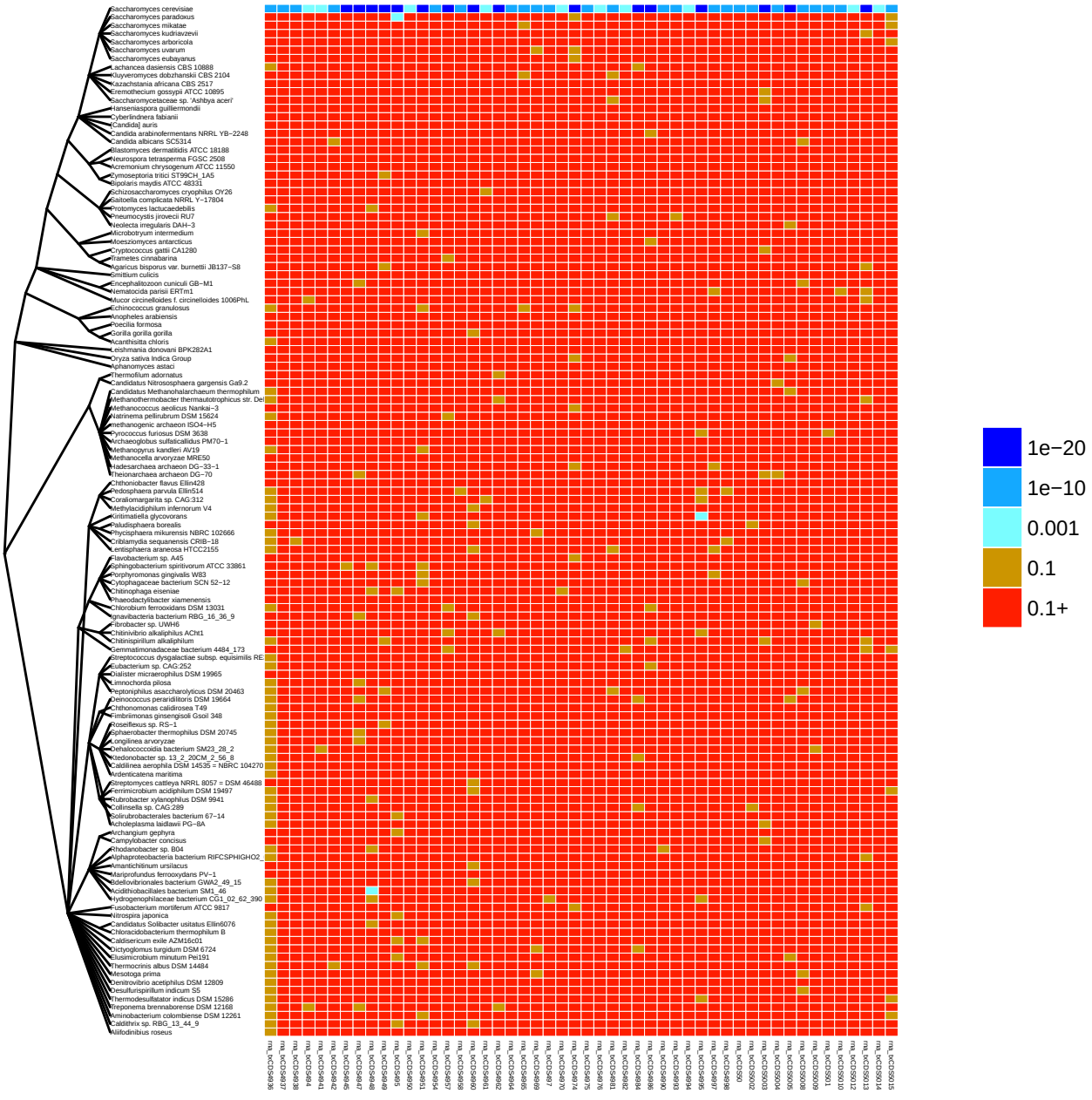

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

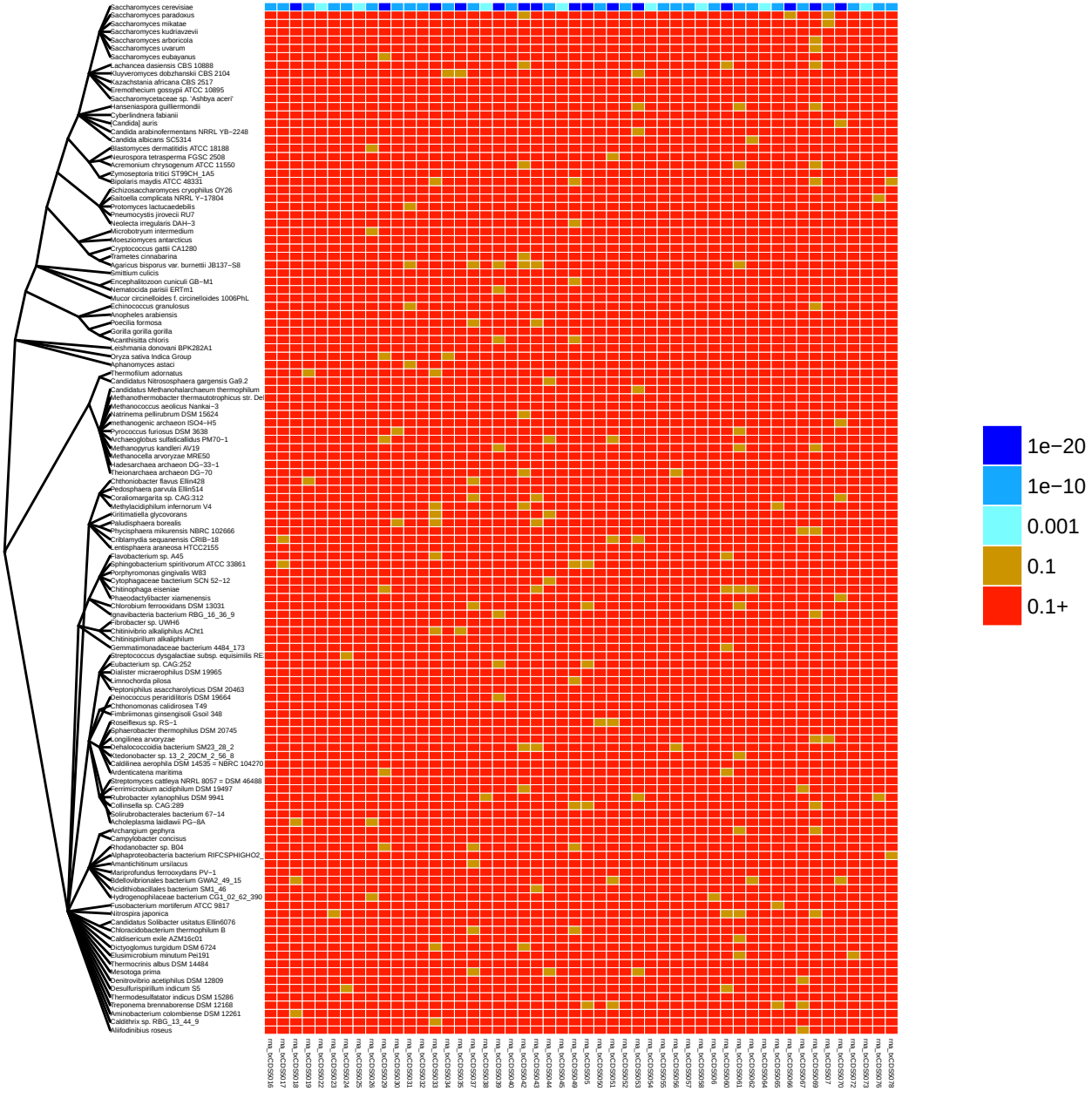

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

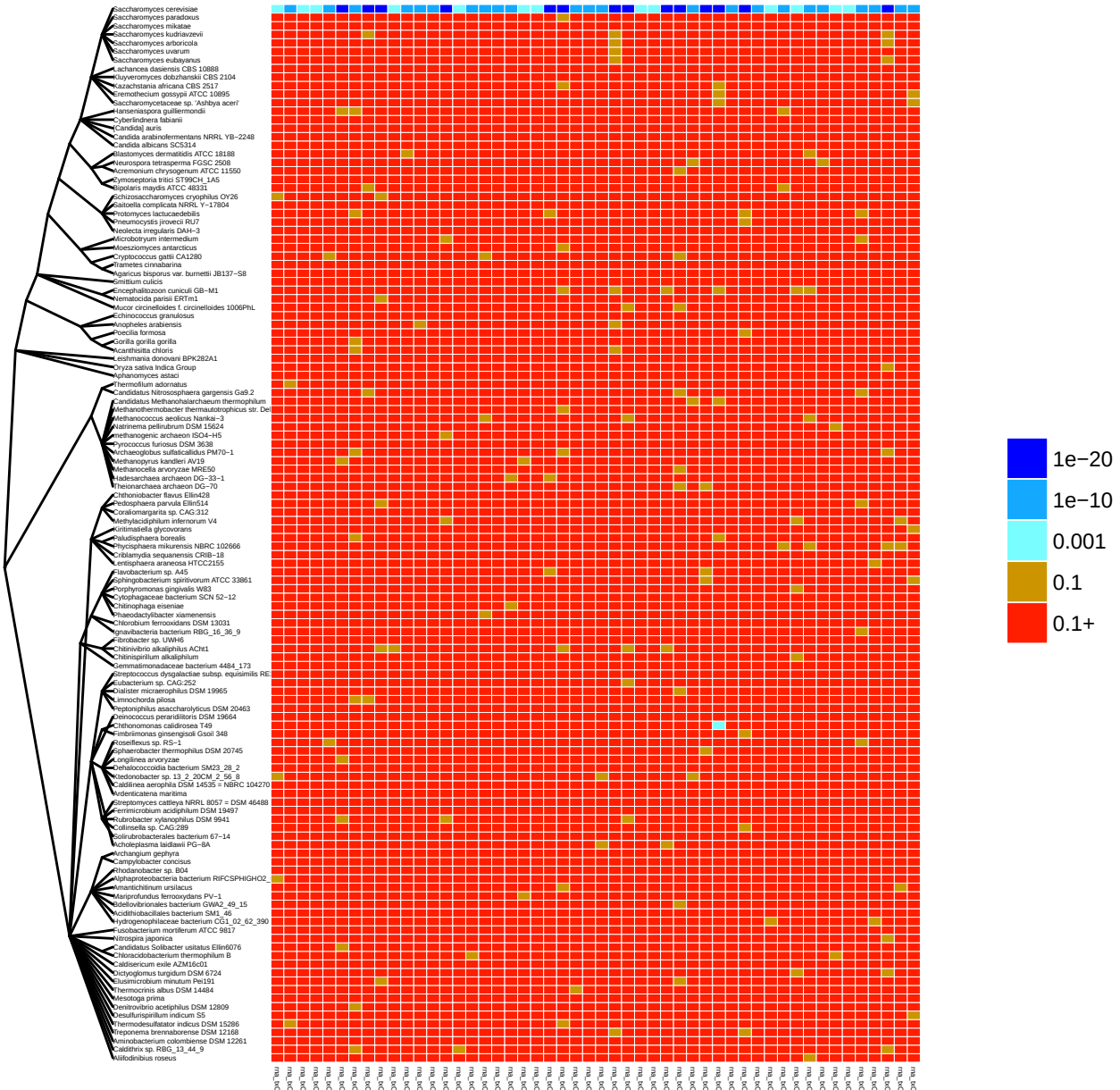

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermotoga adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

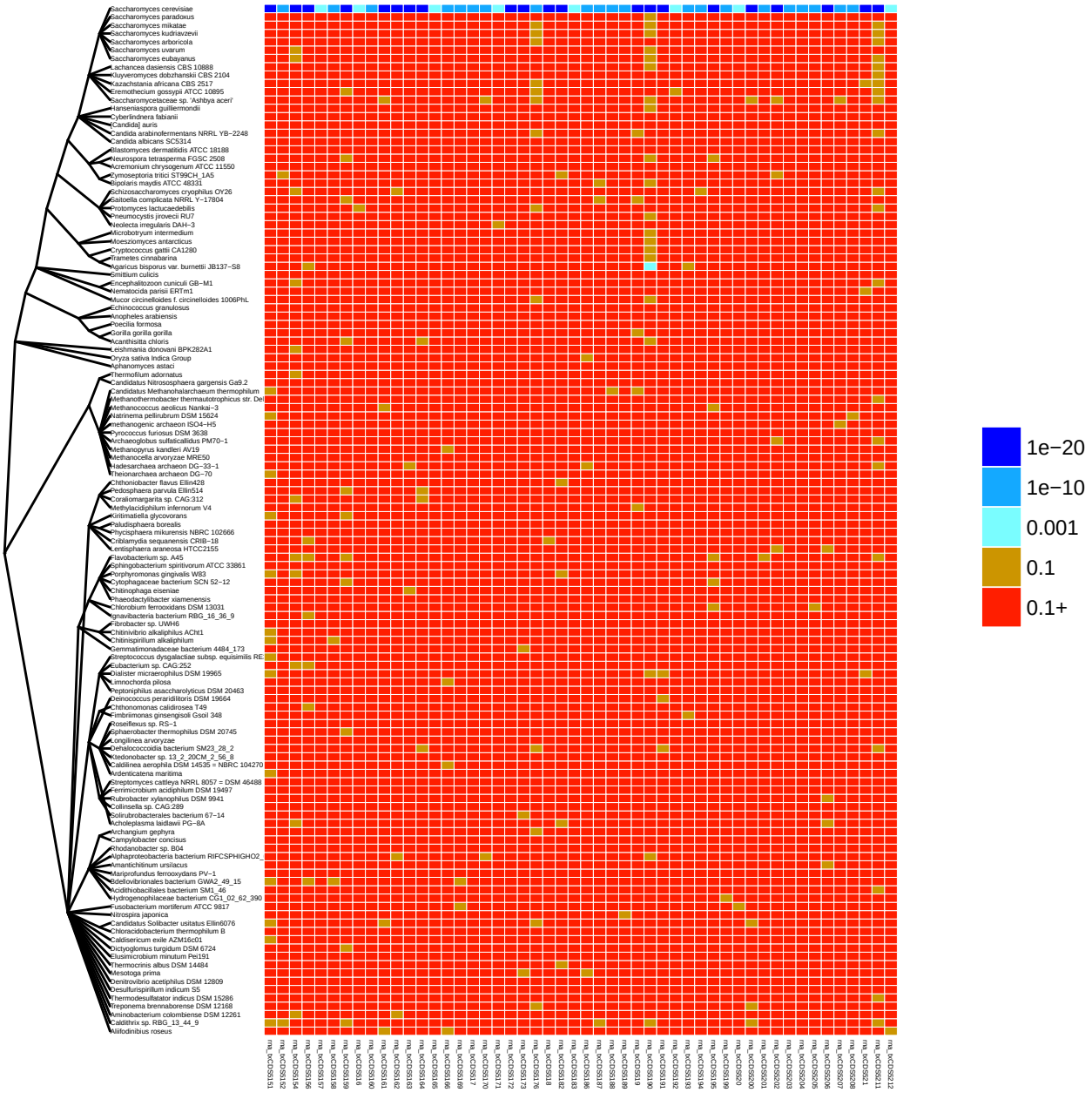

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
mu_bCS2846
mu_bCS2801
mu_bCS2805
mu_bCS2806
mu_bCS2811
mu_bCS2812
mu_bCS2813
mu_bCS2814
mu_bCS2817
mu_bCS2818
mu_bCS2819
mu_bCS2821
mu_bCS2820
mu_bCS2823
mu_bCS2824
mu_bCS2825
mu_bCS2826
mu_bCS2827
mu_bCS2828
mu_bCS2829
mu_bCS2830
mu_bCS2833
mu_bCS2834
mu_bCS2837
mu_bCS2840
mu_bCS2841
mu_bCS2842
mu_bCS2843
mu_bCS2844
mu_bCS2846
mu_bCS2848
mu_bCS2849
mu_bCS2850
mu_bCS2851
mu_bCS2852
mu_bCS2854
mu_bCS2855
mu_bCS2856
mu_bCS2858
mu_bCS2859
mu_bCS2861
mu_bCS2863
mu_bCS2864
mu_bCS2865
mu_bCS2866
mu_bCS2868
mu_bCS2869
mu_bCS2871
mu_bCS2872
1e−20
1e−10
0.001
0.1
0.1+

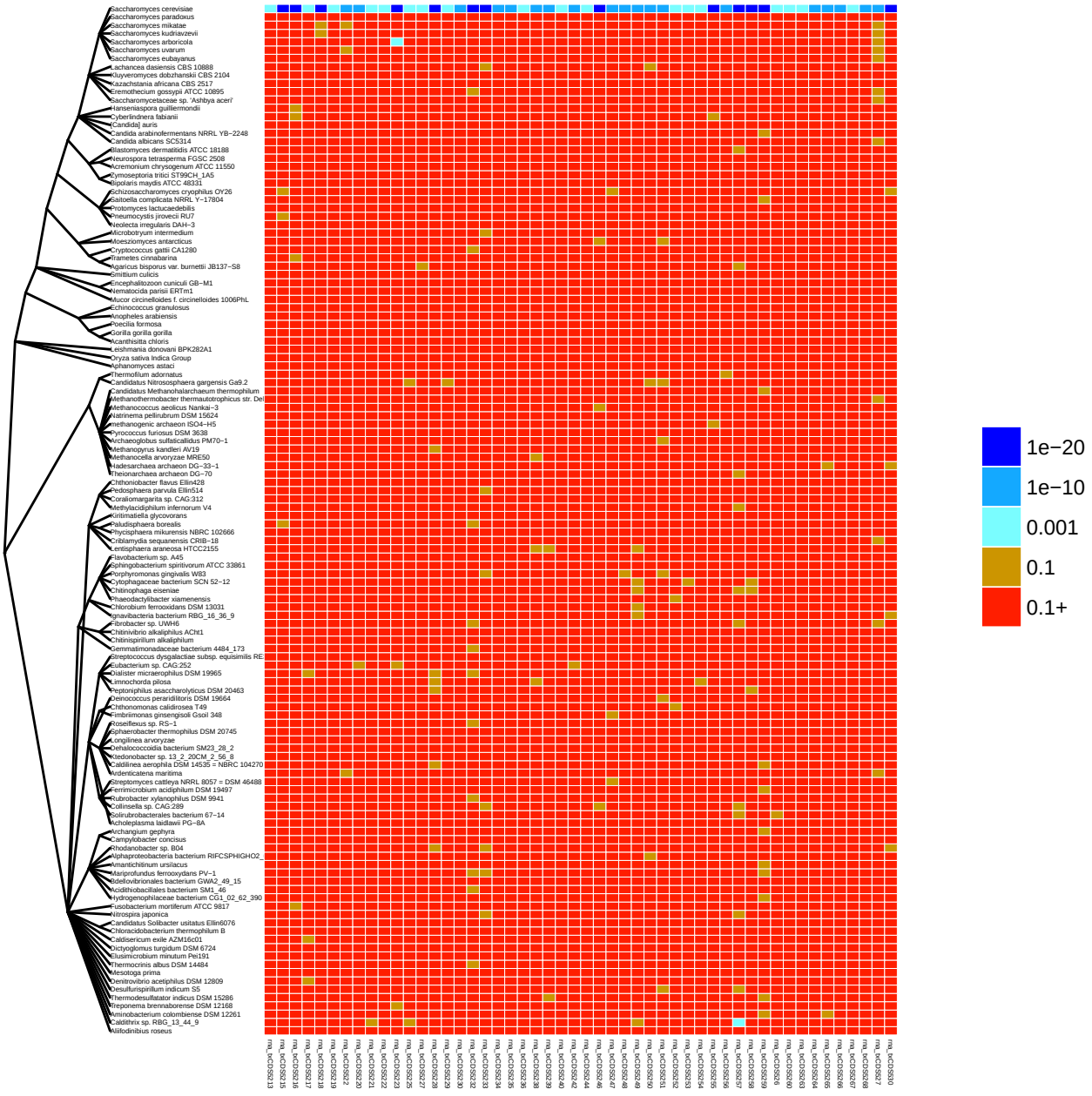

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Kiritimatiellaeota bacterium SM23_54_3
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
1e−20
1e−10
0.001
0.1
0.1+

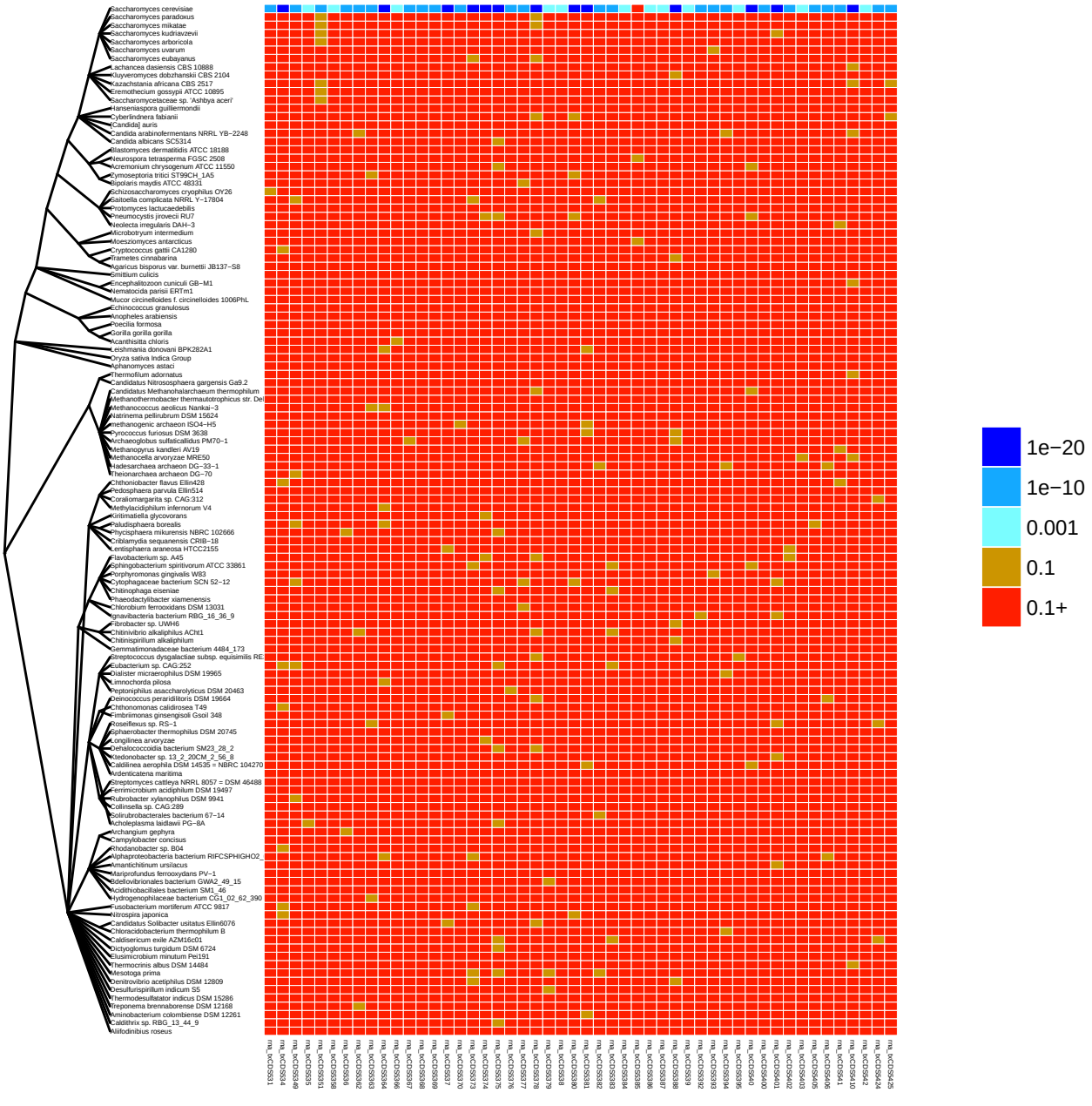

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

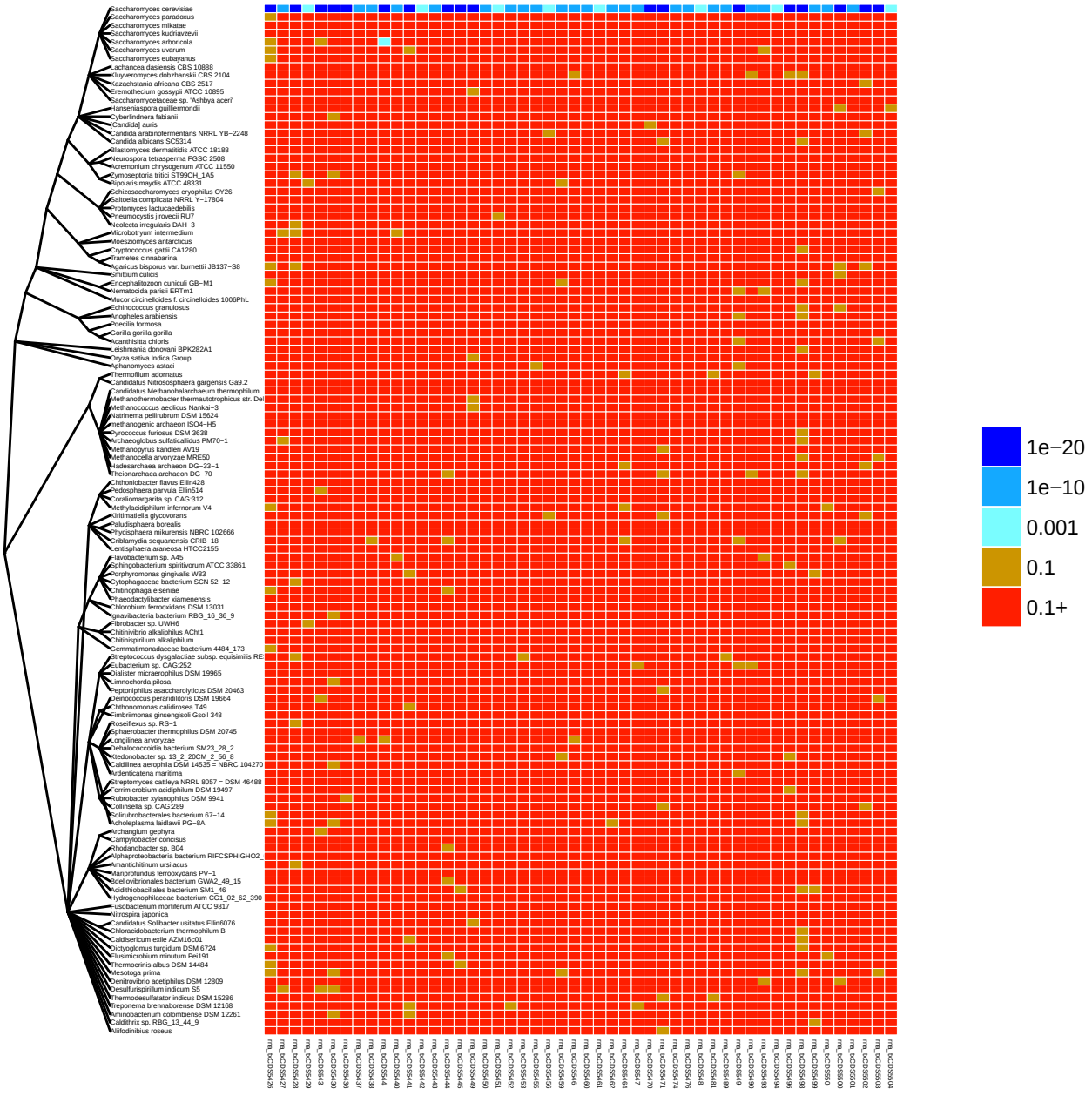

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

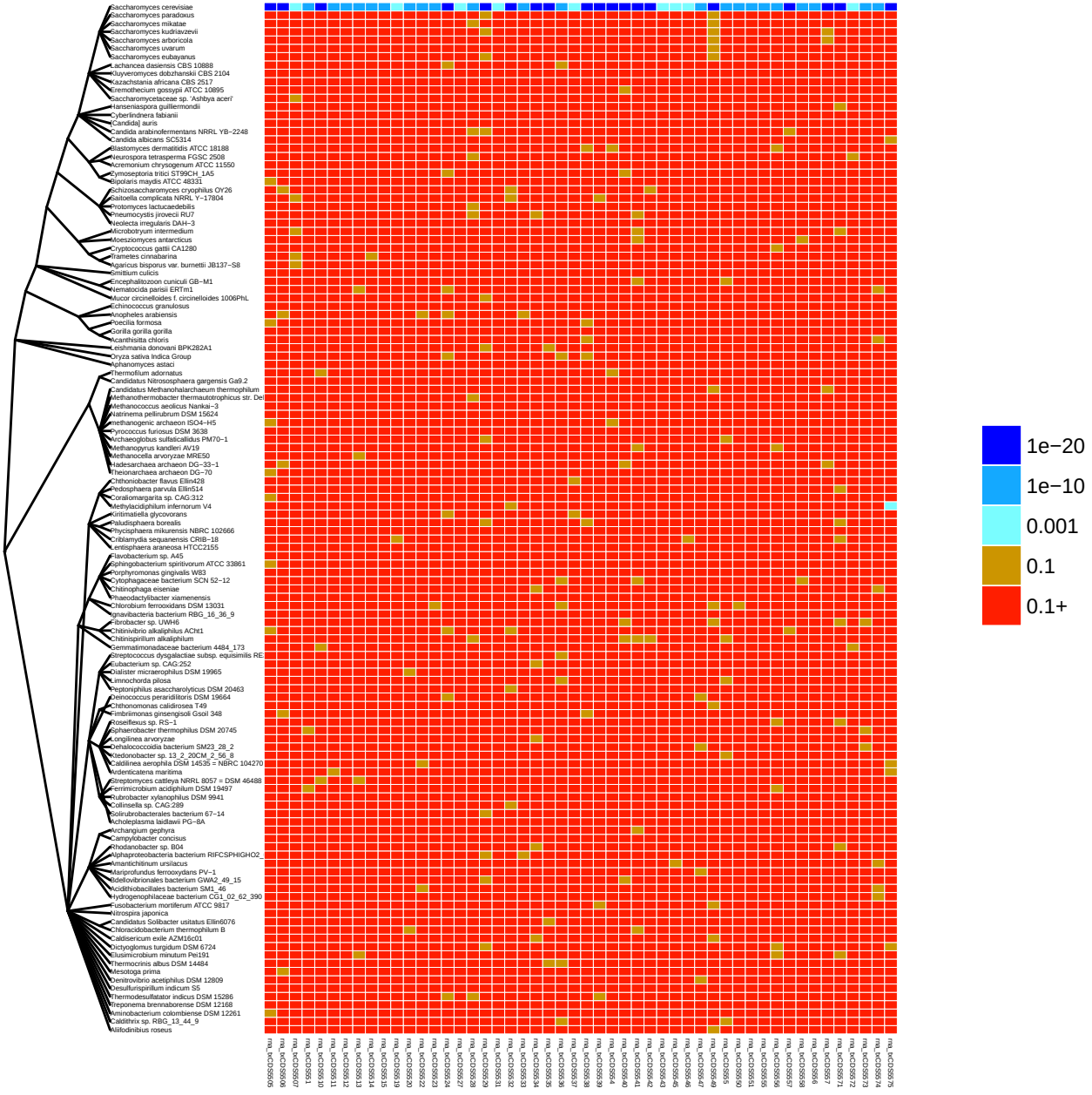

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
mu_oCDS0079
mu_oCDS0080
mu_oCDS0082
mu_oCDS0083
mu_oCDS0085
mu_oCDS0086
mu_oCDS0087
mu_oCDS0089
mu_oCDS0090
mu_oCDS0091
mu_oCDS0097
mu_oCDS0098
mu_oCDS0100
mu_oCDS0101
mu_oCDS0102
mu_oCDS0103
mu_oCDS0104
mu_oCDS0105
mu_oCDS0106
mu_oCDS0107
mu_oCDS0109
mu_oCDS0111
mu_oCDS0110
mu_oCDS0111
mu_oCDS0115
mu_oCDS0116
mu_oCDS0117
mu_oCDS0117
mu_oCDS0121
mu_oCDS0121
mu_oCDS0122
mu_oCDS0124
mu_oCDS0125
mu_oCDS0126
mu_oCDS0128
mu_oCDS0129
mu_oCDS0129
mu_oCDS0131
mu_oCDS0132
mu_oCDS0133
mu_oCDS0136
mu_oCDS0137
mu_oCDS0138
mu_oCDS0139
mu_oCDS0142
mu_oCDS0143
mu_oCDS0144
mu_oCDS0145
mu_oCDS0146
mu_oCDS0147
mu_oCDS0015
1e−20
1e−10
0.001
0.1
0.1+

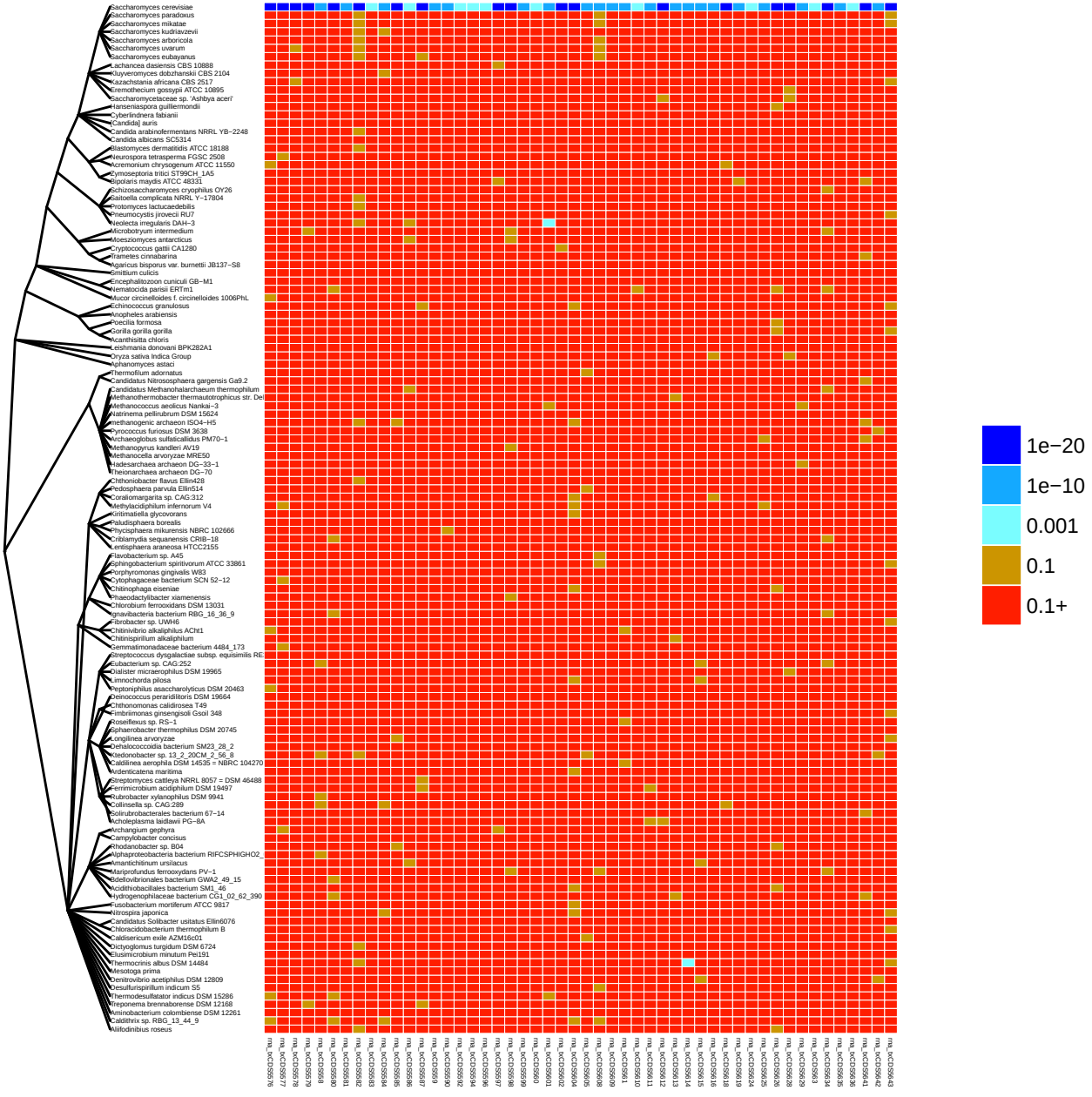

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

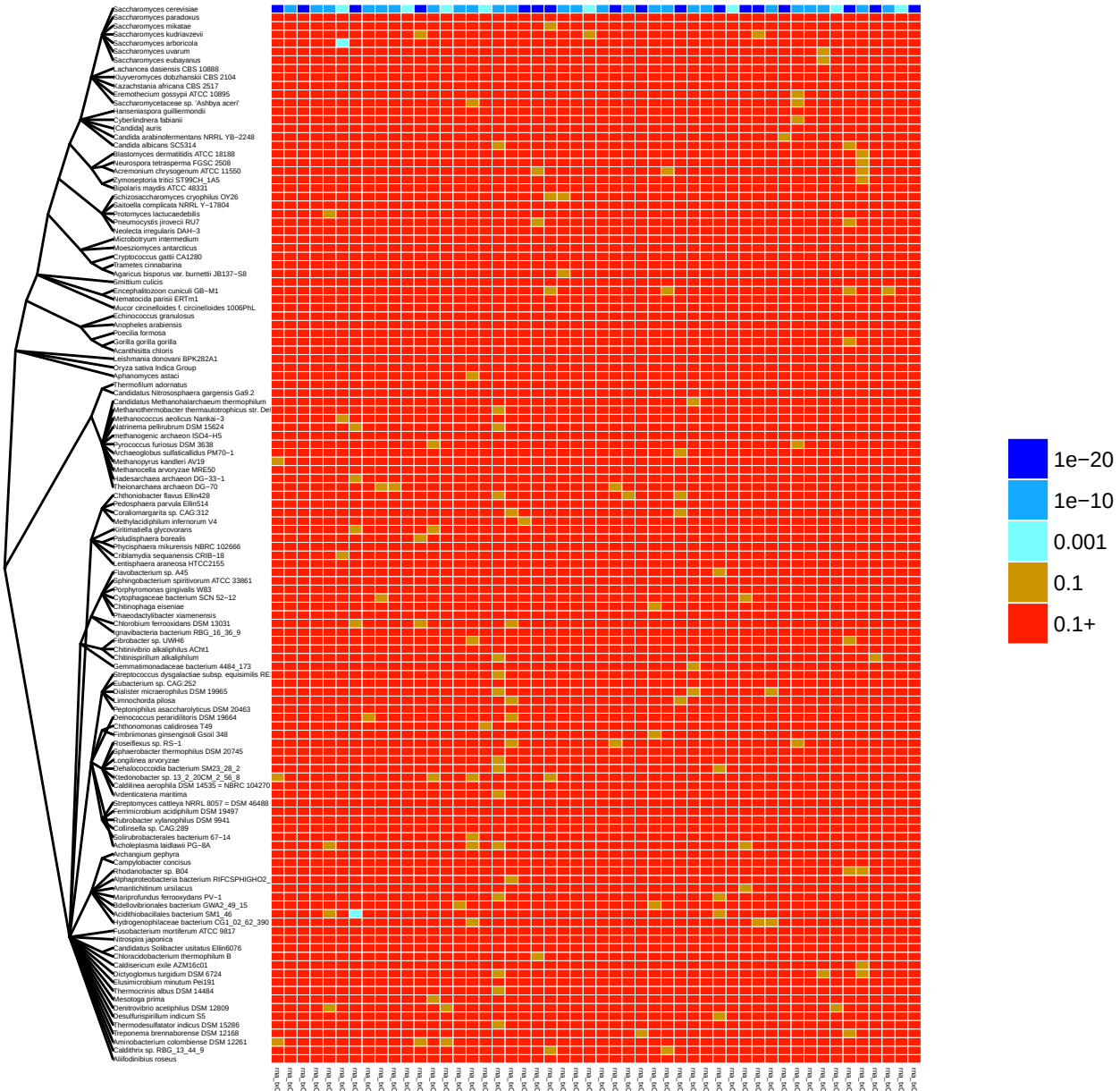

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

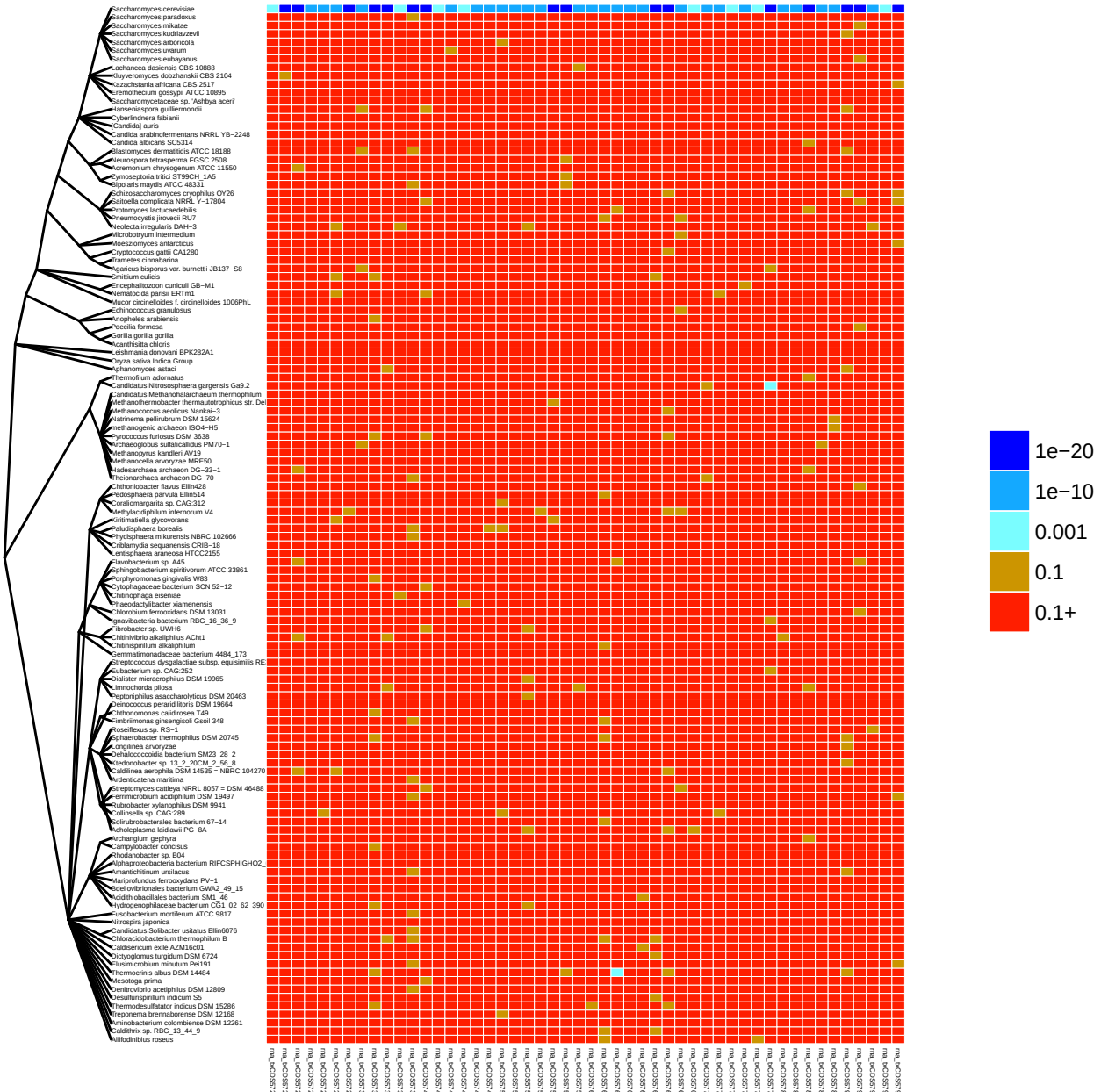

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens RIS616
Sporisorium reilianum SRZ2
Ustilago hordei UHOR−1
Ustilago maydis 521
Pseudozyma hubeiana
Pseudozyma antarctica T−34
Pseudozyma aphidis DSM 70171
Pseudozyma brasiliensis GHG001
Pseudozyma tsukubaensis
Pseudozyma parabrasiliensis
Pseudozyma rugulosa
Pseudozyma hubeiana
Pseudozyma aphidis
Pseudozyma antarctica

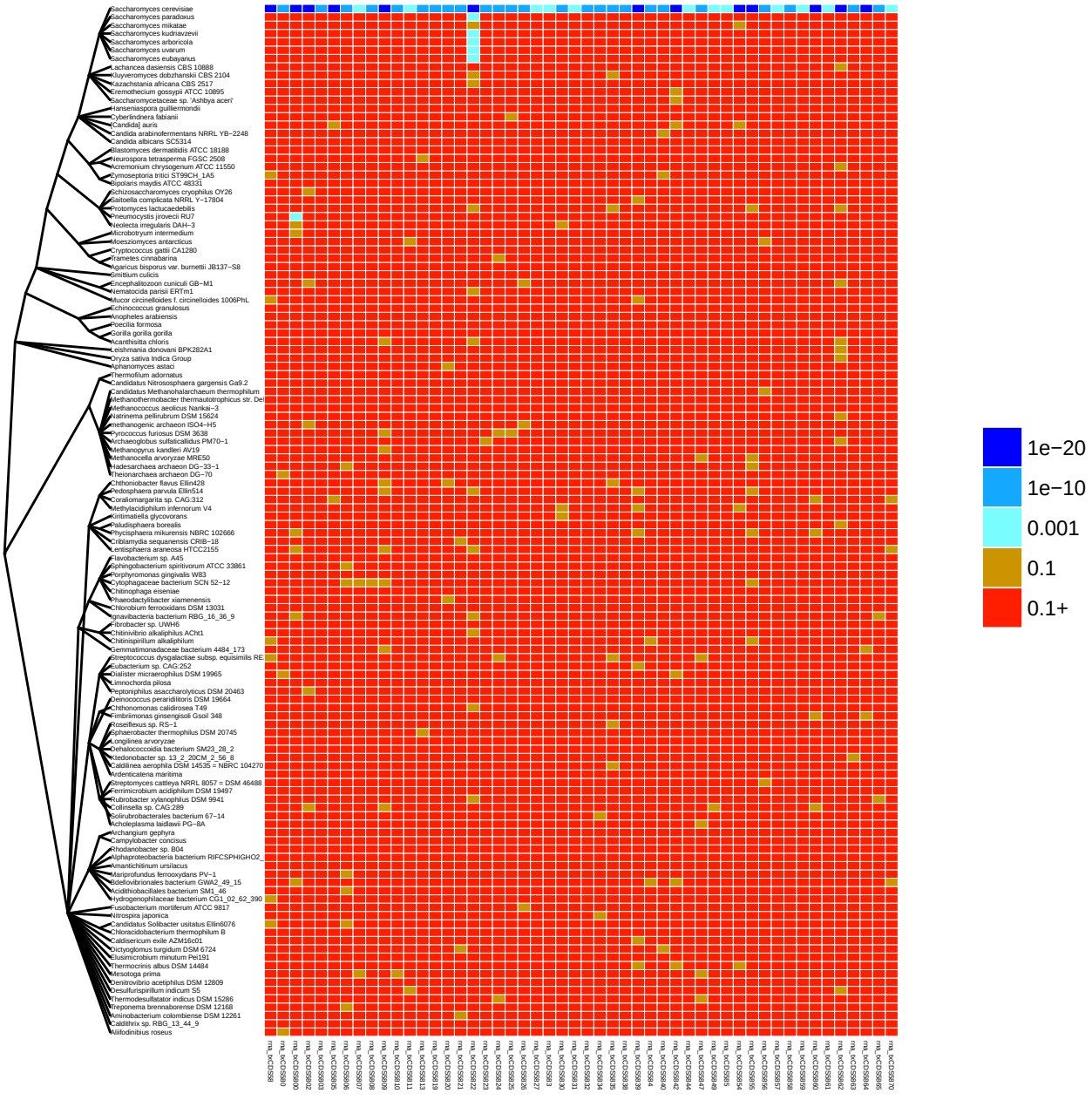

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

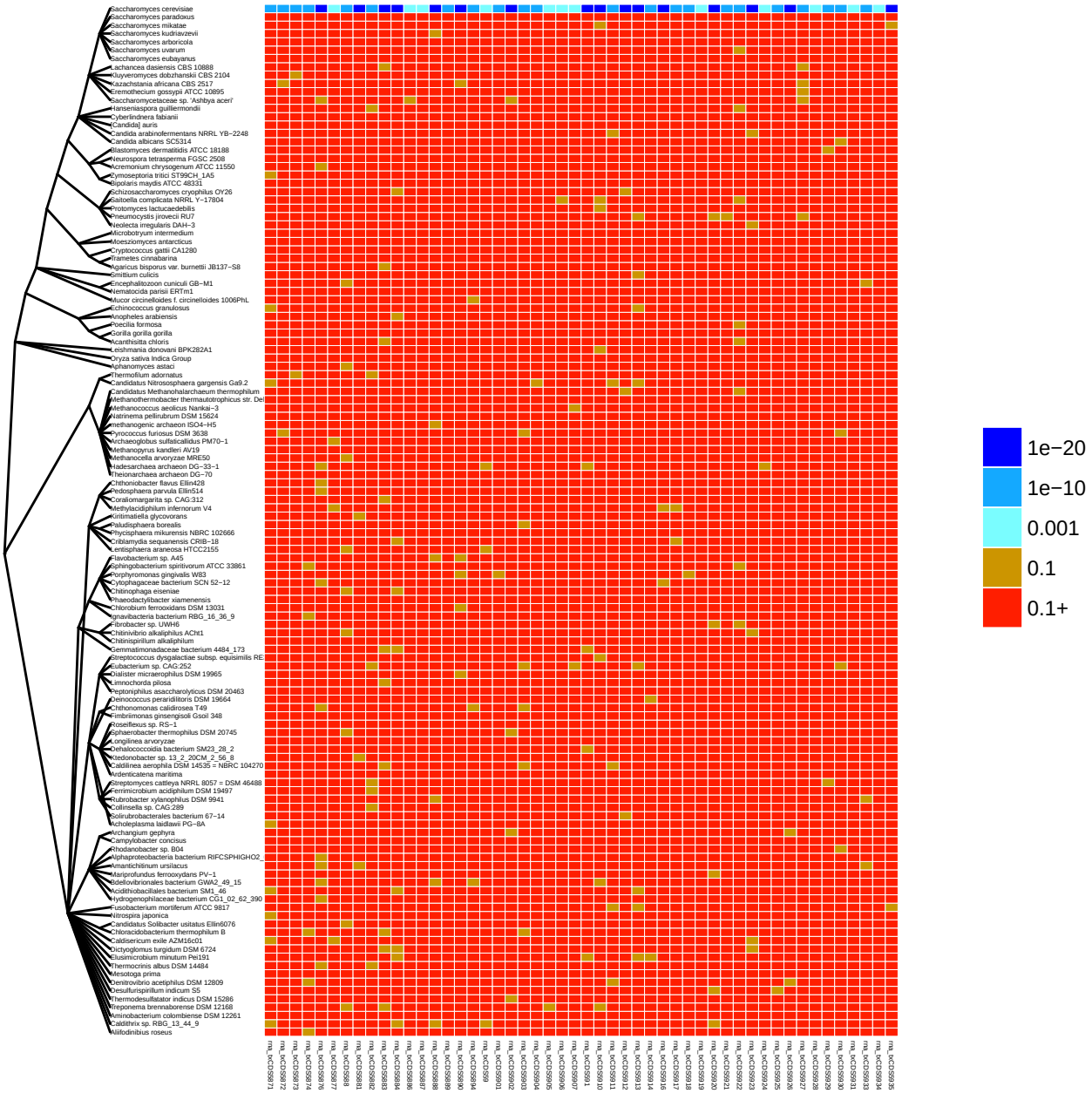

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans DSM 18814
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans DSM 18814
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xenodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaboronse DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

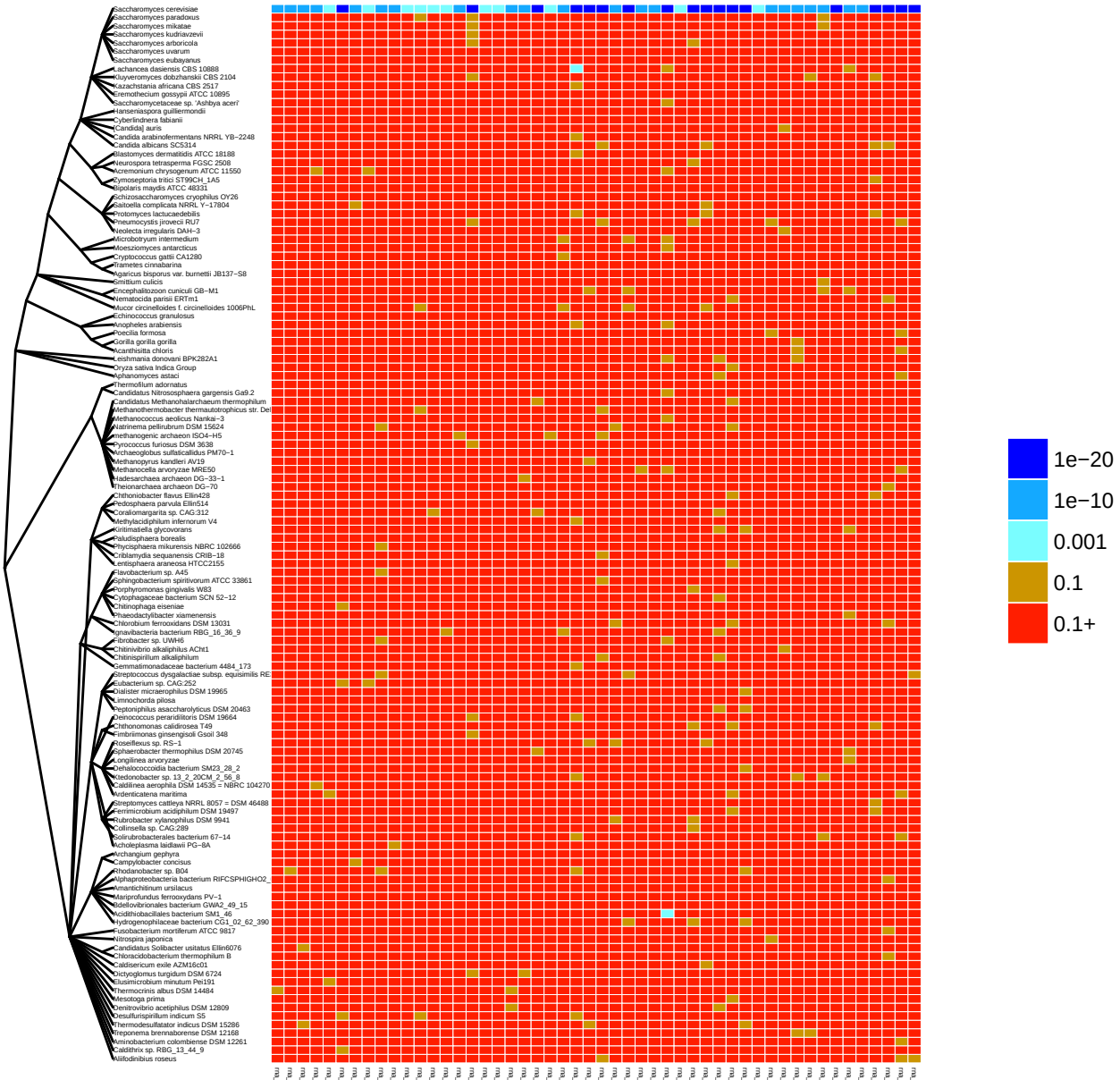

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

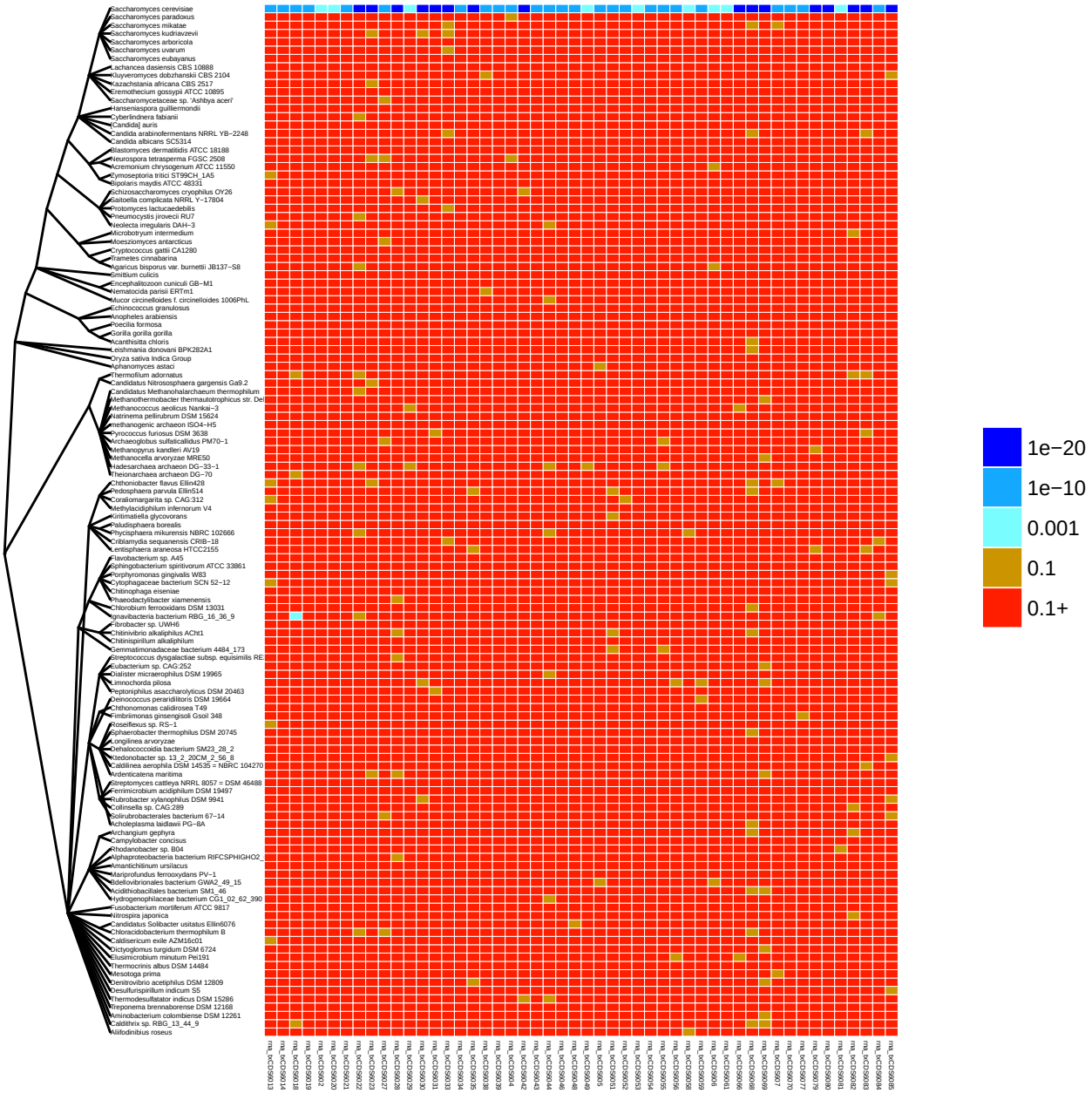

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_ACD35655
mu_ACD35650
mu_ACD35651
mu_ACD35652
mu_ACD35653
mu_ACD35654
mu_ACD35659
mu_ACD35658
mu_ACD35657
mu_ACD35656
mu_ACD35663
mu_ACD35667
mu_ACD35668
mu_ACD35669
mu_ACD35671
mu_ACD35674
mu_ACD35675
mu_ACD35678
mu_ACD35680
mu_ACD35682
mu_ACD35683
mu_ACD35684
mu_ACD35685
mu_ACD35688
mu_ACD35689
mu_ACD35690
mu_ACD35692
mu_ACD35694
mu_ACD35695
mu_ACD35698
mu_ACD35699
mu_ACD35700
mu_ACD35702
mu_ACD35703
mu_ACD35704
mu_ACD35705
mu_ACD35706
mu_ACD35707
mu_ACD35708
mu_ACD35709
mu_ACD35711
mu_ACD35712
mu_ACD35714
mu_ACD35717
mu_ACD35718
mu_ACD35719
mu_ACD35720
mu_ACD35721
mu_ACD35722
1e−20
1e−10
0.001
0.1
0.1+

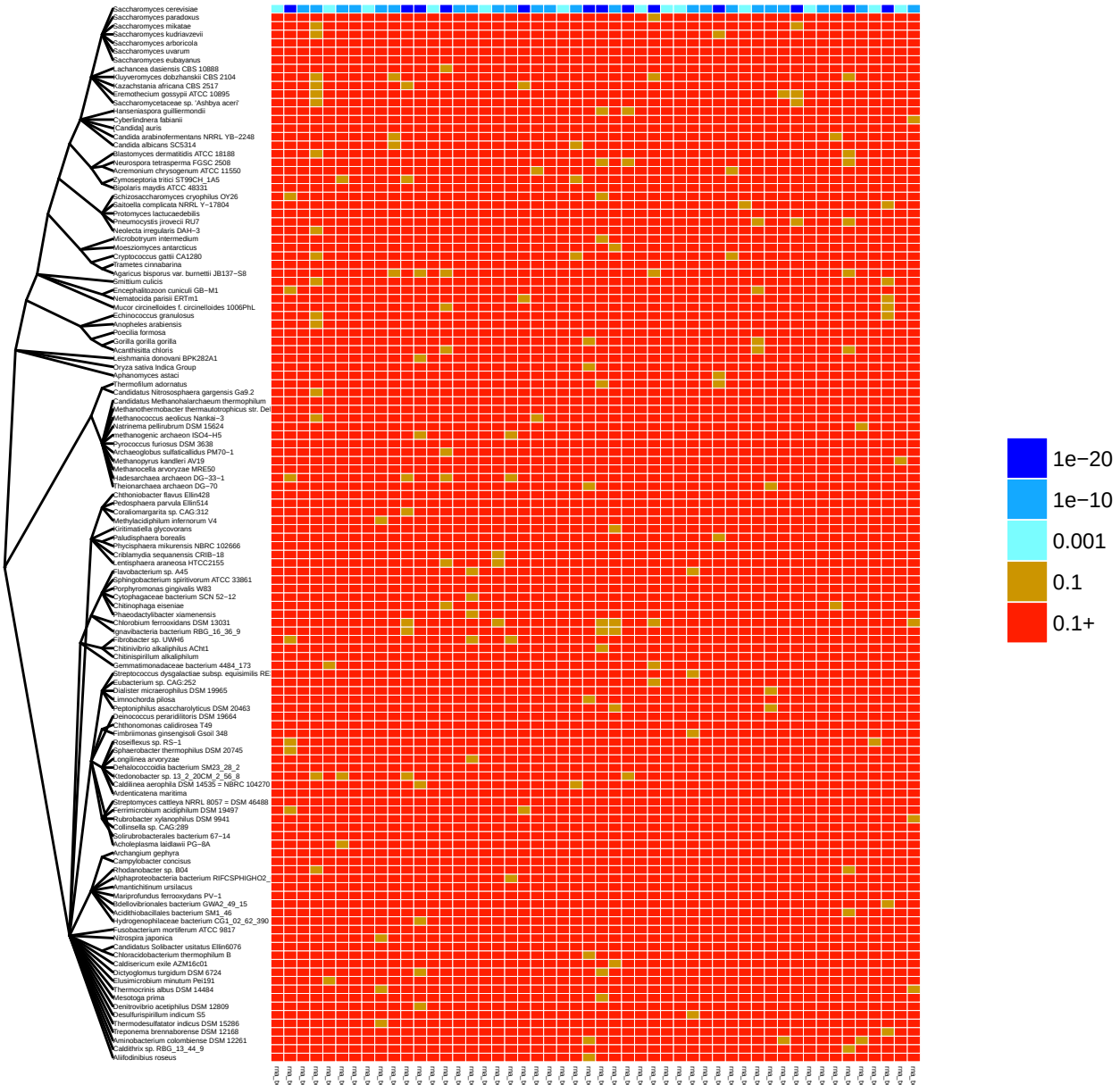

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ropolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

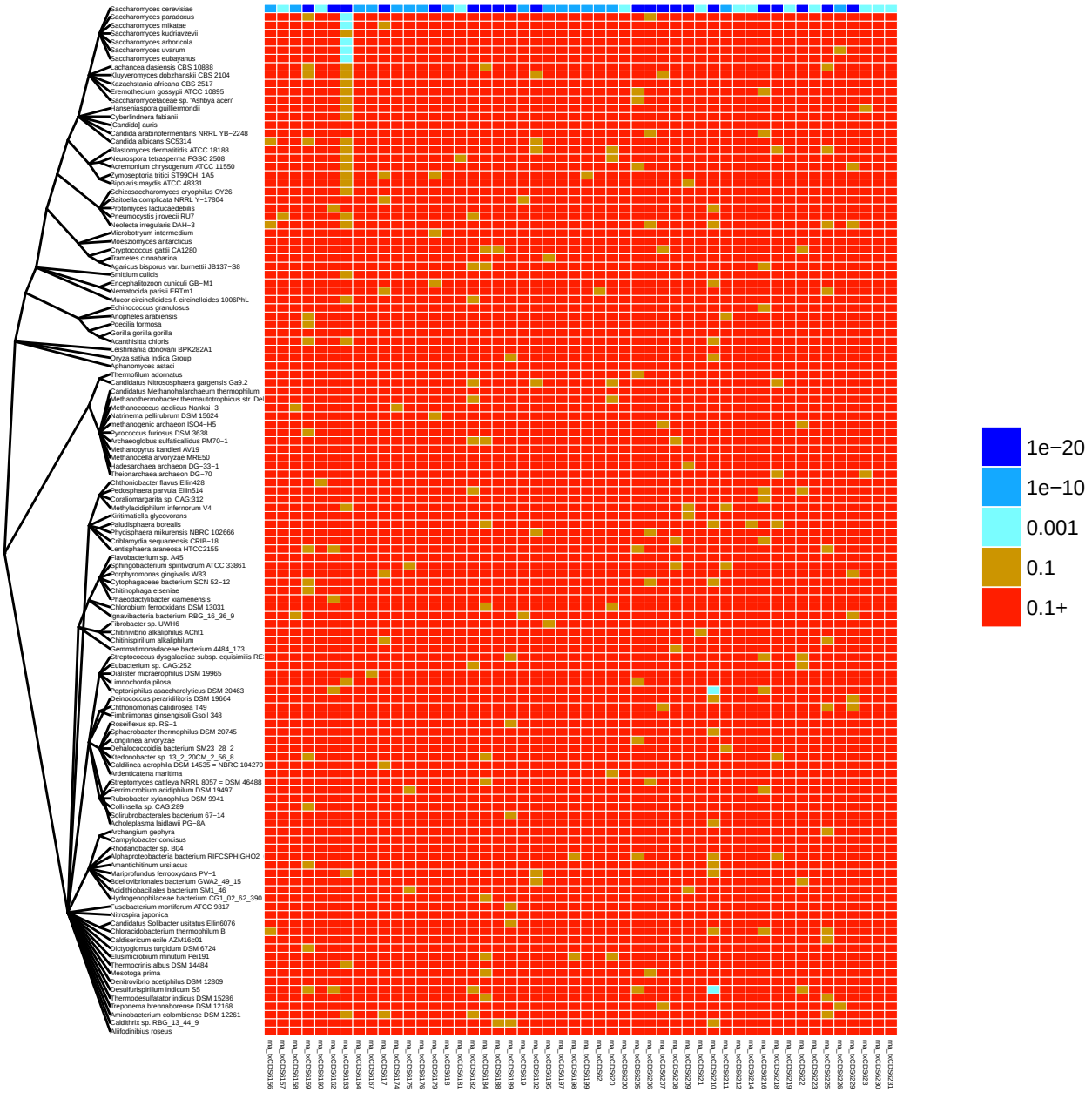

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
1e−20
1e−10
0.001
0.1
0.1+

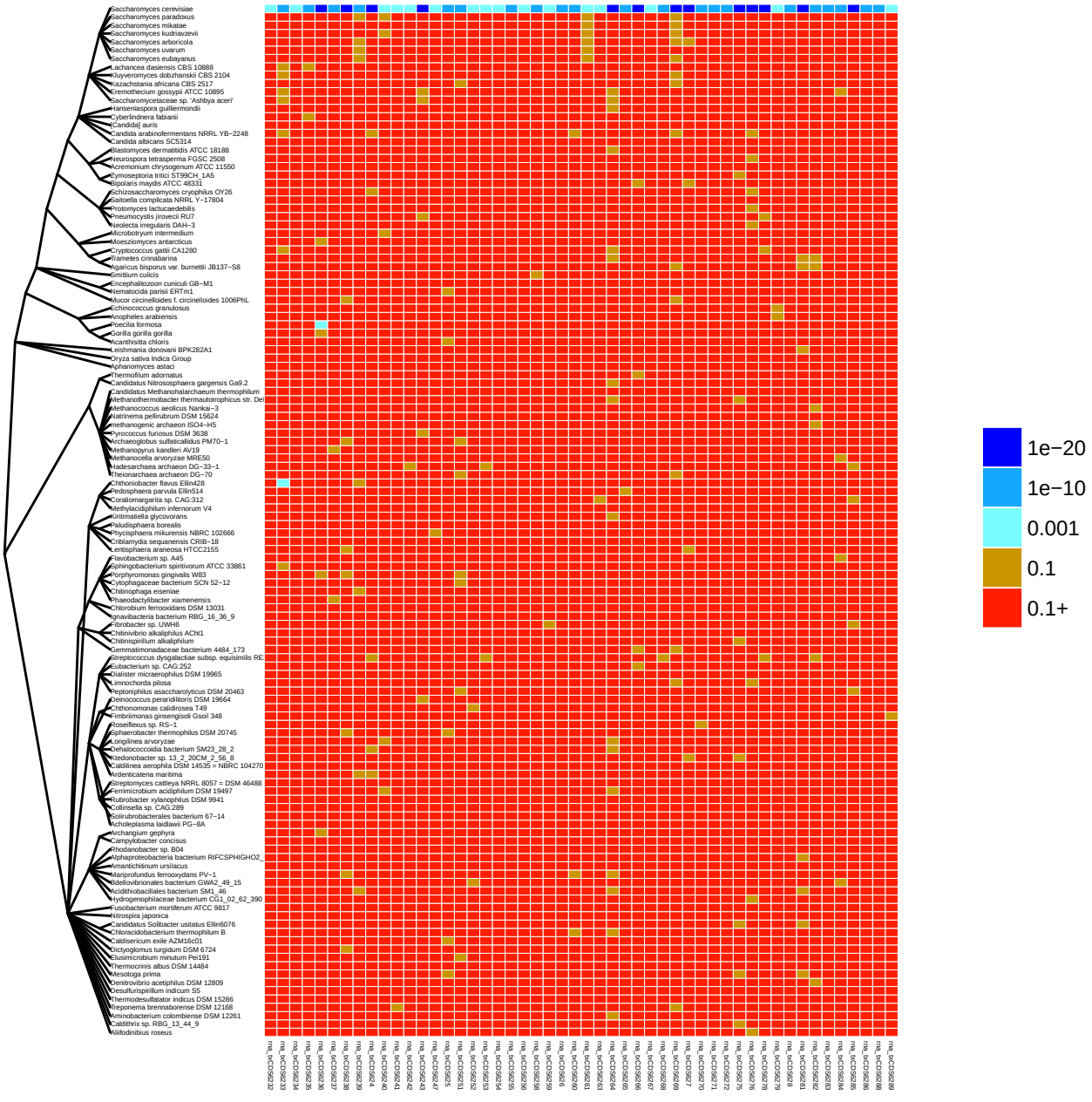

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niilofindinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

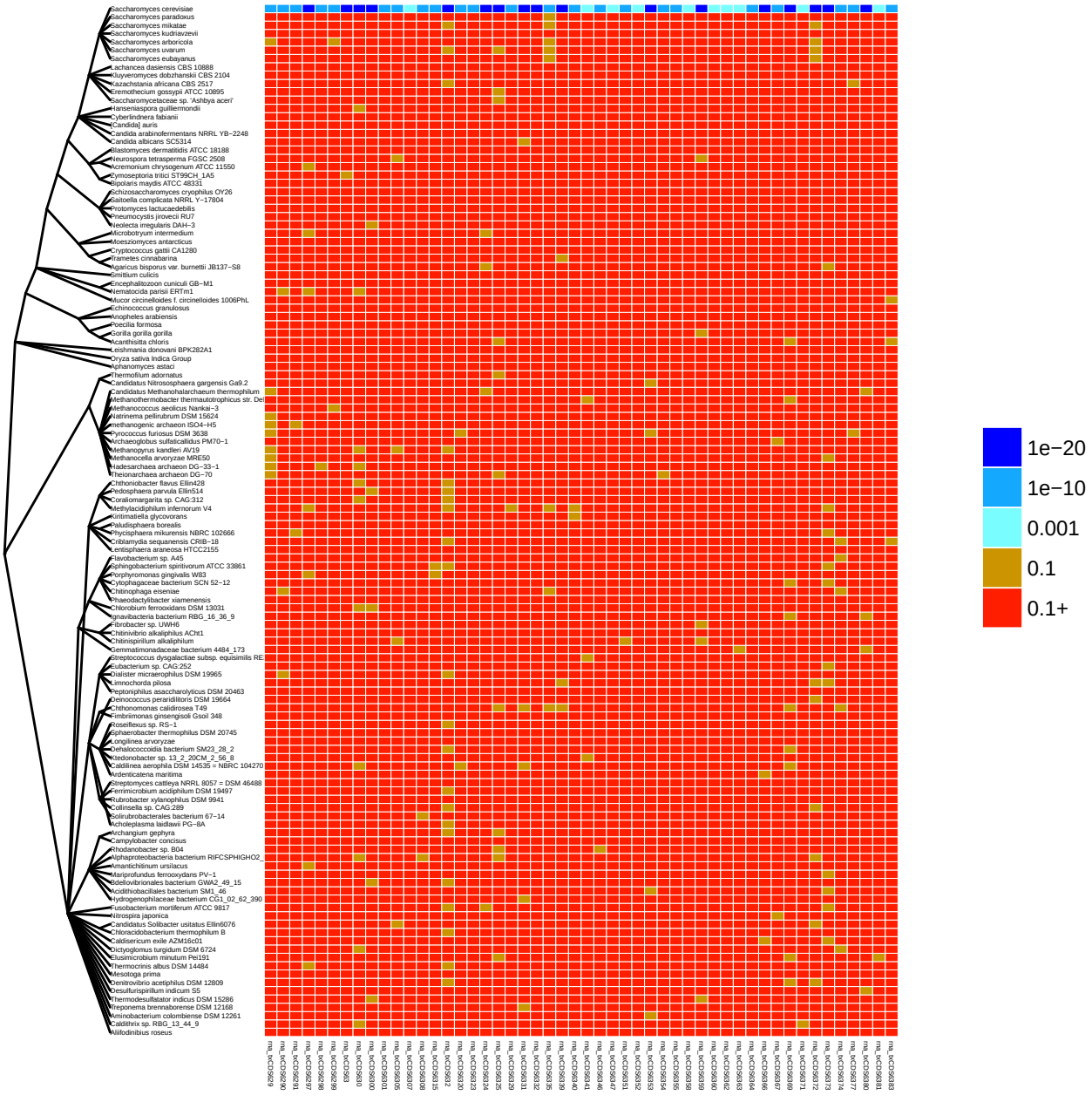

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

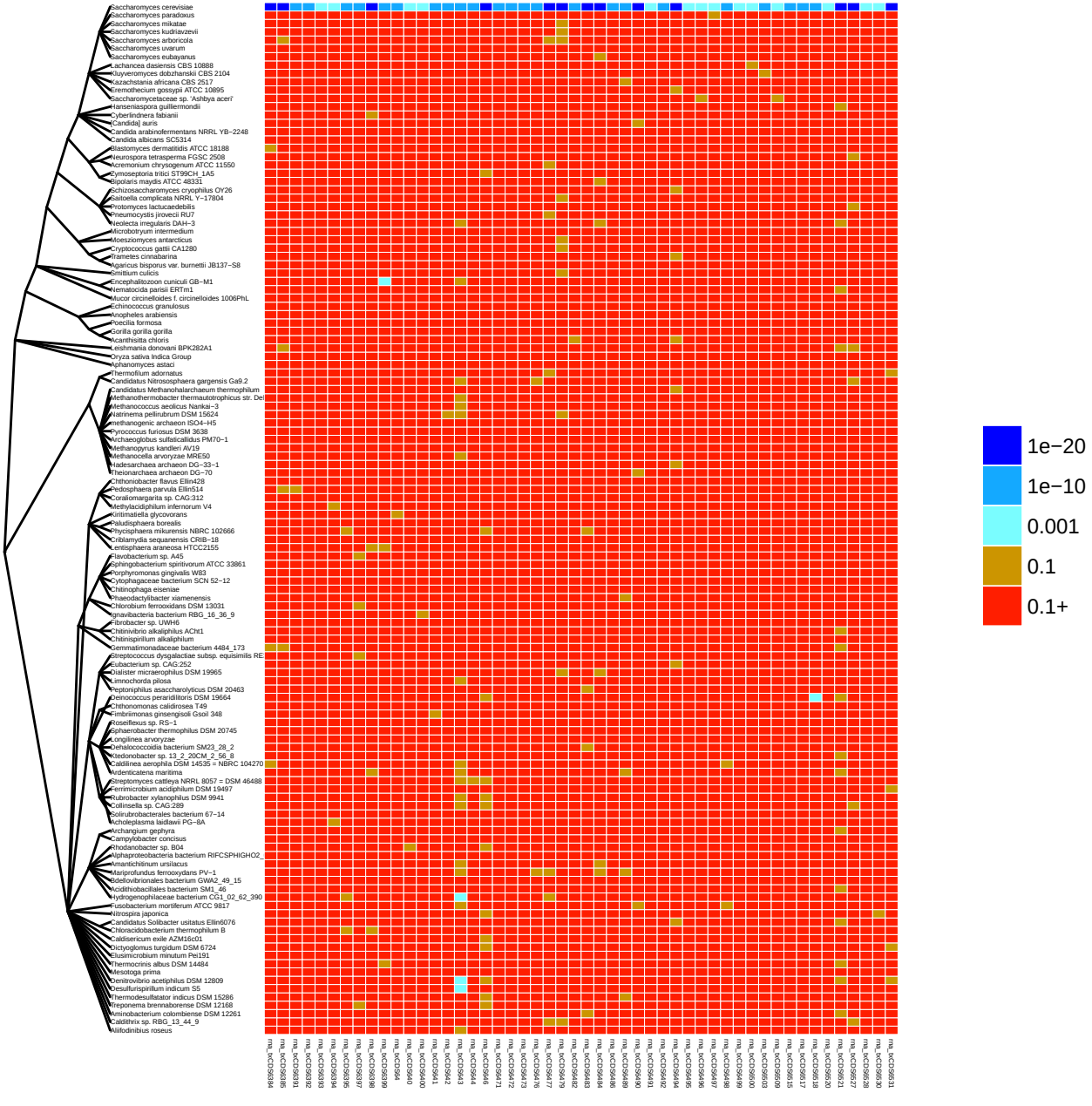

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

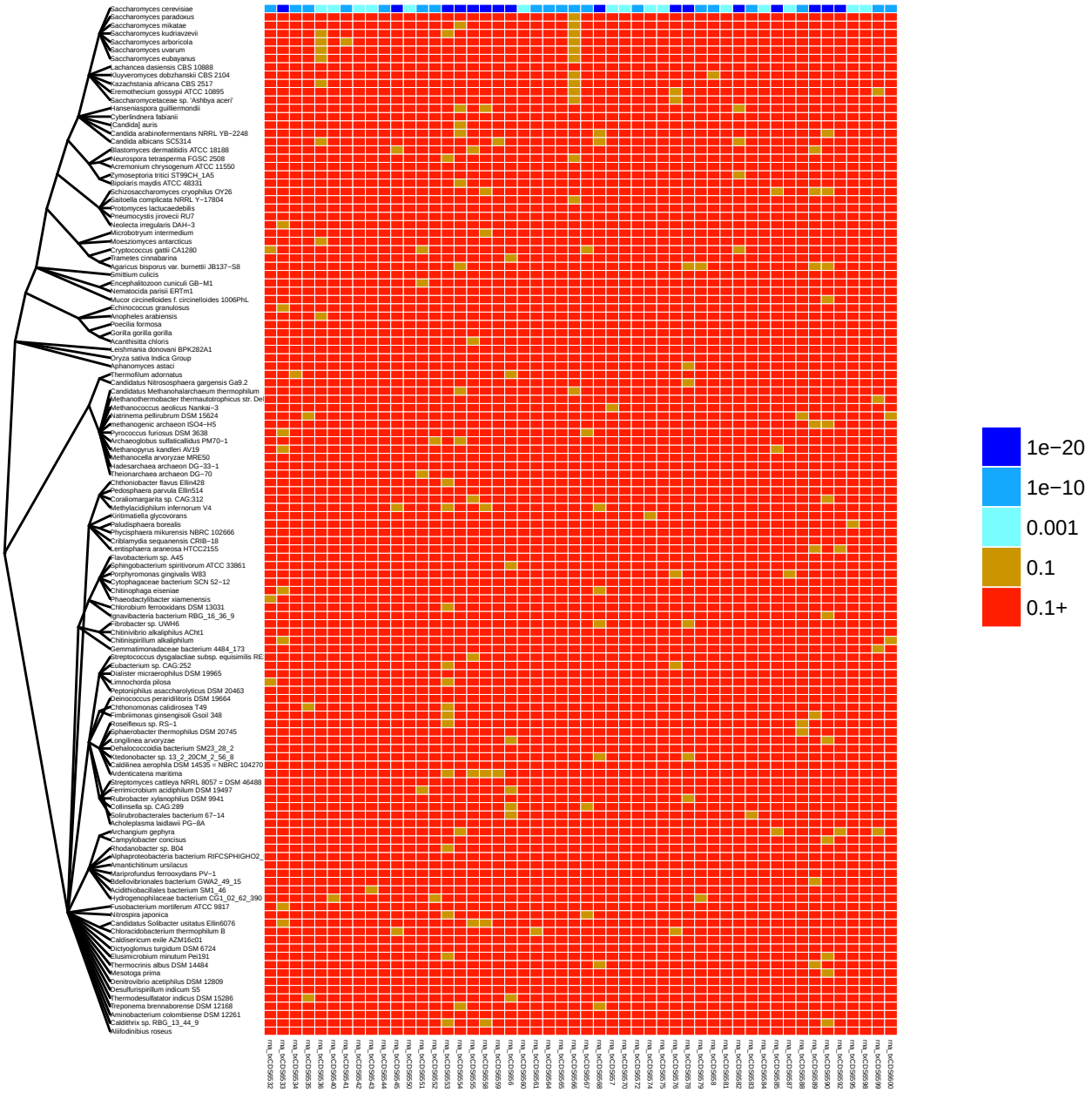

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_ACD52008
mu_ACD52007
mu_ACD52009
mu_ACD52010
mu_ACD52000
mu_ACD52001
mu_ACD52003
mu_ACD52094
mu_ACD52095
mu_ACD52096
mu_ACD52097
mu_ACD52098
mu_ACD52099
mu_ACD52100
mu_ACD52101
mu_ACD52102
mu_ACD52103
mu_ACD52104
mu_ACD52106
mu_ACD52108
mu_ACD52111
mu_ACD52115
mu_ACD52116
mu_ACD52118
mu_ACD52119
mu_ACD52012
mu_ACD52120
mu_ACD52122
mu_ACD52123
mu_ACD52124
mu_ACD52125
mu_ACD52126
mu_ACD52127
mu_ACD52128
mu_ACD52129
mu_ACD52130
mu_ACD52132
mu_ACD52138
mu_ACD52139
mu_ACD52140
mu_ACD52143
mu_ACD52144
mu_ACD52146
mu_ACD52148
mu_ACD52149
mu_ACD52150
mu_ACD52153
mu_ACD52154
mu_ACD52155
1e−20
1e−10
0.001
0.1
0.1+

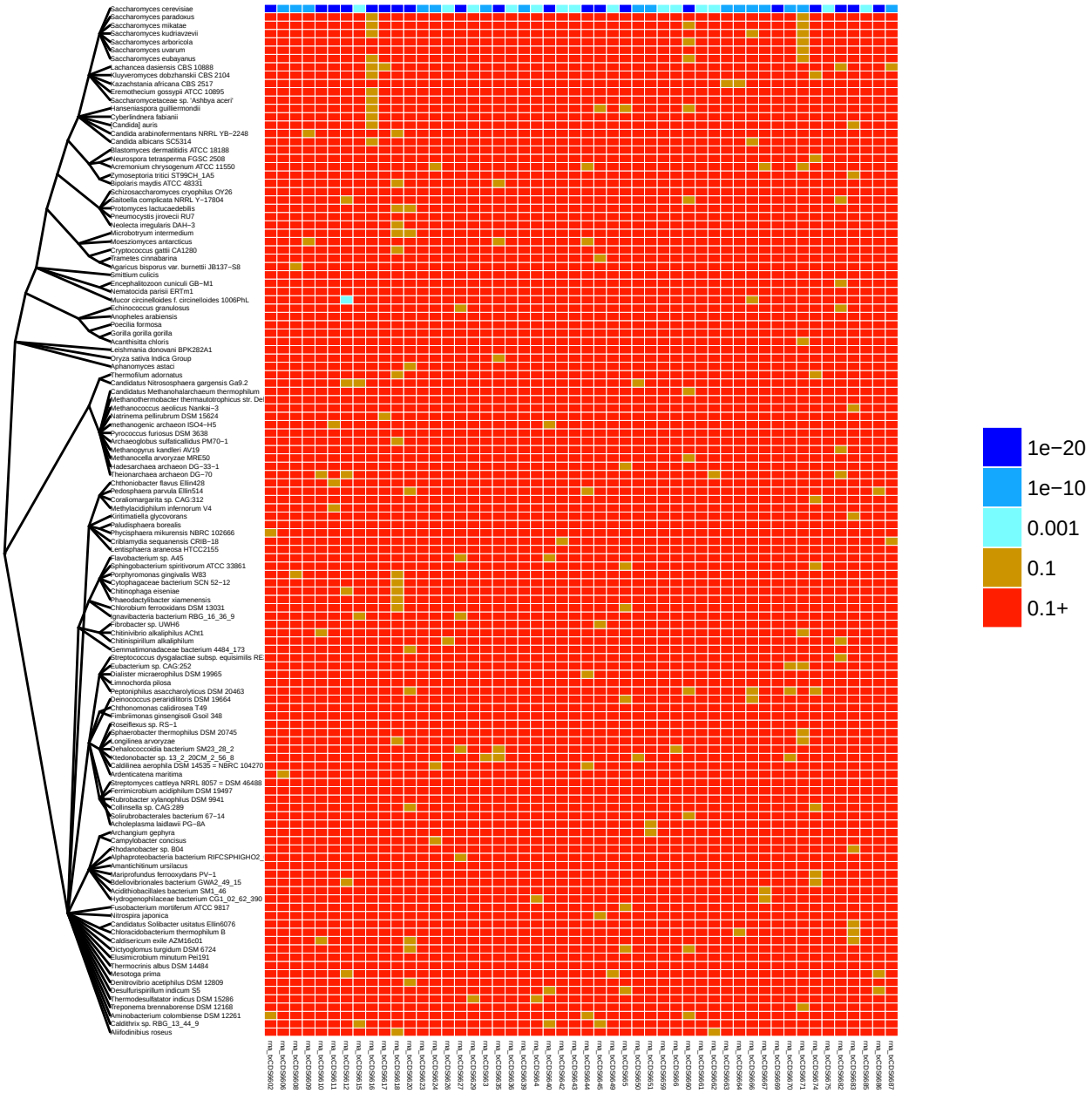

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_ACD52613.6
mu_ACD52613.7
mu_ACD52613.8
mu_ACD52613.9
mu_ACD52613.10
mu_ACD52613.11
mu_ACD52613.12
mu_ACD52613.13
mu_ACD52613.14
mu_ACD52613.15
mu_ACD52613.16
mu_ACD52613.17
mu_ACD52613.18
mu_ACD52613.19
mu_ACD52613.20
mu_ACD52613.21
mu_ACD52613.22
mu_ACD52613.23
mu_ACD52613.24
mu_ACD52613.25
mu_ACD52613.26
mu_ACD52613.27
mu_ACD52613.28
mu_ACD52613.29
mu_ACD52613.30
mu_ACD52613.31
1e−20
1e−10
0.001
0.1
0.1+

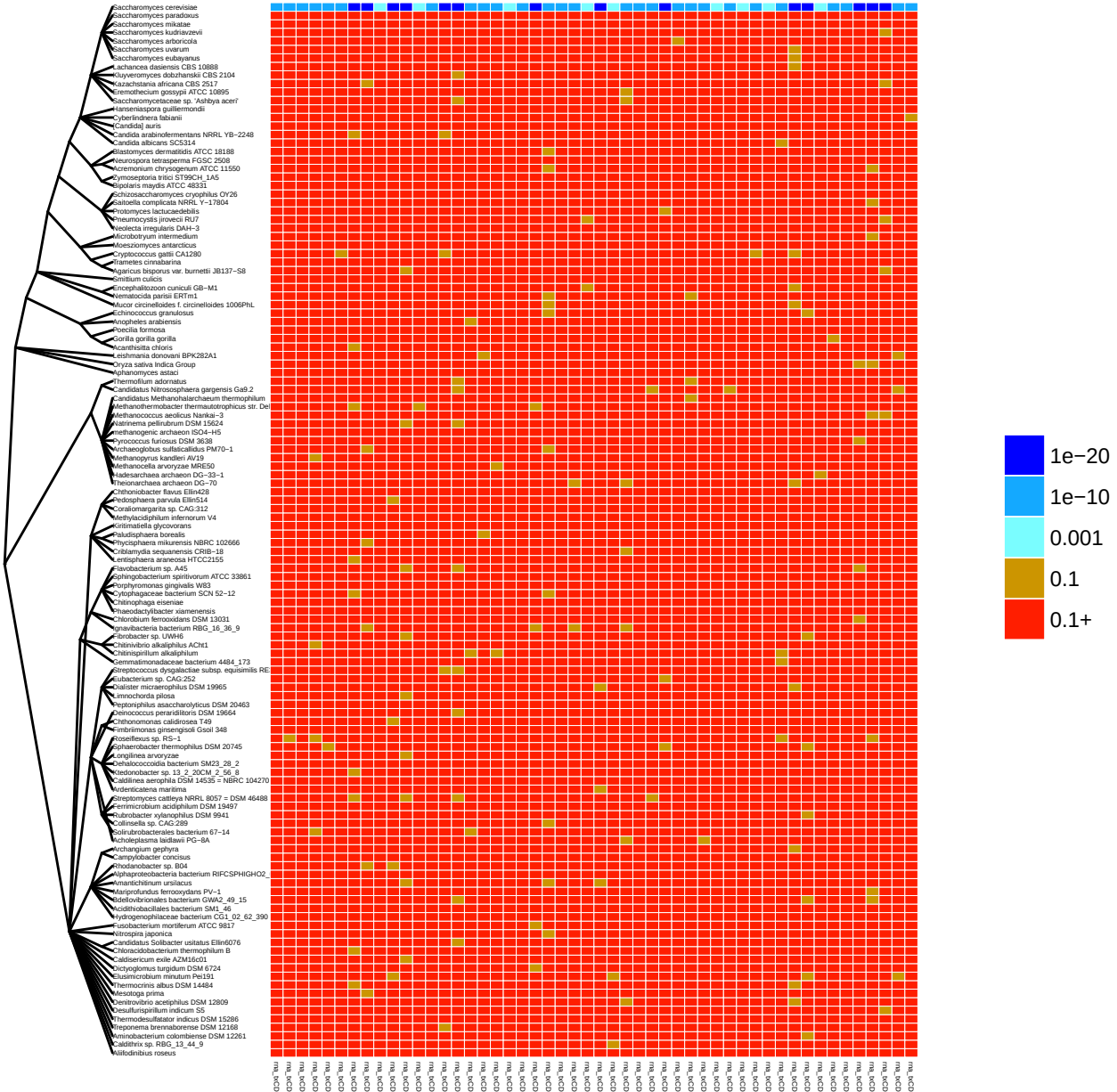

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_ACD52832
mu_ACD52833
mu_ACD52834
mu_ACD52835
mu_ACD52836
mu_ACD52837
mu_ACD52838
mu_ACD52839
mu_ACD52840
mu_ACD52841
mu_ACD52842
mu_ACD52843
mu_ACD52844
mu_ACD52845
mu_ACD52846
mu_ACD52847
mu_ACD52848
mu_ACD52849
mu_ACD52850
mu_ACD52851
mu_ACD52852
mu_ACD52853
mu_ACD52854
mu_ACD52855
mu_ACD52856
mu_ACD52857
mu_ACD52858
mu_ACD52859
mu_ACD52860
mu_ACD52861
mu_ACD52862
mu_ACD52863
mu_ACD52864
mu_ACD52865
mu_ACD52866
mu_ACD52867
mu_ACD52868
mu_ACD52869
mu_ACD52870
mu_ACD52871
mu_ACD52872
mu_ACD52873
mu_ACD52874
mu_ACD52875
mu_ACD52876
mu_ACD52877
mu_ACD52878
mu_ACD52879
mu_ACD52880
mu_ACD52881
mu_ACD52882
mu_ACD52883
mu_ACD52884
mu_ACD52885
mu_ACD52886
mu_ACD52887
mu_ACD52888
mu_ACD52889
1e−20
1e−10
0.001
0.1
0.1+

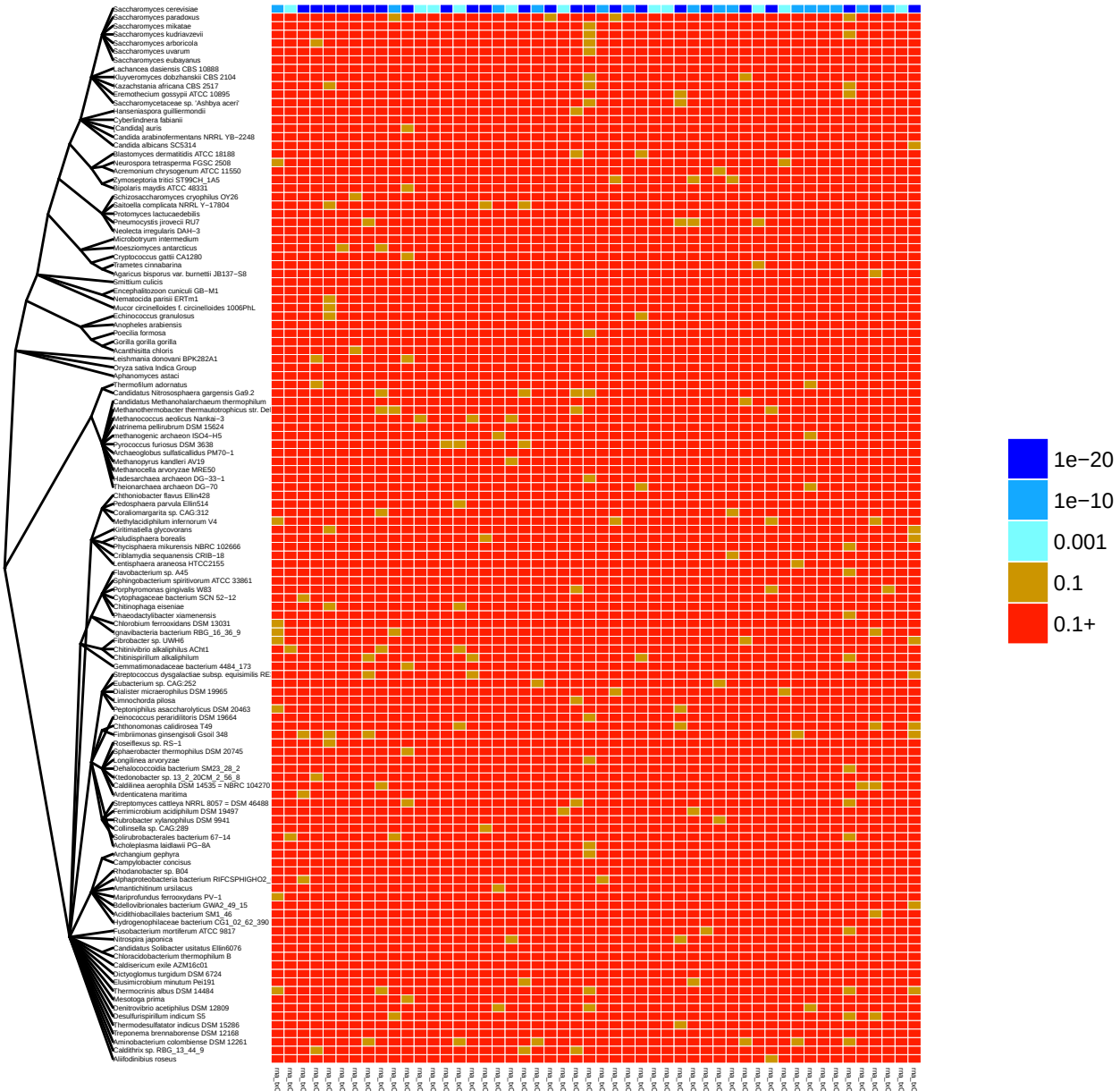

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

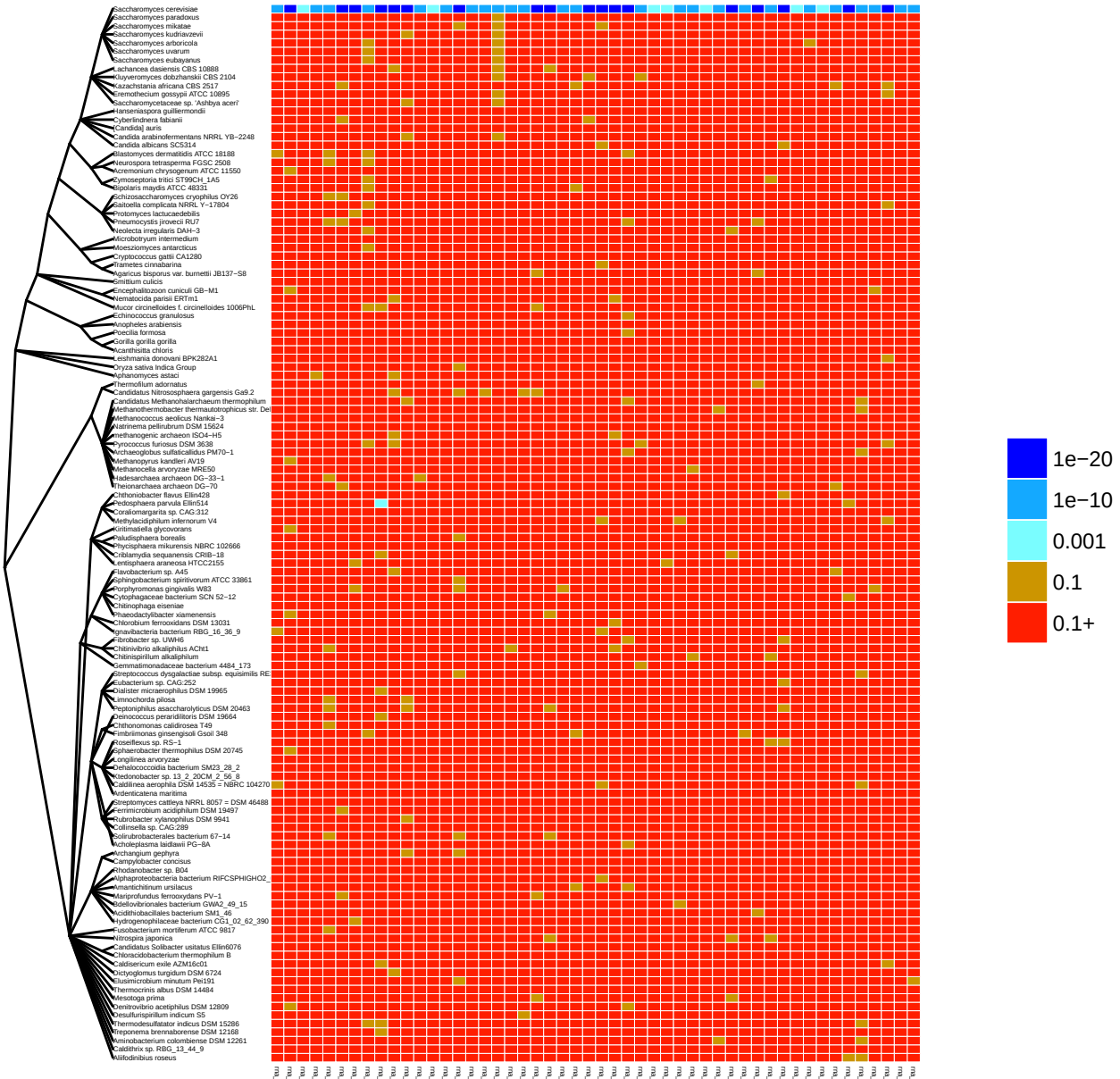

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

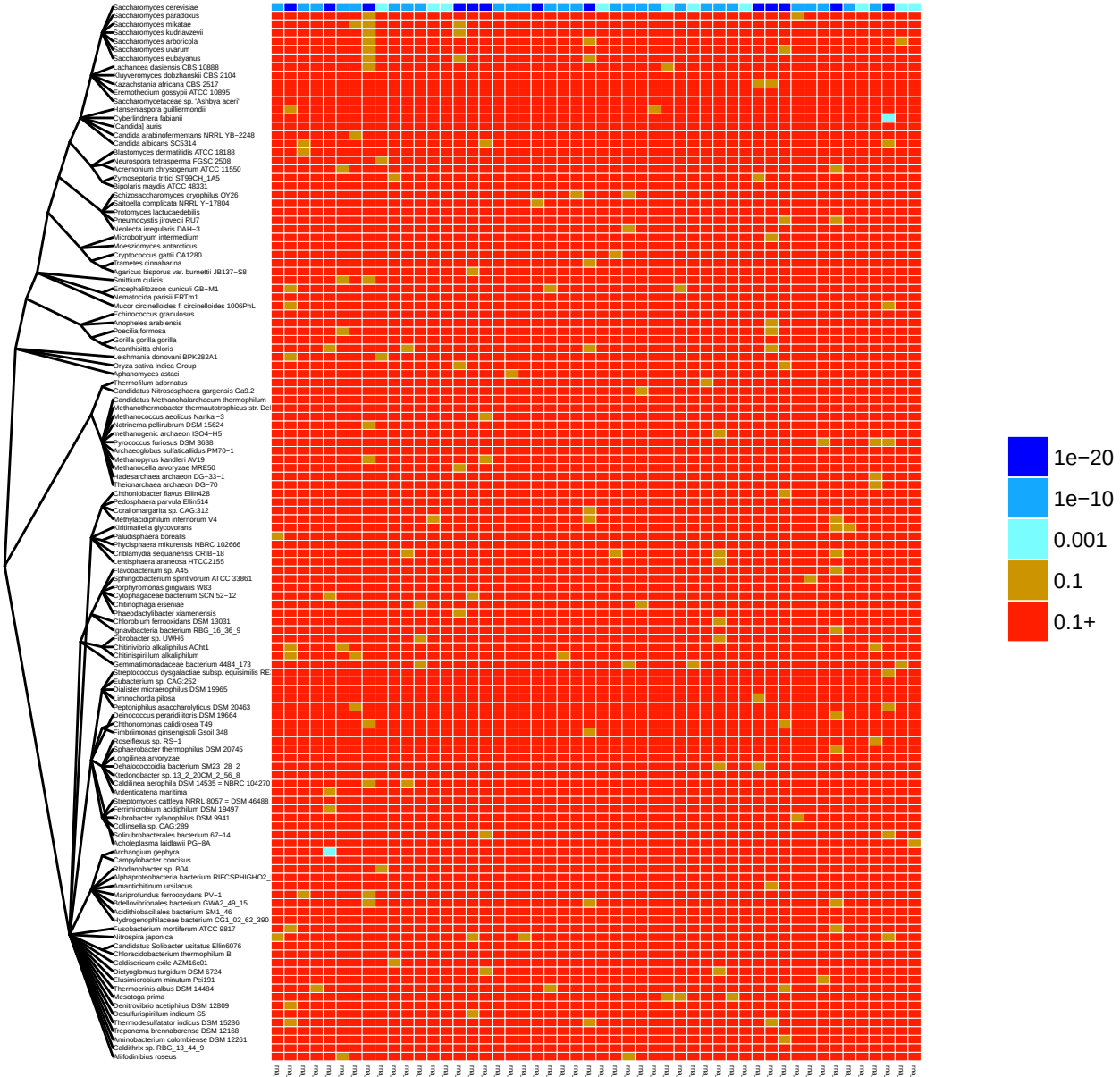

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

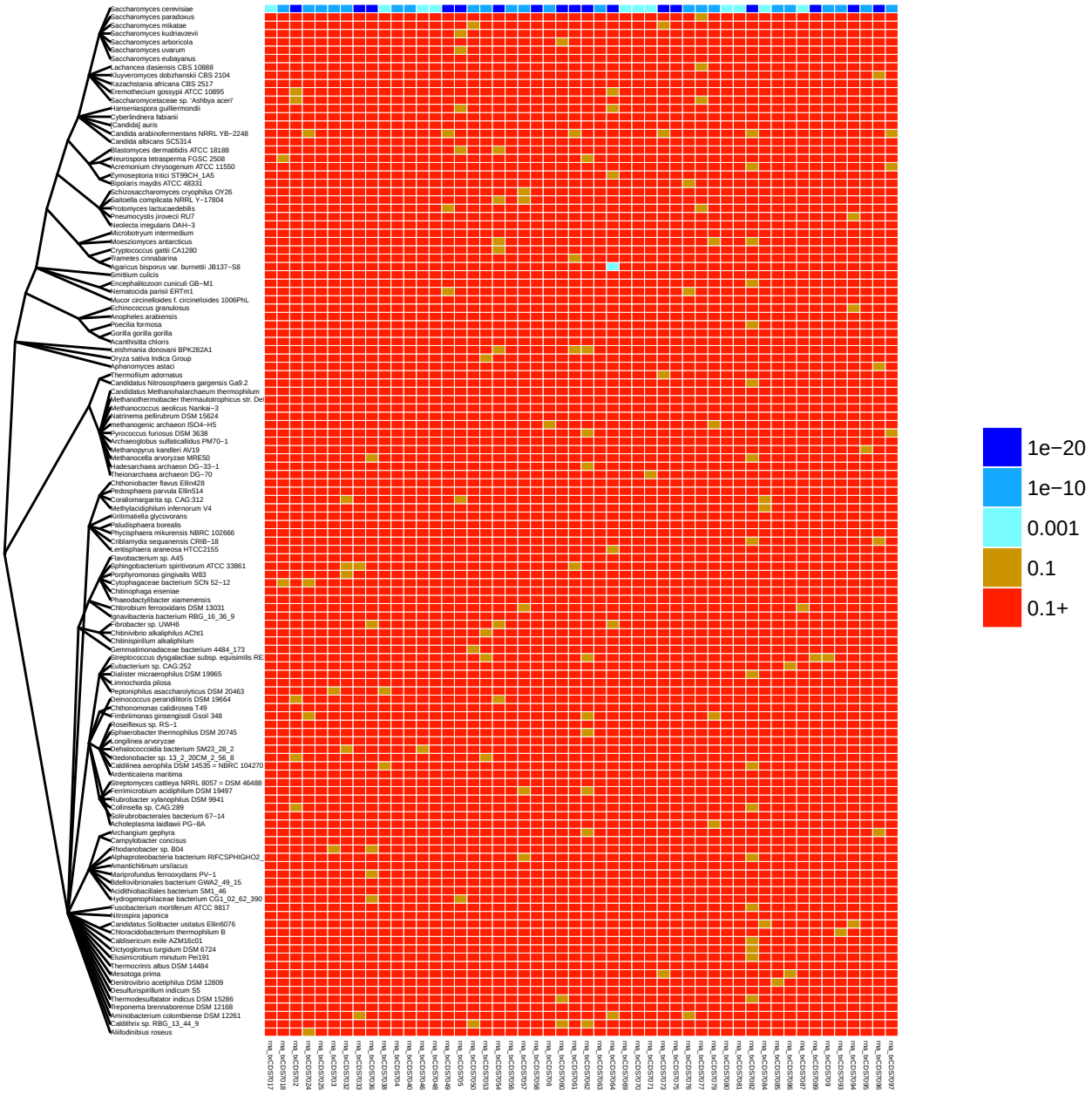

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

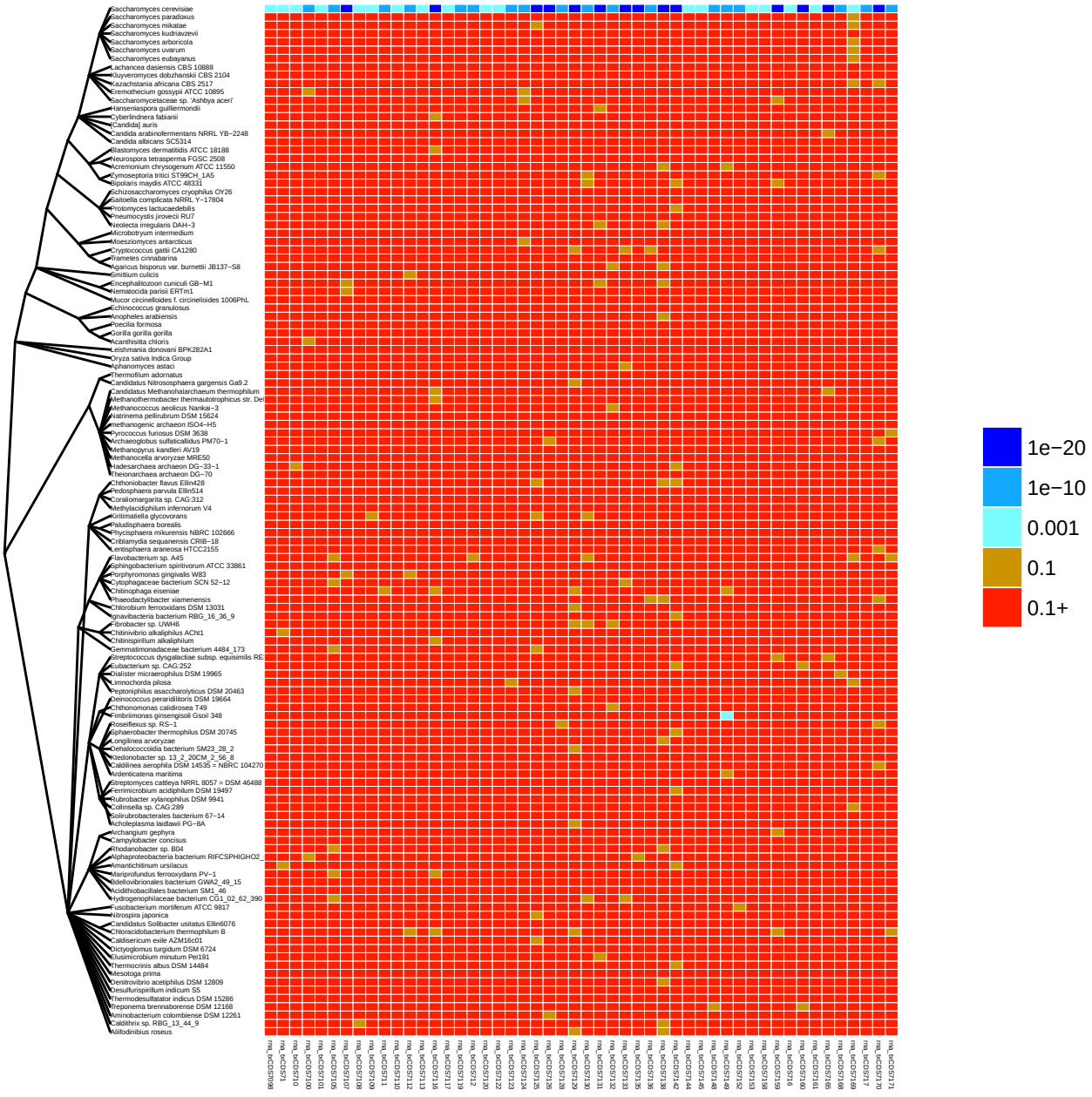

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mu_oCDS6688
mu_oCDS6689
mu_oCDS6691
mu_oCDS6692
mu_oCDS6693
mu_oCDS6694
mu_oCDS6695
mu_oCDS6696
mu_oCDS6697
mu_oCDS6699
mu_oCDS6700
mu_oCDS6701
mu_oCDS6702
mu_oCDS6703
mu_oCDS6705
mu_oCDS6706
mu_oCDS6707
mu_oCDS6708
mu_oCDS6709
mu_oCDS6710
mu_oCDS6711
mu_oCDS6712
mu_oCDS6713
mu_oCDS6714
mu_oCDS6715
mu_oCDS6716
mu_oCDS6717
mu_oCDS6721
mu_oCDS6722
mu_oCDS6723
mu_oCDS6726
mu_oCDS6727
mu_oCDS6729
mu_oCDS6730
mu_oCDS6731
mu_oCDS6732
mu_oCDS6734
mu_oCDS6735
mu_oCDS6738
mu_oCDS6739
mu_oCDS6741
mu_oCDS6742
mu_oCDS6743
mu_oCDS6744
mu_oCDS6747
mu_oCDS6748
1e−20
1e−10
0.001
0.1
0.1+

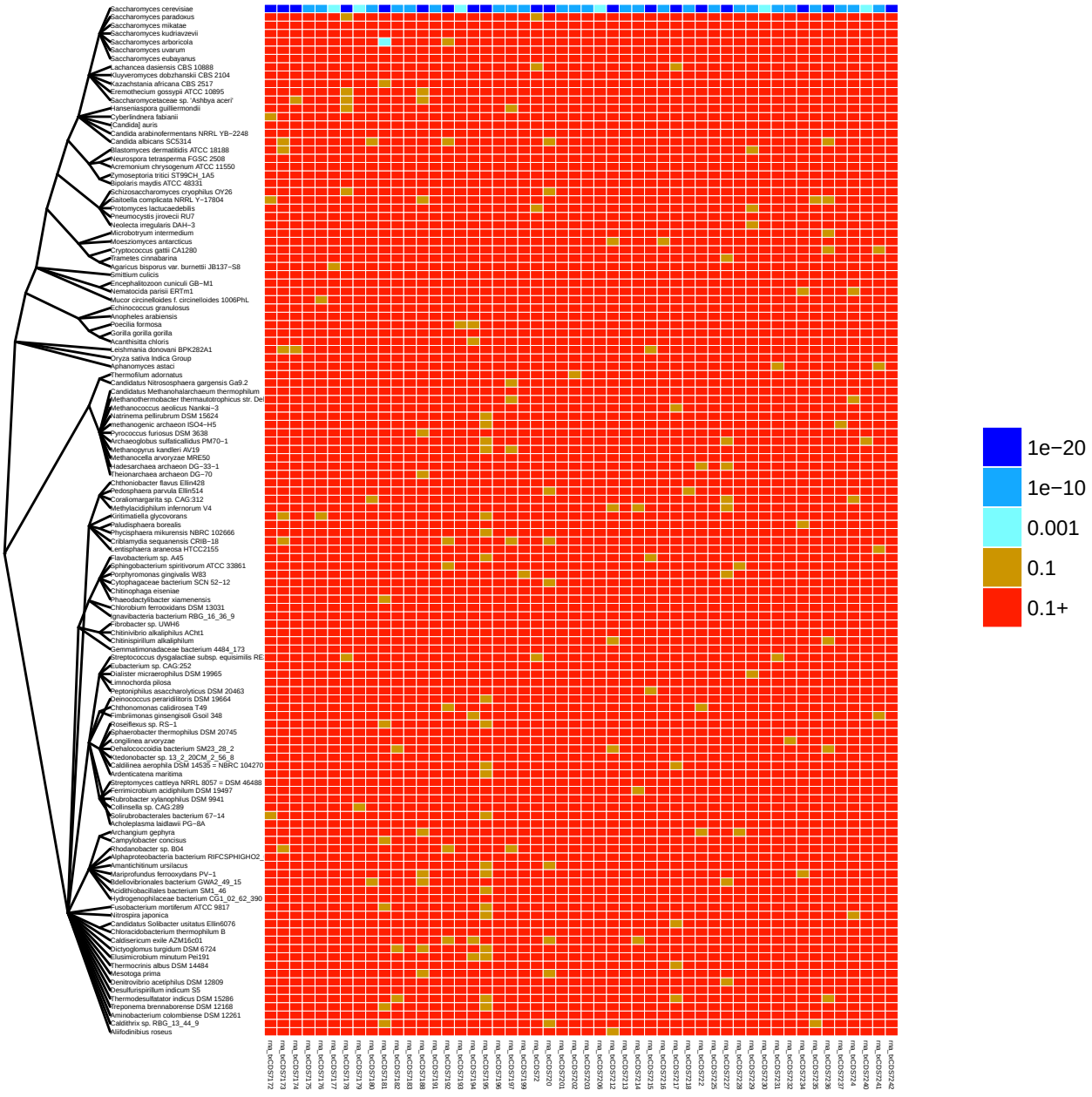

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

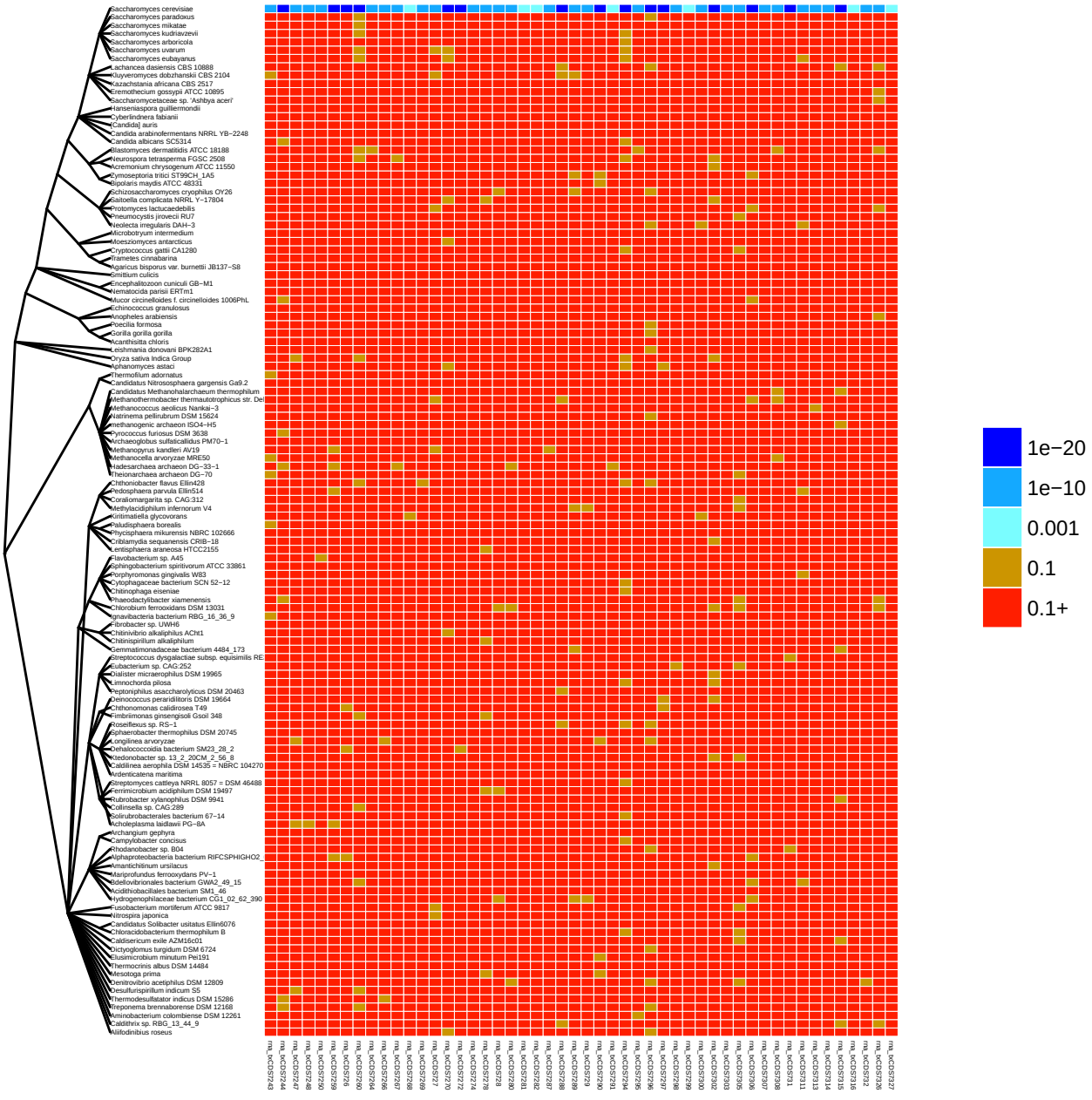

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

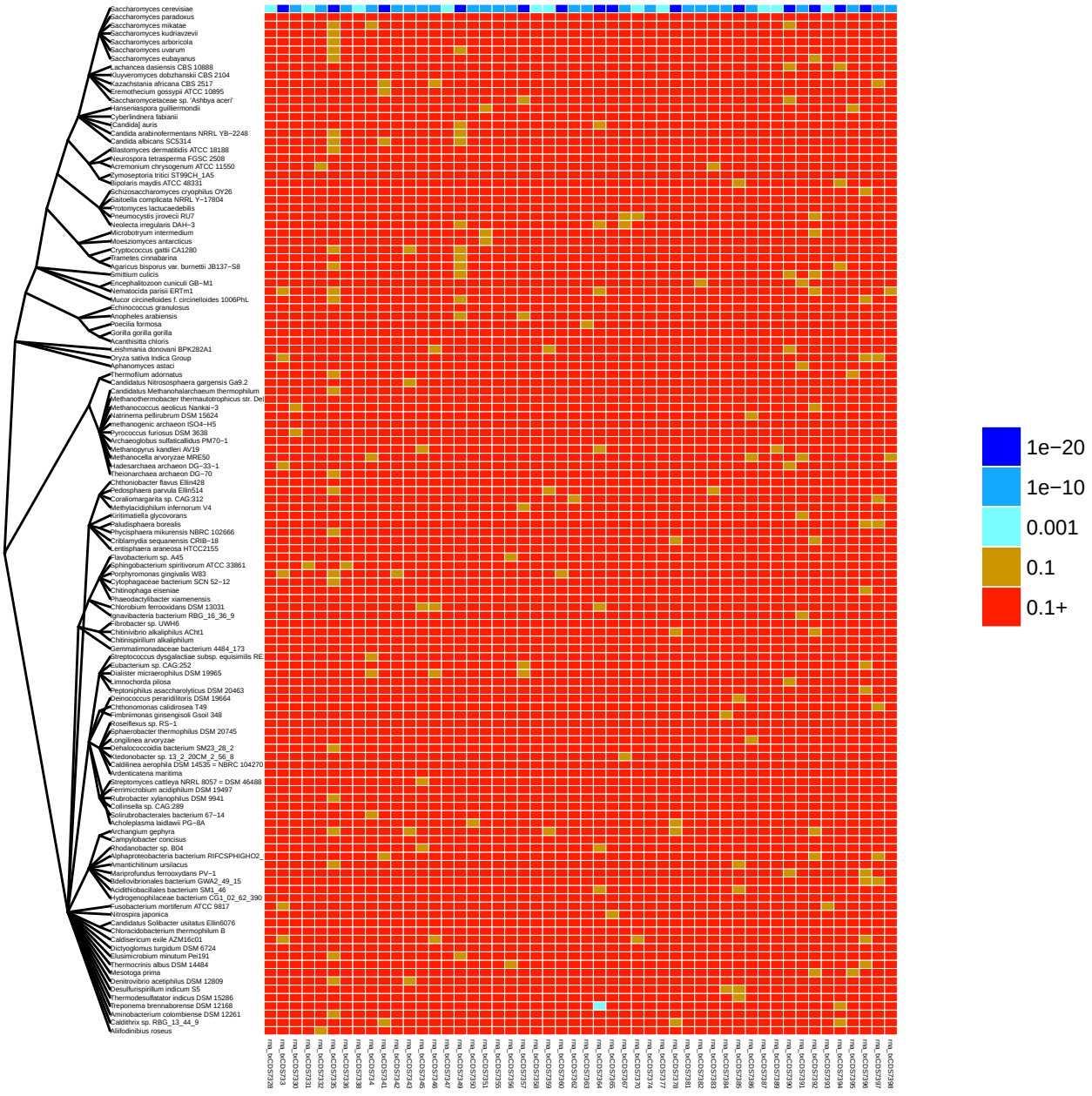

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mu_ACDS9697
mu_ACDS9698
mu_ACDS9691
mu_ACDS9690
mu_ACDS9681
mu_ACDS9682
mu_ACDS9683
mu_ACDS9694
mu_ACDS9695
mu_ACDS9696
mu_ACDS9687
mu_ACDS9688
mu_ACDS9689
mu_ACDS9670
mu_ACDS9671
mu_ACDS9672
mu_ACDS9673
mu_ACDS9674
mu_ACDS9675
mu_ACDS9676
mu_ACDS9678
mu_ACDS9679
mu_ACDS9692
mu_ACDS9693
mu_ACDS9684
mu_ACDS9685
mu_ACDS9686
mu_ACDS9687
mu_ACDS9688
mu_ACDS9689
mu_ACDS9690
mu_ACDS9691
mu_ACDS9695
mu_ACDS9696
mu_ACDS9697
mu_ACDS9698
mu_ACDS70
mu_ACDS7001
mu_ACDS7002
mu_ACDS7003
mu_ACDS7004
mu_ACDS7005
mu_ACDS7006
mu_ACDS7008
mu_ACDS7009
mu_ACDS7010
mu_ACDS7011
mu_ACDS7012
mu_ACDS7013
1e−20
1e−10
0.001
0.1
0.1+

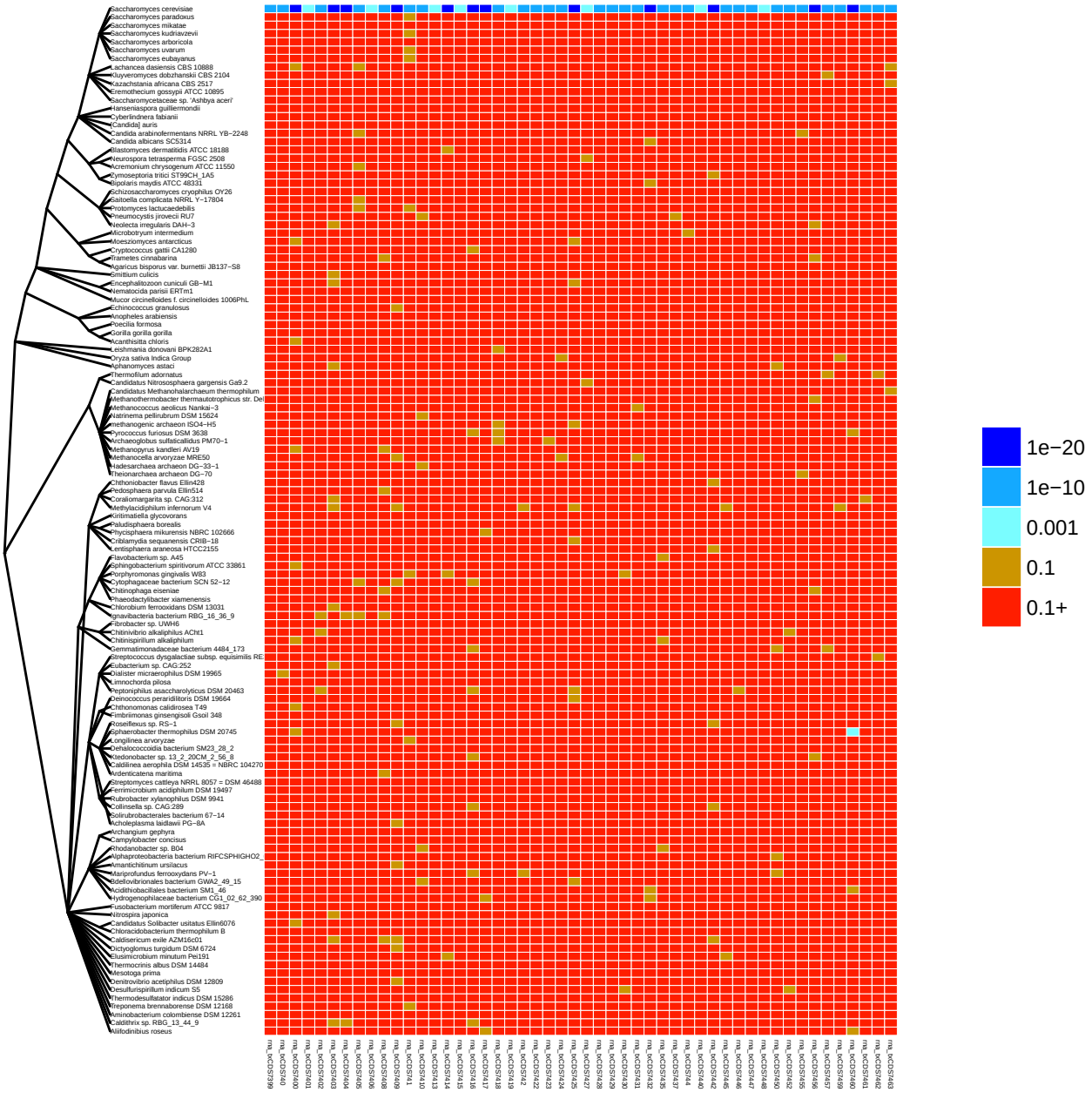

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

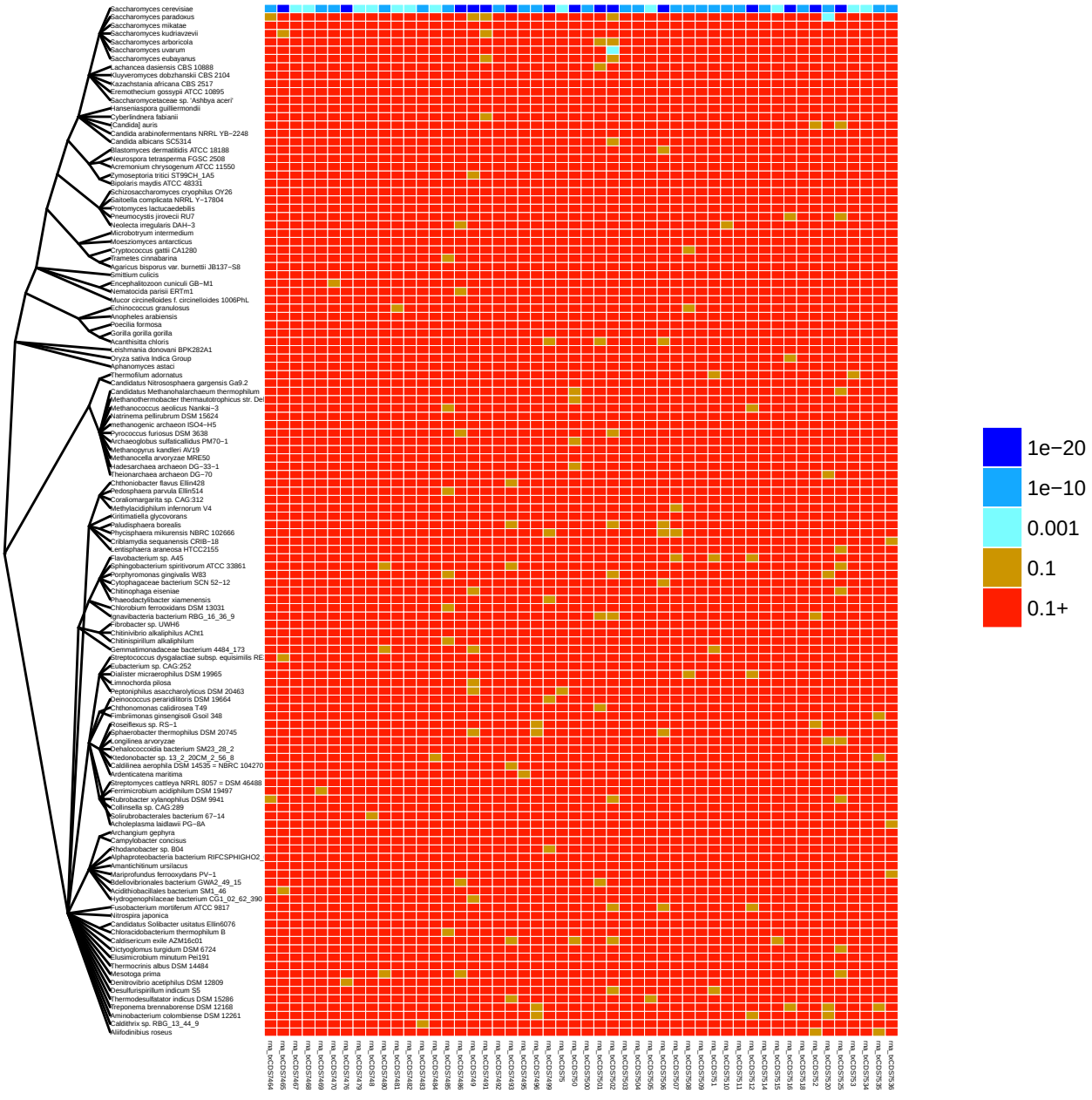

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niifodinibius roseus
mu_bCDS7008
mu_bCDS7011
mu_bCDS7010
mu_bCDS7100
mu_bCDS7101
mu_bCDS7105
mu_bCDS7107
mu_bCDS7108
mu_bCDS7109
mu_bCDS7111
mu_bCDS7110
mu_bCDS7112
mu_bCDS7113
mu_bCDS7116
mu_bCDS7117
mu_bCDS7119
mu_bCDS7212
mu_bCDS7120
mu_bCDS7122
mu_bCDS7123
mu_bCDS7124
mu_bCDS7125
mu_bCDS7126
mu_bCDS7128
mu_bCDS7129
mu_bCDS7130
mu_bCDS7131
mu_bCDS7132
mu_bCDS7133
mu_bCDS7135
mu_bCDS7136
mu_bCDS7138
mu_bCDS7142
mu_bCDS7144
mu_bCDS7145
mu_bCDS7148
mu_bCDS7149
mu_bCDS7152
mu_bCDS7153
mu_bCDS7158
mu_bCDS7159
mu_bCDS7161
mu_bCDS7160
mu_bCDS7165
mu_bCDS7168
mu_bCDS7169
mu_bCDS7217
mu_bCDS7170
mu_bCDS7171
1e−20
1e−10
0.001
0.1
0.1+

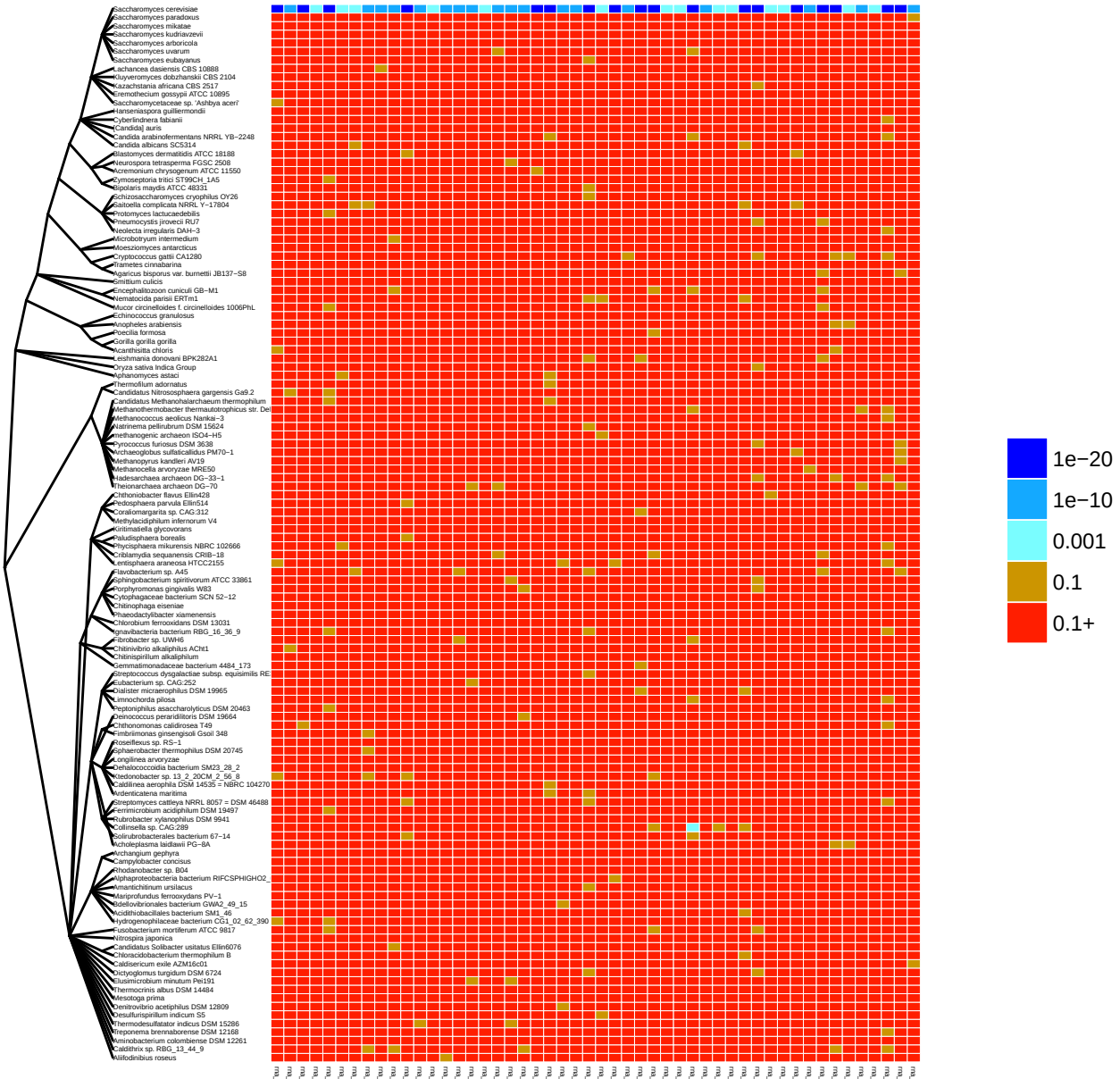

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_bCDS7172
ma_bCDS7173
ma_bCDS7174
ma_bCDS7175
ma_bCDS7176
ma_bCDS7177
ma_bCDS7178
ma_bCDS7179
ma_bCDS7180
ma_bCDS7181
ma_bCDS7182
ma_bCDS7183
ma_bCDS7188
ma_bCDS7191
ma_bCDS7192
ma_bCDS7193
ma_bCDS7194
ma_bCDS7195
ma_bCDS7196
ma_bCDS7197
ma_bCDS7199
ma_bCDS72
ma_bCDS7200
ma_bCDS7201
ma_bCDS7202
ma_bCDS7203
ma_bCDS7206
ma_bCDS7212
ma_bCDS7213
ma_bCDS7214
ma_bCDS7215
ma_bCDS7216
ma_bCDS7217
ma_bCDS7218
ma_bCDS7222
ma_bCDS7225
ma_bCDS7227
ma_bCDS7228
ma_bCDS7229
ma_bCDS7230
ma_bCDS7231
ma_bCDS7232
ma_bCDS7234
ma_bCDS7235
ma_bCDS7236
ma_bCDS7237
ma_bCDS7240
ma_bCDS7241
ma_bCDS7242
1e−20
1e−10
0.001
0.1
0.1+

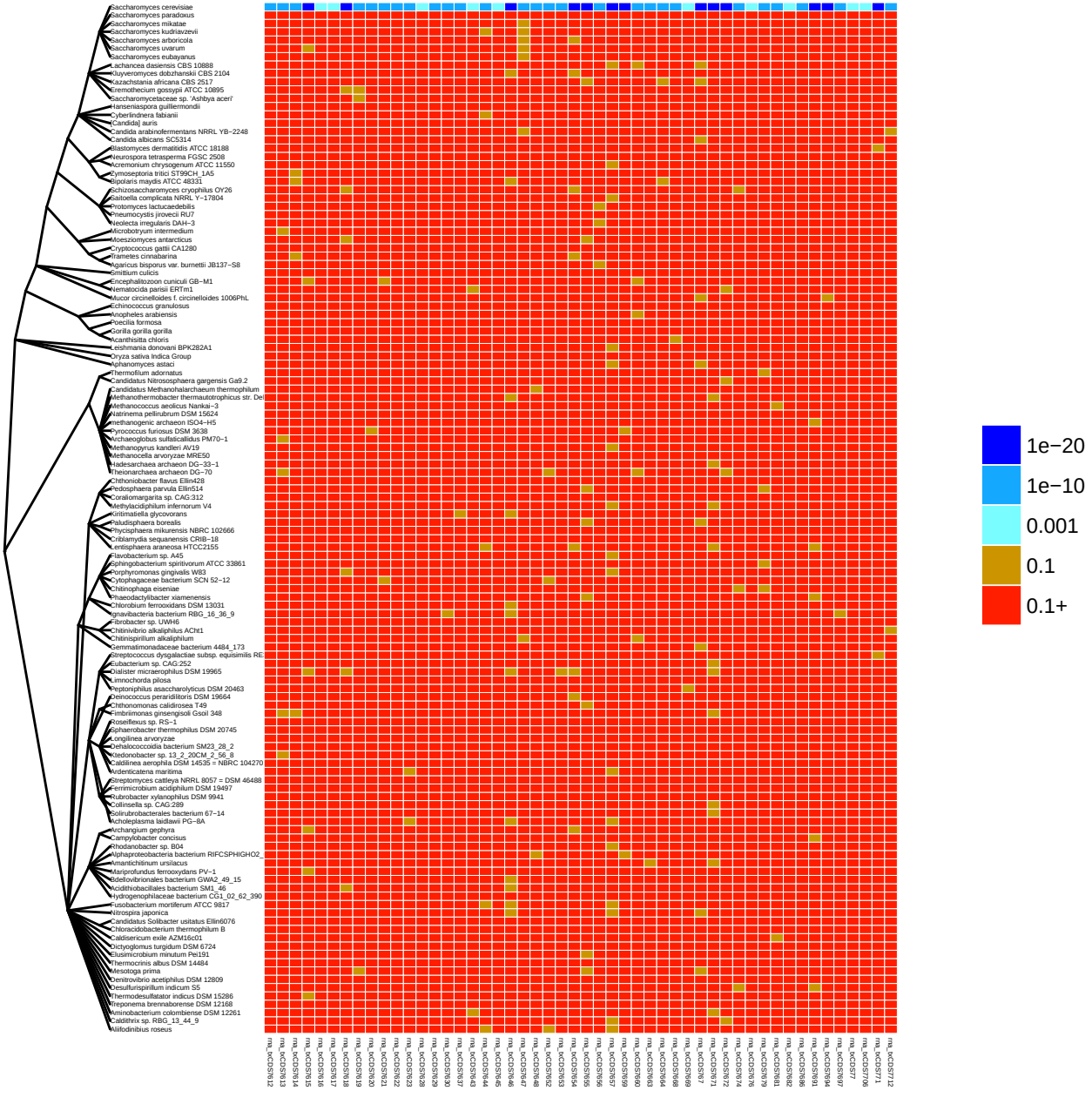

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinitubus roseus
ma_bCDS7243
ma_bCDS7244
ma_bCDS7247
ma_bCDS7248
ma_bCDS7250
ma_bCDS7259
ma_bCDS7261
ma_bCDS7263
ma_bCDS7264
ma_bCDS7266
ma_bCDS7267
ma_bCDS7268
ma_bCDS7269
ma_bCDS7277
ma_bCDS7270
ma_bCDS7272
ma_bCDS7274
ma_bCDS7278
ma_bCDS7280
ma_bCDS7281
ma_bCDS7282
ma_bCDS7287
ma_bCDS7288
ma_bCDS7289
ma_bCDS7290
ma_bCDS7291
ma_bCDS7294
ma_bCDS7295
ma_bCDS7296
ma_bCDS7297
ma_bCDS7298
ma_bCDS7299
ma_bCDS7300
ma_bCDS7302
ma_bCDS7303
ma_bCDS7305
ma_bCDS7306
ma_bCDS7307
ma_bCDS7308
ma_bCDS7311
ma_bCDS7314
ma_bCDS7313
ma_bCDS7315
ma_bCDS7316
ma_bCDS7232
ma_bCDS7326
ma_bCDS7327
1e−20
1e−10
0.001
0.1
0.1+

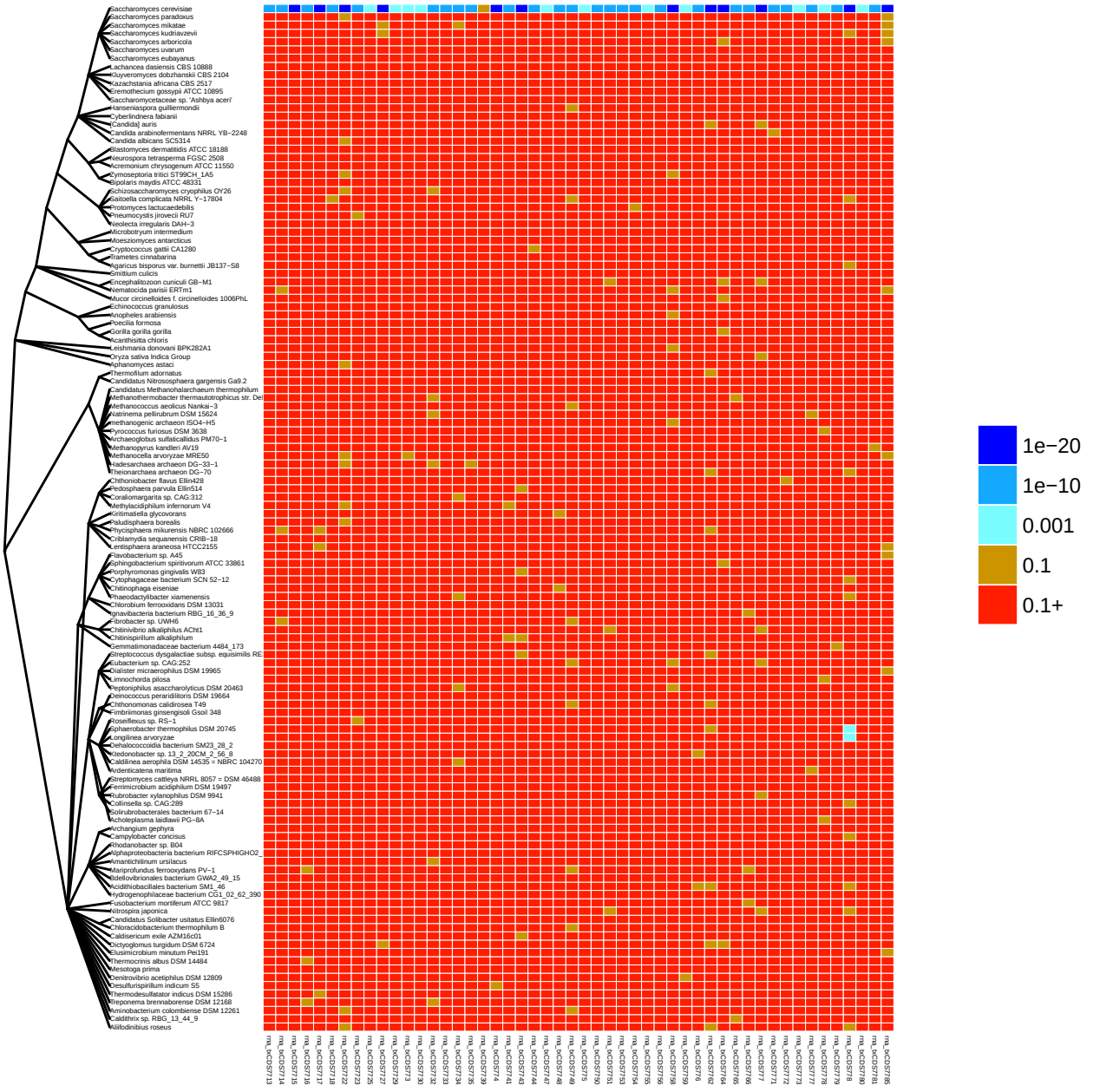

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

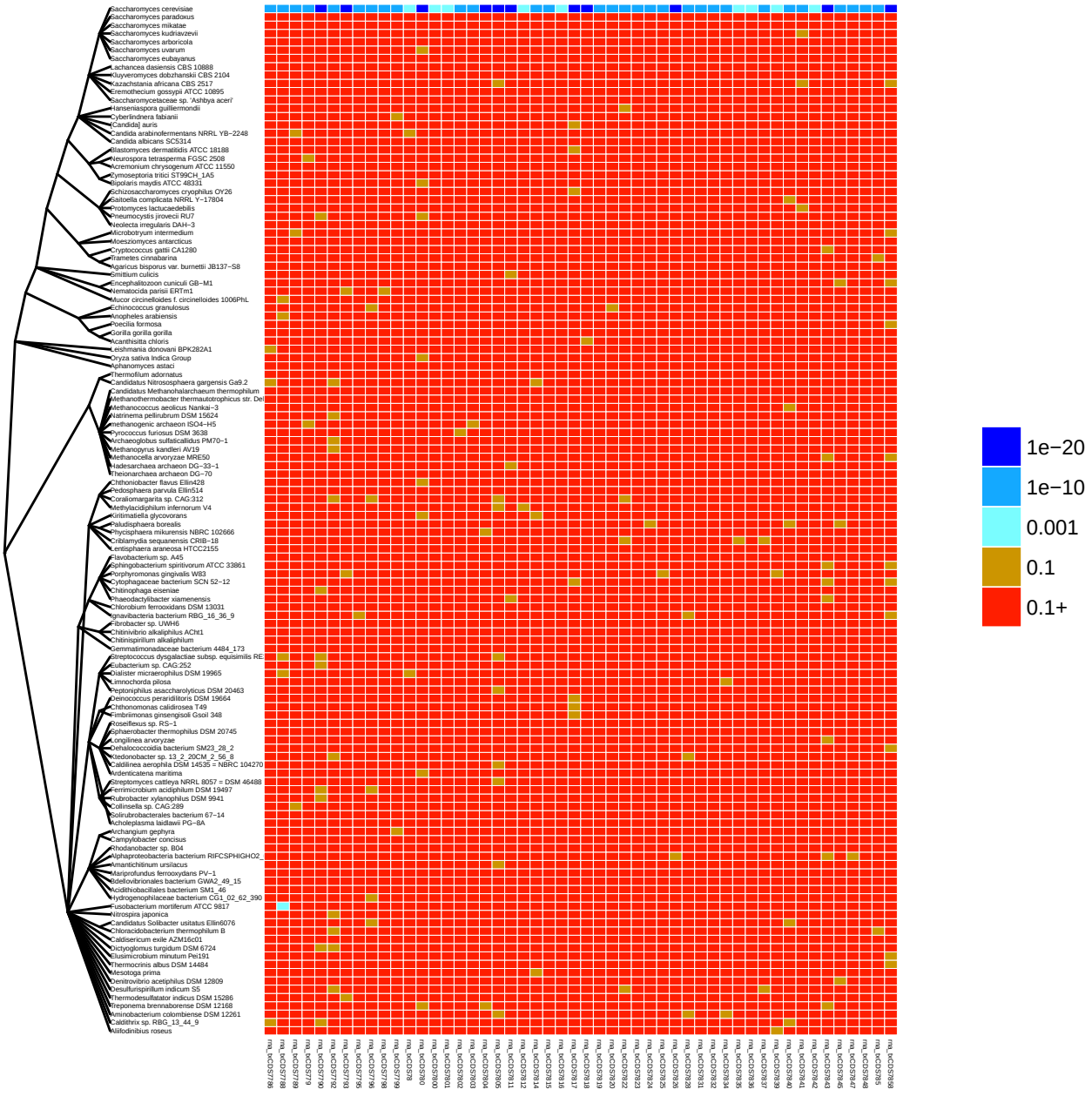

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mu_bCDS7389
mu_bCDS7400
mu_bCDS7401
mu_bCDS7402
mu_bCDS7403
mu_bCDS7404
mu_bCDS7405
mu_bCDS7406
mu_bCDS7408
mu_bCDS7409
mu_bCDS7411
mu_bCDS7410
mu_bCDS7413
mu_bCDS7414
mu_bCDS7415
mu_bCDS7416
mu_bCDS7417
mu_bCDS7418
mu_bCDS7419
mu_bCDS7422
mu_bCDS7423
mu_bCDS7424
mu_bCDS7425
mu_bCDS7427
mu_bCDS7428
mu_bCDS7429
mu_bCDS7430
mu_bCDS7431
mu_bCDS7432
mu_bCDS7435
mu_bCDS7437
mu_bCDS7440
mu_bCDS7444
mu_bCDS7442
mu_bCDS7445
mu_bCDS7446
mu_bCDS7447
mu_bCDS7448
mu_bCDS7450
mu_bCDS7452
mu_bCDS7455
mu_bCDS7456
mu_bCDS7457
mu_bCDS7459
mu_bCDS7460
mu_bCDS7461
mu_bCDS7462
mu_bCDS7463
1e−20
1e−10
0.001
0.1
0.1+

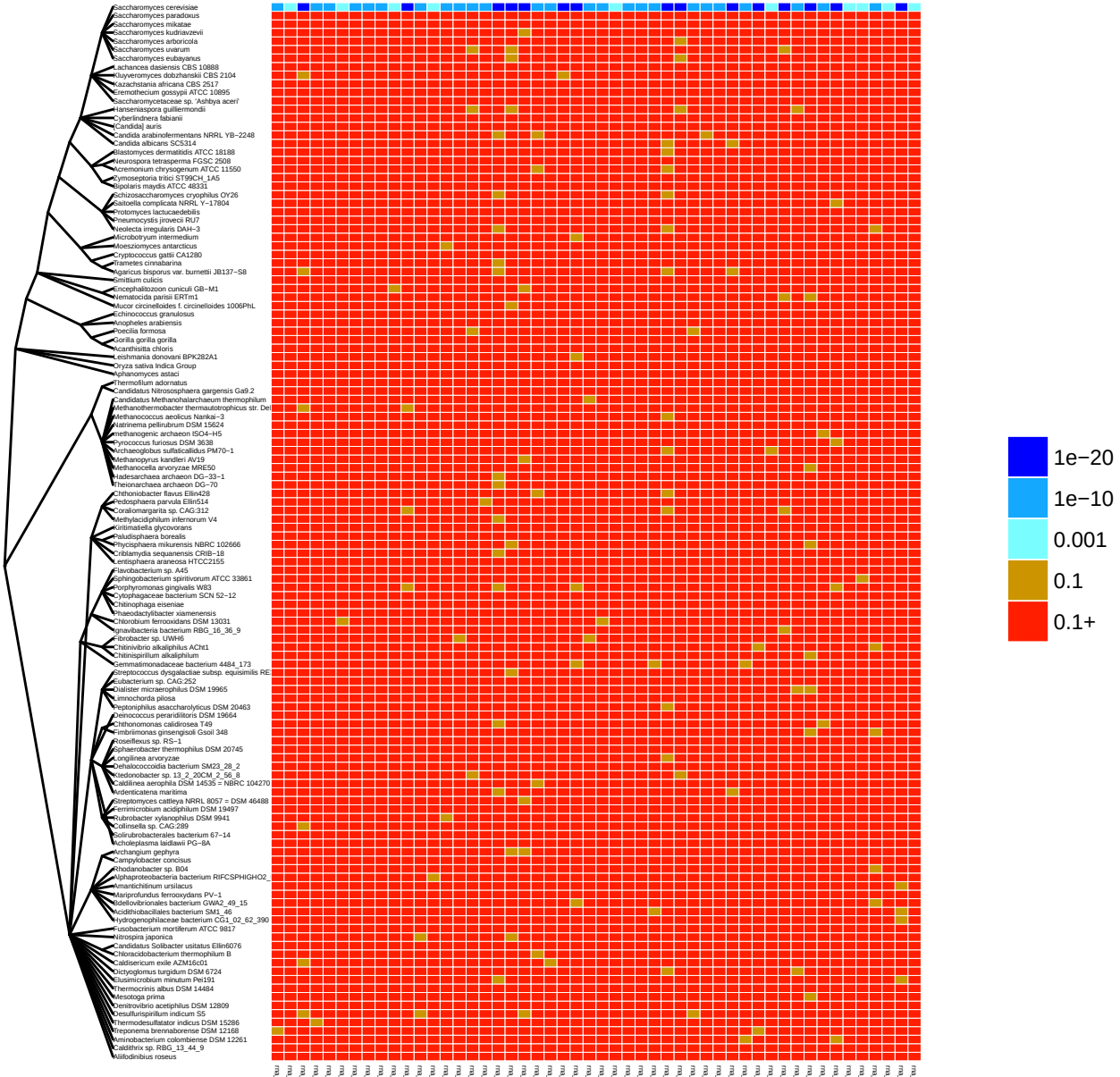

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonas
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis sp. R4
Candidatus Nitrosotenuis sp. J07TS1
Candidatus Nitrosotenuis sp. J07W1
Candidatus Nitrosotenuis sp. J07W2
Candidatus Nitrosotenuis sp. J07W3
Candidatus Nitrosotenuis sp. J07W4
Candidatus Nitrosotenuis sp. J07W5
Candidatus Nitrosotenuis sp. J07W6
Candidatus Nitrosotenuis sp. J07W7
Candidatus Nitrosotenuis sp. J07W8
Candidatus Nitrosotenuis sp. J07W9
Candidatus Nitrosotenuis sp. J07W10
Candidatus Nitrosotenuis sp. J07W11
Candidatus Nitrosotenuis sp. J07W12
Candidatus Nitrosotenuis sp. J07W13
Candidatus Nitrosotenuis sp. J07W14
Candidatus Nitrosotenuis sp. J07W15
Candidatus Nitrosotenuis sp. J07W16
Candidatus Nitrosotenuis sp. J07W17
Candidatus Nitrosotenuis sp. J07W18
Candidatus Nitrosotenuis sp. J07W19
Candidatus Nitrosotenuis sp. J07W20
Candidatus Nitrosotenuis sp. J07W21
Candidatus Nitrosotenuis sp. J07W22
Candidatus Nitrosotenuis sp. J07W23
Candidatus Nitrosotenuis sp. J07W24
Candidatus Nitrosotenuis sp. J07W25
Candidatus Nitrosotenuis sp. J07W26
Candidatus Nitrosotenuis sp. J07W27
Candidatus Nitrosotenuis sp. J07W28
Candidatus Nitrosotenuis sp. J07W29
Candidatus Nitrosotenuis sp. J07W30
Candidatus Nitrosotenuis sp. J07W31
Candidatus Nitrosotenuis sp. J07W32
Candidatus Nitrosotenuis sp. J07W33
Candidatus Nitrosotenuis sp. J07W34
Candidatus Nitrosotenuis sp. J07W35
Candidatus Nitrosotenuis sp. J07W36
1e−20
1e−10
0.001
0.1
0.1+

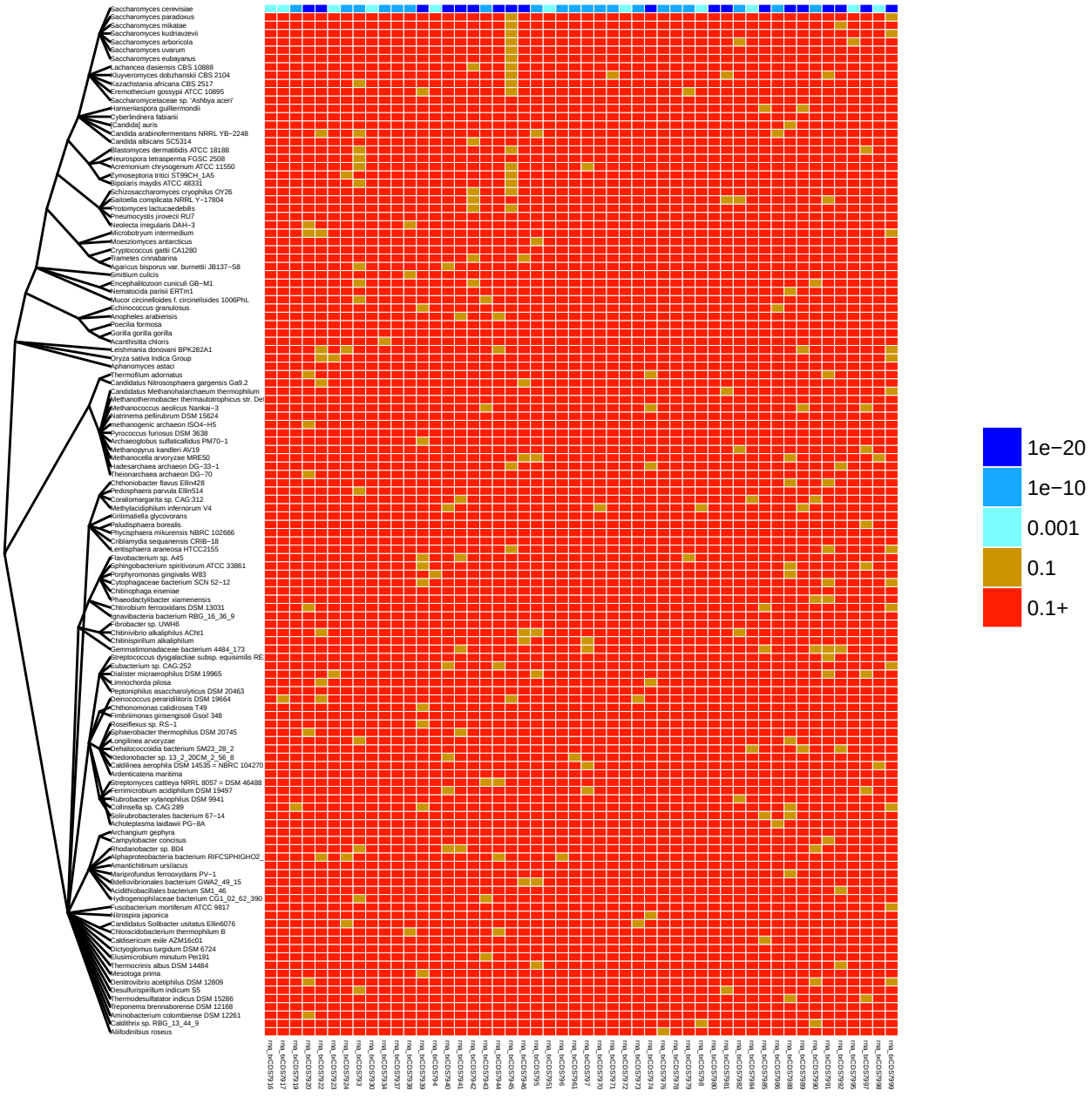

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

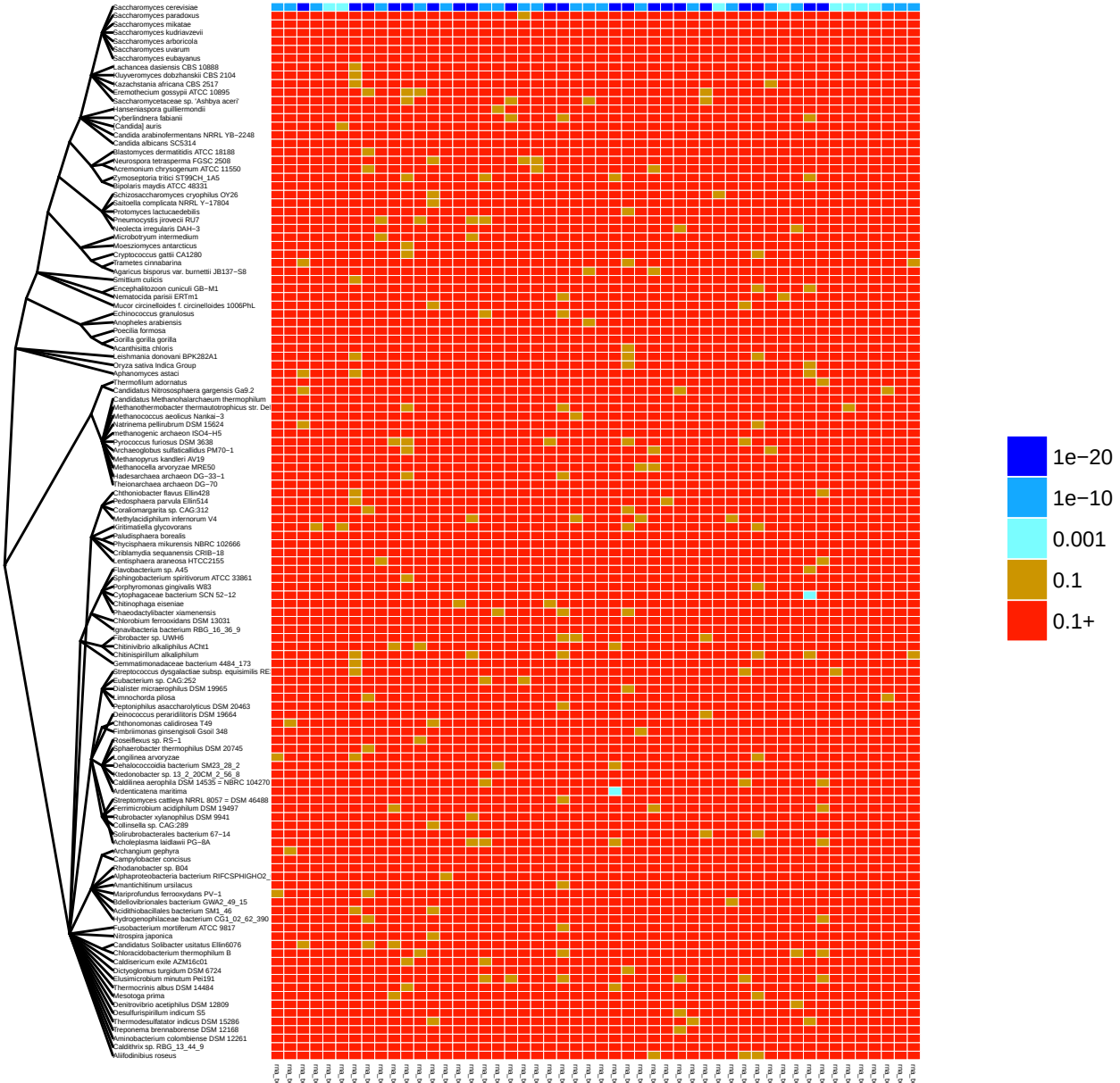

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

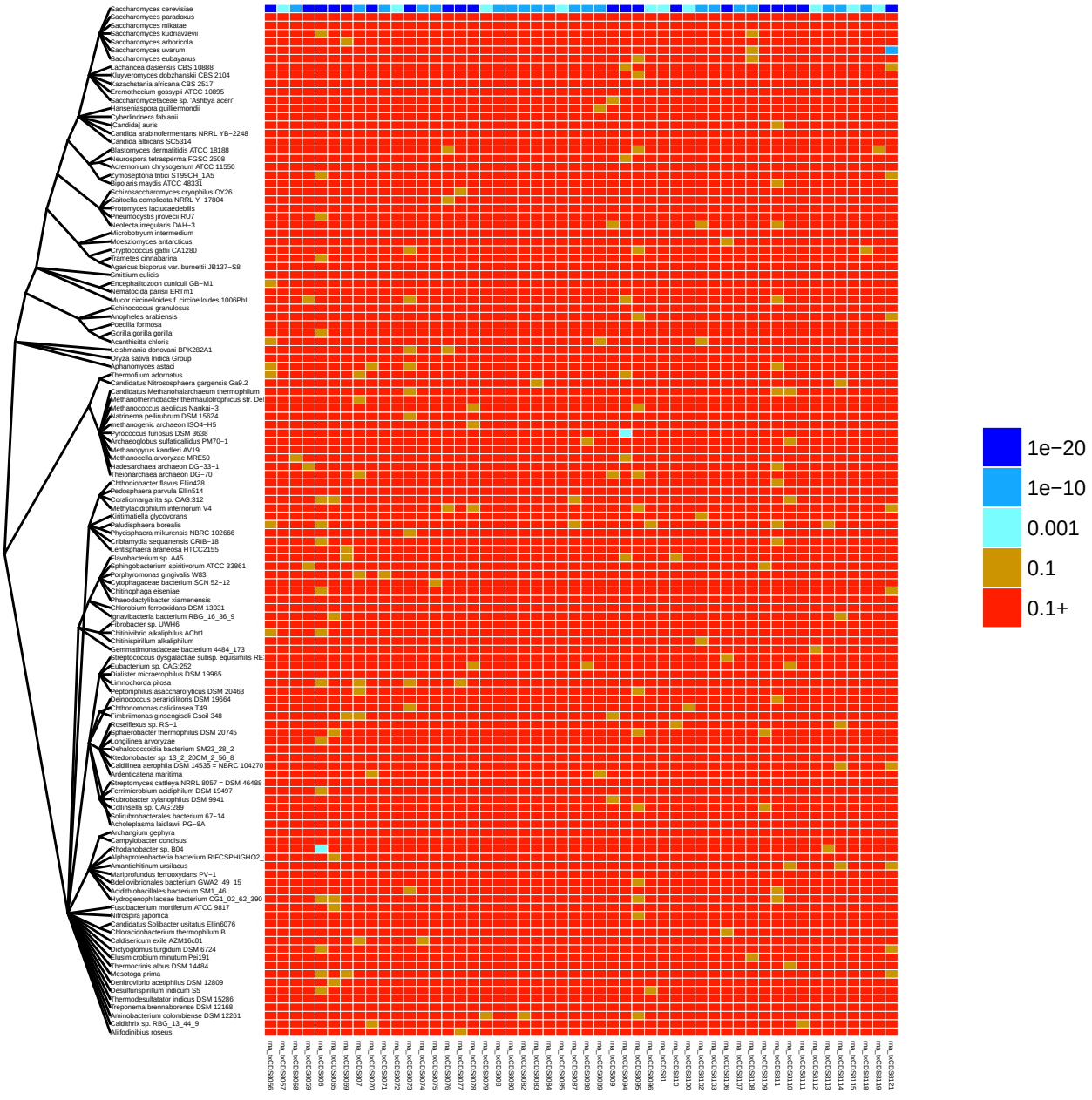

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Kuenenia stuttgartiensis RBG_13_44_9
Nitrosopumilus maritimus SCM1
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotenuis chungbukensis MJ1
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonasi
Candidatus Nitrosotenuis Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis Nitrosotenuis sp. DW4
Candidatus Nitrosotenuis Nitrosotenuis sp. DW5
Candidatus Nitrosotenuis Nitrosotenuis sp. DW6
Candidatus Nitrosotenuis Nitrosotenuis sp. DW7
Candidatus Nitrosotenuis Nitrosotenuis sp. DW8
Candidatus Nitrosotenuis Nitrosotenuis sp. DW9
Candidatus Nitrosotenuis Nitrosotenuis sp. DW10
Candidatus Nitrosotenuis Nitrosotenuis sp. DW11
Candidatus Nitrosotenuis Nitrosotenuis sp. DW12
Candidatus Nitrosotenuis Nitrosotenuis sp. DW13
Candidatus Nitrosotenuis Nitrosotenuis sp. DW14
Candidatus Nitrosotenuis Nitrosotenuis sp. DW15
Candidatus Nitrosotenuis Nitrosotenuis sp. DW16
Candidatus Nitrosotenuis Nitrosotenuis sp. DW17
Candidatus Nitrosotenuis Nitrosotenuis sp. DW18
Candidatus Nitrosotenuis Nitrosotenuis sp. DW19
Candidatus Nitrosotenuis Nitrosotenuis sp. DW20
Candidatus Nitrosotenuis Nitrosotenuis sp. DW21
Candidatus Nitrosotenuis Nitrosotenuis sp. DW22
Candidatus Nitrosotenuis Nitrosotenuis sp. DW23
Candidatus Nitrosotenuis Nitrosotenuis sp. DW24
Candidatus Nitrosotenuis Nitrosotenuis sp. DW25
Candidatus Nitrosotenuis Nitrosotenuis sp. DW26
Candidatus Nitrosotenuis Nitrosotenuis sp. DW27
Candidatus Nitrosotenuis Nitrosotenuis sp. DW28
Candidatus Nitrosotenuis Nitrosotenuis sp. DW29
Candidatus Nitrosotenuis Nitrosotenuis sp. DW30
Candidatus Nitrosotenuis Nitrosotenuis sp. DW31
Candidatus Nitrosotenuis Nitrosotenuis sp. DW32
Candidatus Nitrosotenuis Nitrosotenuis sp. DW33
Candidatus Nitrosotenuis Nitrosotenuis sp. DW34
Candidatus Nitrosotenuis Nitrosotenuis sp. DW35
Candidatus Nitrosotenuis Nitrosotenuis sp. DW36
Candidatus Nitrosotenuis Nitrosotenuis sp. DW37
Candidatus Nitrosotenuis Nitrosotenuis sp. DW38
Candidatus Nitrosotenuis Nitrosotenuis sp. DW39
Candidatus Nitrosotenuis Nitrosotenuis sp. DW40
Candidatus Nitrosotenuis Nitrosotenuis sp. DW41
Candidatus Nitrosotenuis Nitrosotenuis sp. DW42
Candidatus Nitrosotenuis Nitrosotenuis sp. DW43
Candidatus Nitrosotenuis Nitrosotenuis sp. DW44
Candidatus Nitrosotenuis Nitrosotenuis sp. DW45
Candidatus Nitrosotenuis Nitrosotenuis sp. DW46
Candidatus Nitrosotenuis Nitrosotenuis sp. DW47
Candidatus Nitrosotenuis Nitrosotenuis sp. DW48
Candidatus Nitrosotenuis Nitrosotenuis sp. DW49
Candidatus Nitrosotenuis Nitrosotenuis sp. DW50
Candidatus Nitrosotenuis Nitrosotenuis sp. DW51
Candidatus Nitrosotenuis Nitrosotenuis sp. DW52
Candidatus Nitrosotenuis Nitrosotenuis sp. DW53
Candidatus Nitrosotenuis Nitrosotenuis sp. DW54
Candidatus Nitrosotenuis Nitrosotenuis sp. DW55
Candidatus Nitrosotenuis Nitrosotenuis sp. DW56
Candidatus Nitrosotenuis Nitrosotenuis sp. DW57
Candidatus Nitrosotenuis Nitrosotenuis sp. DW58
Candidatus Nitrosotenuis Nitrosotenuis sp. DW59
Candidatus Nitrosotenuis Nitrosotenuis sp. DW60
Candidatus Nitrosotenuis Nitrosotenuis sp. DW61
Candidatus Nitrosotenuis Nitrosotenuis sp. DW62
Candidatus Nitrosotenuis Nitrosotenuis sp. DW63
Candidatus Nitrosotenuis Nitrosotenuis sp. DW64
Candidatus Nitrosotenuis Nitrosotenuis sp. DW65
Candidatus Nitrosotenuis Nitrosotenuis sp. DW66
Candidatus Nitrosotenuis Nitrosotenuis sp. DW67
Candidatus Nitrosotenuis Nitrosotenuis sp. DW68
Candidatus Nitrosotenuis Nitrosotenuis sp. DW69
Candidatus Nitrosotenuis Nitrosotenuis sp. DW70
Candidatus Nitrosotenuis Nitrosotenuis sp. DW71
Candidatus Nitrosotenuis Nitrosotenuis sp. DW72
Candidatus Nitrosotenuis Nitrosotenuis sp. DW73
Candidatus Nitrosotenuis Nitrosotenuis sp. DW74
Candidatus Nitrosotenuis Nitrosotenuis sp. DW75
Candidatus Nitrosotenuis Nitrosotenuis sp. DW76
Candidatus Nitrosotenuis Nitrosotenuis sp. DW77
Candidatus Nitrosotenuis Nitrosotenuis sp. DW78
Candidatus Nitrosotenuis Nitrosotenuis sp. DW79
Candidatus Nitrosotenuis Nitrosotenuis sp. DW80
Candidatus Nitrosotenuis Nitrosotenuis sp. DW81
Candidatus Nitrosotenuis Nitrosotenuis sp. DW82
Candidatus Nitrosotenuis Nitrosotenuis sp. DW83
Candidatus Nitrosotenuis Nitrosotenuis sp. DW84
Candidatus Nitrosotenuis Nitrosotenuis sp. DW85
1e−20
1e−10
0.001
0.1
0.1+

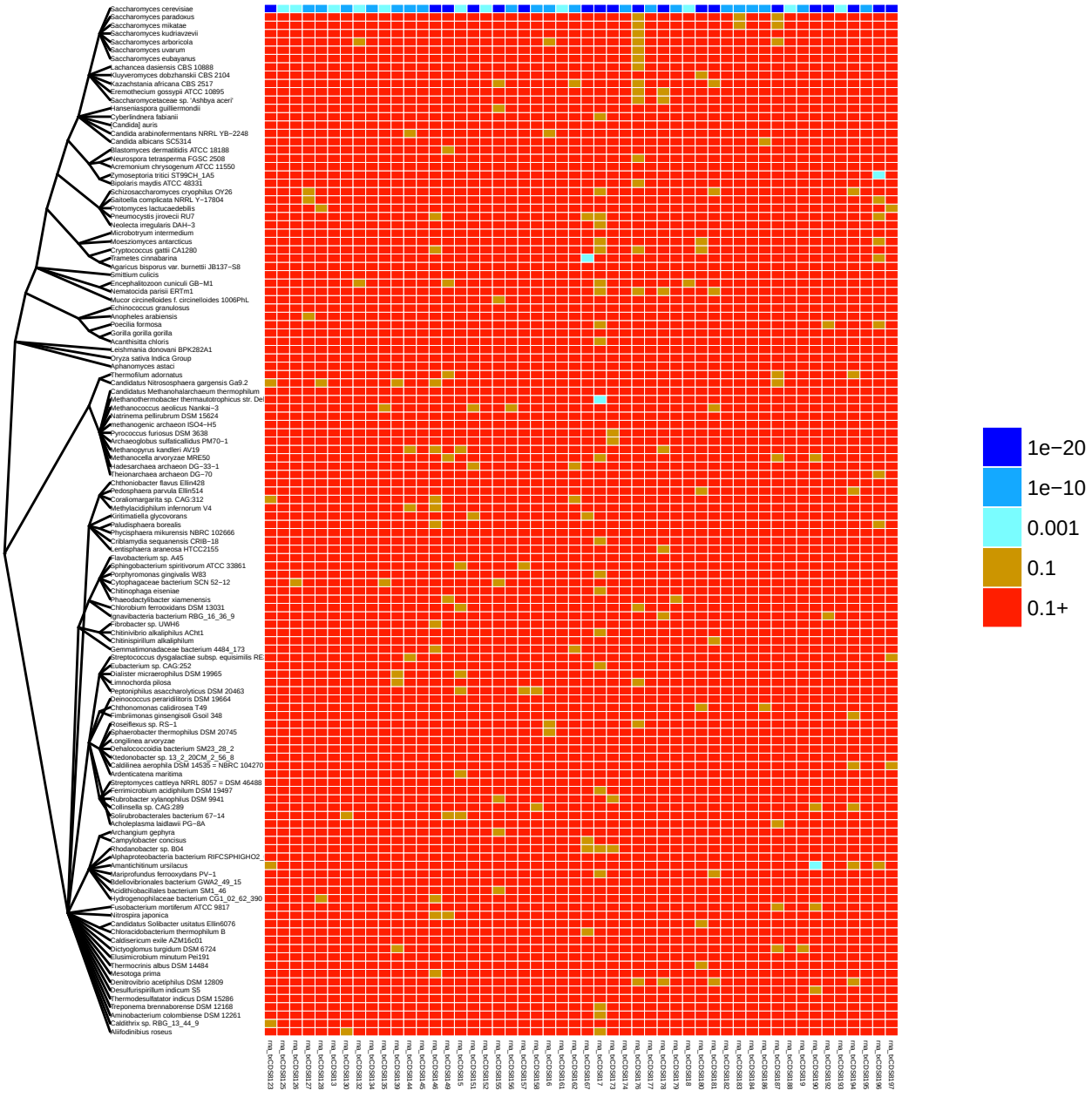

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_bCDS7786
ma_bCDS7789
ma_bCDS7791
ma_bCDS7790
ma_bCDS7793
ma_bCDS7795
ma_bCDS7796
ma_bCDS7798
ma_bCDS7799
ma_bCDS78
ma_bCDS7800
ma_bCDS7801
ma_bCDS7802
ma_bCDS7803
ma_bCDS7804
ma_bCDS7805
ma_bCDS7811
ma_bCDS7812
ma_bCDS7814
ma_bCDS7815
ma_bCDS7816
ma_bCDS7817
ma_bCDS7818
ma_bCDS7819
ma_bCDS7820
ma_bCDS7822
ma_bCDS7823
ma_bCDS7824
ma_bCDS7825
ma_bCDS7826
ma_bCDS7828
ma_bCDS7829
ma_bCDS7831
ma_bCDS7832
ma_bCDS7834
ma_bCDS7835
ma_bCDS7836
ma_bCDS7837
ma_bCDS7839
ma_bCDS7840
ma_bCDS7841
ma_bCDS7842
ma_bCDS7843
ma_bCDS7845
ma_bCDS7846
ma_bCDS7847
ma_bCDS7848
ma_bCDS7585
ma_bCDS7838
1e−20
1e−10
0.001
0.1
0.1+

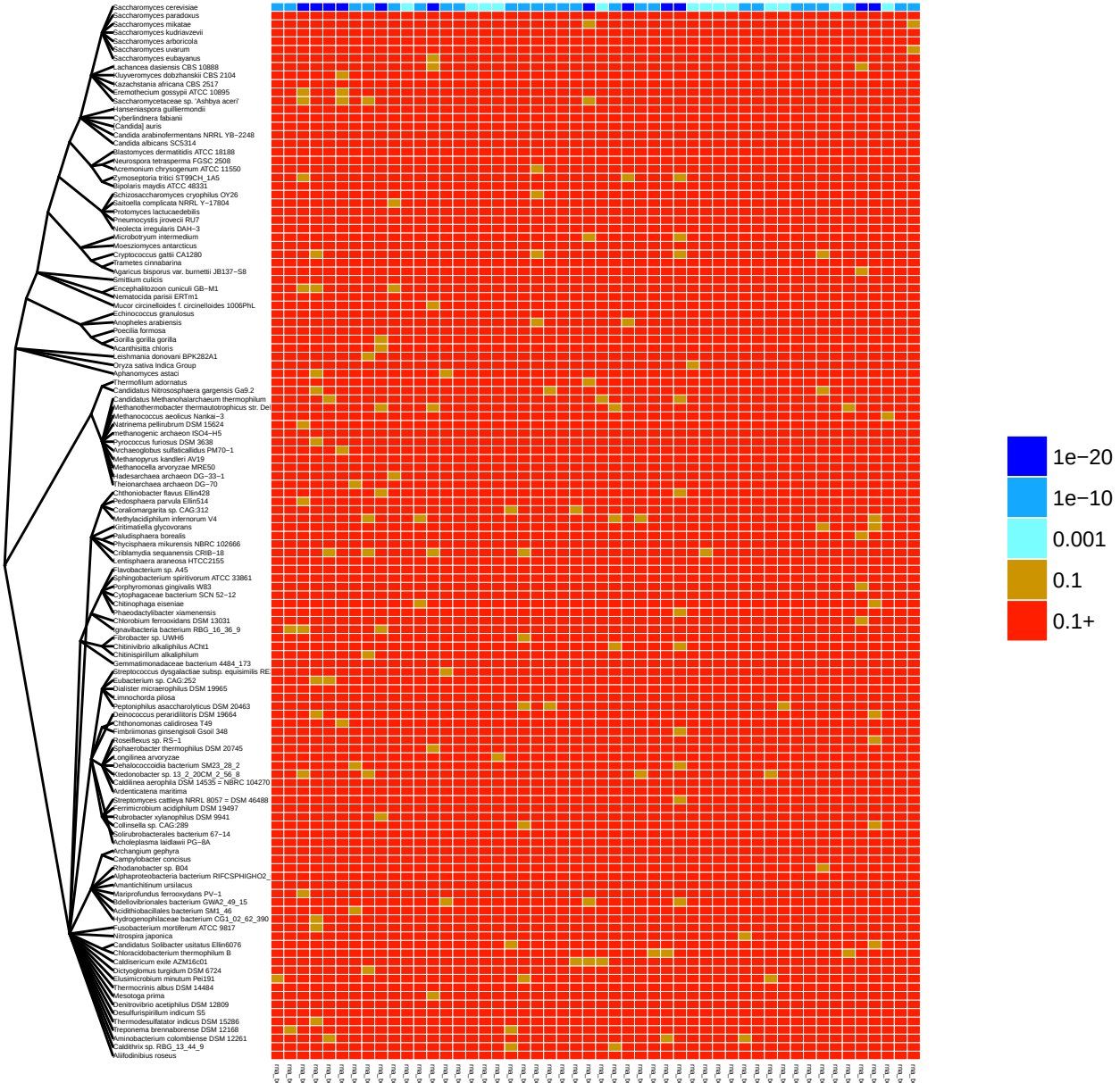

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

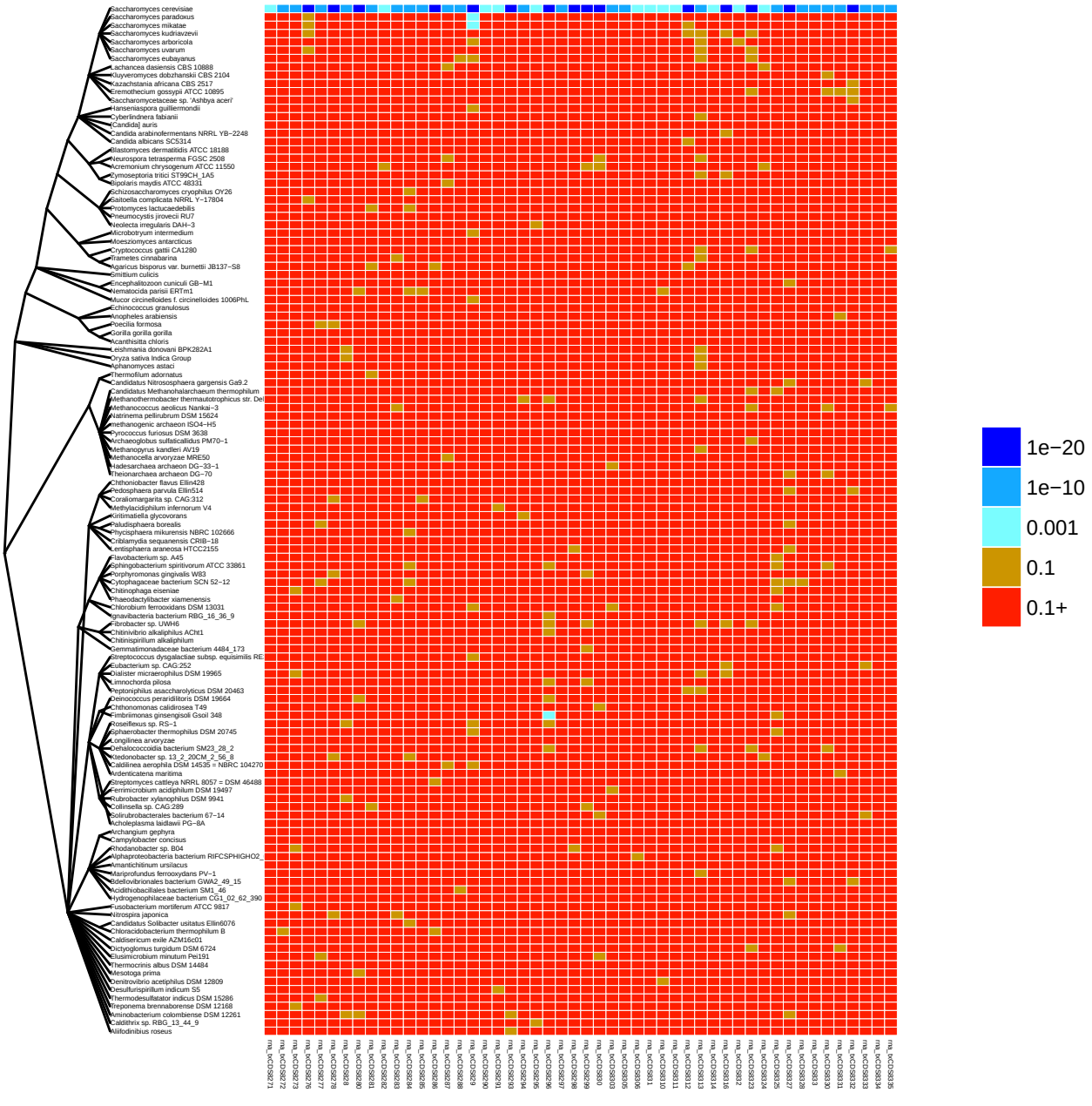

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

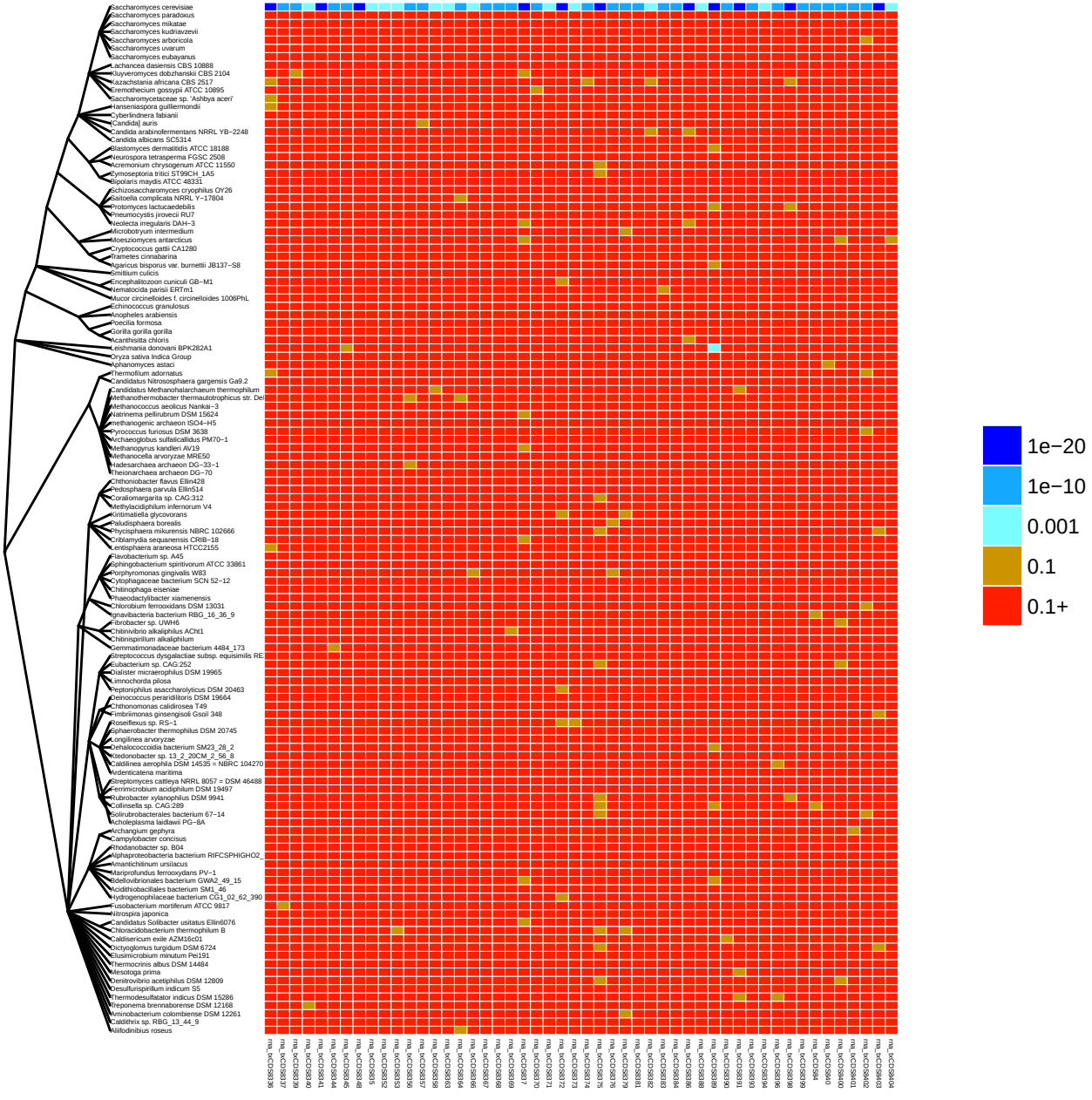

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

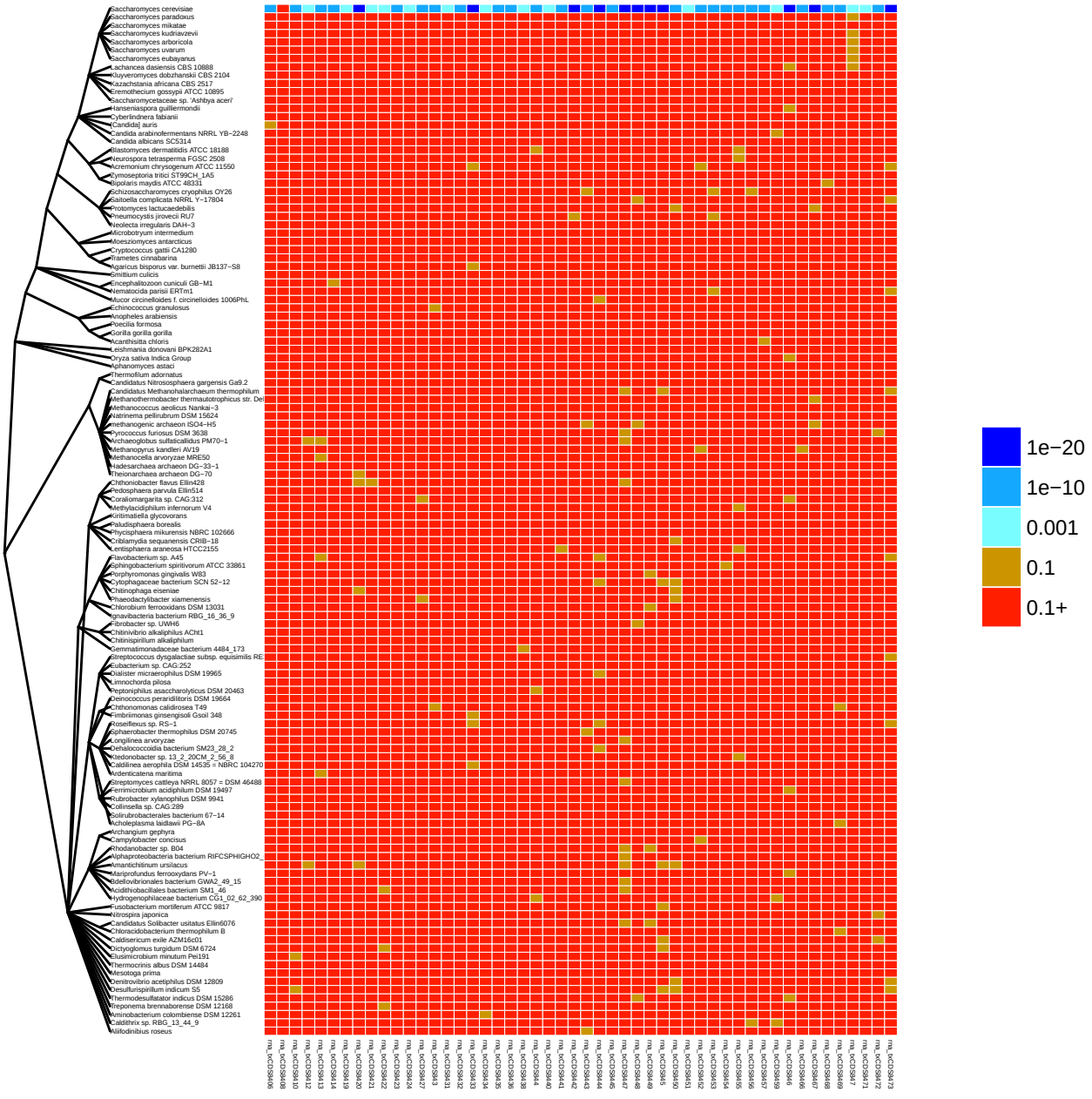

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

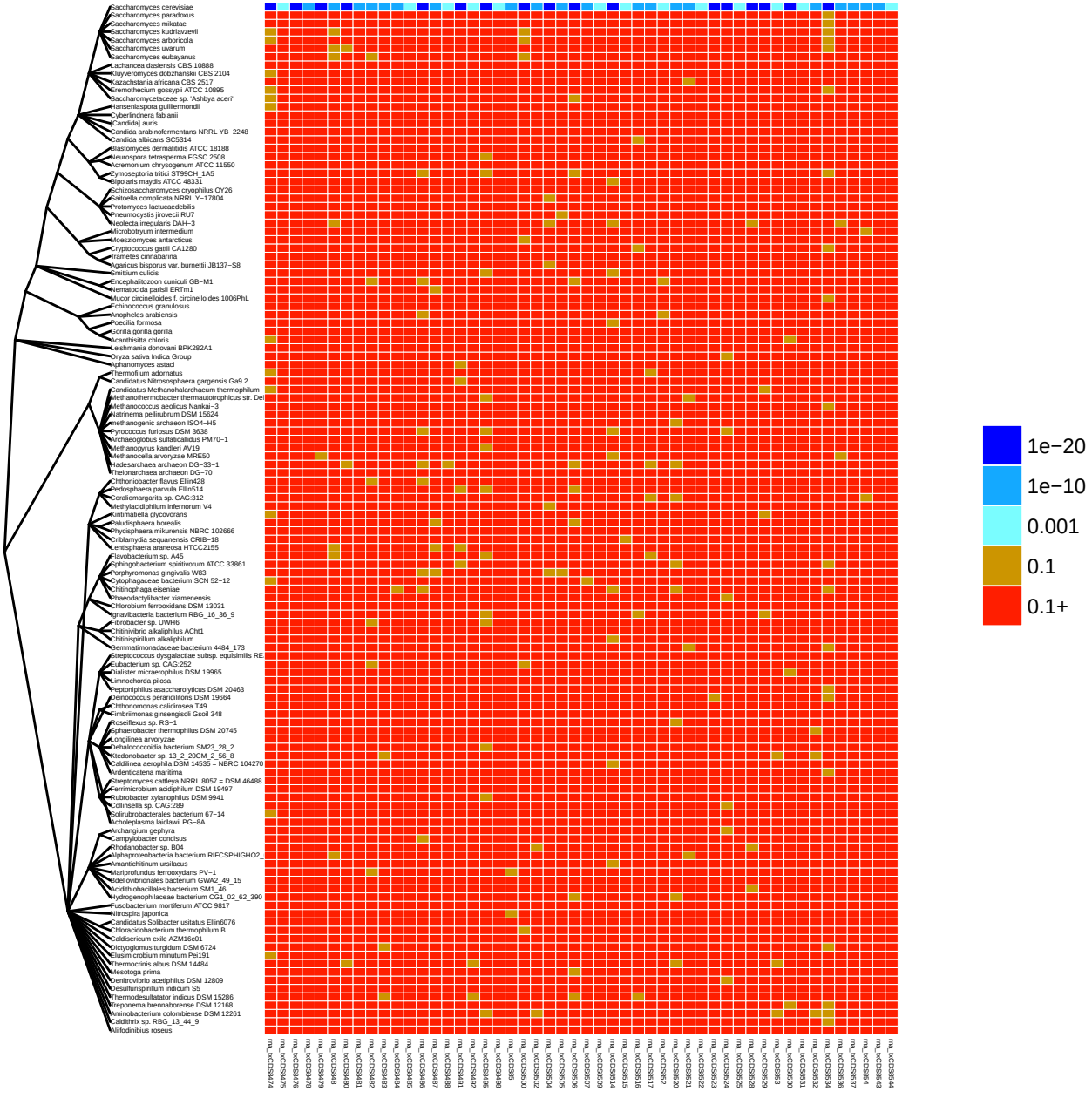

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

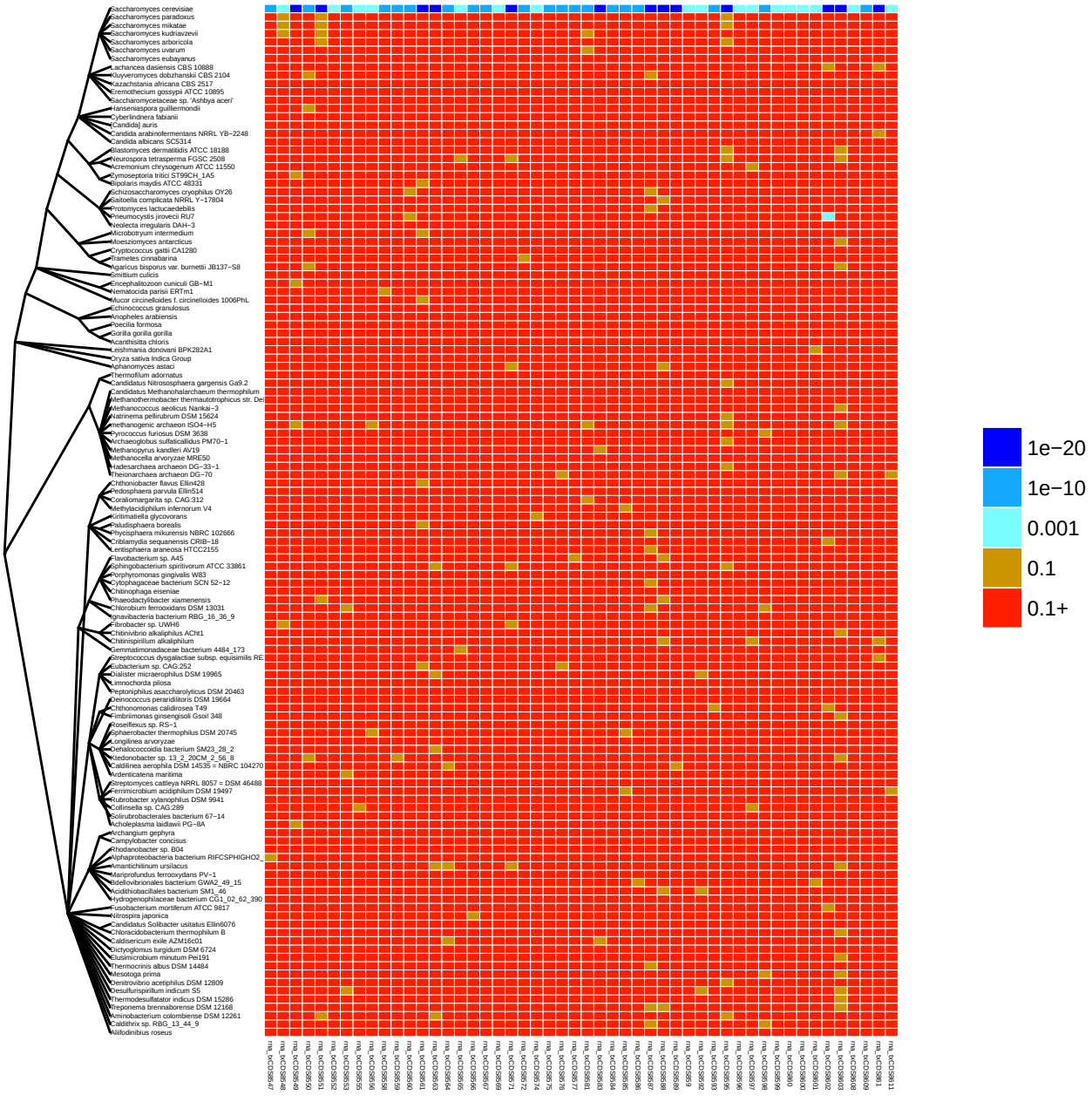

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

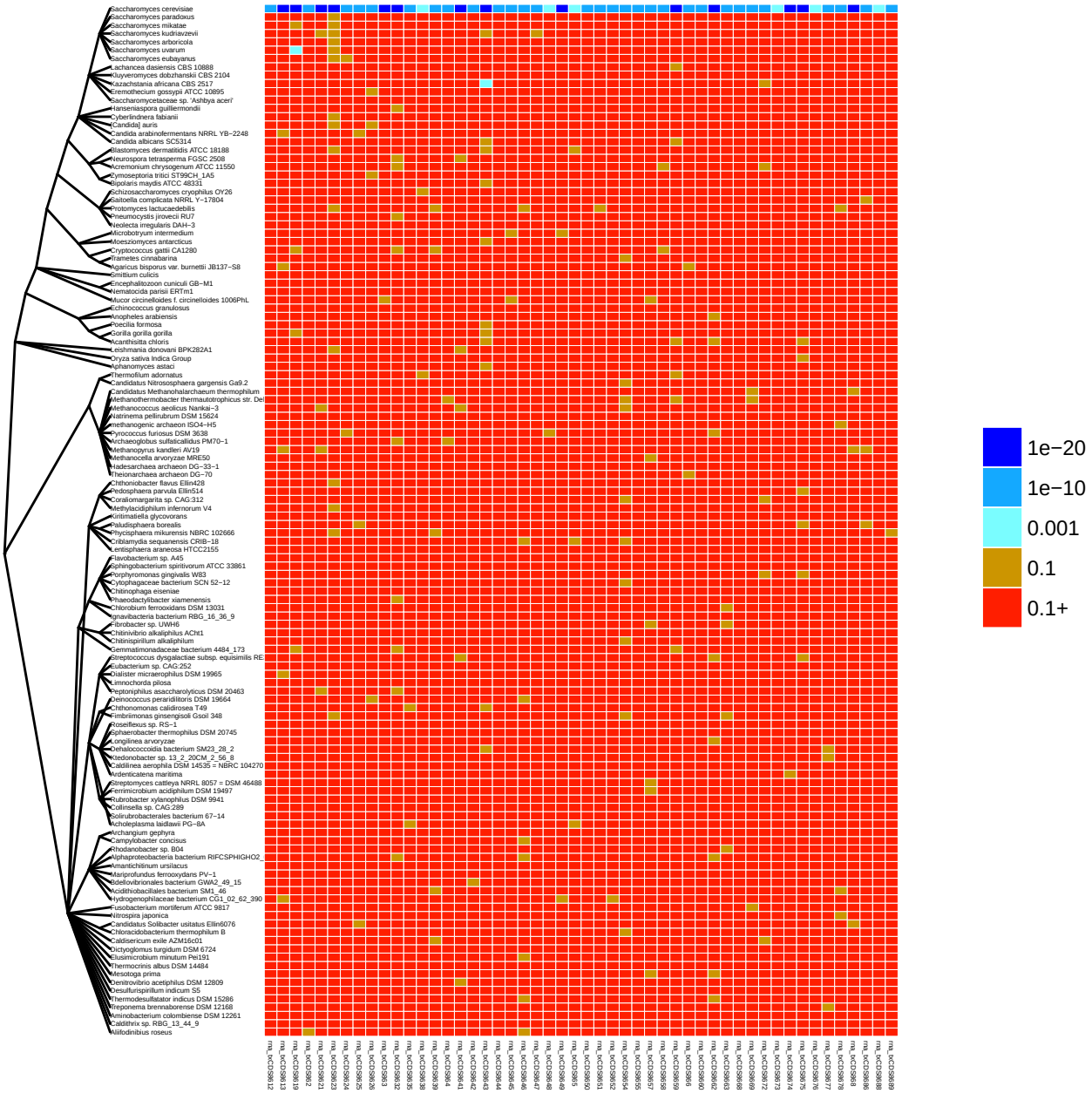

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromarganita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

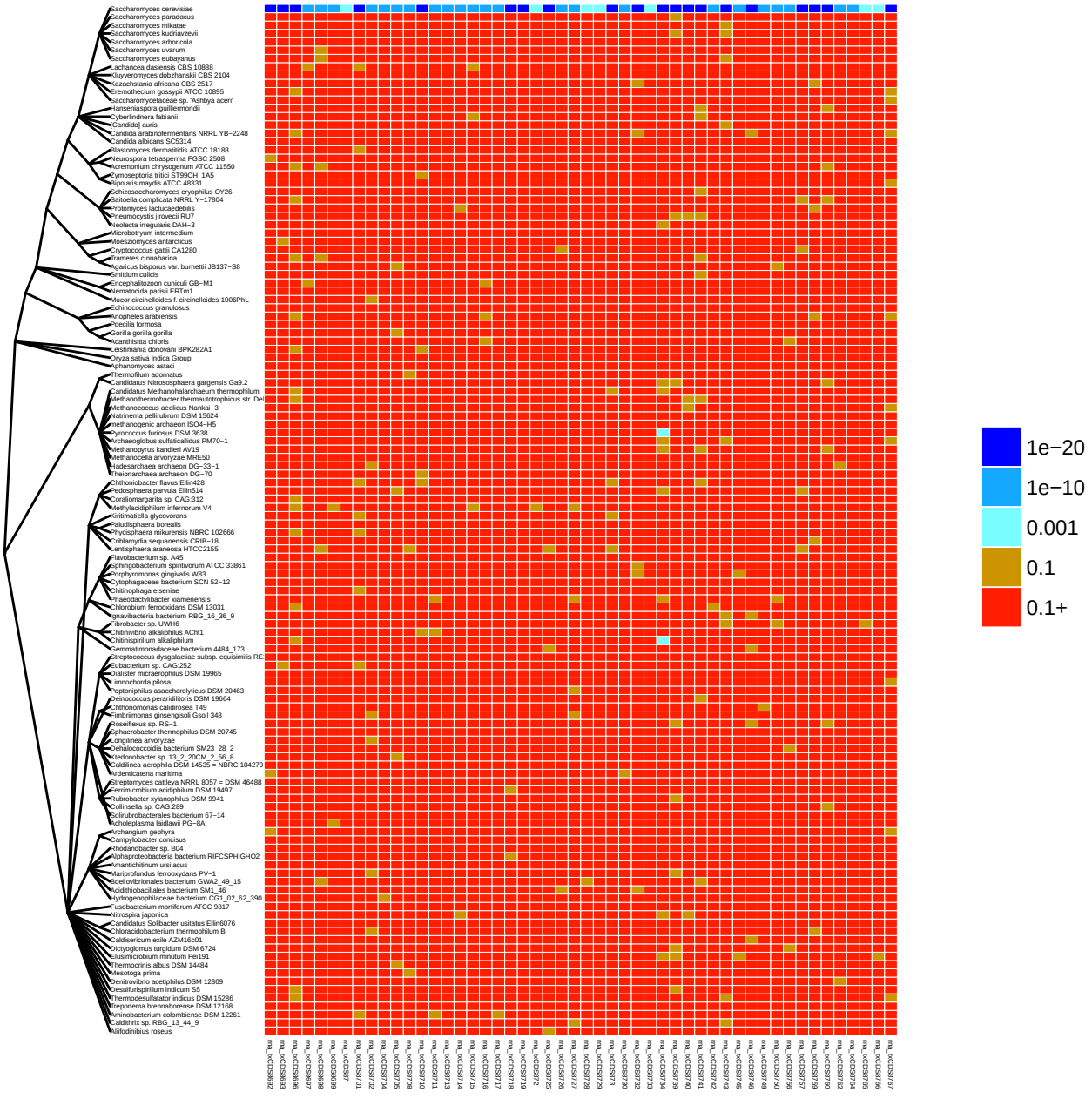

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

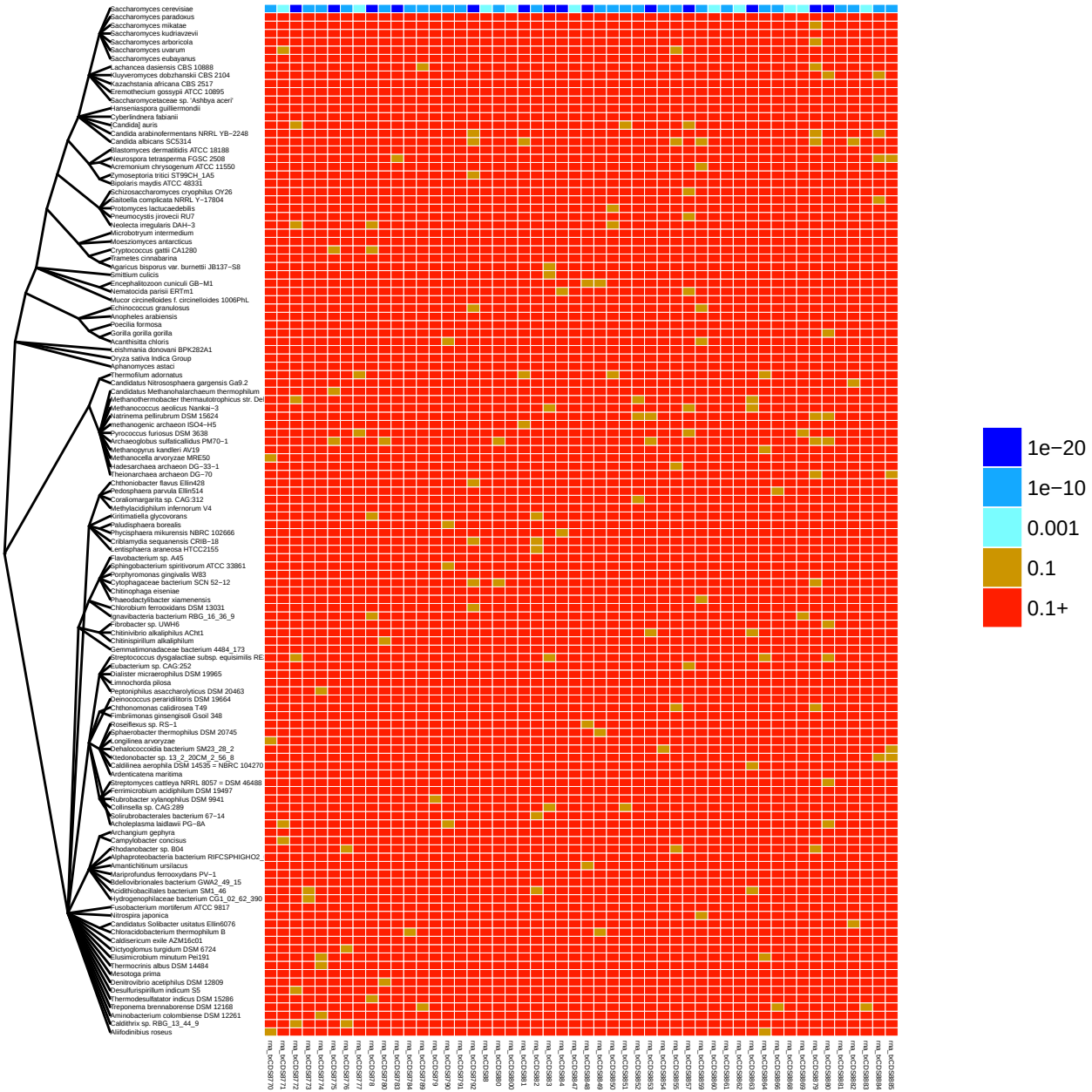

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Candidatus Korarchaeum cryptofilum OPF8
Candidatus Caldiarchaeum subterranum
Candidatus Aenigmarchaeota archaeon CG1_02_38_14
Candidatus Parvarchaeum acidiphilum ARMAN−4
Candidatus Micrarchaeota archaeon CG1_02_49_24
Candidatus Pacearchaeota archaeon CG1_02_60_30
Candidatus Woesearchaeota archaeon CG1_02_38_18
Candidatus Nanohaloarchaeota archaeon SG9
Candidatus Nanohaloarchaeota archaeon J07HX5
Candidatus Nanohaloarchaeota archaeon SG8
Candidatus Nanohaloarchaeota archaeon SG7
Candidatus Nanohaloarchaeota archaeon SG6
Candidatus Nanohaloarchaeota archaeon SG3
Candidatus Nanohaloarchaeota archaeon SG2
Candidatus Nanohaloarchaeota archaeon SG1
Candidatus Nanohaloarchaeota archaeon J07HQ5
Candidatus Nanohaloarchaeota archaeon J07HX64
Candidatus Nanohaloarchaeota archaeon J07HX6
Candidatus Nanohaloarchaeota archaeon J07HX5

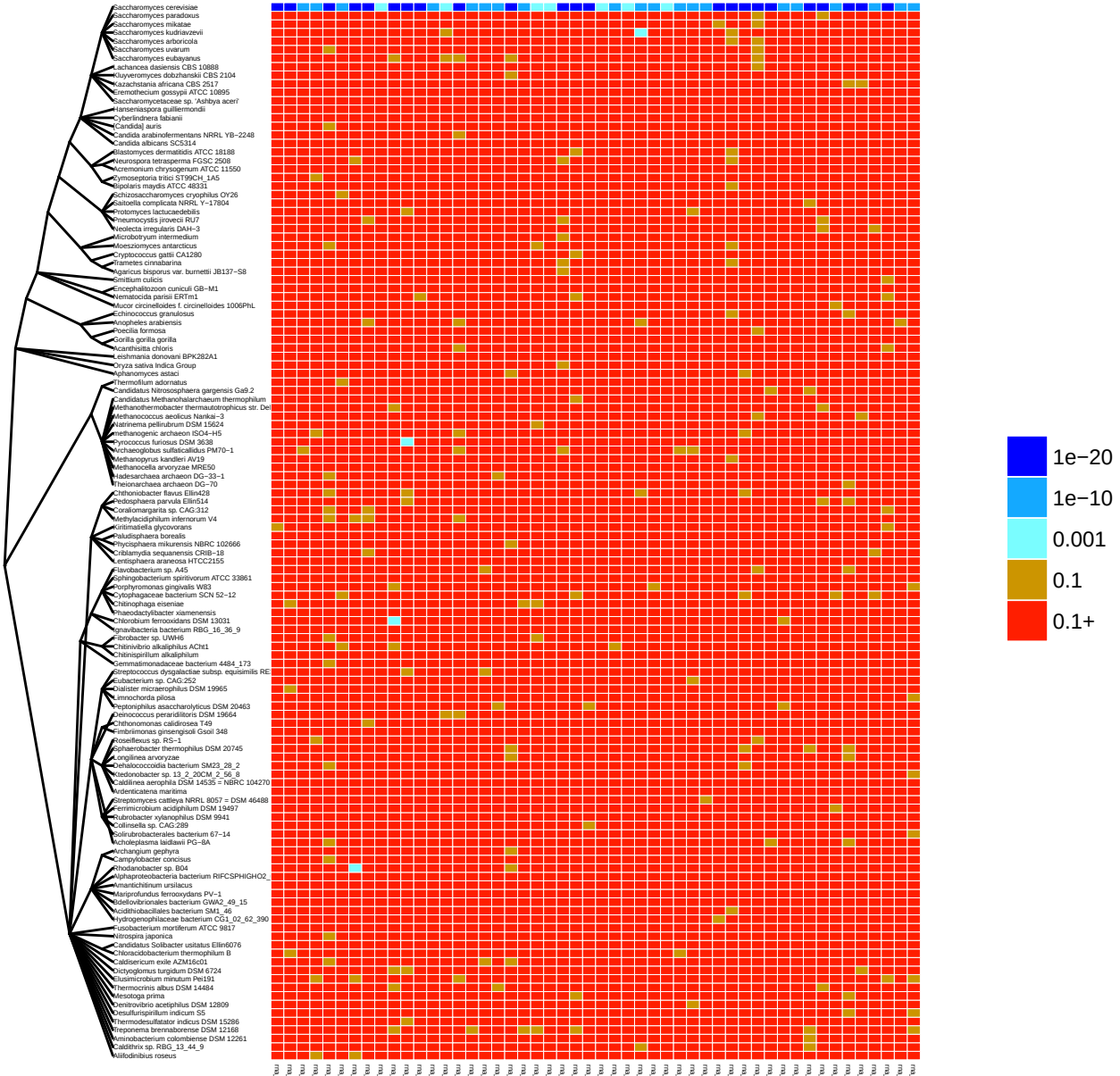

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

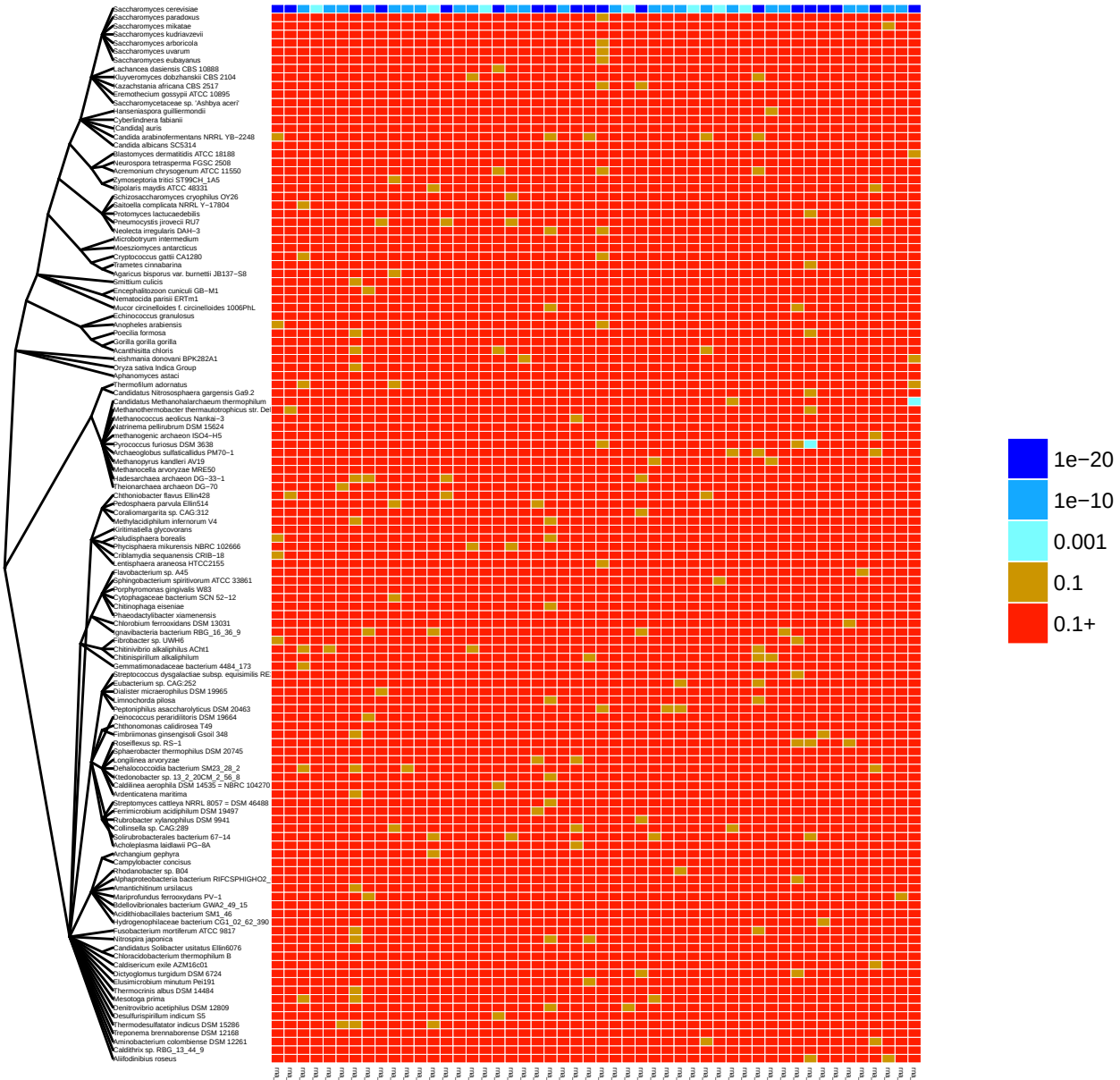

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

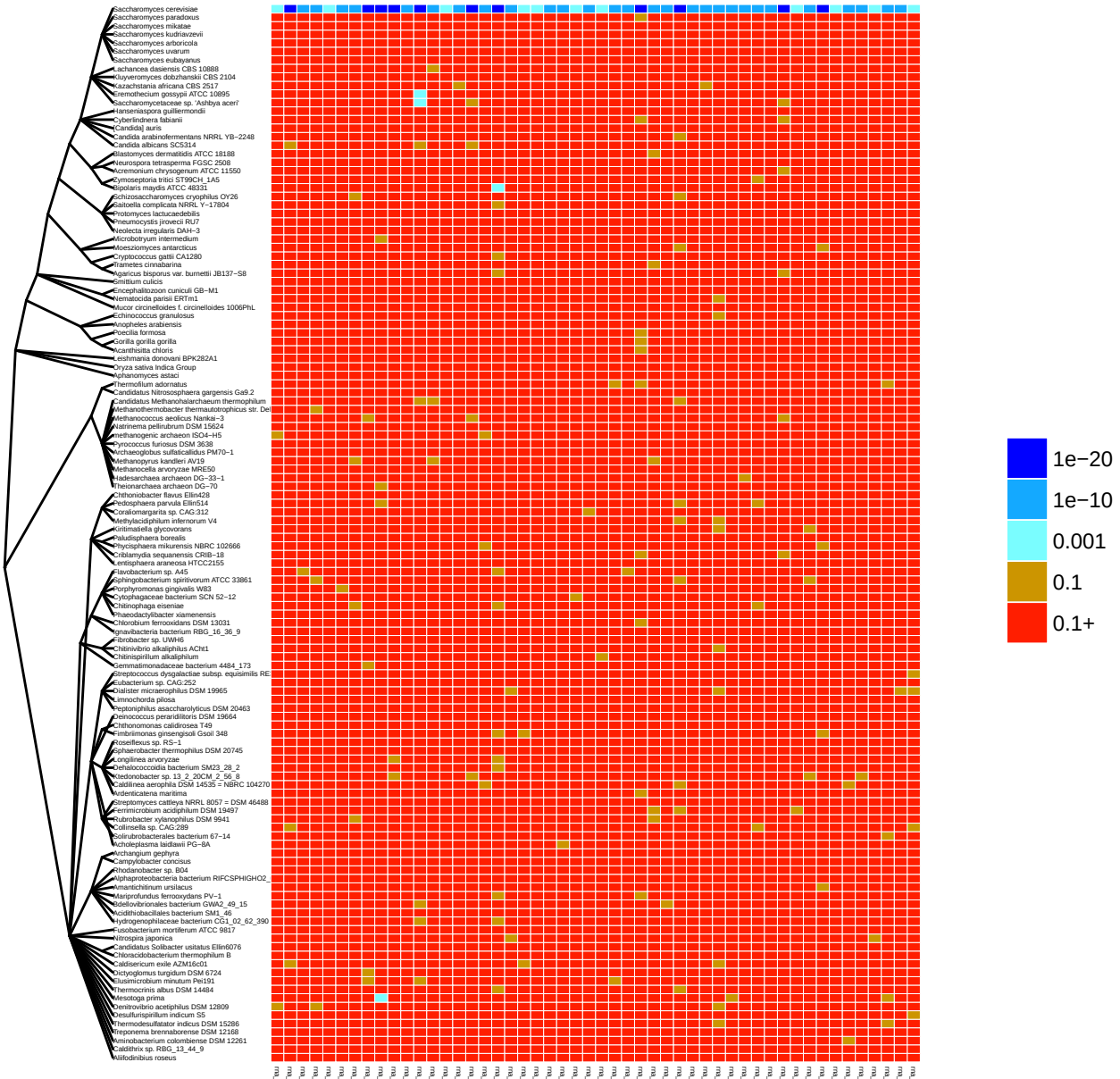

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niilofindinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

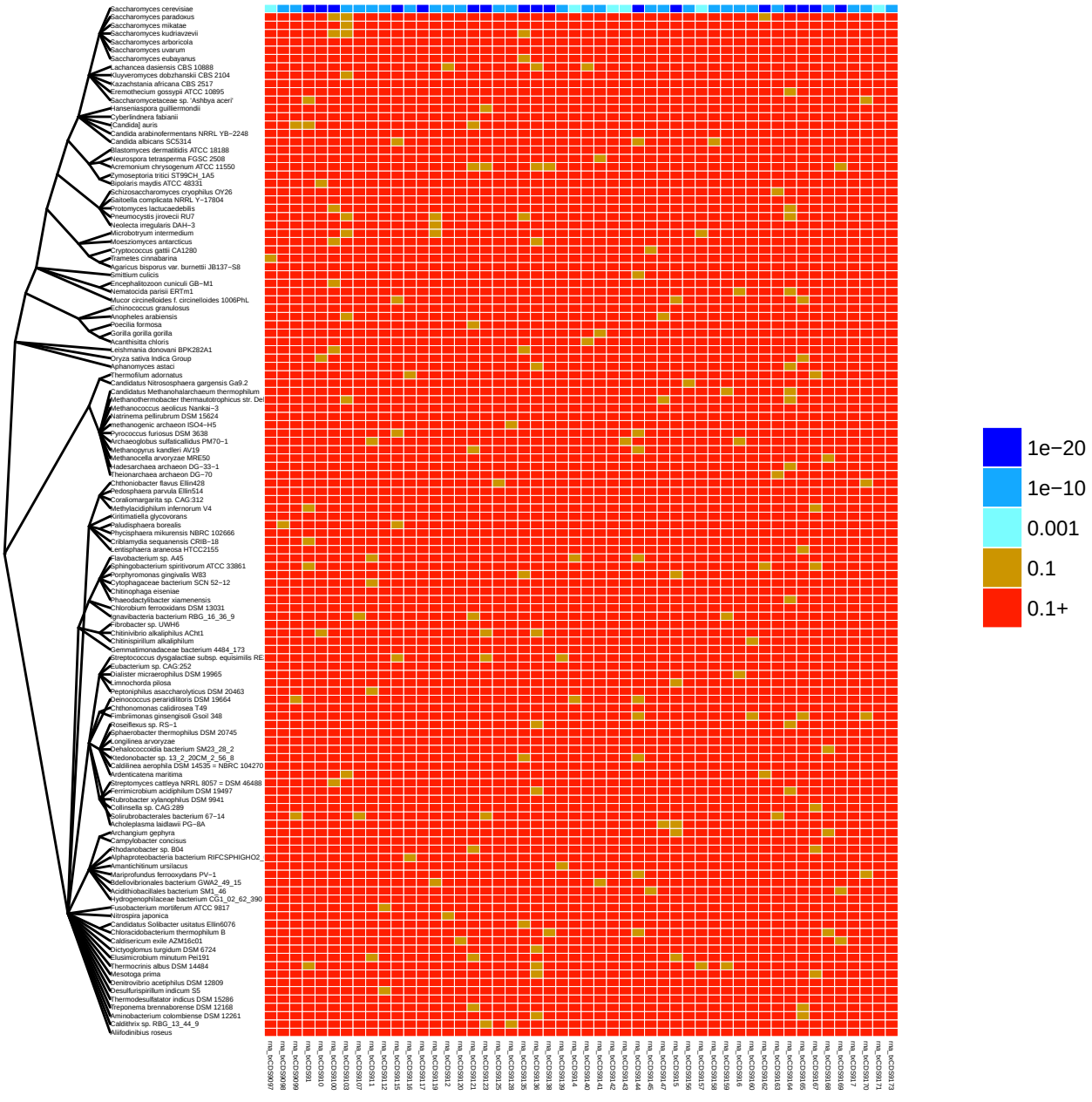

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

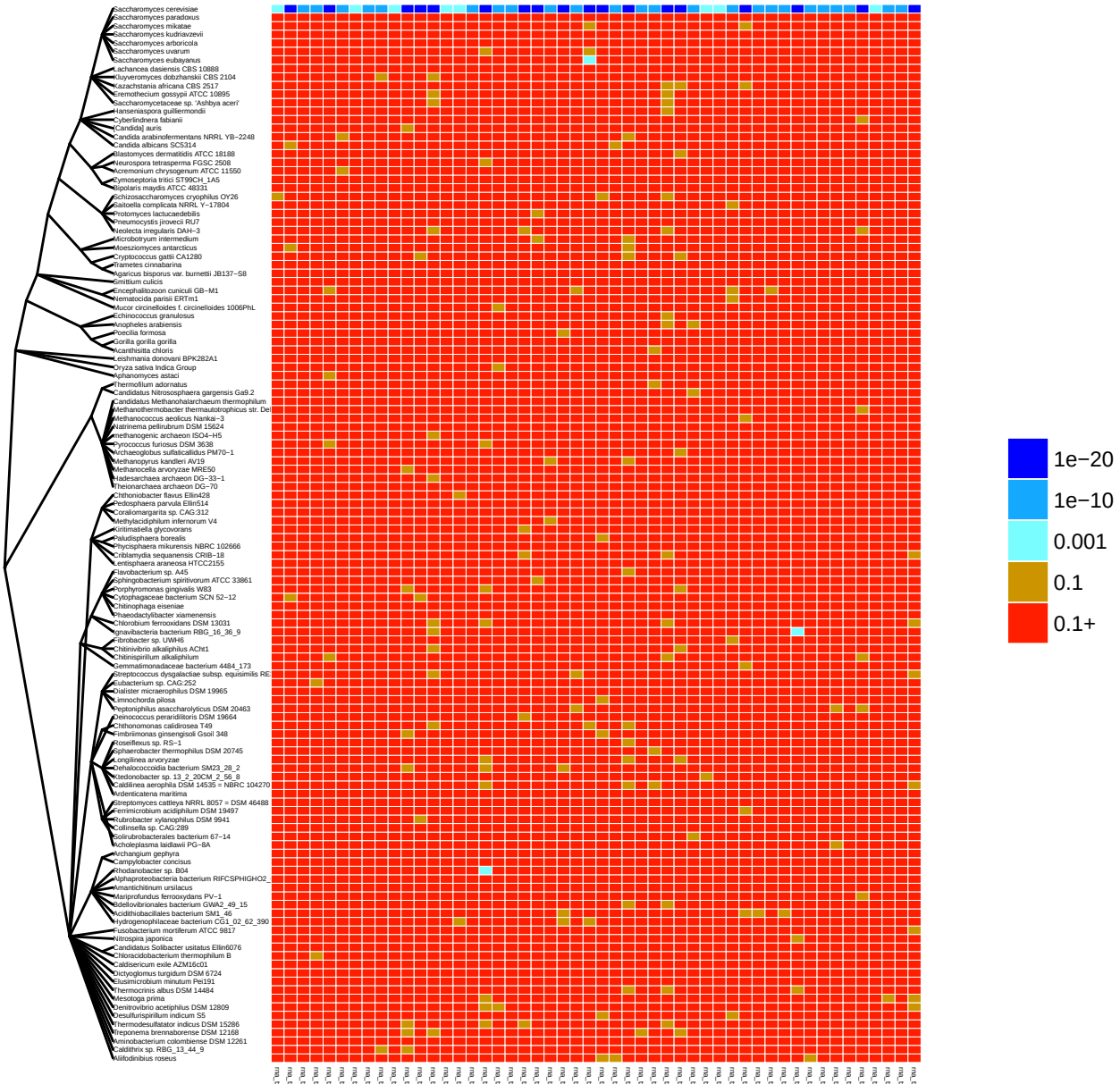

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_pCDS8770
mu_pCDS8771
mu_pCDS8772
mu_pCDS8773
mu_pCDS8774
mu_pCDS8775
mu_pCDS8776
mu_pCDS8777
mu_pCDS8778
mu_pCDS8780
mu_pCDS8783
mu_pCDS8784
mu_pCDS8789
mu_pCDS8790
mu_pCDS8791
mu_pCDS8792
mu_pCDS8388
mu_pCDS8380
mu_pCDS8381
mu_pCDS8382
mu_pCDS8383
mu_pCDS8384
mu_pCDS8847
mu_pCDS8848
mu_pCDS8849
mu_pCDS8850
mu_pCDS8851
mu_pCDS8852
mu_pCDS8853
mu_pCDS8854
mu_pCDS8855
mu_pCDS8857
mu_pCDS8859
mu_pCDS8860
mu_pCDS8861
mu_pCDS8862
mu_pCDS8863
mu_pCDS8864
mu_pCDS8866
mu_pCDS8868
mu_pCDS8869
mu_pCDS8879
mu_pCDS8880
mu_pCDS8881
mu_pCDS8882
mu_pCDS8883
mu_pCDS8884
mu_pCDS8885
1e−20
1e−10
0.001
0.1
0.1+

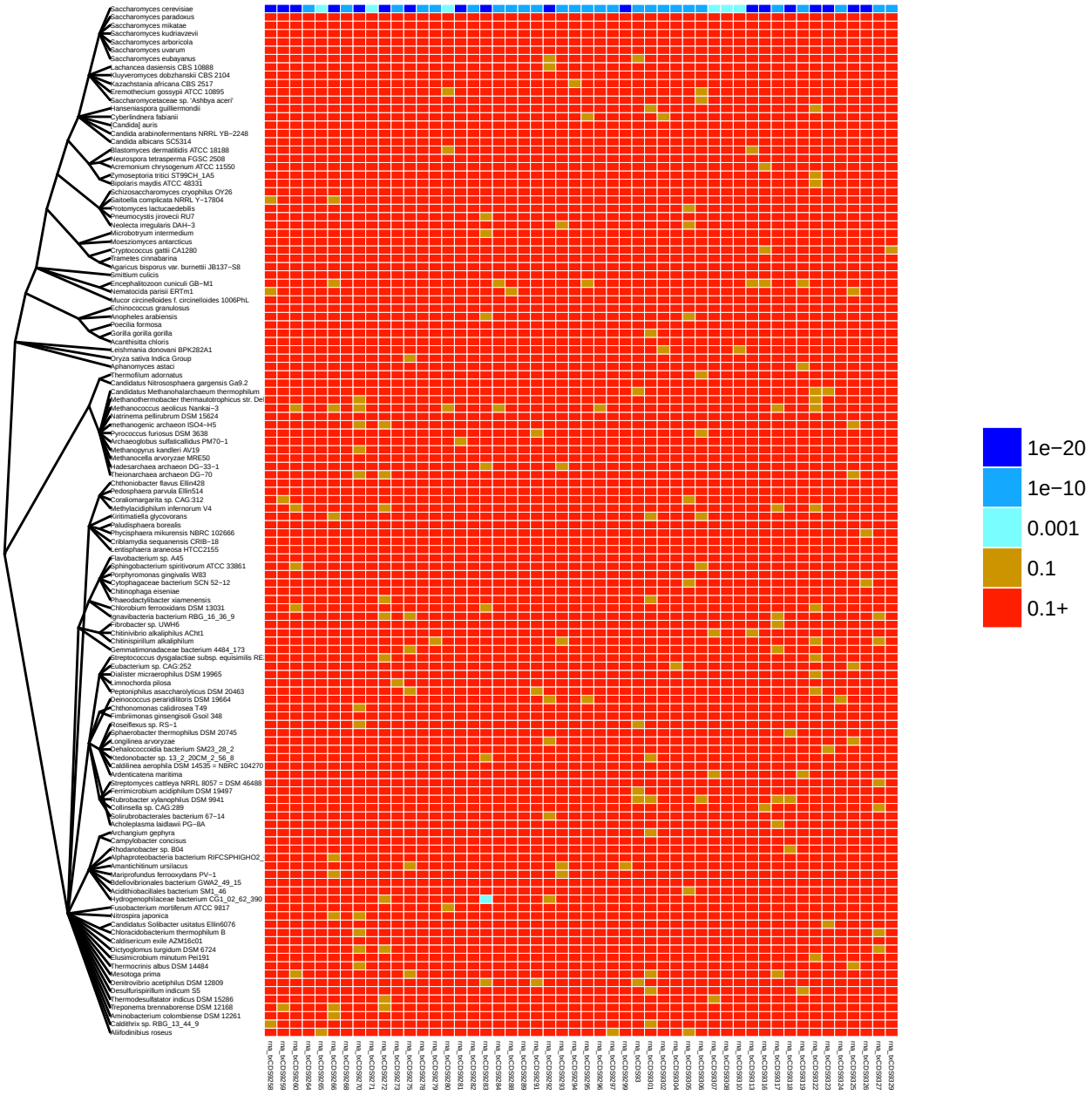

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

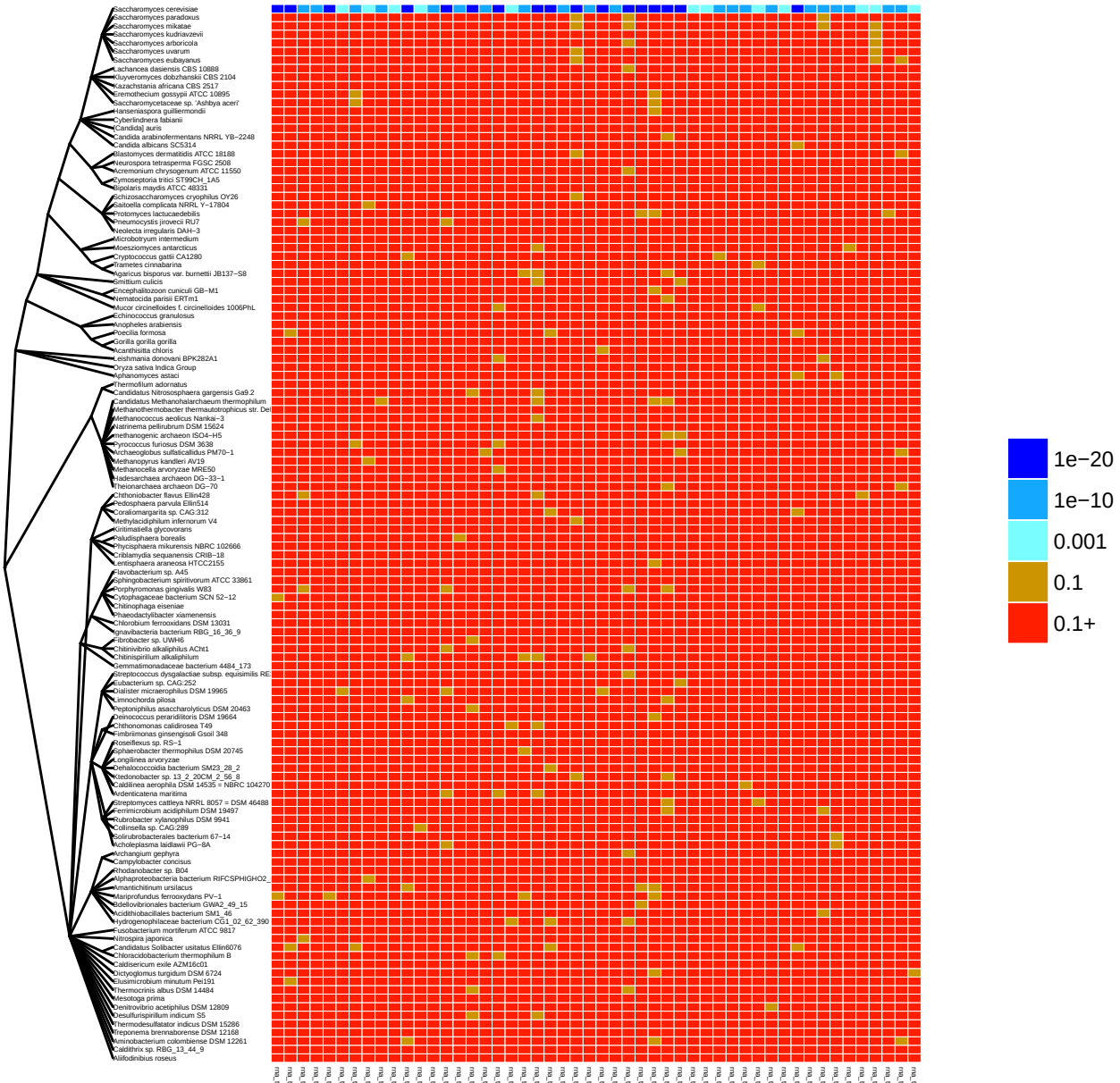

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas N3
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Clone A11
Candidatus Nitrosotenuis Clone A12
Candidatus Nitrosotenuis Clone A13
Candidatus Nitrosotenuis Clone A14
Candidatus Nitrosotenuis Clone A15
Candidatus Nitrosotenuis Clone A16
Candidatus Nitrosotenuis Clone A17
Candidatus Nitrosotenuis Clone A18
Candidatus Nitrosotenuis Clone A19
Candidatus Nitrosotenuis Clone A20
Candidatus Nitrosotenuis Clone A21
Candidatus Nitrosotenuis Clone A22
Candidatus Nitrosotenuis Clone A23
Candidatus Nitrosotenuis Clone A24
Candidatus Nitrosotenuis Clone A25
Candidatus Nitrosotenuis Clone A26
Candidatus Nitrosotenuis Clone A27
Candidatus Nitrosotenuis Clone A28
Candidatus Nitrosotenuis Clone A29
Candidatus Nitrosotenuis Clone A30
Candidatus Nitrosotenuis Clone A31
Candidatus Nitrosotenuis Clone A32
1e−20
1e−10
0.001
0.1
0.1+

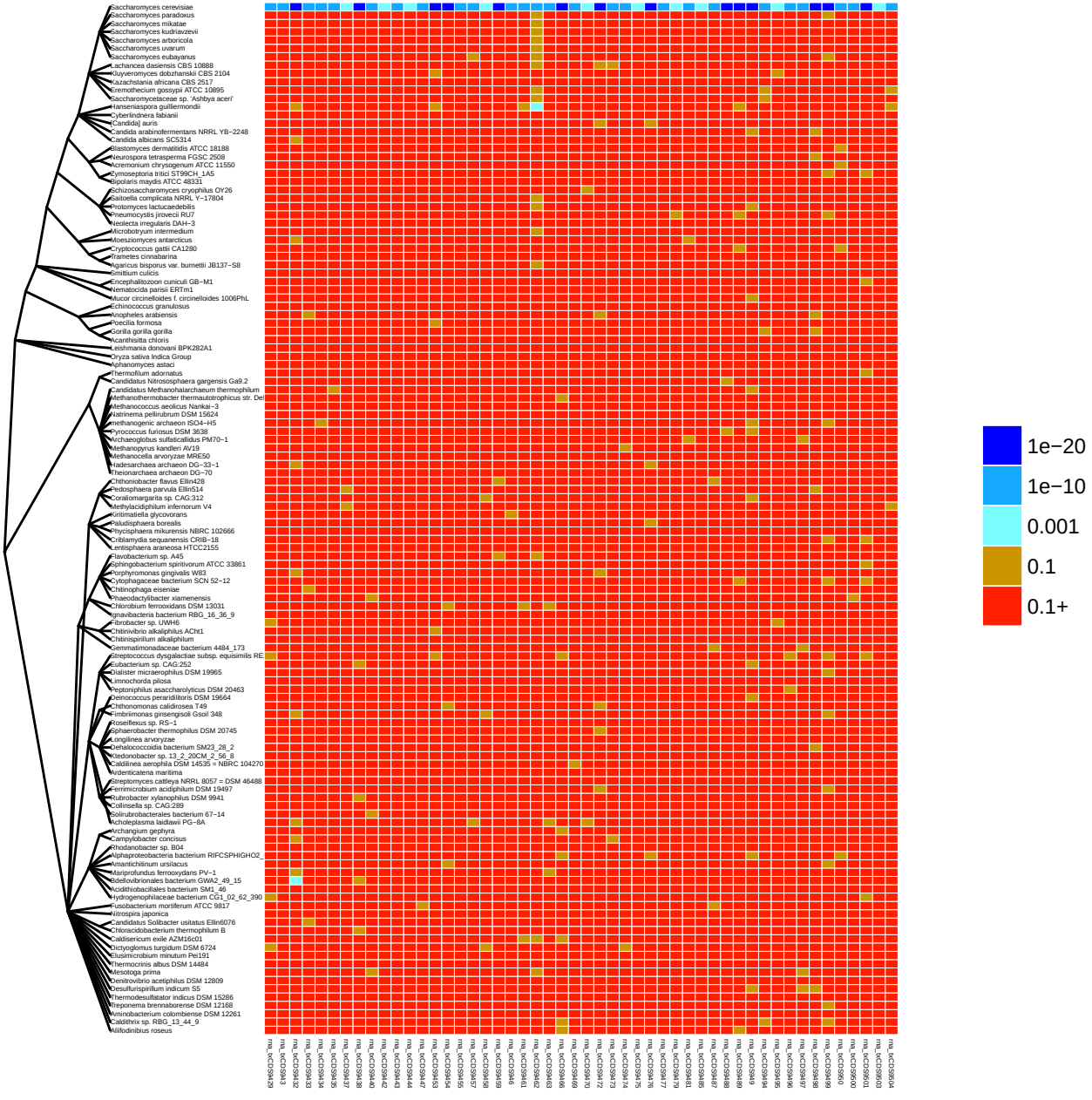

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

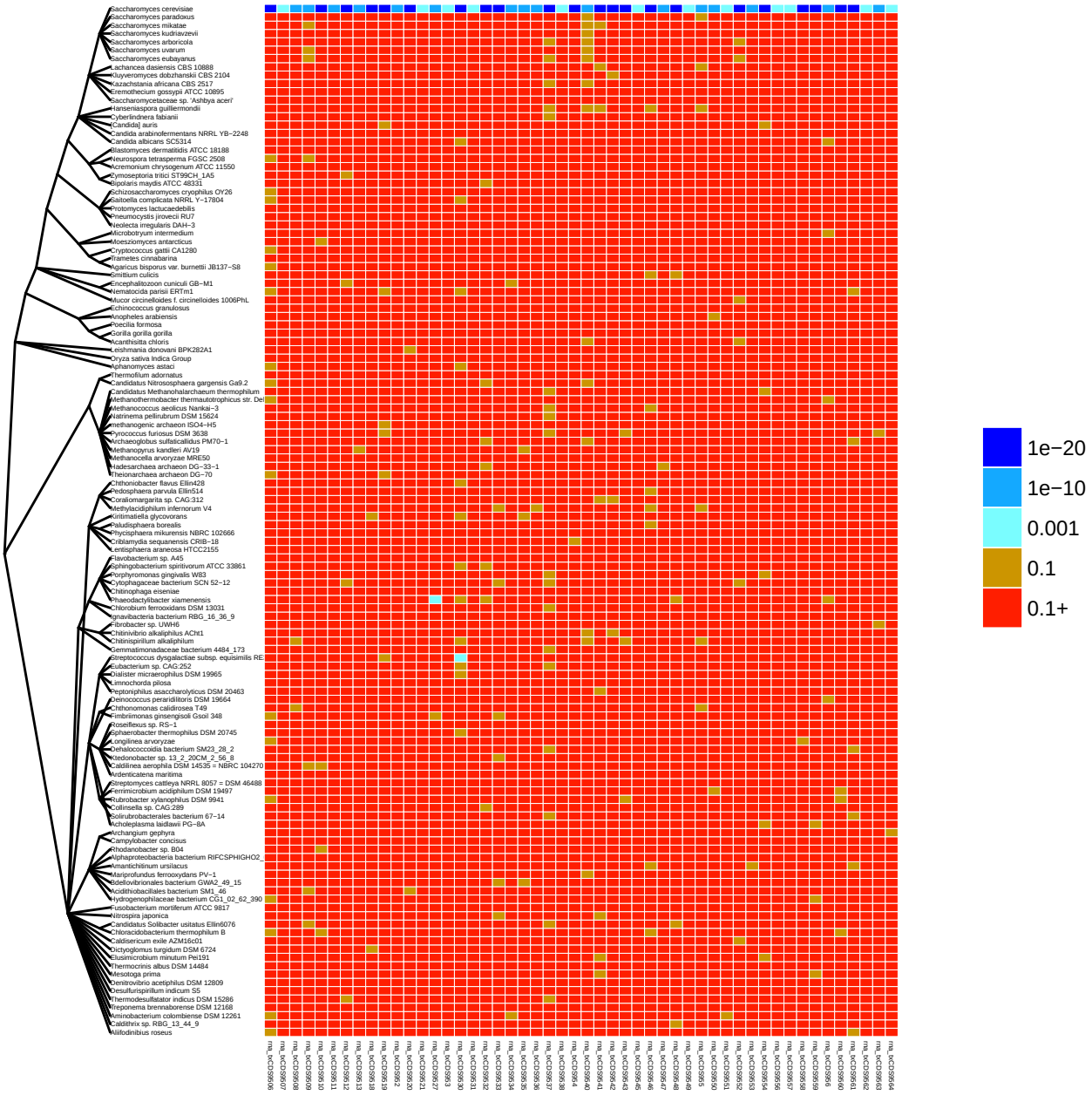

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

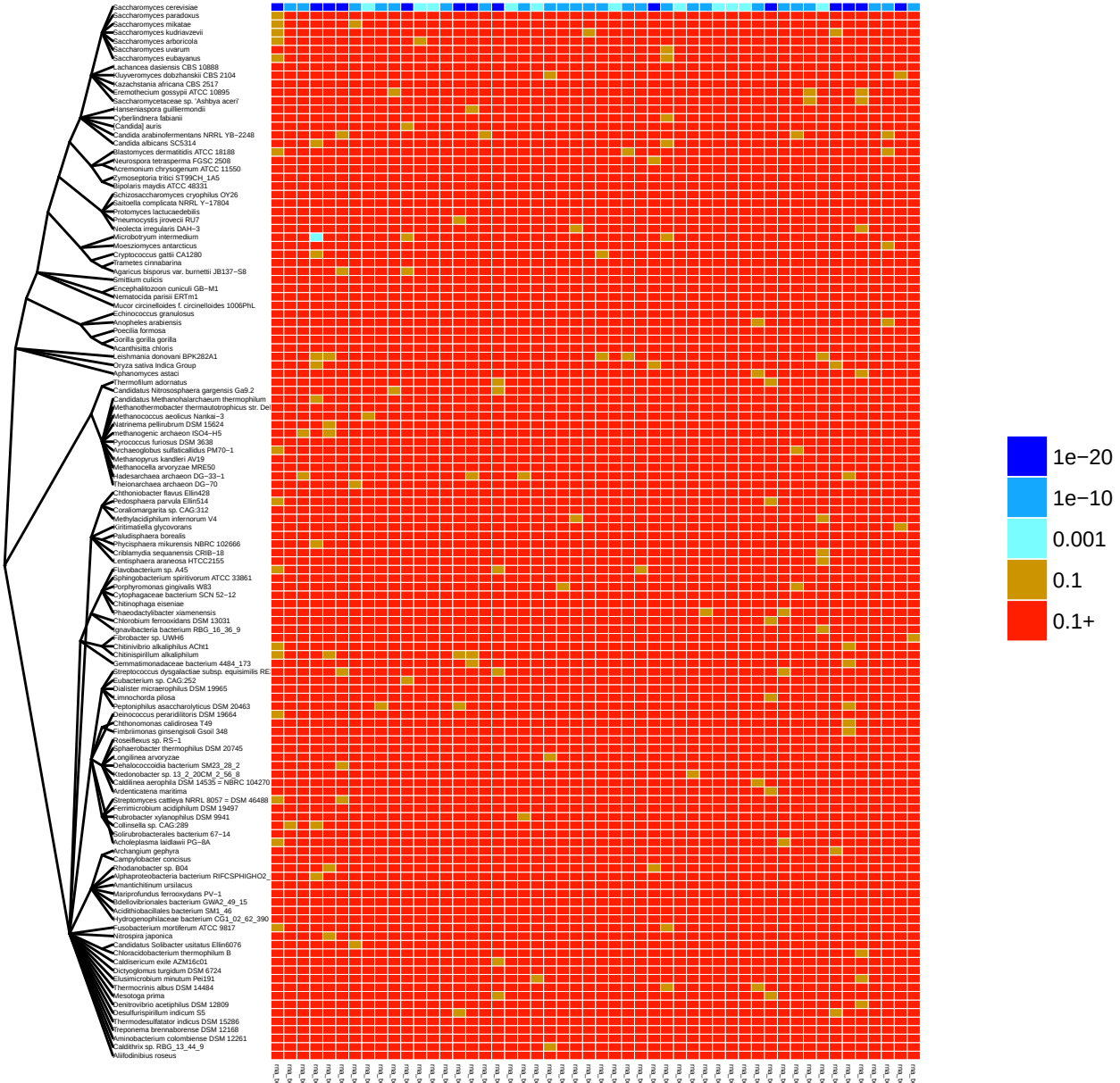

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

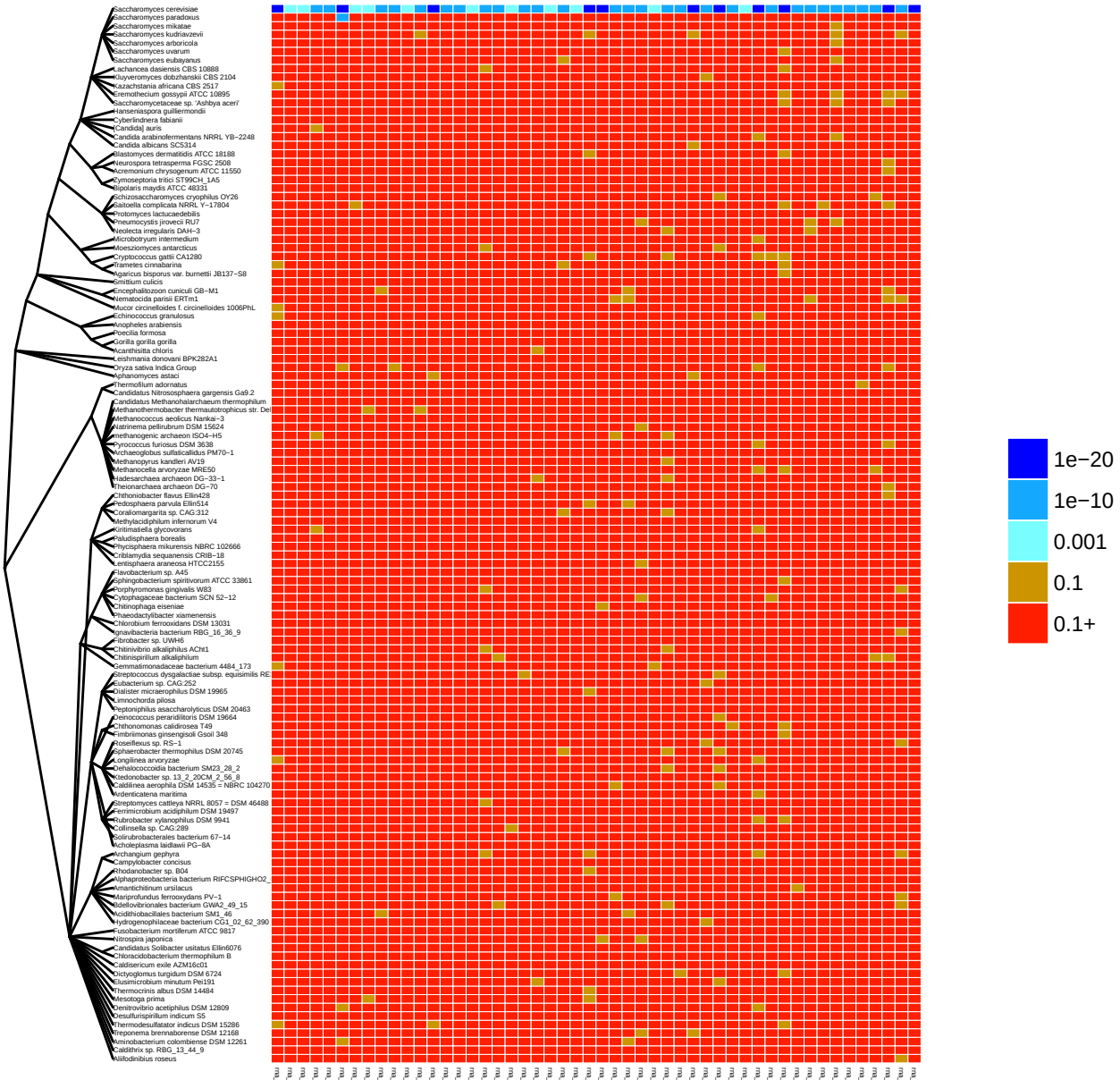

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

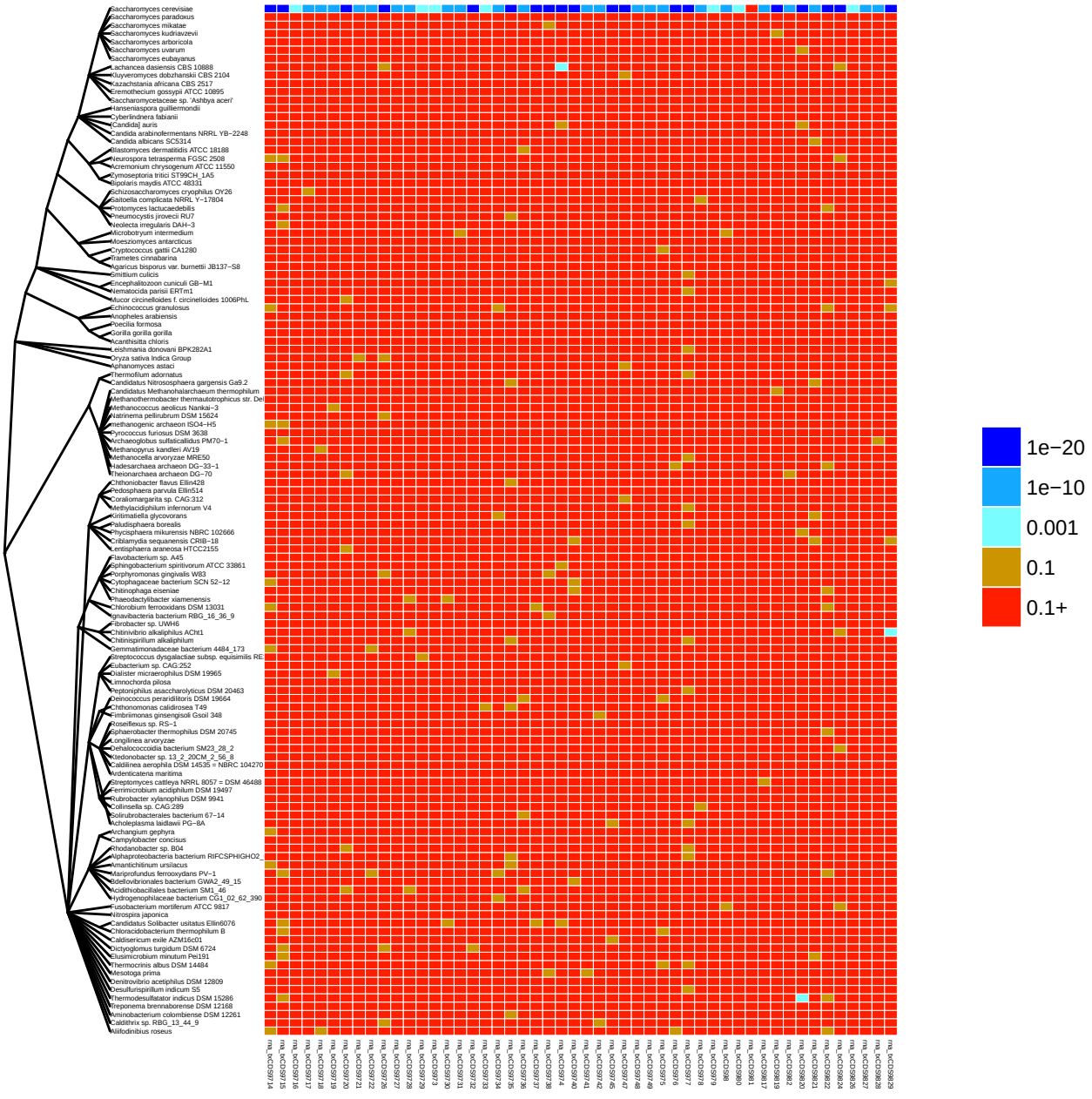

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

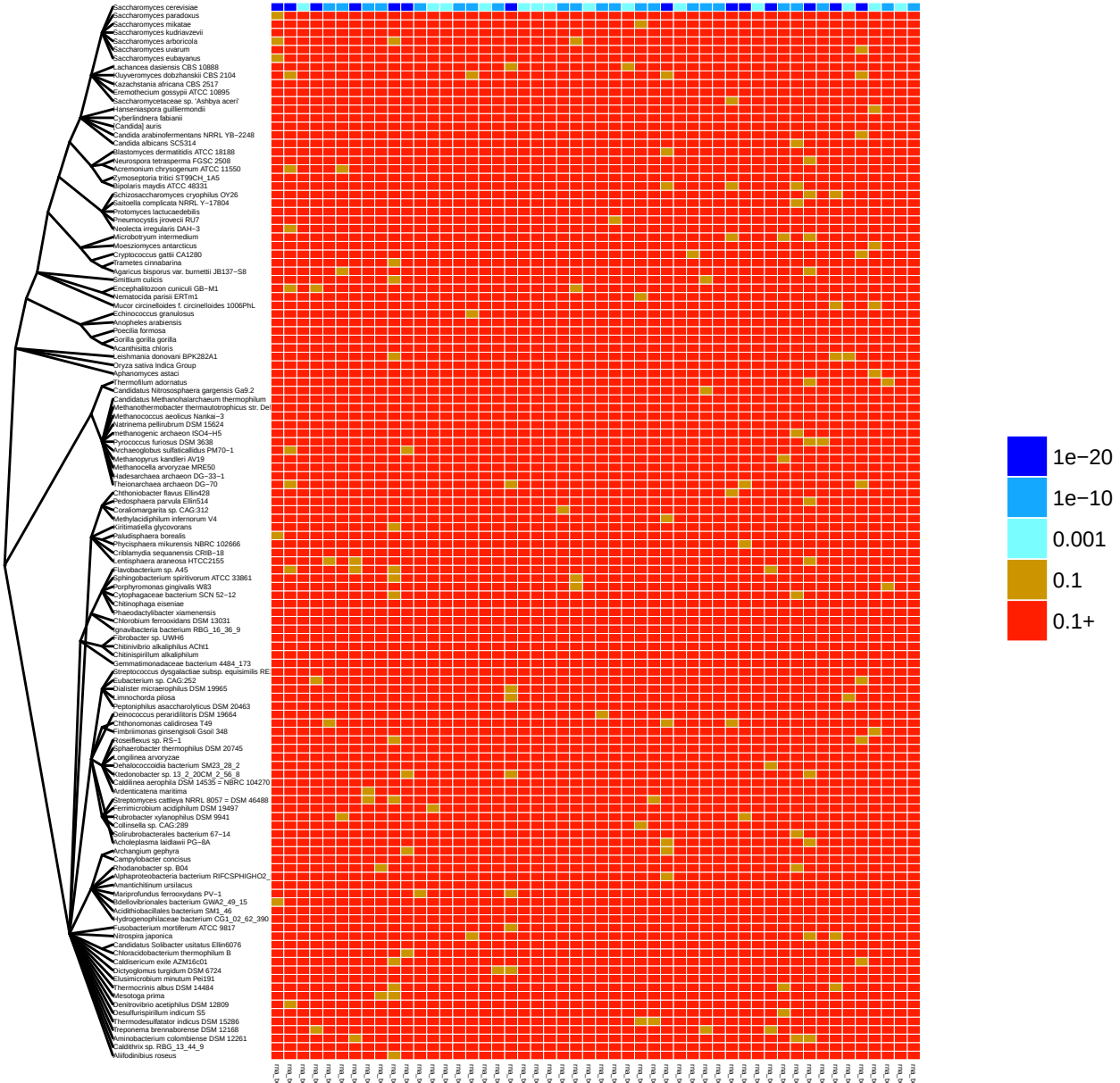

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

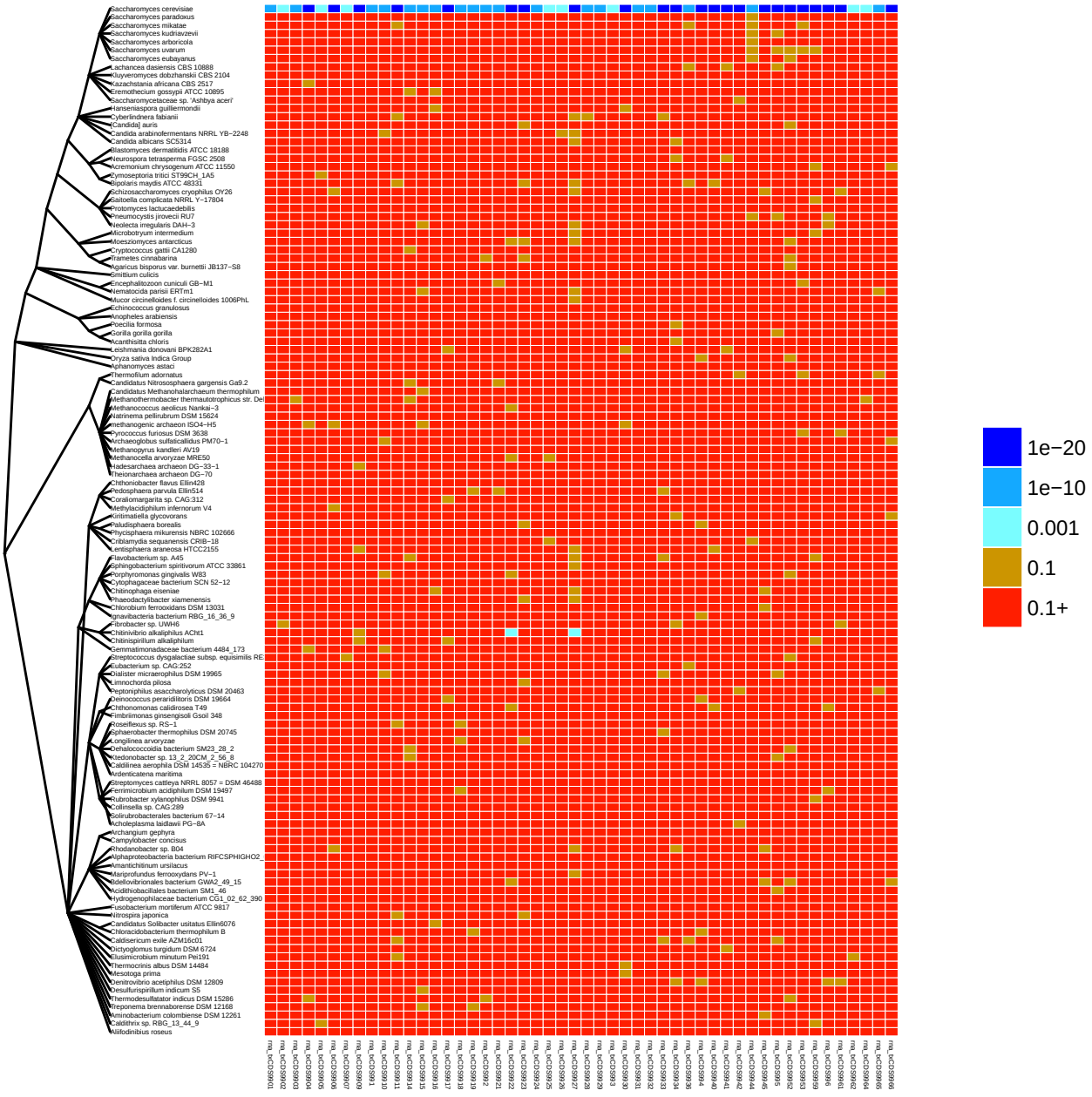

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

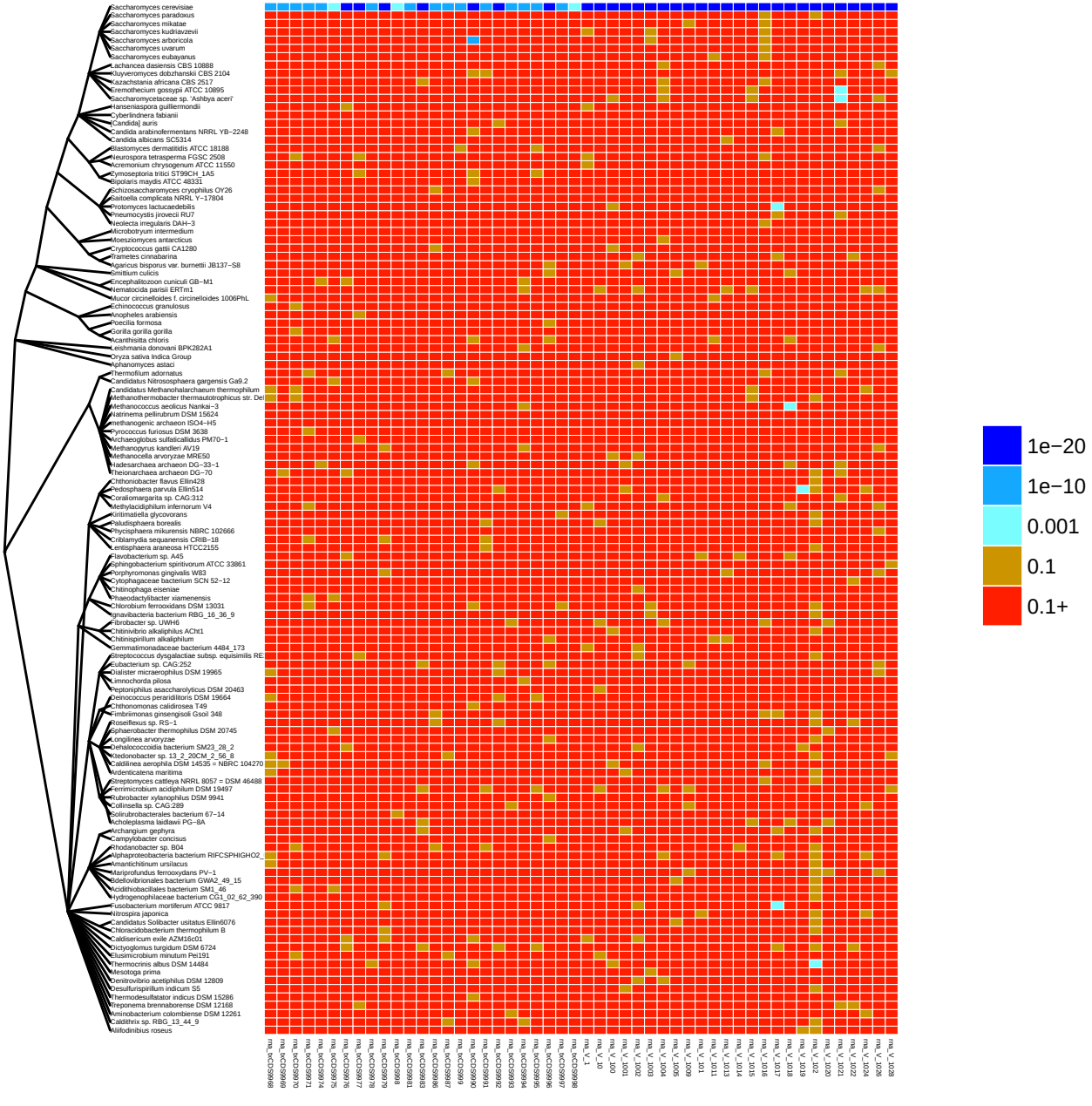

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

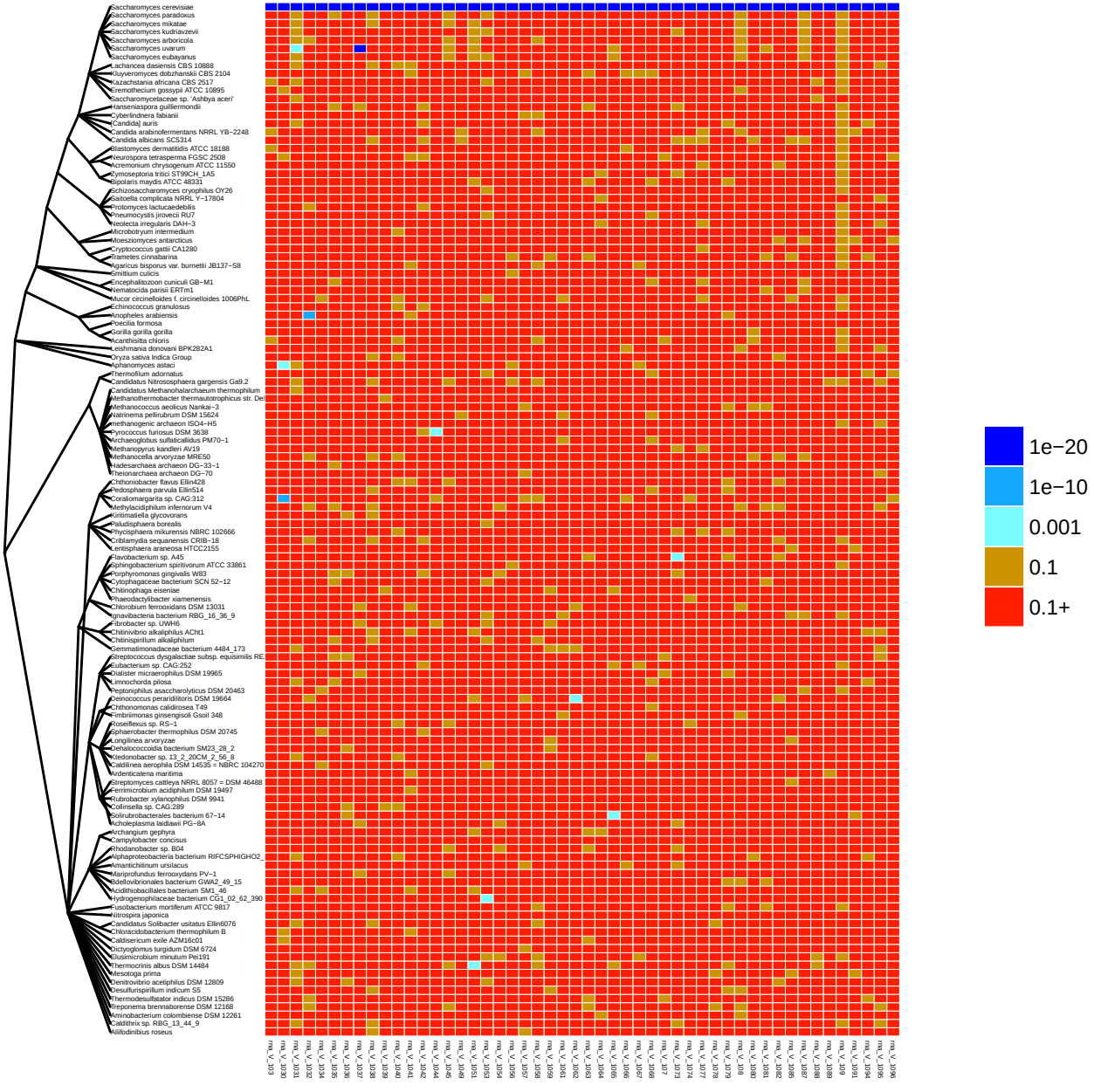

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

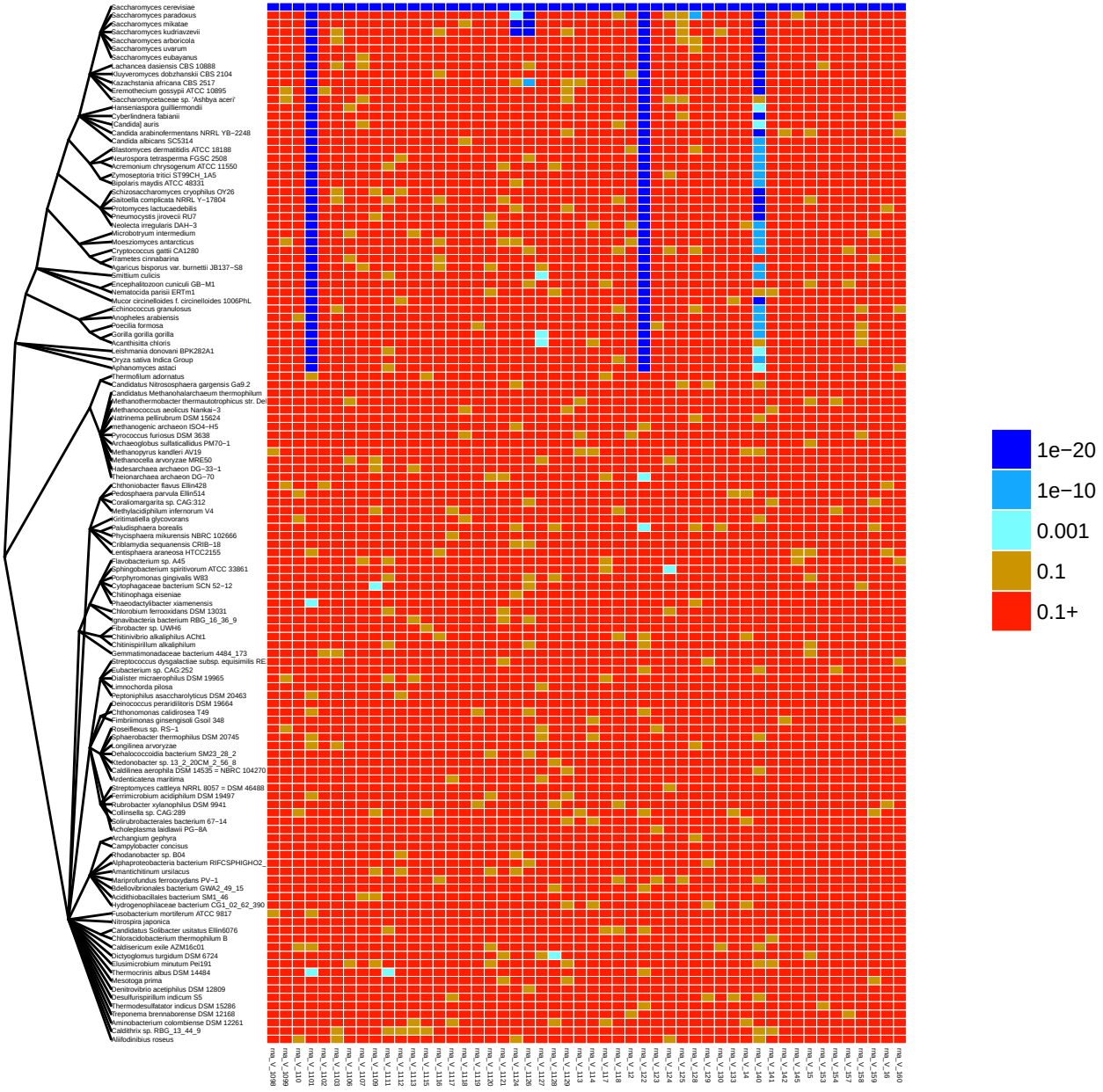

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignifodinibius roseus
mu_bCDS9714
mu_bCDS9715
mu_bCDS9716
mu_bCDS9717
mu_bCDS9718
mu_bCDS9719
mu_bCDS9720
mu_bCDS9721
mu_bCDS9722
mu_bCDS9725
mu_bCDS9727
mu_bCDS9728
mu_bCDS9729
mu_bCDS9730
mu_bCDS9731
mu_bCDS9732
mu_bCDS9733
mu_bCDS9734
mu_bCDS9735
mu_bCDS9736
mu_bCDS9737
mu_bCDS9738
mu_bCDS9739
mu_bCDS9740
mu_bCDS9741
mu_bCDS9742
mu_bCDS9745
mu_bCDS9747
mu_bCDS9748
mu_bCDS9749
mu_bCDS9975
mu_bCDS9976
mu_bCDS9977
mu_bCDS9978
mu_bCDS9979
mu_bCDS980
mu_bCDS9980
mu_bCDS9981
mu_bCDS9817
mu_bCDS9819
mu_bCDS982
mu_bCDS9820
mu_bCDS9821
mu_bCDS9822
mu_bCDS9824
mu_bCDS9826
mu_bCDS9827
mu_bCDS9828
mu_bCDS9829
1e−20
1e−10
0.001
0.1
0.1+

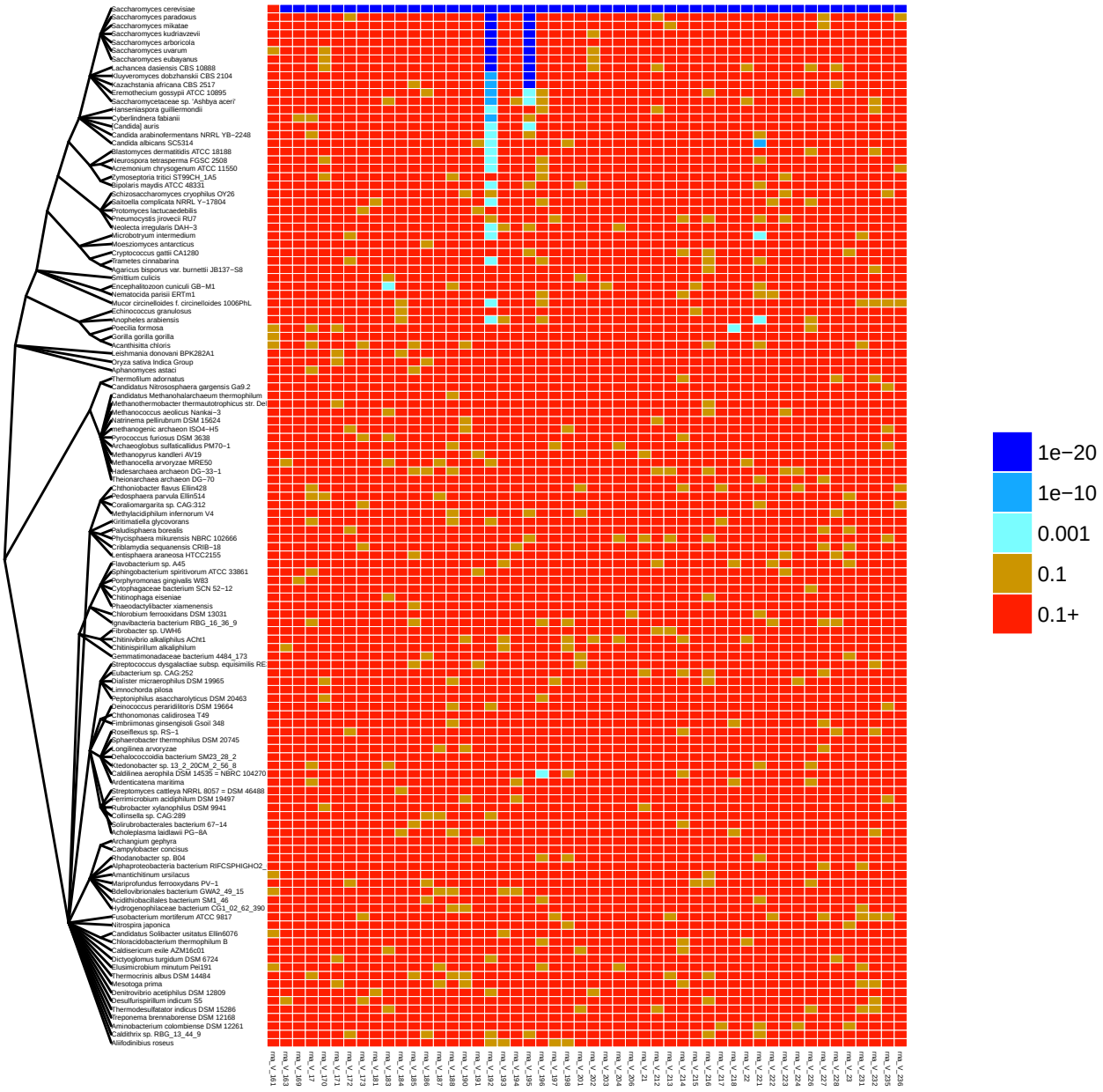

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa CBS 7966
Malassezia pachydermatis CBS 1879
Malassezia sympodialis ATCC 42132
Malassezia furfur CBS 1878
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557

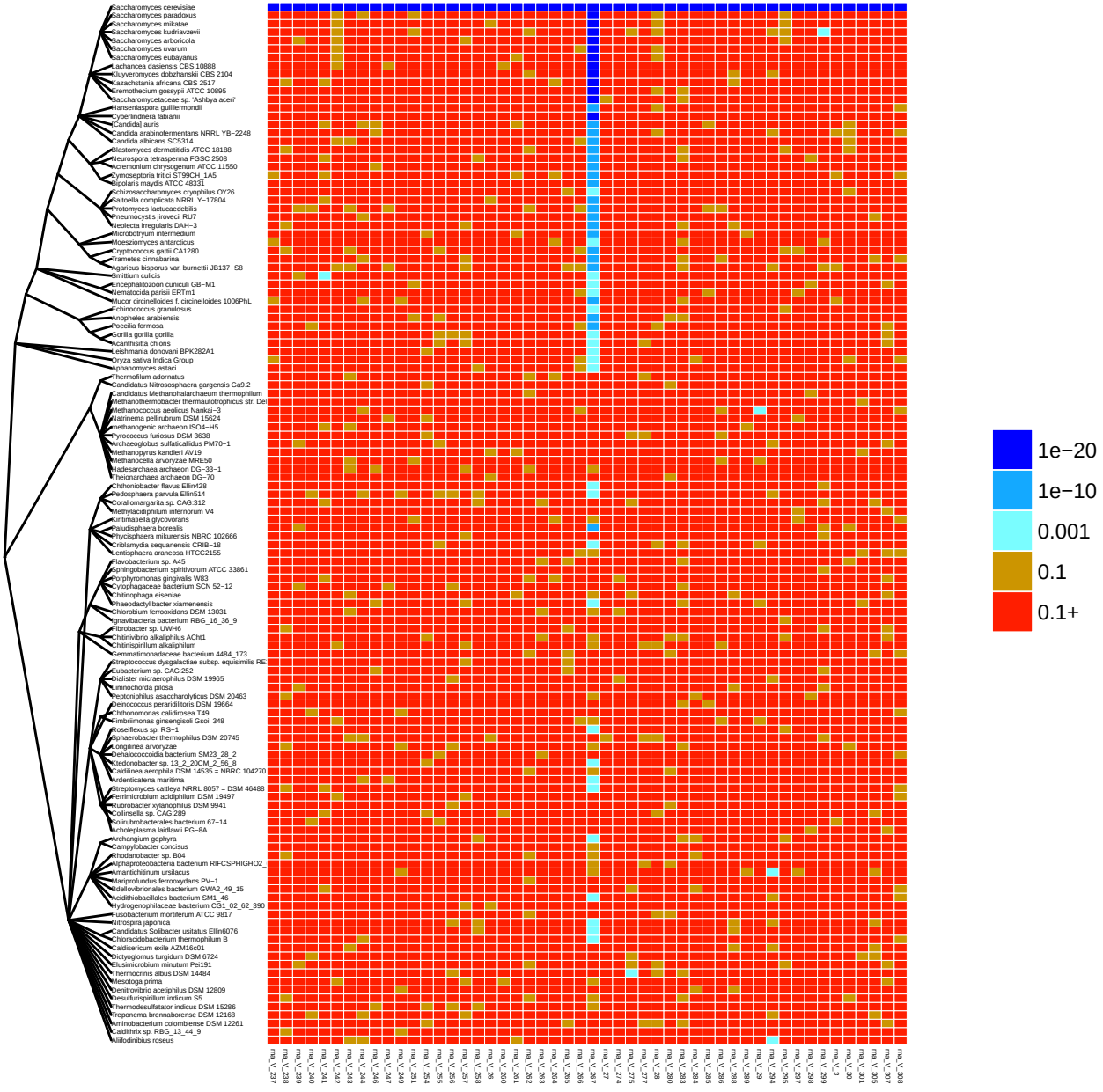

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR2
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas ACT3
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis Nitrosotenuis sp. DW2
Candidatus Nitrosotenuis Nitrosotenuis sp. DW4
Candidatus Nitrosotenuis Nitrosotenuis sp. DW5
Candidatus Nitrosotenuis Nitrosotenuis sp. DW6
Candidatus Nitrosotenuis Nitrosotenuis sp. DW7
Candidatus Nitrosotenuis Nitrosotenuis sp. DW8
Candidatus Nitrosotenuis Nitrosotenuis sp. DW9
Candidatus Nitrosotenuis Nitrosotenuis sp. DW10
Candidatus Nitrosotenuis Nitrosotenuis sp. DW11
Candidatus Nitrosotenuis Nitrosotenuis sp. DW12
Candidatus Nitrosotenuis Nitrosotenuis sp. DW13
Candidatus Nitrosotenuis Nitrosotenuis sp. DW14
Candidatus Nitrosotenuis Nitrosotenuis sp. DW15
Candidatus Nitrosotenuis Nitrosotenuis sp. DW16
Candidatus Nitrosotenuis Nitrosotenuis sp. DW17
Candidatus Nitrosotenuis Nitrosotenuis sp. DW18
Candidatus Nitrosotenuis Nitrosotenuis sp. DW19
Candidatus Nitrosotenuis Nitrosotenuis sp. DW20
Candidatus Nitrosotenuis Nitrosotenuis sp. DW21
Candidatus Nitrosotenuis Nitrosotenuis sp. DW22
Candidatus Nitrosotenuis Nitrosotenuis sp. DW23
Candidatus Nitrosotenuis Nitrosotenuis sp. DW24
Candidatus Nitrosotenuis Nitrosotenuis sp. DW25
Candidatus Nitrosotenuis Nitrosotenuis sp. DW26
Candidatus Nitrosotenuis Nitrosotenuis sp. DW27
Candidatus Nitrosotenuis Nitrosotenuis sp. DW28
Candidatus Nitrosotenuis Nitrosotenuis sp. DW29
Candidatus Nitrosotenuis Nitrosotenuis sp. DW30
Candidatus Nitrosotenuis Nitrosotenuis sp. DW31
Candidatus Nitrosotenuis Nitrosotenuis sp. DW32
Candidatus Nitrosotenuis Nitrosotenuis sp. DW33
Candidatus Nitrosotenuis Nitrosotenuis sp. DW34
Candidatus Nitrosotenuis Nitrosotenuis sp. DW35
Candidatus Nitrosotenuis Nitrosotenuis sp. DW36
Candidatus Nitrosotenuis Nitrosotenuis sp. DW37
Candidatus Nitrosotenuis Nitrosotenuis sp. DW38
Candidatus Nitrosotenuis Nitrosotenuis sp. DW39
Candidatus Nitrosotenuis Nitrosotenuis sp. DW40
Candidatus Nitrosotenuis Nitrosotenuis sp. DW41
Candidatus Nitrosotenuis Nitrosotenuis sp. DW42
Candidatus Nitrosotenuis Nitrosotenuis sp. DW43
Candidatus Nitrosotenuis Nitrosotenuis sp. DW44
Candidatus Nitrosotenuis Nitrosotenuis sp. DW45
Candidatus Nitrosotenuis Nitrosotenuis sp. DW46
Candidatus Nitrosotenuis Nitrosotenuis sp. DW47
Candidatus Nitrosotenuis Nitrosotenuis sp. DW48
Candidatus Nitrosotenuis Nitrosotenuis sp. DW49
Candidatus Nitrosotenuis Nitrosotenuis sp. DW50
Candidatus Nitrosotenuis Nitrosotenuis sp. DW51
Candidatus Nitrosotenuis Nitrosotenuis sp. DW52
Candidatus Nitrosotenuis Nitrosotenuis sp. DW53
Candidatus Nitrosotenuis Nitrosotenuis sp. DW54
Candidatus Nitrosotenuis Nitrosotenuis sp. DW55
Candidatus Nitrosotenuis Nitrosotenuis sp. DW56
Candidatus Nitrosotenuis Nitrosotenuis sp. DW57
Candidatus Nitrosotenuis Nitrosotenuis sp. DW58
Candidatus Nitrosotenuis Nitrosotenuis sp. DW59
Candidatus Nitrosotenuis Nitrosotenuis sp. DW60
Candidatus Nitrosotenuis Nitrosotenuis sp. DW61
Candidatus Nitrosotenuis Nitrosotenuis sp. DW62
Candidatus Nitrosotenuis Nitrosotenuis sp. DW63
Candidatus Nitrosotenuis Nitrosotenuis sp. DW64
Candidatus Nitrosotenuis Nitrosotenuis sp. DW65
Candidatus Nitrosotenuis Nitrosotenuis sp. DW66
1e−20
1e−10
0.001
0.1
0.1+

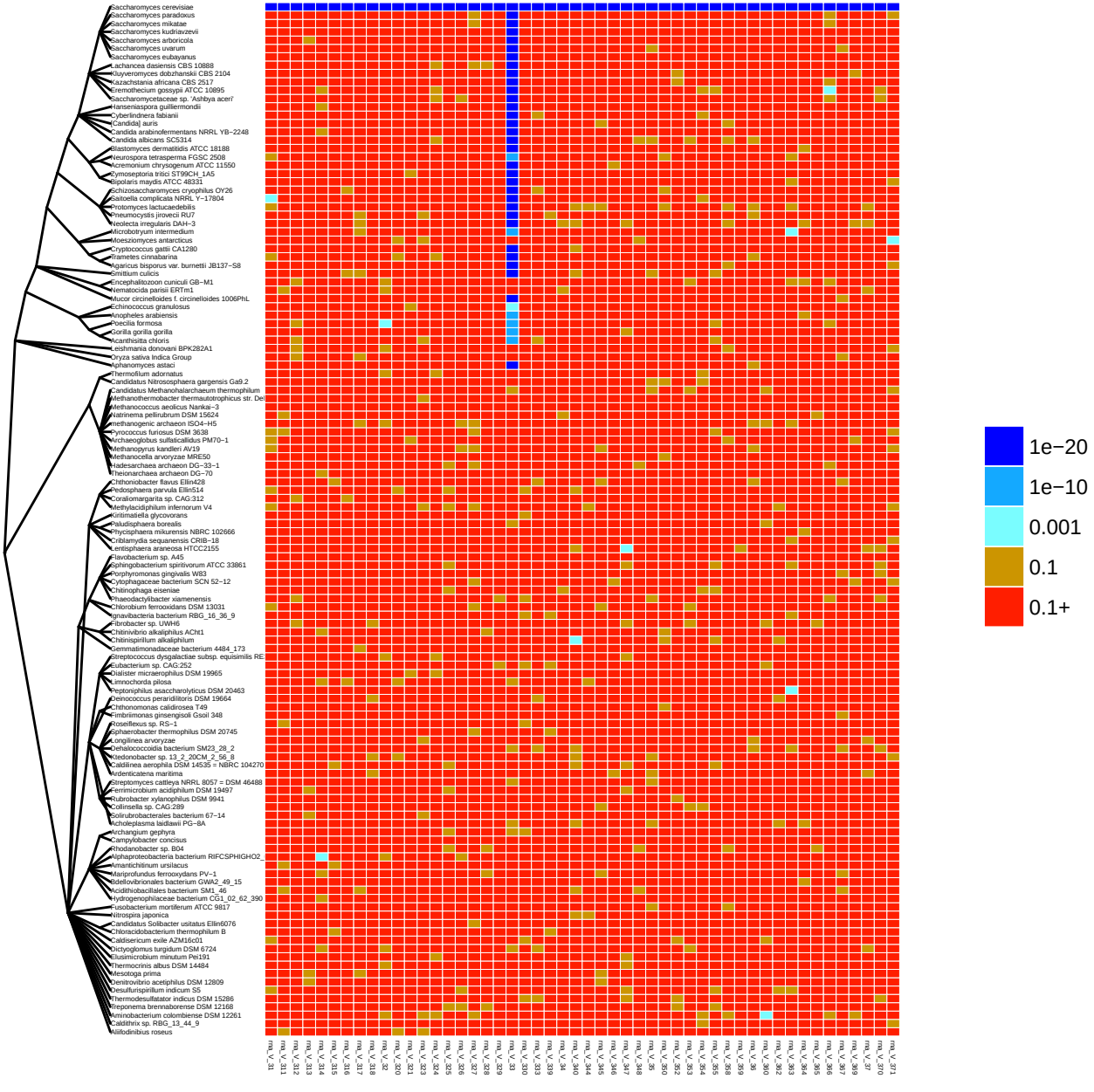

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Kiritimatiellaeota bacterium 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_ACDS39968
ma_ACDS39969
ma_ACDS39970
ma_ACDS39971
ma_ACDS39974
ma_ACDS39975
ma_ACDS39976
ma_ACDS39978
ma_ACDS39979
ma_ACDS39981
ma_ACDS39982
ma_ACDS39983
ma_ACDS39986
ma_ACDS39987
ma_ACDS39989
ma_ACDS39990
ma_ACDS39991
ma_ACDS39992
ma_ACDS39993
ma_ACDS39994
ma_ACDS39995
ma_ACDS39996
ma_ACDS39997
ma_ACDS39998
ma_ACDS39999
ma_v_17
ma_v_10
ma_v_1000
ma_v_1001
ma_v_1002
ma_v_1003
ma_v_1004
ma_v_1005
ma_v_1009
ma_v_101
ma_v_1011
ma_v_1013
ma_v_1014
ma_v_1015
ma_v_1016
ma_v_1017
ma_v_1018
ma_v_1019
ma_v_102
ma_v_1020
ma_v_1021
ma_v_1022
ma_v_1024
ma_v_1026
ma_v_1028
1e−20
1e−10
0.001
0.1
0.1+

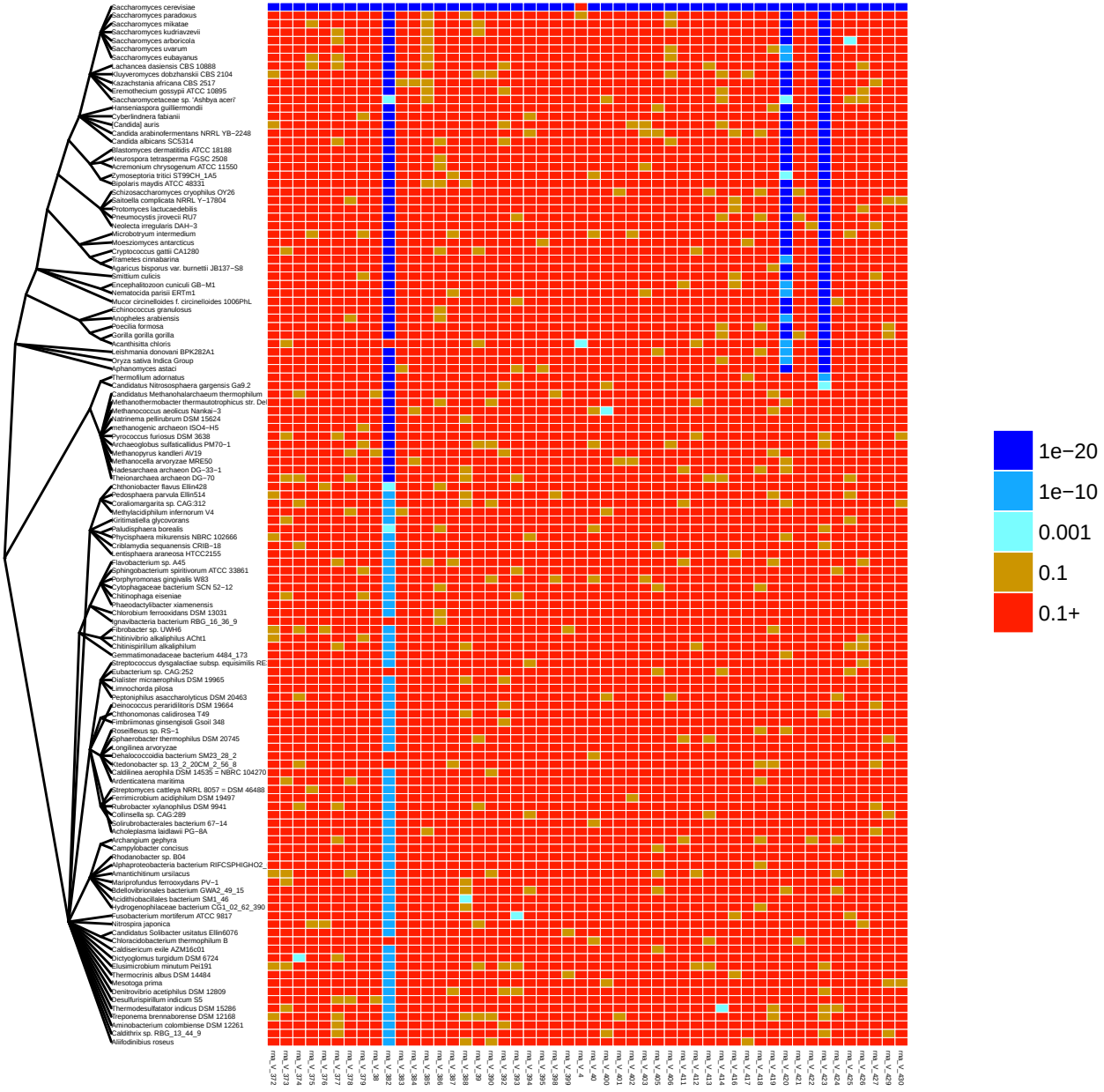

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Kuenenia stuttgartiensis RBG_13_44_9
Alifidinibius roseus
1e−20
1e−10
0.001
0.1
0.1+
ma_v_1029
ma_v_1030
ma_v_1031
ma_v_1032
ma_v_1034
ma_v_1035
ma_v_1036
ma_v_1037
ma_v_1038
ma_v_1039
ma_v_1040
ma_v_1041
ma_v_1042
ma_v_1044
ma_v_1045
ma_v_1049
ma_v_1051
ma_v_1053
ma_v_1054
ma_v_1056
ma_v_1057
ma_v_1058
ma_v_1059
ma_v_1061
ma_v_1062
ma_v_1063
ma_v_1064
ma_v_1065
ma_v_1066
ma_v_1067
ma_v_1068
ma_v_1073
ma_v_1074
ma_v_1077
ma_v_1078
ma_v_1079
ma_v_1080
ma_v_1081
ma_v_1087
ma_v_1088
ma_v_1089
ma_v_1091
ma_v_1094
ma_v_1095
ma_v_1096

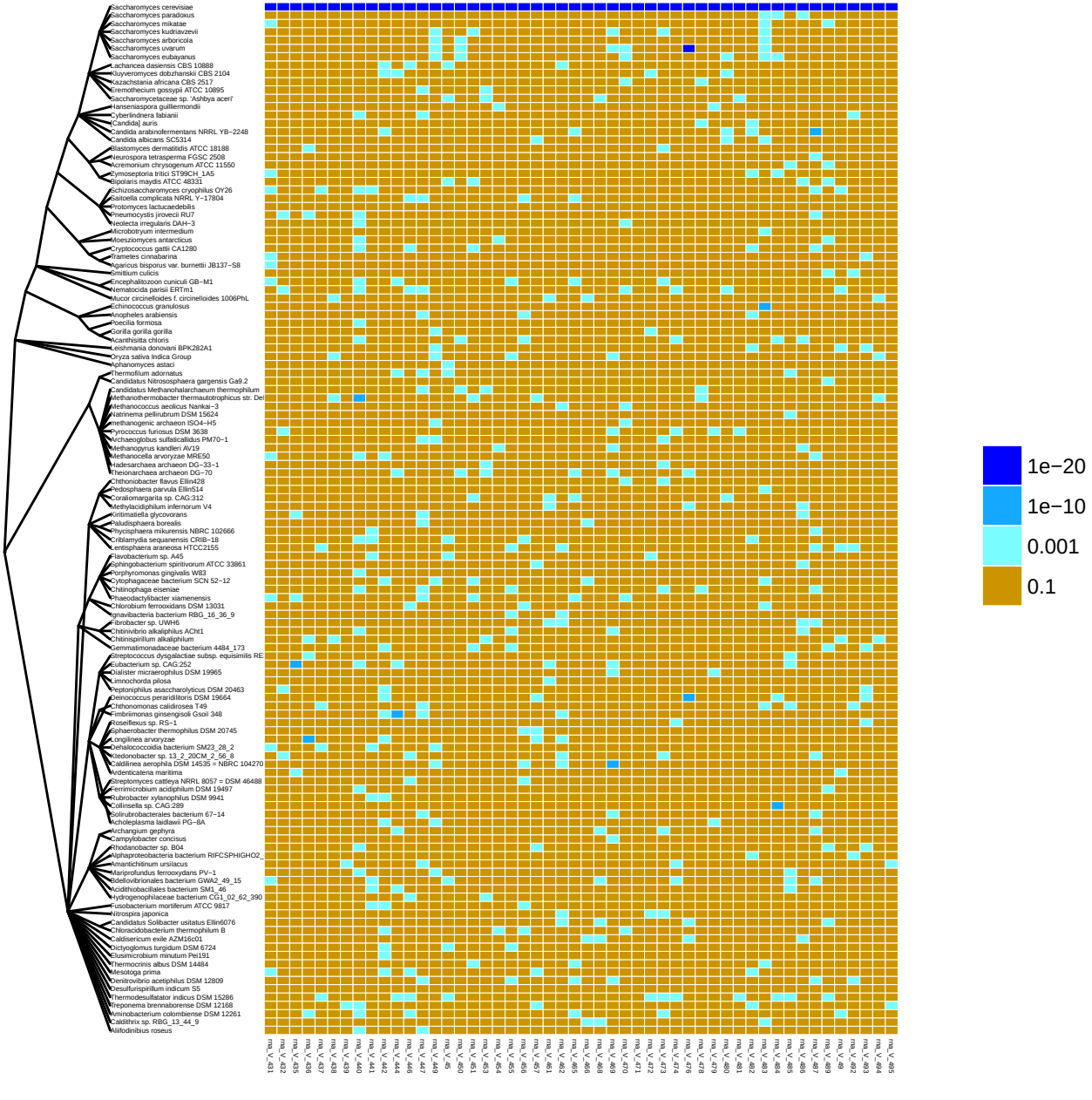

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
rna_v_1098
rna_v_1099
rna_v_110
rna_v_1101
rna_v_1102
rna_v_1103
rna_v_1106
rna_v_1107
rna_v_1109
rna_v_1111
rna_v_1112
rna_v_1113
rna_v_1115
rna_v_1116
rna_v_1117
rna_v_1118
rna_v_1119
rna_v_1120
rna_v_1121
rna_v_1124
rna_v_1126
rna_v_1127
rna_v_1128
rna_v_1129
rna_v_113
rna_v_114
rna_v_117
rna_v_118
rna_v_12
rna_v_122
rna_v_123
rna_v_124
rna_v_125
rna_v_128
rna_v_129
rna_v_130
rna_v_133
rna_v_14
rna_v_140
rna_v_141
rna_v_142
rna_v_145
rna_v_15
rna_v_153
rna_v_154
rna_v_157
rna_v_158
rna_v_159
rna_v_16
rna_v_160
1e−20
1e−10
0.001
0.1
0.1+

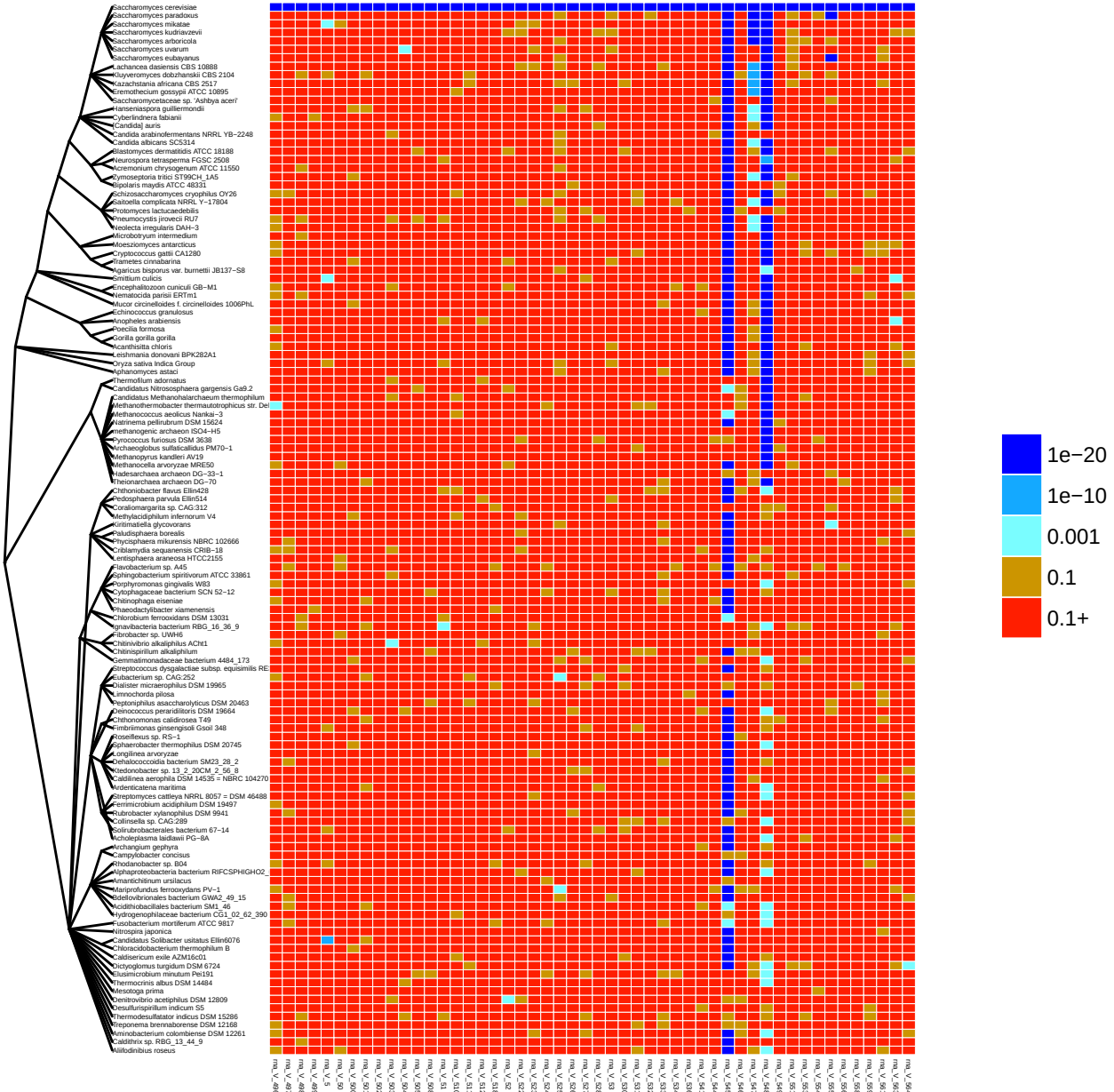

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_v_161
ma_v_163
ma_v_169
ma_v_17
ma_v_170
ma_v_171
ma_v_172
ma_v_173
ma_v_181
ma_v_183
ma_v_184
ma_v_185
ma_v_186
ma_v_187
ma_v_188
ma_v_190
ma_v_191
ma_v_192
ma_v_193
ma_v_194
ma_v_195
ma_v_196
ma_v_197
ma_v_198
ma_v_201
ma_v_202
ma_v_203
ma_v_204
ma_v_205
ma_v_21
ma_v_212
ma_v_213
ma_v_214
ma_v_215
ma_v_216
ma_v_217
ma_v_218
ma_v_22
ma_v_221
ma_v_222
ma_v_223
ma_v_224
ma_v_227
ma_v_228
ma_v_229
ma_v_23
ma_v_231
ma_v_232
ma_v_235
ma_v_236
1e−20
1e−10
0.001
0.1
0.1+

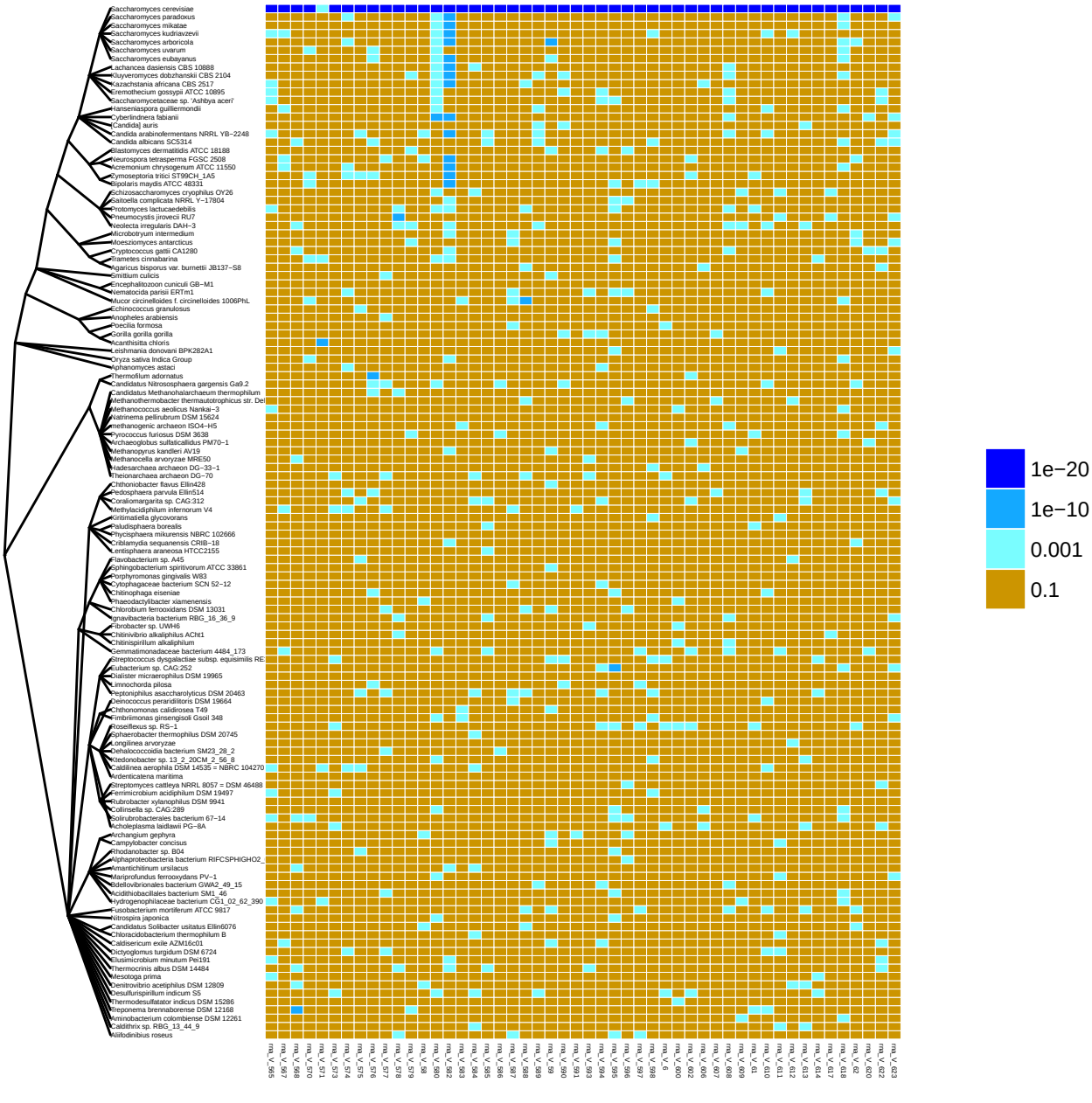

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
ma_V_227
ma_V_238
ma_V_239
ma_V_240
ma_V_241
ma_V_242
ma_V_243
ma_V_244
ma_V_246
ma_V_247
ma_V_249
ma_V_251
ma_V_254
ma_V_255
ma_V_256
ma_V_257
ma_V_258
ma_V_26
ma_V_260
ma_V_261
ma_V_262
ma_V_263
ma_V_264
ma_V_265
ma_V_266
ma_V_267
ma_V_27
ma_V_274
ma_V_275
ma_V_277
ma_V_28
ma_V_280
ma_V_283
ma_V_284
ma_V_285
ma_V_286
ma_V_288
ma_V_289
ma_V_29
ma_V_294
ma_V_295
ma_V_297
ma_V_298
ma_V_299
ma_V_3
ma_V_30
ma_V_301
ma_V_305
ma_V_307
ma_V_308
1e−20
1e−10
0.001
0.1
0.1+

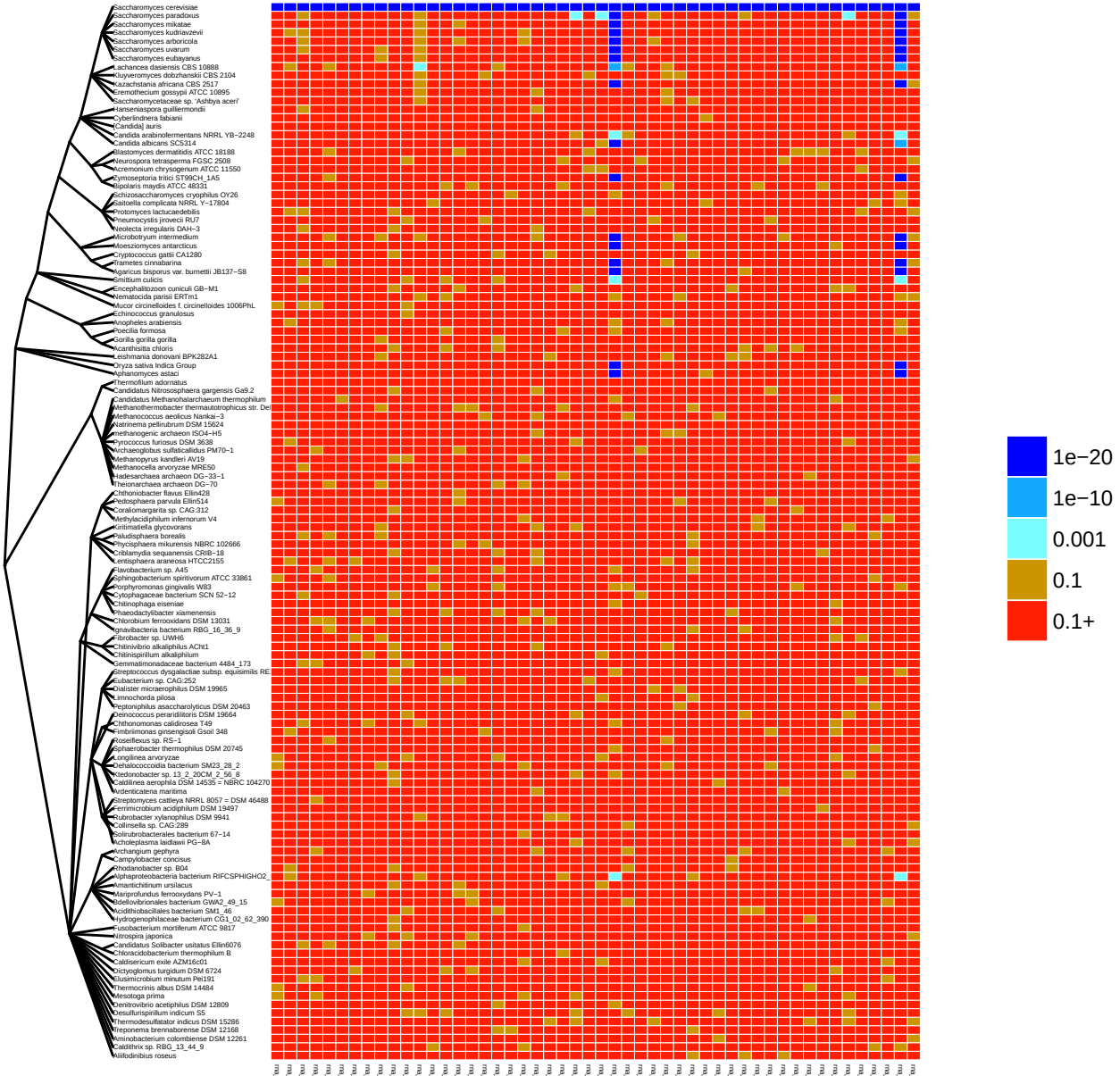

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_V_31
mu_V_311
mu_V_312
mu_V_313
mu_V_314
mu_V_315
mu_V_316
mu_V_317
mu_V_318
mu_V_32
mu_V_320
mu_V_321
mu_V_323
mu_V_324
mu_V_325
mu_V_326
mu_V_327
mu_V_328
mu_V_329
mu_V_33
mu_V_330
mu_V_333
mu_V_339
mu_V_34
mu_V_340
mu_V_344
mu_V_345
mu_V_346
mu_V_347
mu_V_348
mu_V_35
mu_V_350
mu_V_352
mu_V_353
mu_V_354
mu_V_355
mu_V_358
mu_V_359
mu_V_36
mu_V_360
mu_V_362
mu_V_363
mu_V_364
mu_V_365
mu_V_366
mu_V_367
mu_V_369
mu_V_37
mu_V_370
mu_V_371
1e−20
1e−10
0.001
0.1
0.1+

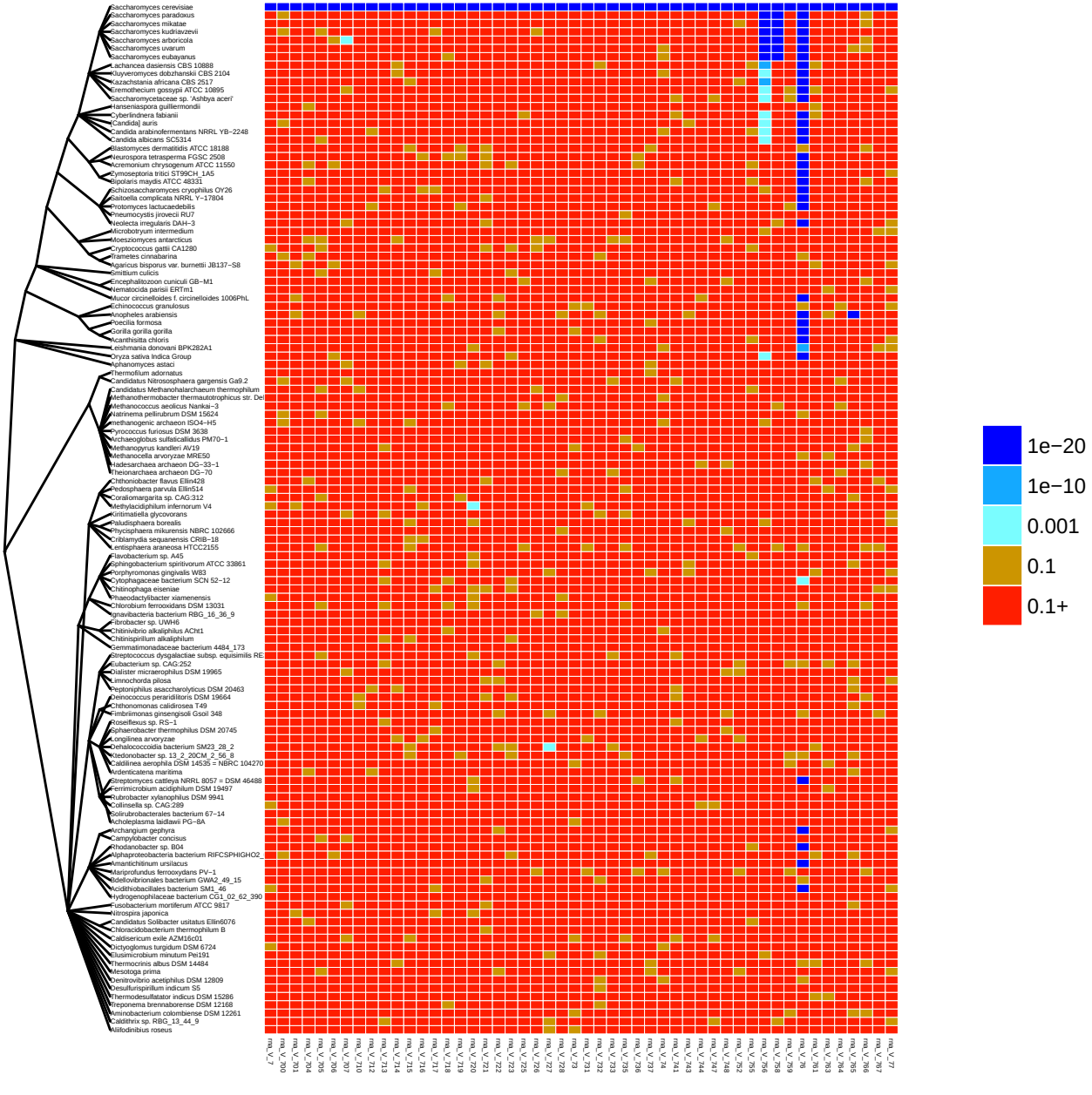

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mv_V_372
mv_V_373
mv_V_374
mv_V_375
mv_V_376
mv_V_377
mv_V_378
mv_V_379
mv_V_38
mv_V_382
mv_V_383
mv_V_384
mv_V_385
mv_V_386
mv_V_387
mv_V_388
mv_V_39
mv_V_390
mv_V_392
mv_V_393
mv_V_394
mv_V_395
mv_V_398
mv_V_399
mv_V_4
mv_V_40
mv_V_400
mv_V_401
mv_V_402
mv_V_403
mv_V_405
mv_V_406
mv_V_411
mv_V_412
mv_V_413
mv_V_414
mv_V_416
mv_V_417
mv_V_418
mv_V_419
mv_V_420
mv_V_421
mv_V_422
mv_V_423
mv_V_424
mv_V_425
mv_V_426
mv_V_427
mv_V_429
mv_V_430
1e−20
1e−10
0.001
0.1
0.1+

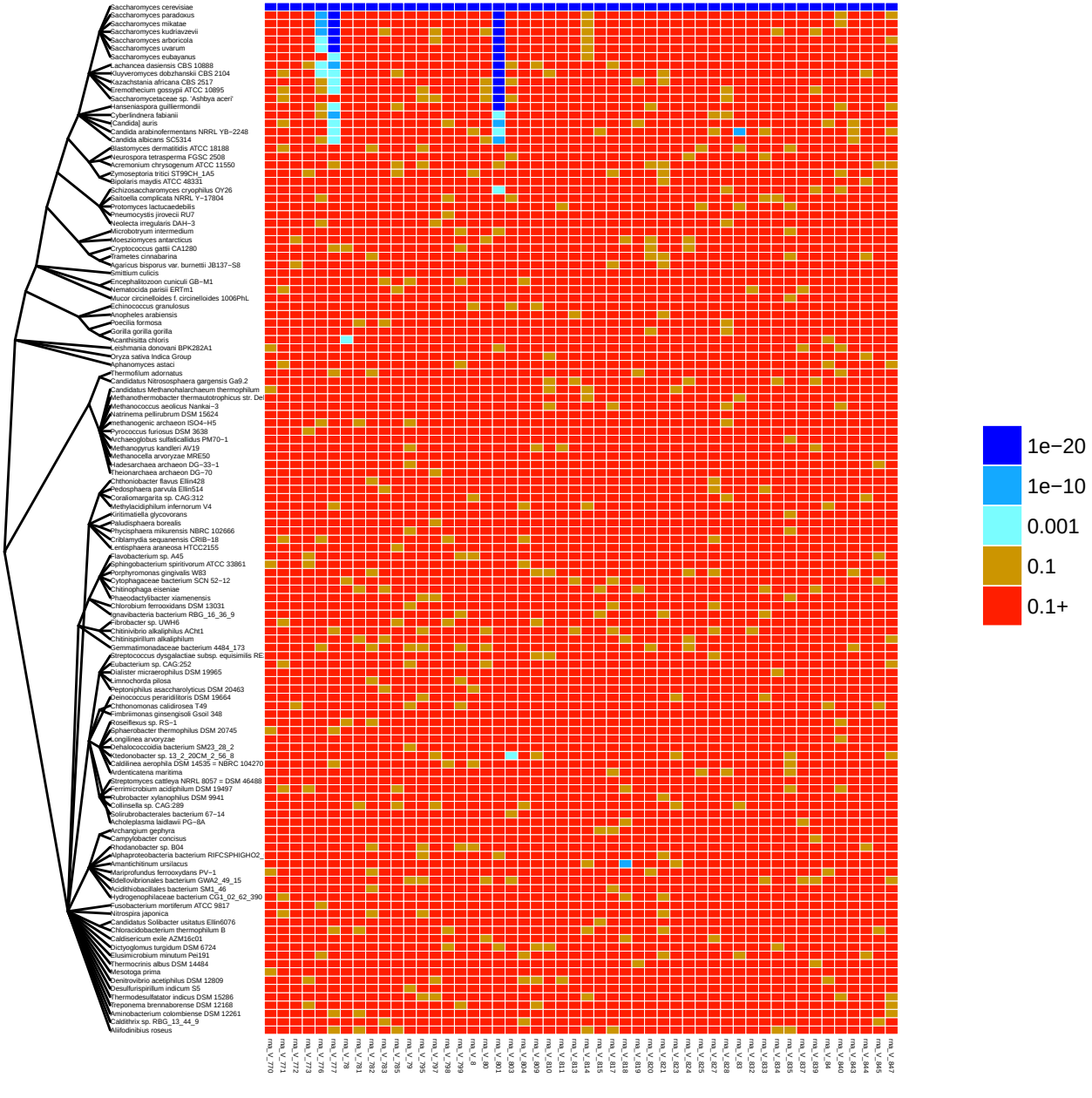

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Crillamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_v_421
mu_v_422
mu_v_435
mu_v_436
mu_v_437
mu_v_438
mu_v_439
mu_v_440
mu_v_441
mu_v_442
mu_v_444
mu_v_446
mu_v_447
mu_v_449
mu_v_45
mu_v_450
mu_v_451
mu_v_453
mu_v_454
mu_v_455
mu_v_456
mu_v_457
mu_v_461
mu_v_462
mu_v_465
mu_v_466
mu_v_468
mu_v_469
mu_v_470
mu_v_471
mu_v_472
mu_v_473
mu_v_474
mu_v_476
mu_v_478
mu_v_479
mu_v_480
mu_v_481
mu_v_482
mu_v_483
mu_v_484
mu_v_485
mu_v_486
mu_v_487
mu_v_489
mu_v_49
mu_v_492
mu_v_493
mu_v_494
mu_v_495
1e−20
1e−10
0.001
0.1

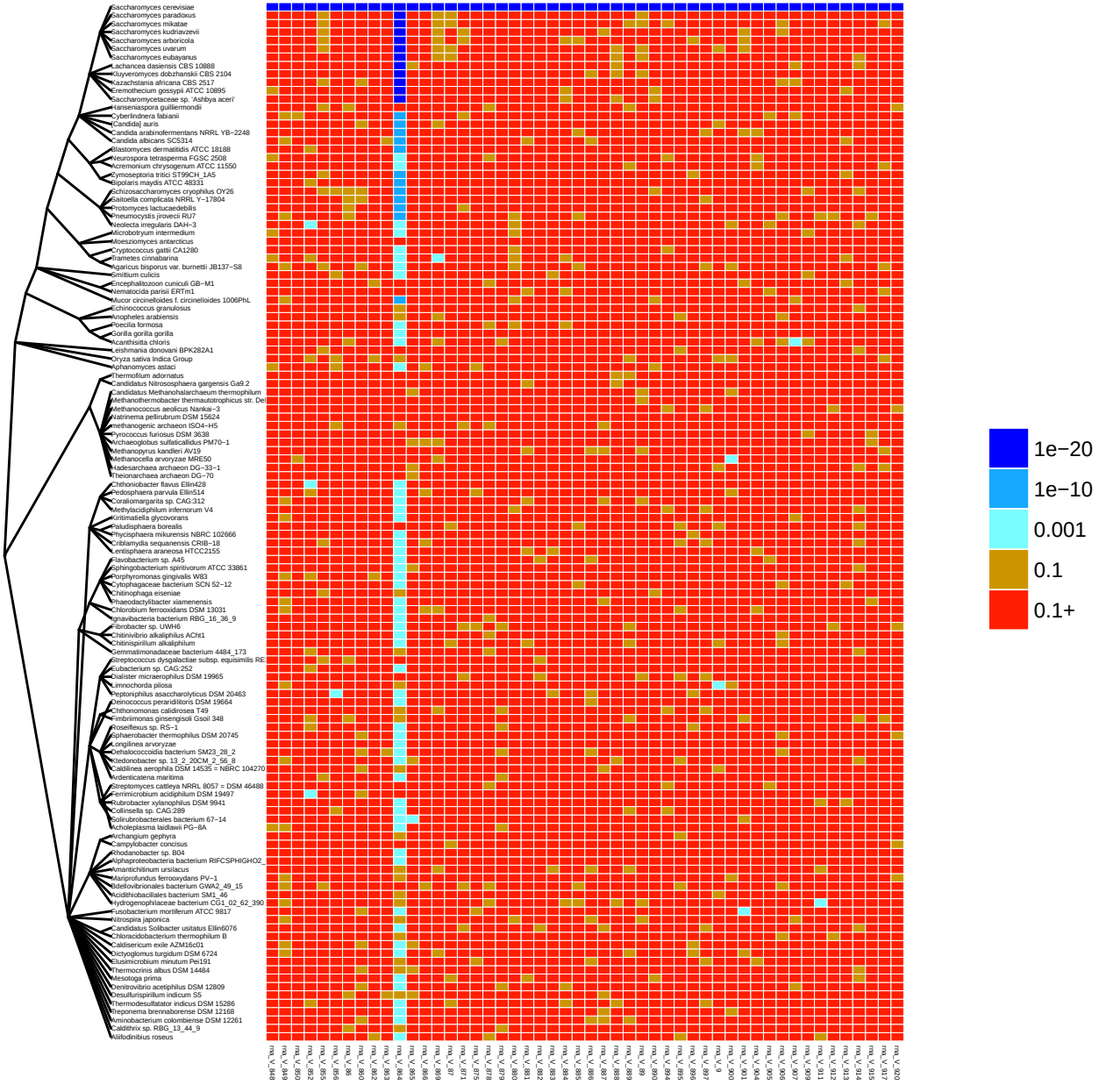

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosotenuis chungbukensis MJ1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosotalea sinensis Nt−027
Candidatus Nitrosocosmicus franklandus C13
Candidatus Nitrosocosmicus oleophilus MY3
Candidatus Nitrosocosmicus exaleni A2F
Candidatus Nitrosocosmicus hydrocola
Candidatus Nitrosocosmicus sp. Q2
Candidatus Nitrosocosmicus sp. Q3
Candidatus Nitrosocosmicus sp. Q4
Candidatus Nitrosocosmicus sp. Q5
Candidatus Nitrosocosmicus sp. Q6
Candidatus Nitrosocosmicus sp. Q7
Candidatus Nitrosocosmicus sp. Q8
Candidatus Nitrosocosmicus sp. Q9
Candidatus Nitrosocosmicus sp. Q10
Candidatus Nitrosocosmicus sp. Q11
Candidatus Nitrosocosmicus sp. Q12
Candidatus Nitrosocosmicus sp. Q13
Candidatus Nitrosocosmicus sp. Q14
Candidatus Nitrosocosmicus sp. Q15
Candidatus Nitrosocosmicus sp. Q16
Candidatus Nitrosocosmicus sp. Q17
Candidatus Nitrosocosmicus sp. Q18
Candidatus Nitrosocosmicus sp. Q19
Candidatus Nitrosocosmicus sp. Q20
Candidatus Nitrosocosmicus sp. Q21
Candidatus Nitrosocosmicus sp. Q22
Candidatus Nitrosocosmicus sp. Q23
Candidatus Nitrosocosmicus sp. Q24
Candidatus Nitrosocosmicus sp. Q25
Candidatus Nitrosocosmicus sp. Q26
Candidatus Nitrosocosmicus sp. Q27
Candidatus Nitrosocosmicus sp. Q28
Candidatus Nitrosocosmicus sp. Q29
Candidatus Nitrosocosmicus sp. Q30
Candidatus Nitrosocosmicus sp. Q31
Candidatus Nitrosocosmicus sp. Q32
Candidatus Nitrosocosmicus sp. Q33
Candidatus Nitrosocosmicus sp. Q34
Candidatus Nitrosocosmicus sp. Q35
Candidatus Nitrosocosmicus sp. Q36
Candidatus Nitrosocosmicus sp. Q37
Candidatus Nitrosocosmicus sp. Q38
Candidatus Nitrosocosmicus sp. Q39
Candidatus Nitrosocosmicus sp. Q40
Candidatus Nitrosocosmicus sp. Q41
Candidatus Nitrosocosmicus sp. Q42
Candidatus Nitrosocosmicus sp. Q43
Candidatus Nitrosocosmicus sp. Q44
Candidatus Nitrosocosmicus sp. Q45
Candidatus Nitrosocosmicus sp. Q46
Candidatus Nitrosocosmicus sp. Q47
Candidatus Nitrosocosmicus sp. Q48
Candidatus Nitrosocosmicus sp. Q49
Candidatus Nitrosocosmicus sp. Q50
Candidatus Nitrosocosmicus sp. Q51
Candidatus Nitrosocosmicus sp. Q52
Candidatus Nitrosocosmicus sp. Q53
Candidatus Nitrosocosmicus sp. Q54
Candidatus Nitrosocosmicus sp. Q55
Candidatus Nitrosocosmicus sp. Q56
Candidatus Nitrosocosmicus sp. Q57
Candidatus Nitrosocosmicus sp. Q58
Candidatus Nitrosocosmicus sp. Q59
Candidatus Nitrosocosmicus sp. Q60
Candidatus Nitrosocosmicus sp. Q61
Candidatus Nitrosocosmicus sp. Q62
Candidatus Nitrosocosmicus sp. Q63
Candidatus Nitrosocosmicus sp. Q64
1e−20
1e−10
0.001
0.1
0.1+

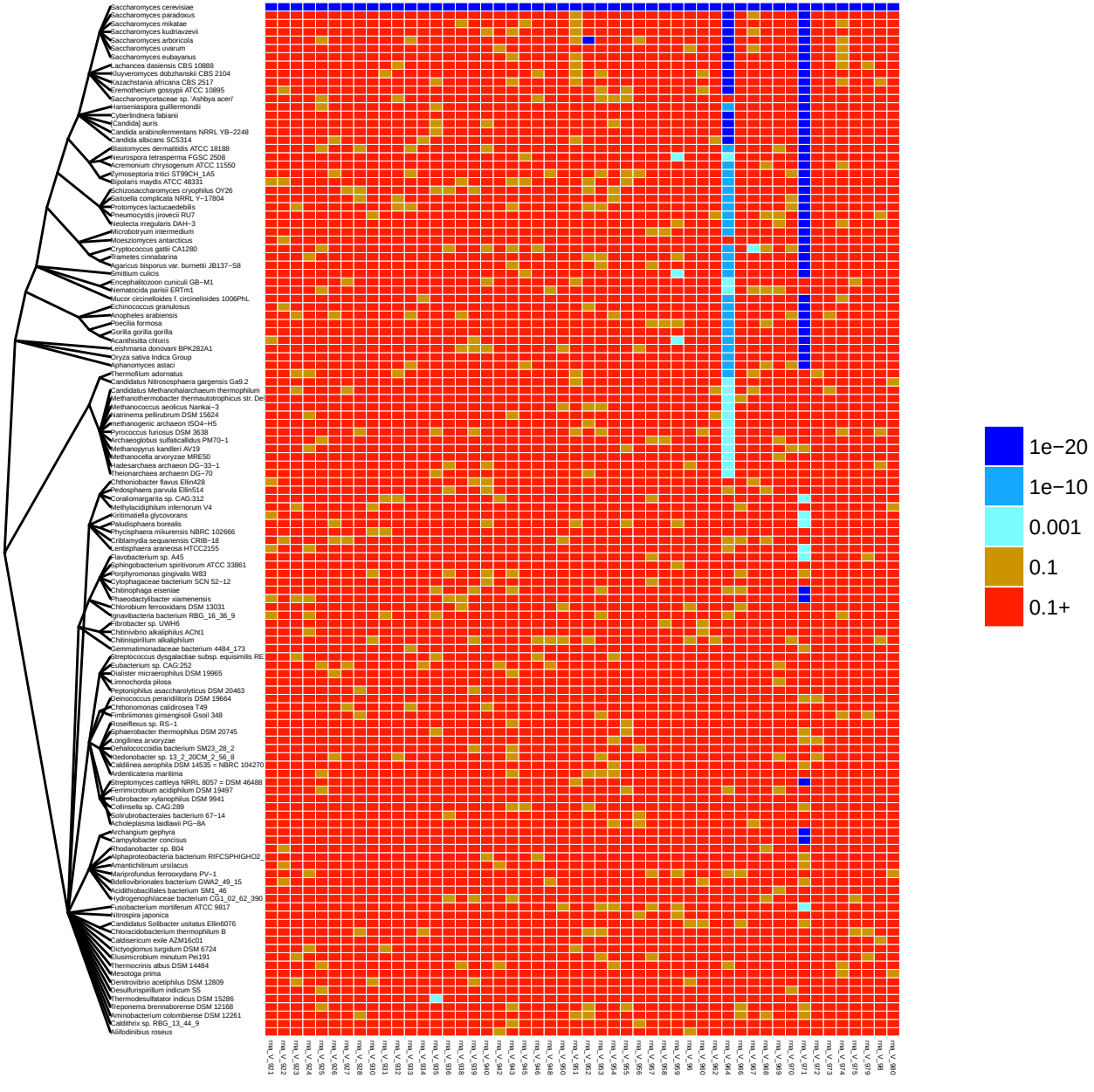

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
1e−20
1e−10
0.001
0.1

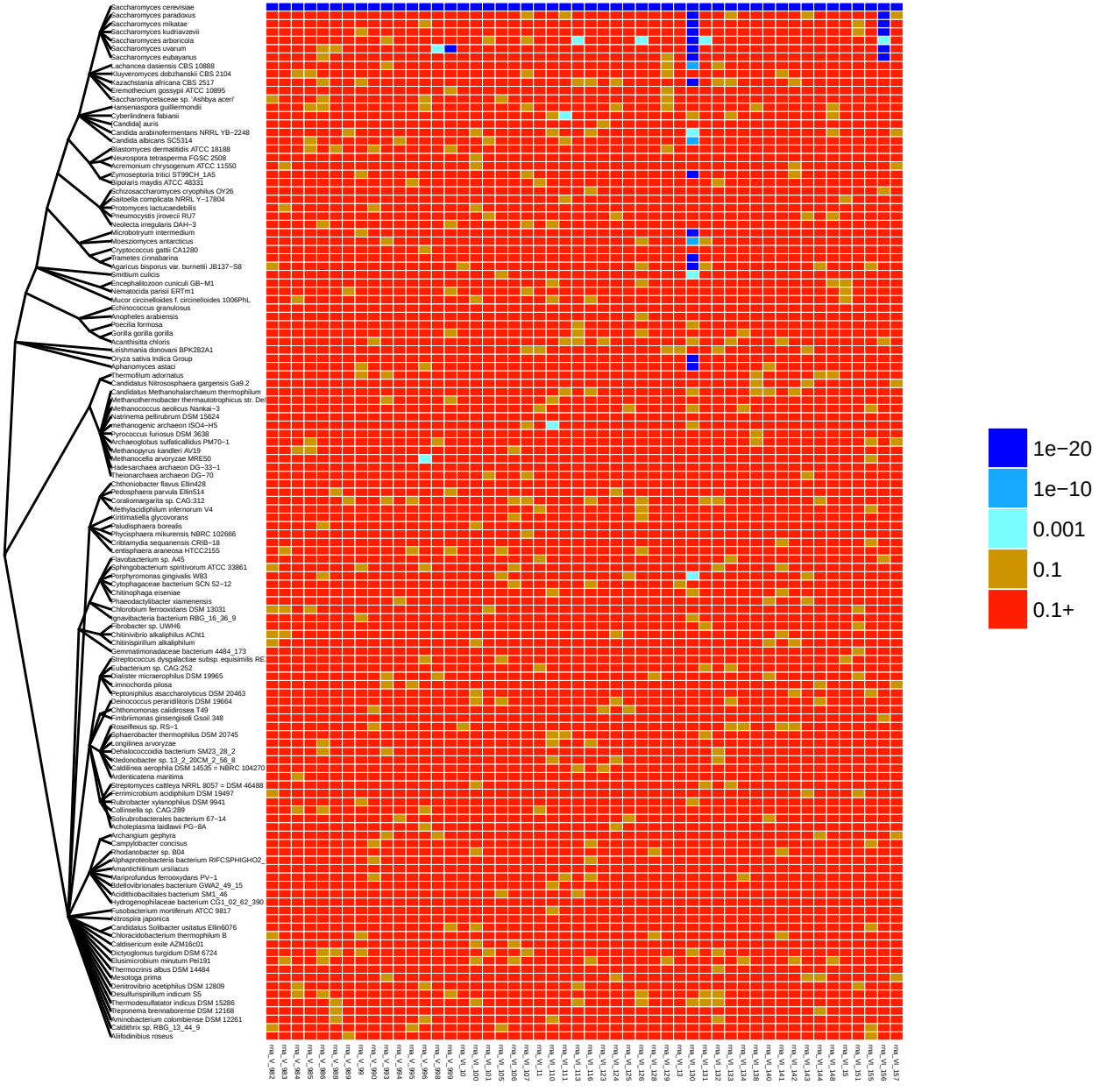

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_V_624
mu_V_625
mu_V_626
mu_V_627
mu_V_629
mu_V_630
mu_V_631
mu_V_632
mu_V_633
mu_V_634
mu_V_635
mu_V_636
mu_V_637
mu_V_639
mu_V_94
mu_V_940
mu_V_941
mu_V_942
mu_V_943
mu_V_944
mu_V_945
mu_V_946
mu_V_948
mu_V_95
mu_V_591
mu_V_592
mu_V_593
mu_V_594
mu_V_595
mu_V_659
mu_V_660
mu_V_661
mu_V_662
mu_V_663
mu_V_664
mu_V_665
mu_V_666
mu_V_667
mu_V_668
mu_V_669
mu_V_672
mu_V_675
mu_V_676
mu_V_679
mu_V_680
mu_V_681
mu_V_682
mu_V_684
mu_V_689
mu_V_690
mu_V_693
mu_V_694
mu_V_695
mu_V_696
mu_V_697
mu_V_698
1e−20
1e−10
0.001
0.1
0.1+

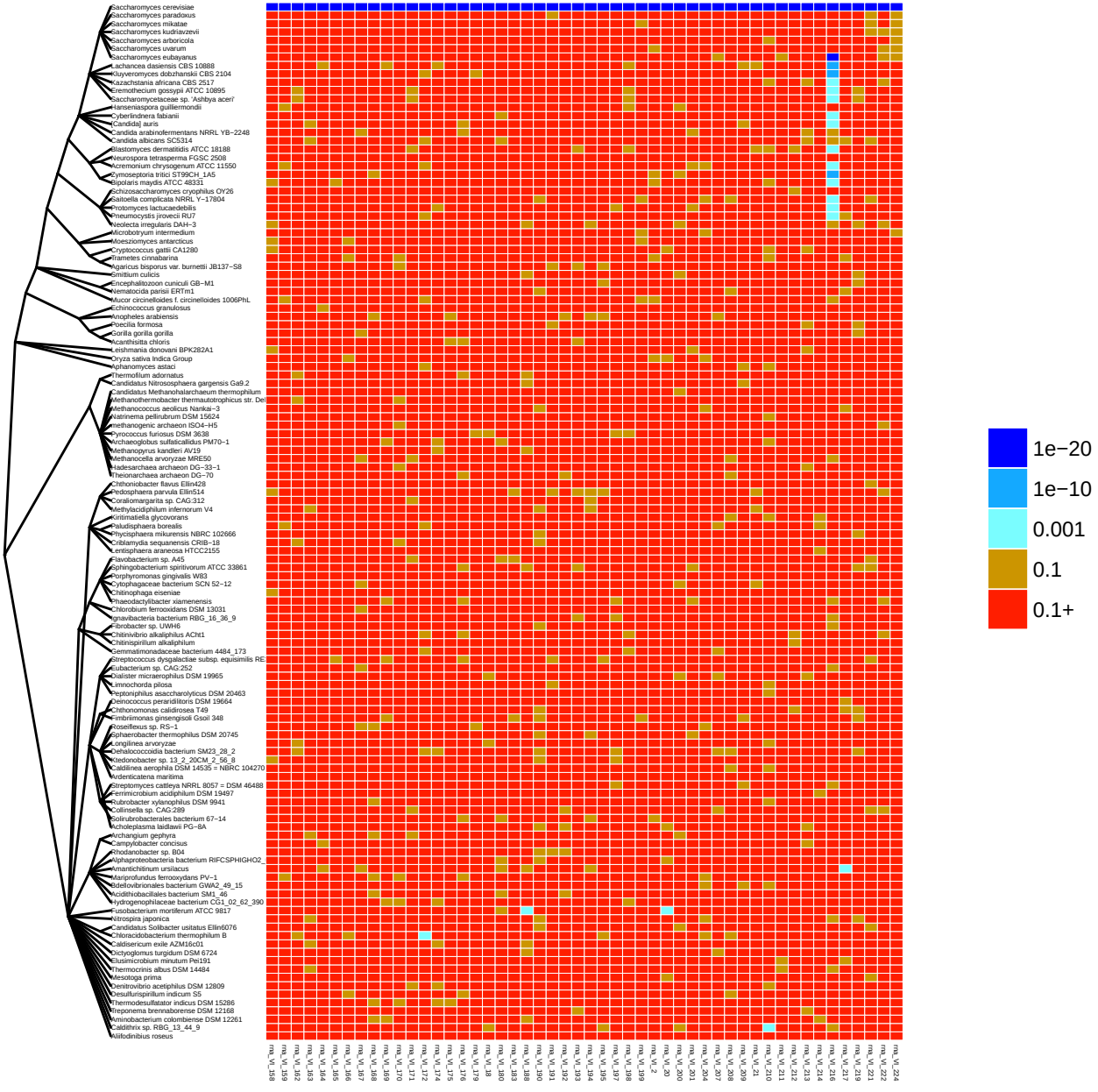

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_V_7
ma_V_700
ma_V_701
ma_V_704
ma_V_705
ma_V_706
ma_V_707
ma_V_710
ma_V_712
ma_V_713
ma_V_714
ma_V_715
ma_V_716
ma_V_717
ma_V_718
ma_V_719
ma_V_720
ma_V_721
ma_V_722
ma_V_723
ma_V_725
ma_V_726
ma_V_727
ma_V_728
ma_V_73
ma_V_731
ma_V_732
ma_V_733
ma_V_735
ma_V_736
ma_V_737
ma_V_74
ma_V_741
ma_V_743
ma_V_744
ma_V_747
ma_V_748
ma_V_752
ma_V_755
ma_V_756
ma_V_758
ma_V_759
ma_V_76
ma_V_761
ma_V_763
ma_V_764
ma_V_765
ma_V_766
ma_V_767
ma_V_77
1e−20
1e−10
0.001
0.1
0.1+

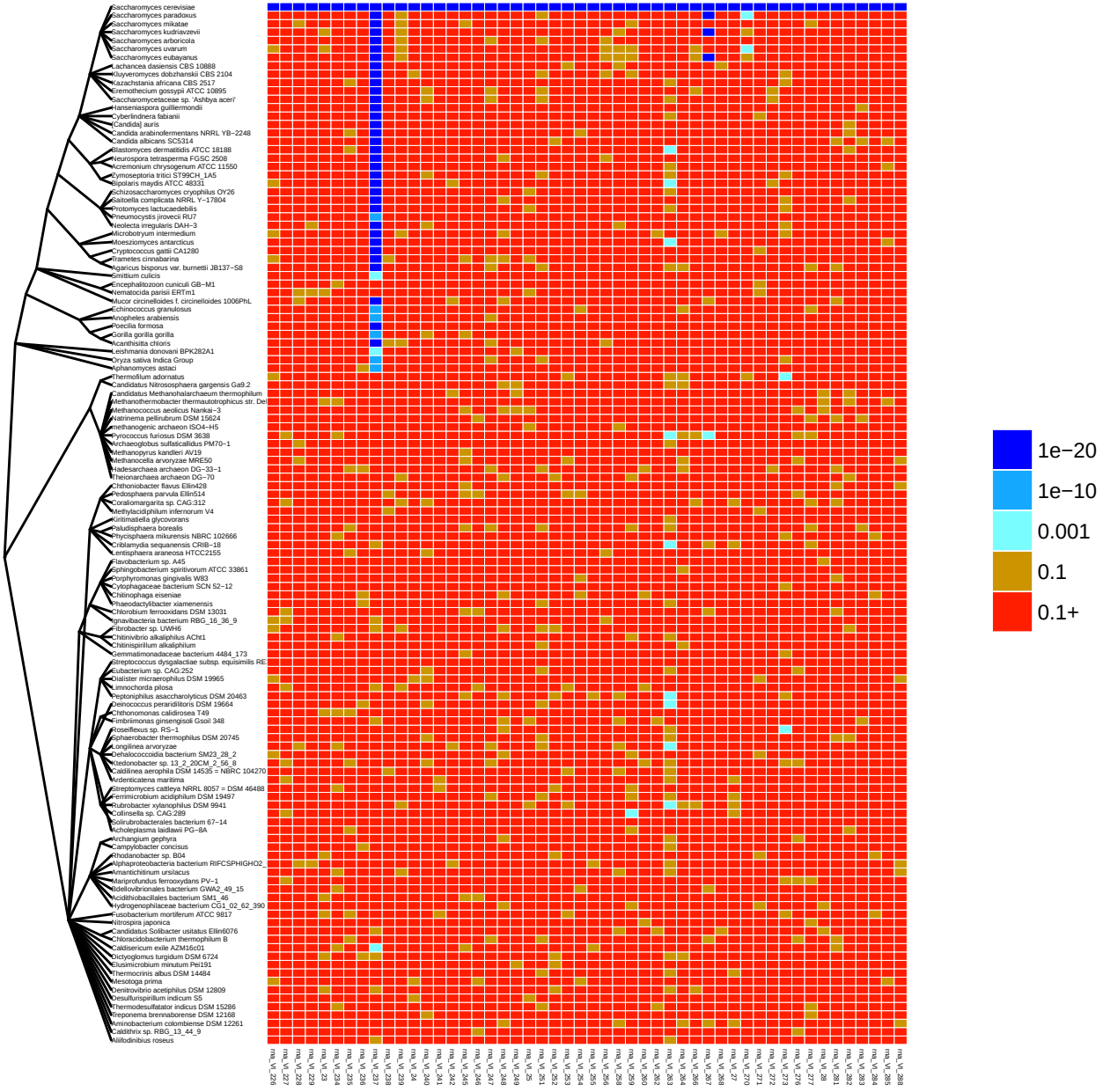

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonio bacter flavus Ellin428
Pedosphaera parvula Ellin514
Kiritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_v_770
ma_v_771
ma_v_772
ma_v_773
ma_v_776
ma_v_777
ma_v_78
ma_v_781
ma_v_782
ma_v_783
ma_v_785
ma_v_79
ma_v_795
ma_v_797
ma_v_798
ma_v_799
ma_v_8
ma_v_80
ma_v_801
ma_v_803
ma_v_804
ma_v_809
ma_v_810
ma_v_811
ma_v_813
ma_v_814
ma_v_815
ma_v_817
ma_v_818
ma_v_819
ma_v_820
ma_v_821
ma_v_823
ma_v_824
ma_v_825
ma_v_827
ma_v_828
ma_v_83
ma_v_832
ma_v_833
ma_v_834
ma_v_835
ma_v_837
ma_v_839
ma_v_84
ma_v_840
ma_v_843
ma_v_844
ma_v_845
ma_v_847
1e−20
1e−10
0.001
0.1
0.1+

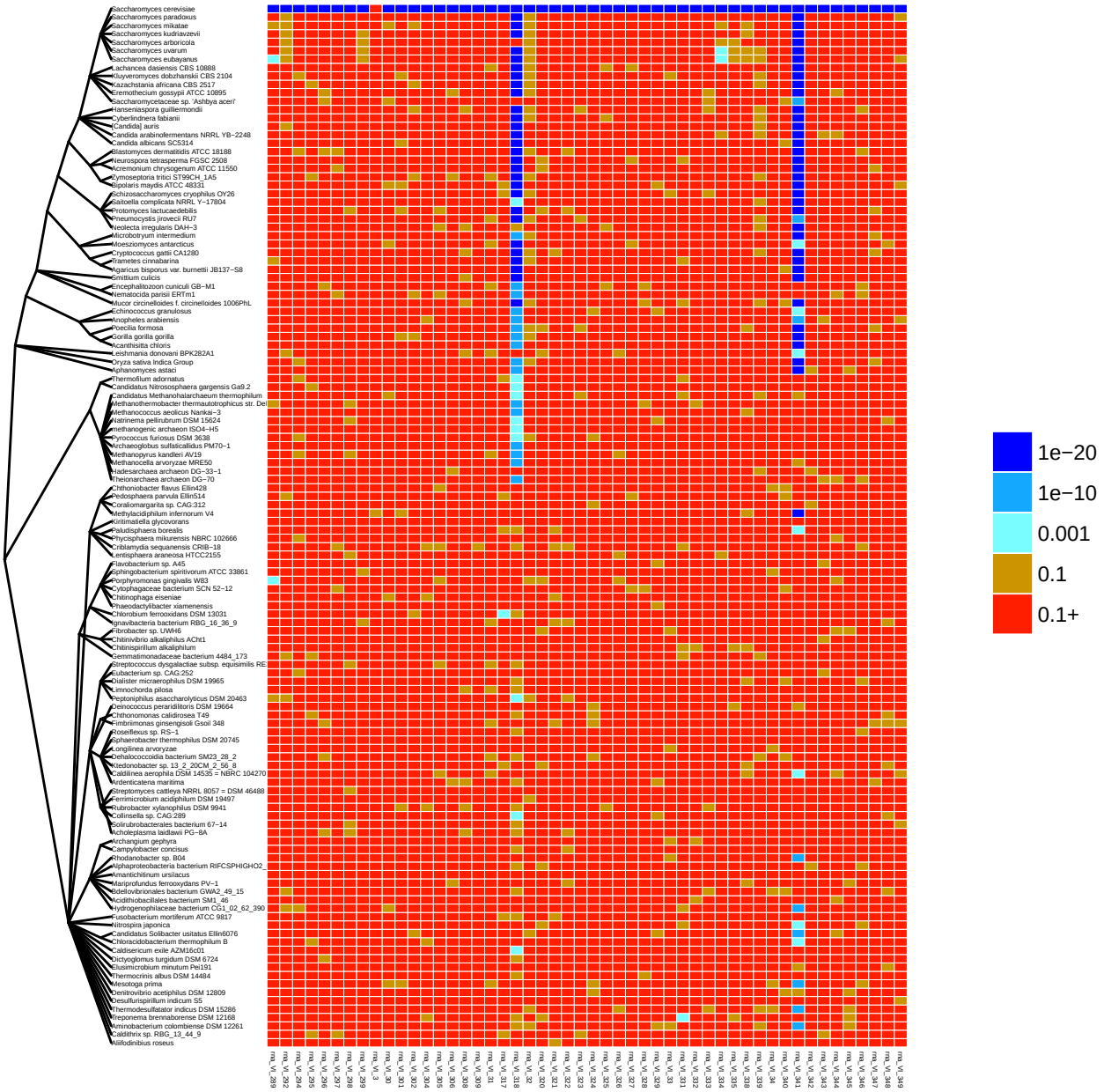

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_v_948
mu_v_949
mu_v_950
mu_v_952
mu_v_955
mu_v_956
mu_v_98
mu_v_860
mu_v_862
mu_v_863
mu_v_864
mu_v_865
mu_v_866
mu_v_869
mu_v_87
mu_v_871
mu_v_875
mu_v_878
mu_v_879
mu_v_880
mu_v_881
mu_v_882
mu_v_883
mu_v_884
mu_v_885
mu_v_886
mu_v_887
mu_v_888
mu_v_889
mu_v_89
mu_v_890
mu_v_894
mu_v_895
mu_v_896
mu_v_897
mu_v_9
mu_v_900
mu_v_901
mu_v_904
mu_v_905
mu_v_906
mu_v_907
mu_v_909
mu_v_911
mu_v_912
mu_v_913
mu_v_914
mu_v_915
mu_v_917
mu_v_920
1e−20
1e−10
0.001
0.1
0.1+

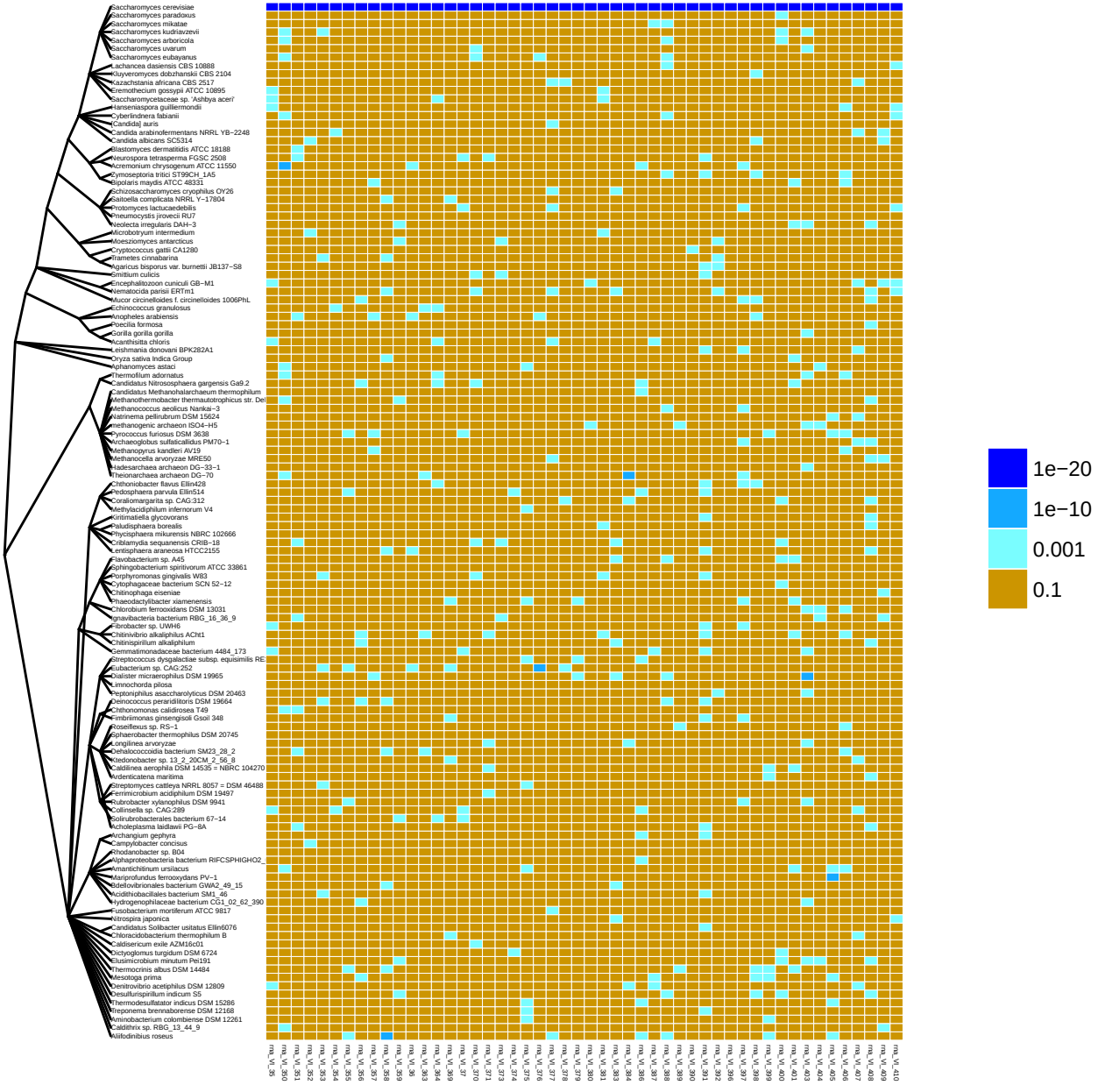

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
ma_v_921
ma_v_922
ma_v_923
ma_v_924
ma_v_925
ma_v_926
ma_v_927
ma_v_928
ma_v_929
ma_v_930
ma_v_931
ma_v_932
ma_v_933
ma_v_934
ma_v_935
ma_v_936
ma_v_937
ma_v_938
ma_v_939
ma_v_940
ma_v_941
ma_v_942
ma_v_943
ma_v_944
ma_v_945
ma_v_946
ma_v_947
ma_v_948
ma_v_949
ma_v_950
ma_v_951
ma_v_952
ma_v_953
ma_v_954
ma_v_955
ma_v_956
ma_v_957
ma_v_958
ma_v_959
ma_v_960
ma_v_961
ma_v_962
ma_v_963
ma_v_964
ma_v_965
ma_v_966
ma_v_967
ma_v_968
ma_v_969
ma_v_970
ma_v_971
ma_v_972
ma_v_973
ma_v_974
ma_v_975
ma_v_976
ma_v_977
ma_v_978
ma_v_979
ma_v_980
1e−20
1e−10
0.001
0.1
0.1+

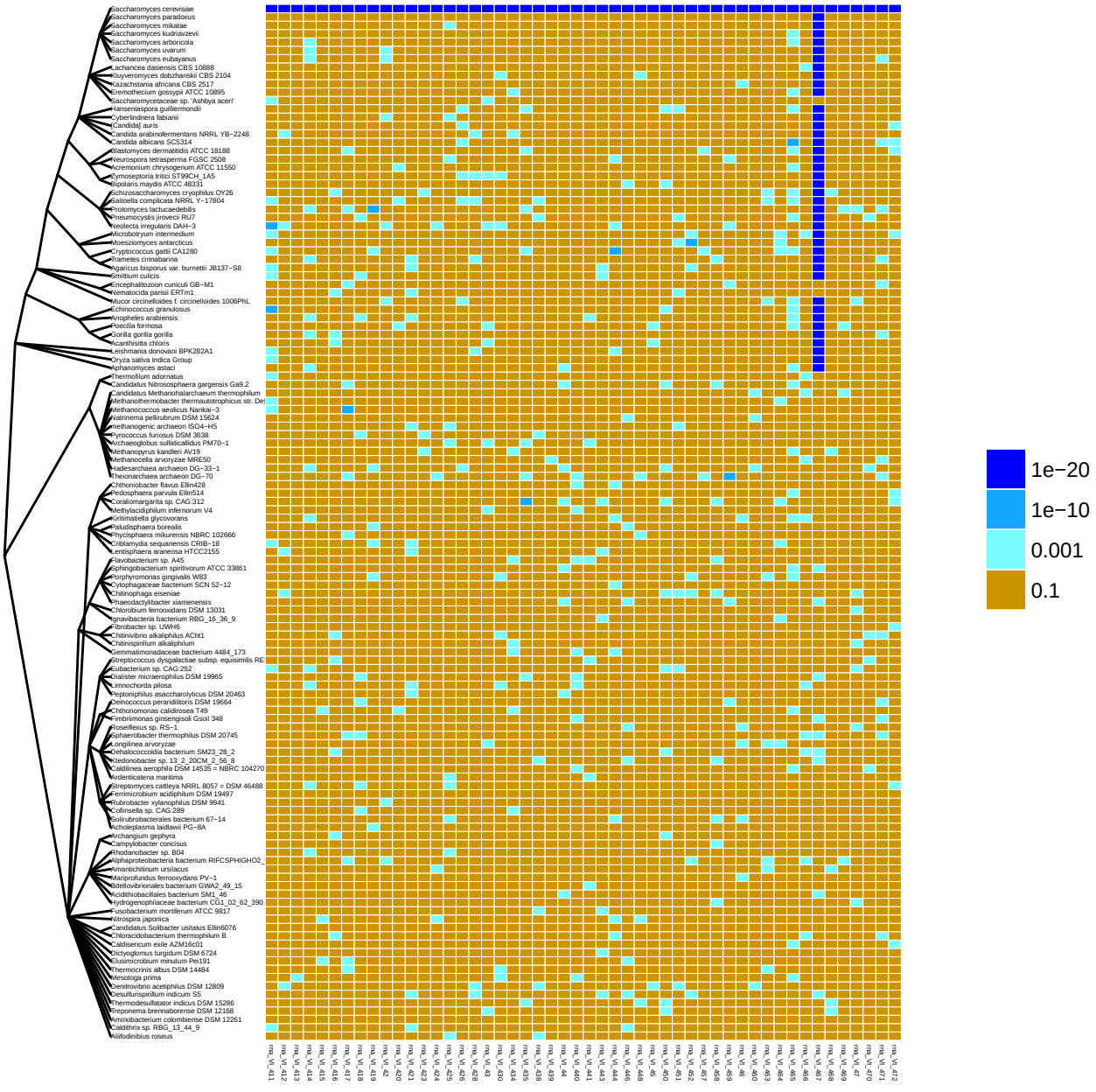

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_V_982
mu_V_983
mu_V_984
mu_V_985
mu_V_986
mu_V_988
mu_V_989
mu_V_99
mu_V_990
mu_V_993
mu_V_994
mu_V_995
mu_V_996
mu_V_998
mu_V_999
mu_V_10
mu_V_100
mu_V_101
mu_V_105
mu_V_106
mu_V_107
mu_V_11
mu_V_110
mu_V_111
mu_V_113
mu_V_116
mu_V_123
mu_V_124
mu_V_125
mu_V_126
mu_V_128
mu_V_129
mu_V_13
mu_V_130
mu_V_131
mu_V_132
mu_V_133
mu_V_134
mu_V_138
mu_V_140
mu_V_141
mu_V_142
mu_V_143
mu_V_144
mu_V_148
mu_V_15
mu_V_151
mu_V_155
mu_V_156
mu_V_157
1e−20
1e−10
0.001
0.1
0.1+

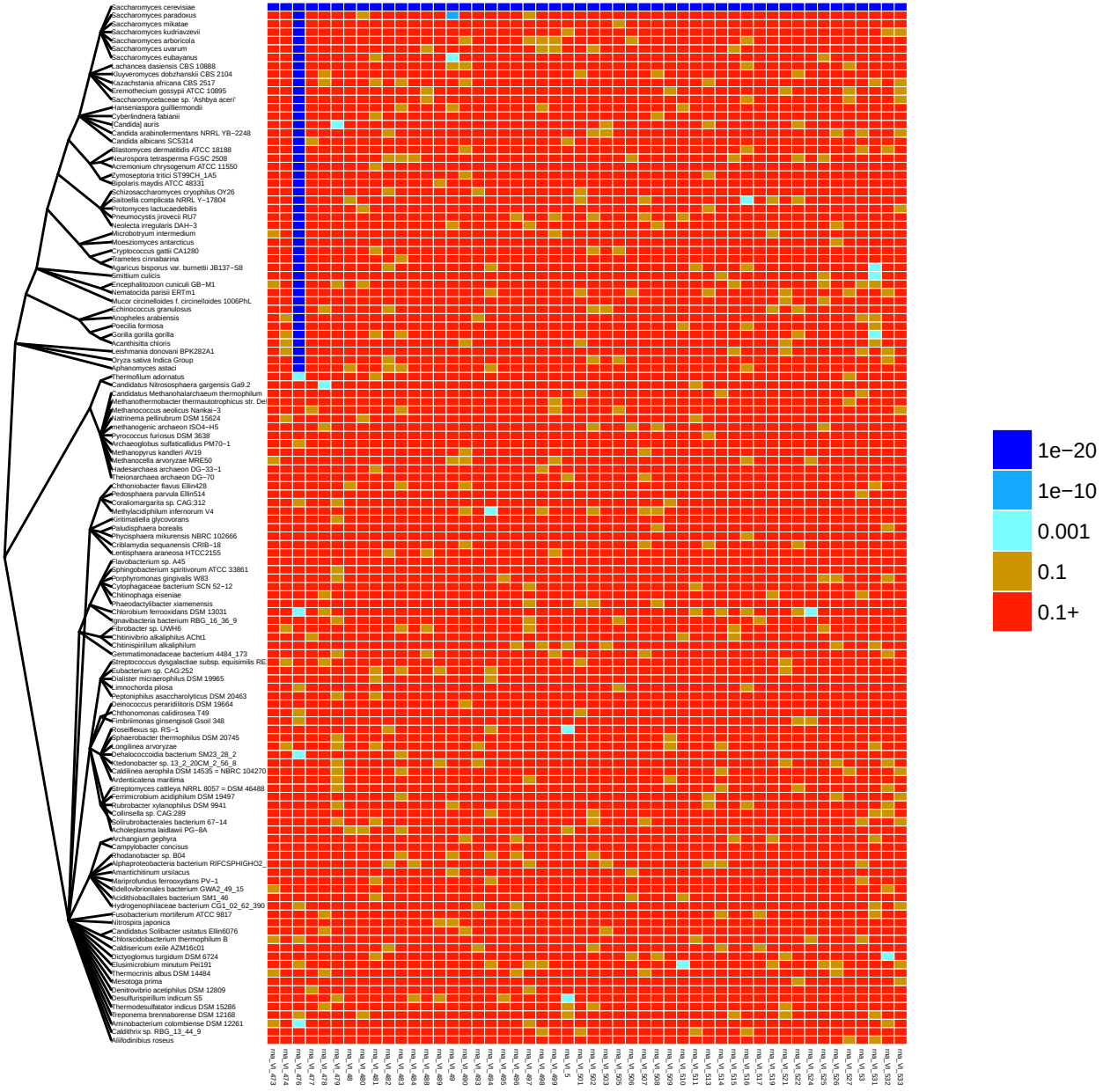

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
rna_VI_158
rna_VI_159
rna_VI_162
rna_VI_163
rna_VI_164
rna_VI_165
rna_VI_166
rna_VI_167
rna_VI_168
rna_VI_169
rna_VI_170
rna_VI_171
rna_VI_172
rna_VI_174
rna_VI_175
rna_VI_176
rna_VI_179
rna_VI_18
rna_VI_180
rna_VI_183
rna_VI_188
rna_VI_190
rna_VI_191
rna_VI_192
rna_VI_193
rna_VI_194
rna_VI_195
rna_VI_197
rna_VI_198
rna_VI_199
rna_VI_2
rna_VI_20
rna_VI_200
rna_VI_201
rna_VI_204
rna_VI_207
rna_VI_208
rna_VI_209
rna_VI_21
rna_VI_210
rna_VI_211
rna_VI_212
rna_VI_213
rna_VI_214
rna_VI_216
rna_VI_217
rna_VI_219
rna_VI_221
rna_VI_222
rna_VI_224
1e−20
1e−10
0.001
0.1
0.1+

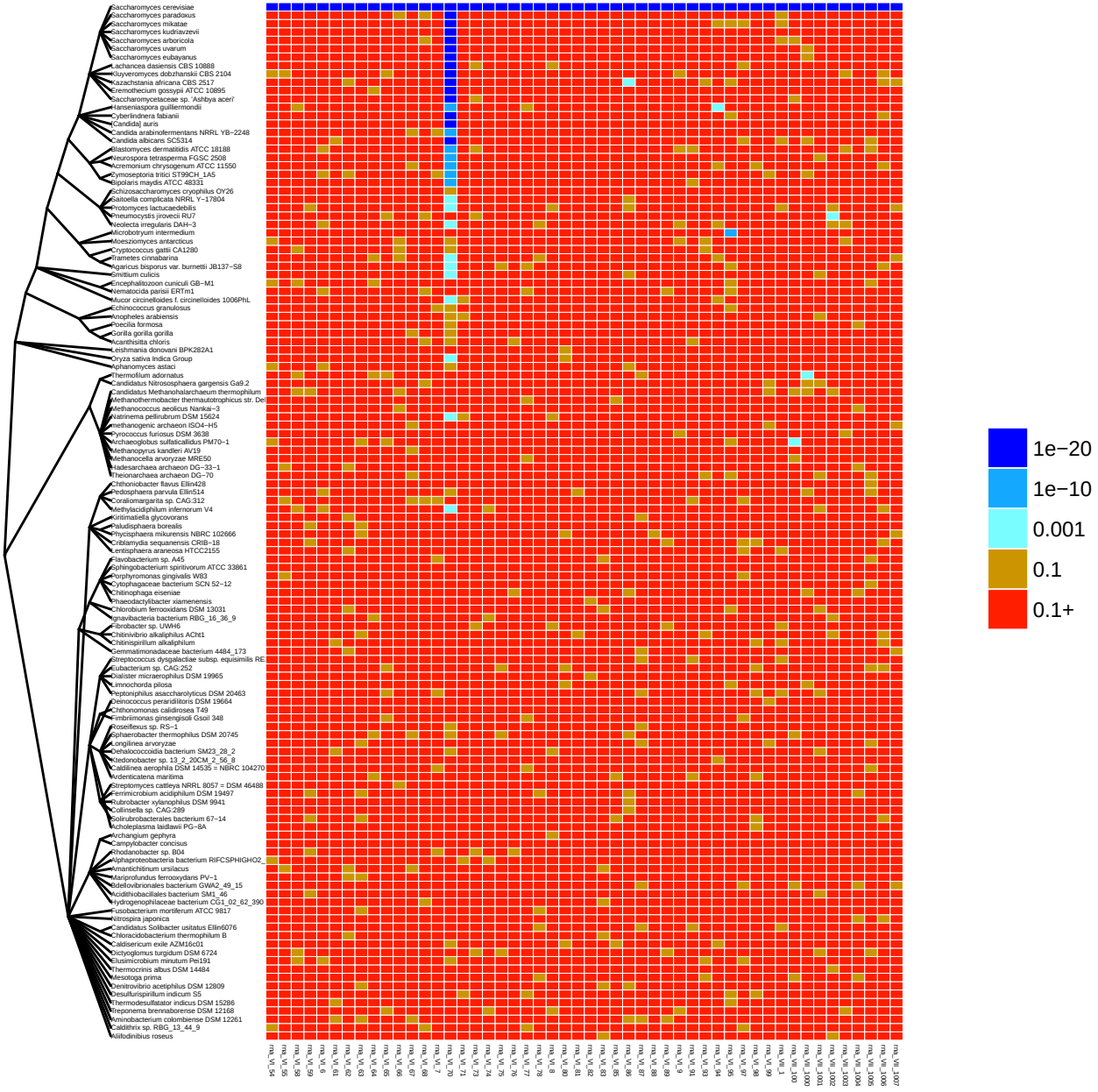

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
ma_VI_226
ma_VI_227
ma_VI_228
ma_VI_229
ma_VI_23
ma_VI_234
ma_VI_235
ma_VI_236
ma_VI_237
ma_VI_238
ma_VI_239
ma_VI_24
ma_VI_240
ma_VI_241
ma_VI_242
ma_VI_245
ma_VI_246
ma_VI_247
ma_VI_248
ma_VI_249
ma_VI_25
ma_VI_251
ma_VI_252
ma_VI_253
ma_VI_254
ma_VI_255
ma_VI_256
ma_VI_258
ma_VI_259
ma_VI_260
ma_VI_262
ma_VI_263
ma_VI_264
ma_VI_266
ma_VI_267
ma_VI_268
ma_VI_27
ma_VI_270
ma_VI_271
ma_VI_272
ma_VI_273
ma_VI_276
ma_VI_277
ma_VI_28
ma_VI_281
ma_VI_282
ma_VI_283
ma_VI_284
ma_VI_285
ma_VI_288
1e−20
1e−10
0.001
0.1
0.1+

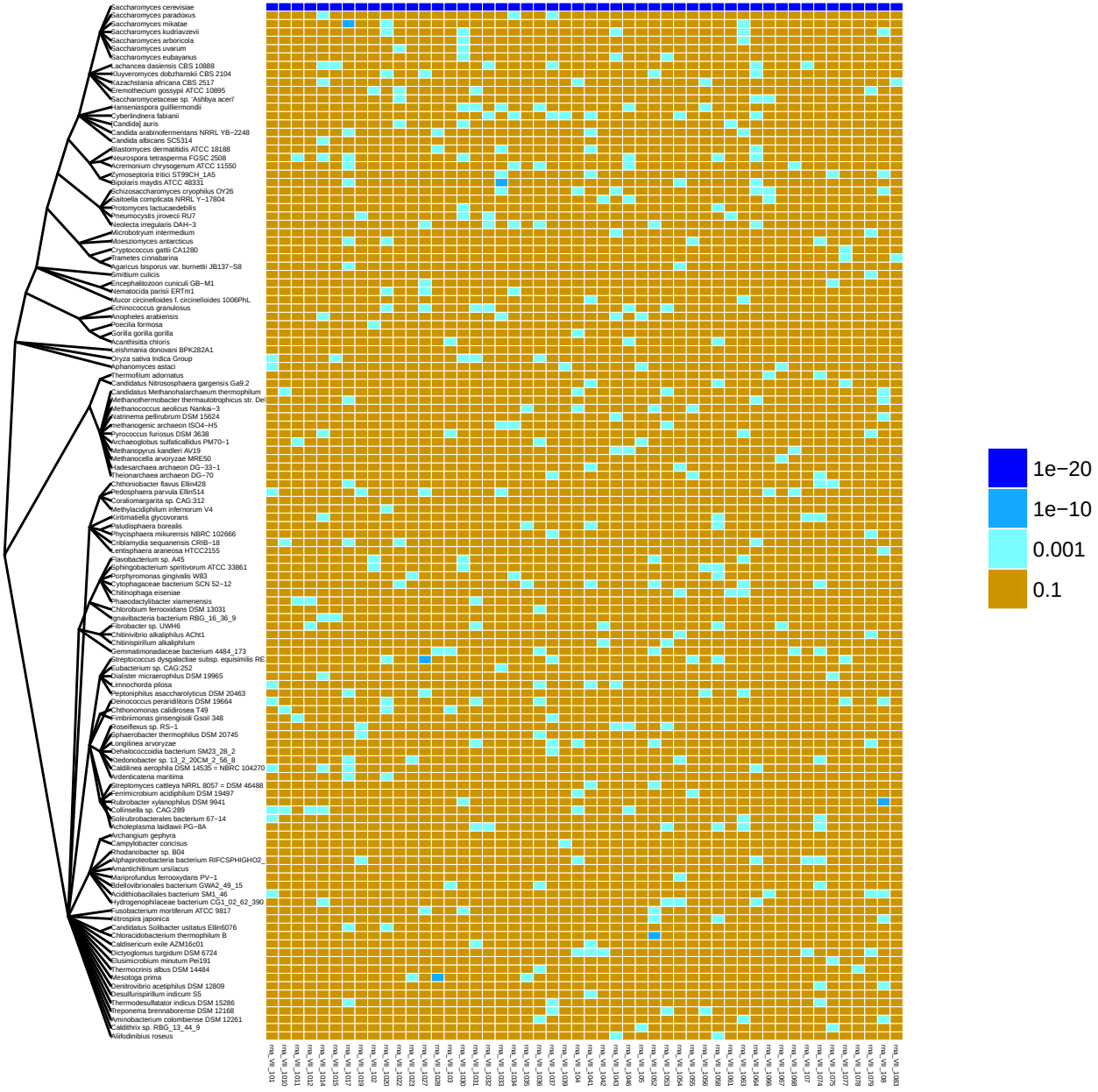

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_VI_289
ma_VI_292
ma_VI_294
ma_VI_295
ma_VI_296
ma_VI_297
ma_VI_298
ma_VI_299
ma_VI_3
ma_VI_30
ma_VI_301
ma_VI_302
ma_VI_304
ma_VI_305
ma_VI_306
ma_VI_308
ma_VI_309
ma_VI_31
ma_VI_317
ma_VI_318
ma_VI_32
ma_VI_320
ma_VI_321
ma_VI_322
ma_VI_323
ma_VI_324
ma_VI_325
ma_VI_326
ma_VI_327
ma_VI_328
ma_VI_329
ma_VI_33
ma_VI_331
ma_VI_332
ma_VI_333
ma_VI_334
ma_VI_335
ma_VI_338
ma_VI_339
ma_VI_34
ma_VI_340
ma_VI_341
ma_VI_342
ma_VI_343
ma_VI_344
ma_VI_345
ma_VI_346
ma_VI_347
ma_VI_348
ma_VI_349
1e−20
1e−10
0.001
0.1
0.1+

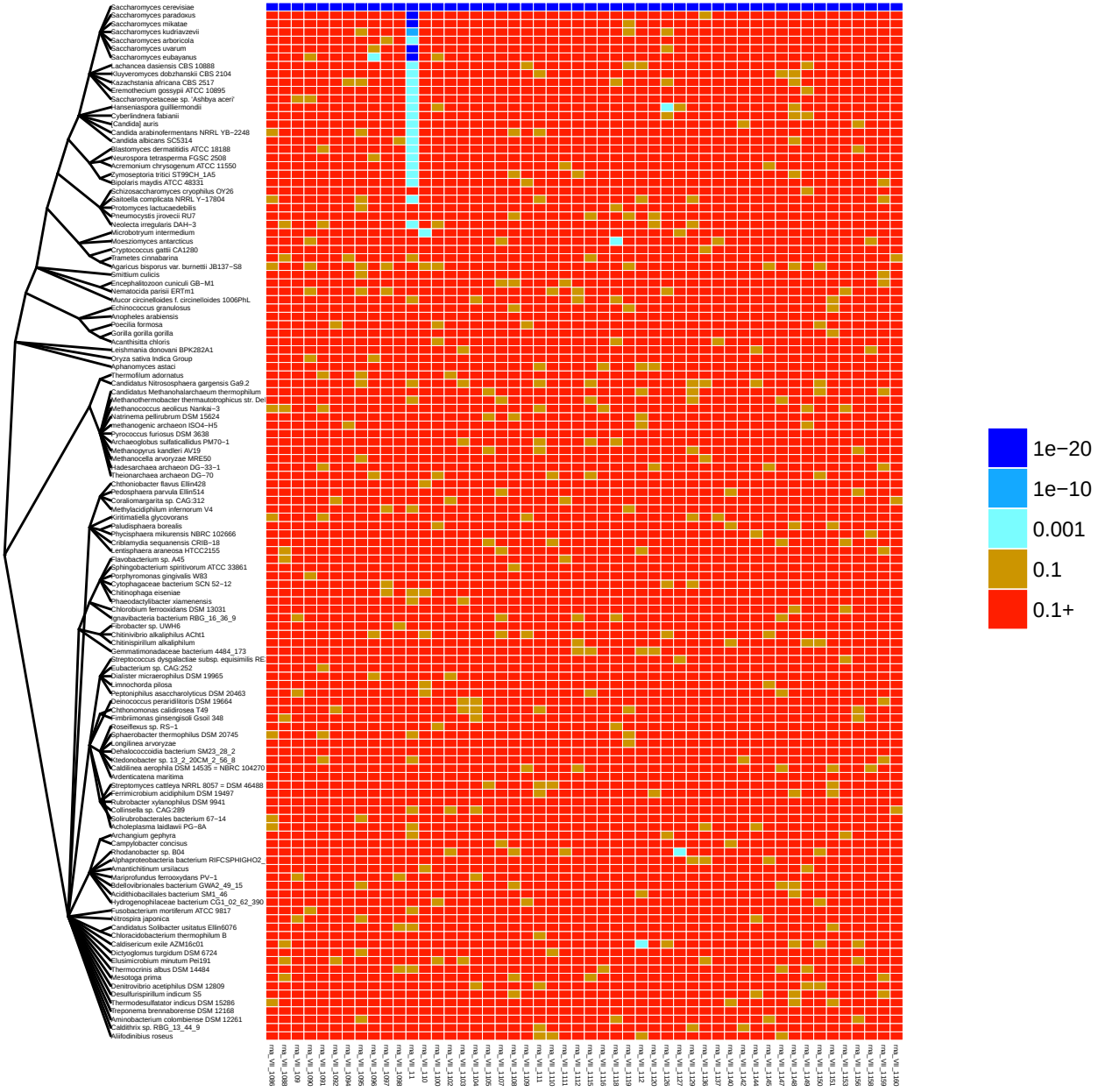

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_VI_26
ma_VI_350
ma_VI_351
ma_VI_352
ma_VI_353
ma_VI_354
ma_VI_355
ma_VI_356
ma_VI_357
ma_VI_358
ma_VI_359
ma_VI_36
ma_VI_363
ma_VI_364
ma_VI_369
ma_VI_370
ma_VI_371
ma_VI_373
ma_VI_374
ma_VI_375
ma_VI_376
ma_VI_377
ma_VI_378
ma_VI_379
ma_VI_380
ma_VI_381
ma_VI_383
ma_VI_384
ma_VI_386
ma_VI_387
ma_VI_388
ma_VI_389
ma_VI_390
ma_VI_391
ma_VI_392
ma_VI_396
ma_VI_397
ma_VI_398
ma_VI_399
ma_VI_400
ma_VI_401
ma_VI_403
ma_VI_404
ma_VI_405
ma_VI_406
ma_VI_407
ma_VI_408
ma_VI_409
ma_VI_410
1e−20
1e−10
0.001
0.1

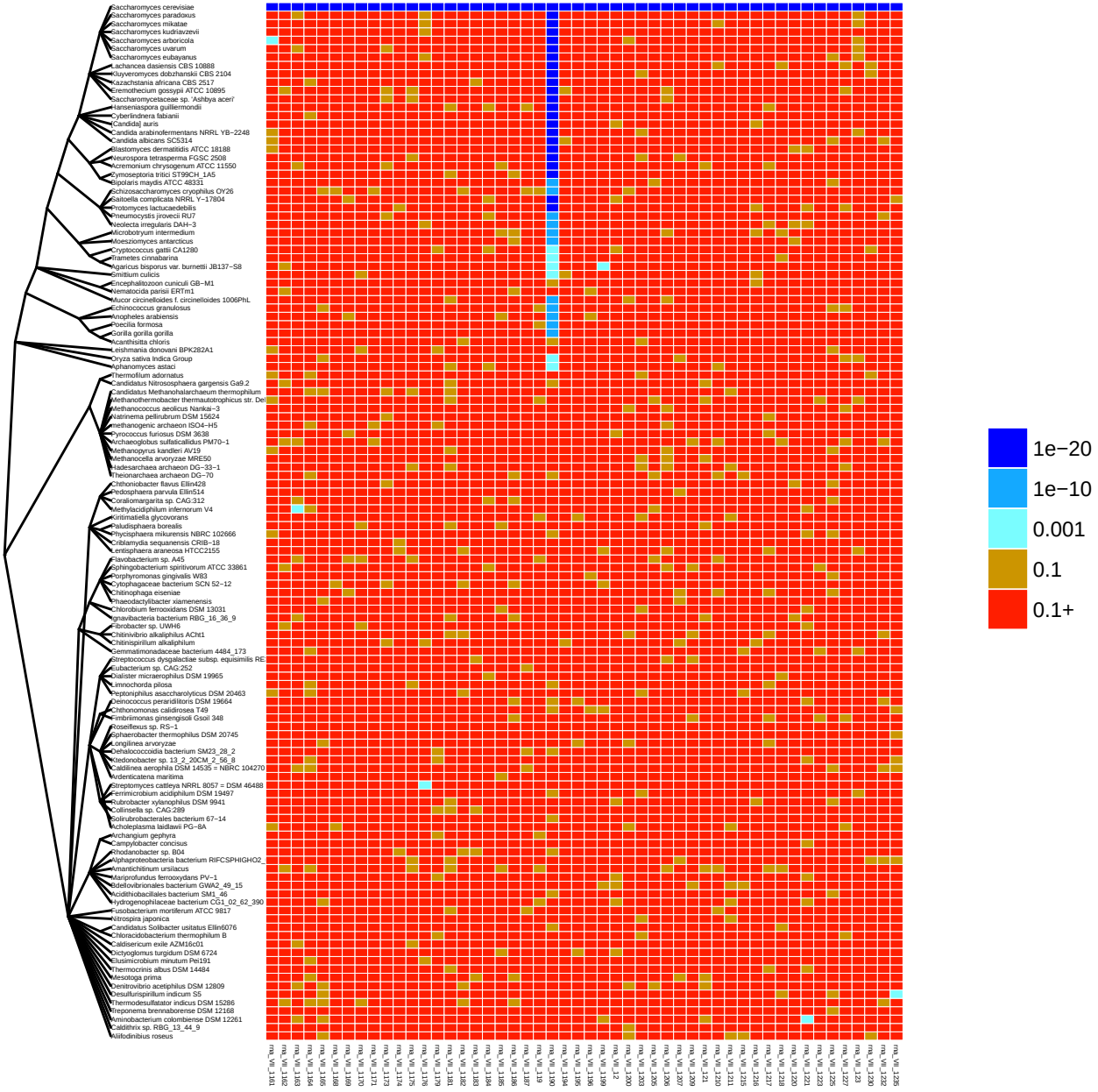

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is76
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is53
Nitrosomonas sp. Is52
Nitrosomonas sp. Is51
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
Nitrosomonas sp. Is36
Nitrosomonas sp. Is35
Nitrosomonas sp. Is34
Nitrosomonas sp. Is33
Nitrosomonas sp. Is32
Nitrosomonas sp. Is31
Nitrosomonas sp. Is30
Nitrosomonas sp. Is29
Nitrosomonas sp. Is28
Nitrosomonas sp. Is27
Nitrosomonas sp. Is26
Nitrosomonas sp. Is25
Nitrosomonas sp. Is24
Nitrosomonas sp. Is23
Nitrosomonas sp. Is22
Nitrosomonas sp. Is21
Nitrosomonas sp. Is20
Nitrosomonas sp. Is19
Nitrosomonas sp. Is18
Nitrosomonas sp. Is17
Nitrosomonas sp. Is16
Nitrosomonas sp. Is15
Nitrosomonas sp. Is14
Nitrosomonas sp. Is13
Nitrosomonas sp. Is12
Nitrosomonas sp. Is11
1e−20
1e−10
0.001
0.1

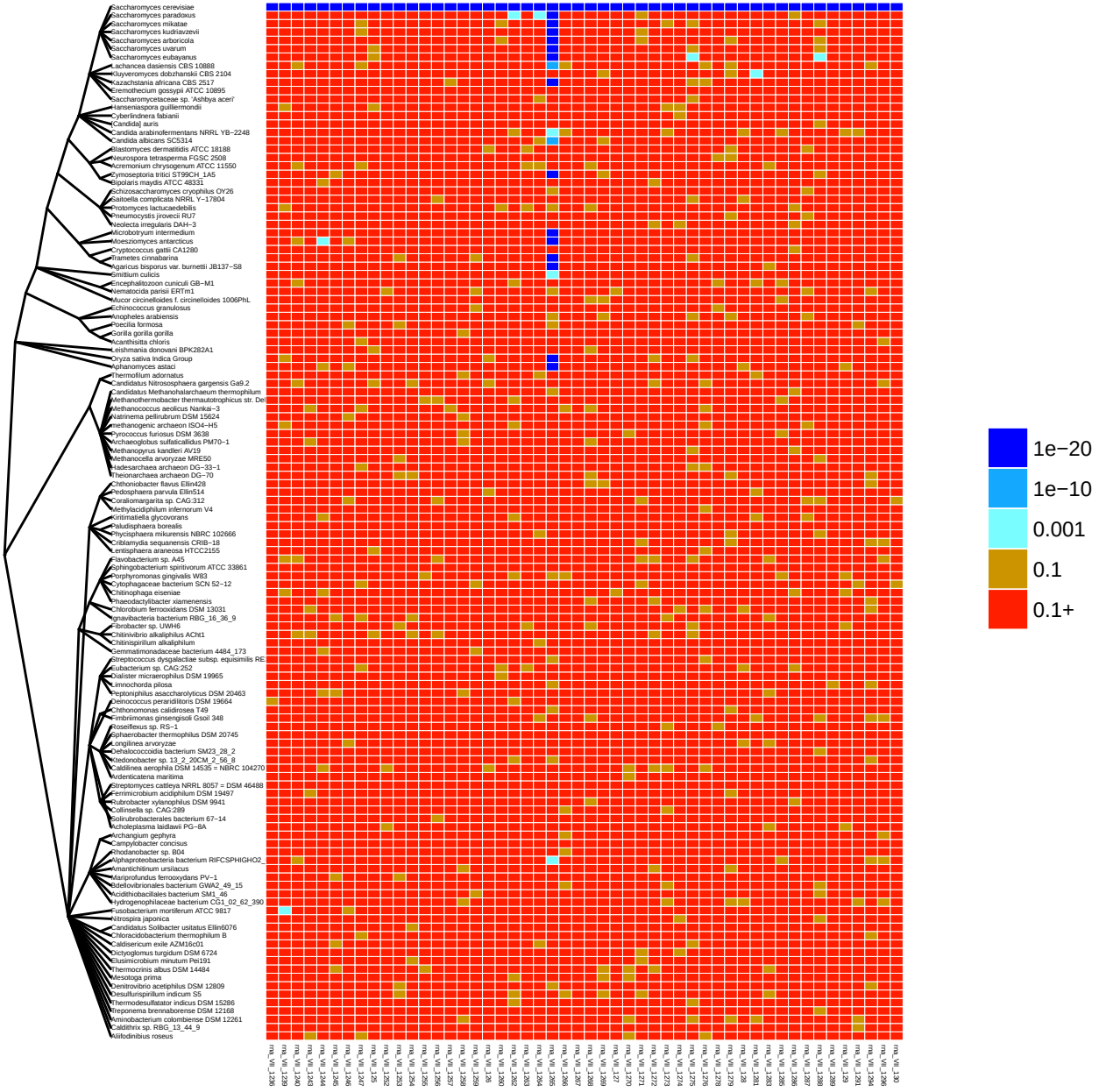

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
ma_vi_473
ma_vi_474
ma_vi_476
ma_vi_477
ma_vi_478
ma_vi_479
ma_vi_48
ma_vi_480
ma_vi_481
ma_vi_482
ma_vi_483
ma_vi_484
ma_vi_488
ma_vi_489
ma_vi_49
ma_vi_490
ma_vi_493
ma_vi_494
ma_vi_495
ma_vi_496
ma_vi_497
ma_vi_498
ma_vi_499
ma_vi_5
ma_vi_501
ma_vi_502
ma_vi_503
ma_vi_505
ma_vi_506
ma_vi_507
ma_vi_508
ma_vi_509
ma_vi_510
ma_vi_511
ma_vi_513
ma_vi_514
ma_vi_515
ma_vi_516
ma_vi_517
ma_vi_519
ma_vi_521
ma_vi_522
ma_vi_524
ma_vi_525
ma_vi_526
ma_vi_527
ma_vi_53
ma_vi_531
ma_vi_532
ma_vi_533
1e−20
1e−10
0.001
0.1
0.1+

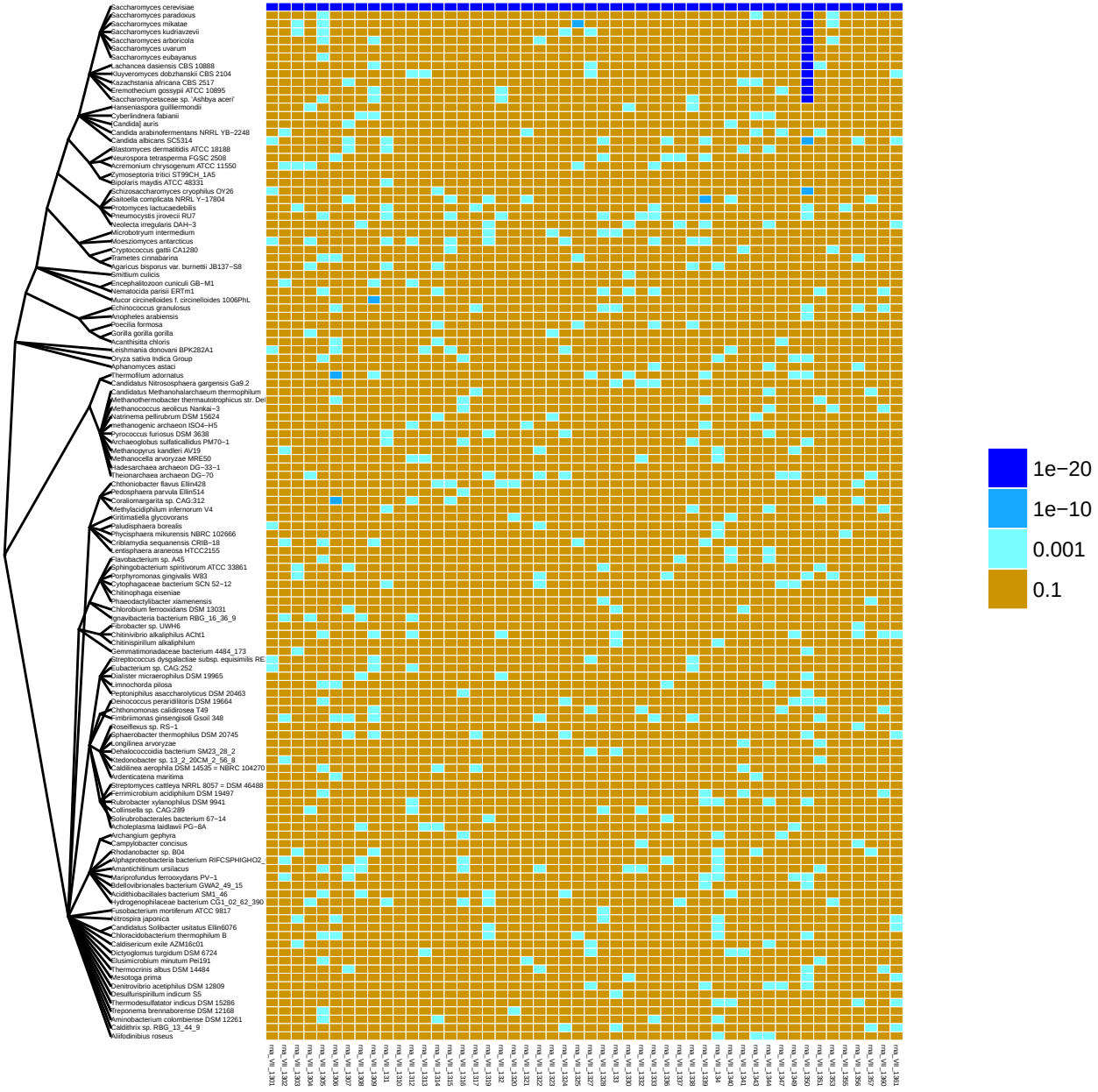

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_VI_54
ma_VI_55
ma_VI_58
ma_VI_59
ma_VI_6
ma_VI_61
ma_VI_62
ma_VI_63
ma_VI_64
ma_VI_65
ma_VI_66
ma_VI_67
ma_VI_68
ma_VI_7
ma_VI_70
ma_VI_71
ma_VI_73
ma_VI_74
ma_VI_75
ma_VI_76
ma_VI_77
ma_VI_78
ma_VI_8
ma_VI_80
ma_VI_81
ma_VI_82
ma_VI_83
ma_VI_85
ma_VI_86
ma_VI_87
ma_VI_88
ma_VI_89
ma_VI_9
ma_VI_91
ma_VI_93
ma_VI_94
ma_VI_95
ma_VI_97
ma_VI_98
ma_VI_99
ma_VI_1
ma_VI_100
ma_VI_1000
ma_VI_1001
ma_VI_1002
ma_VI_1003
ma_VI_1004
ma_VI_1005
ma_VI_1006
ma_VI_1007
1e−20
1e−10
0.001
0.1
0.1+

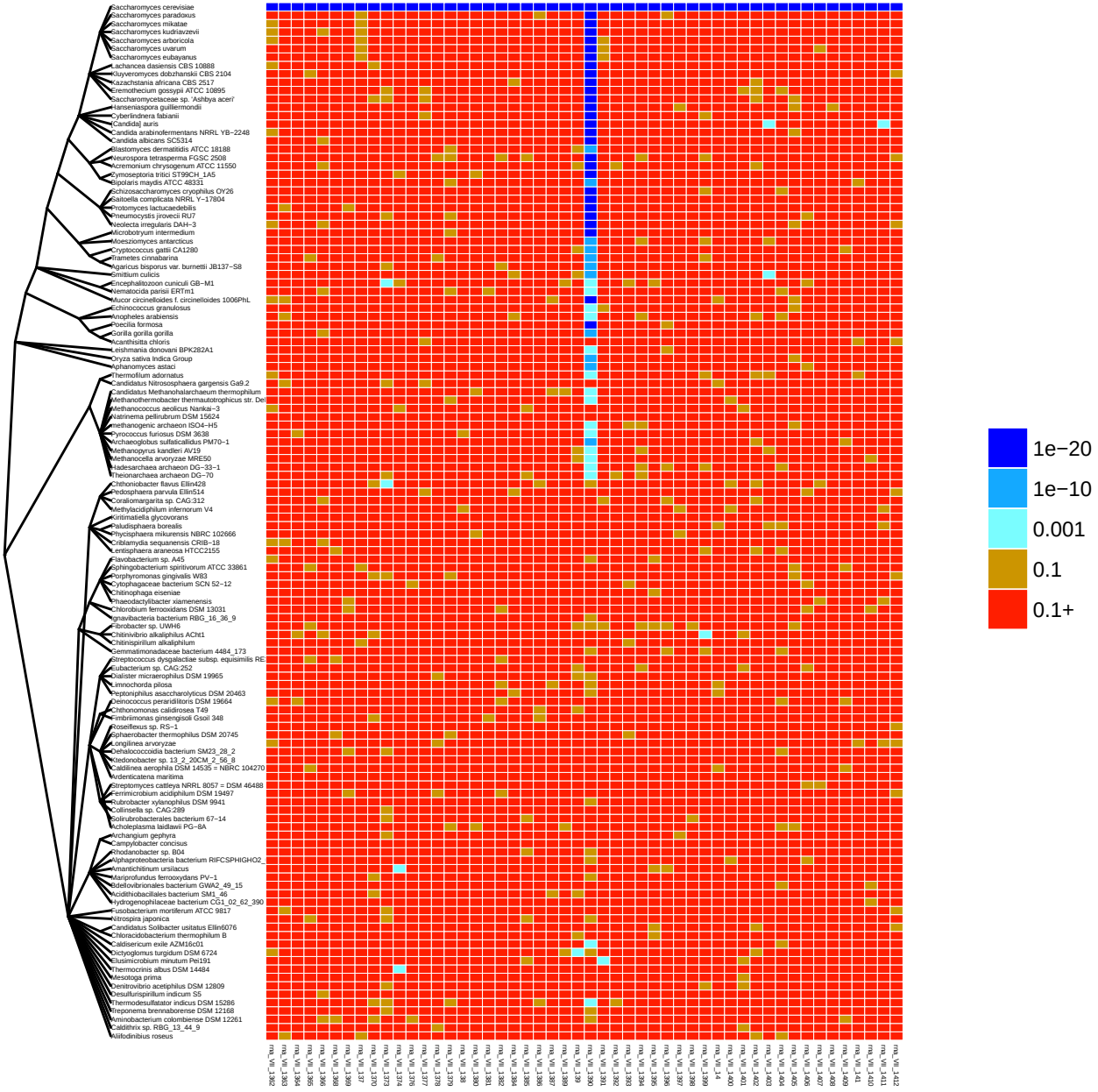

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1

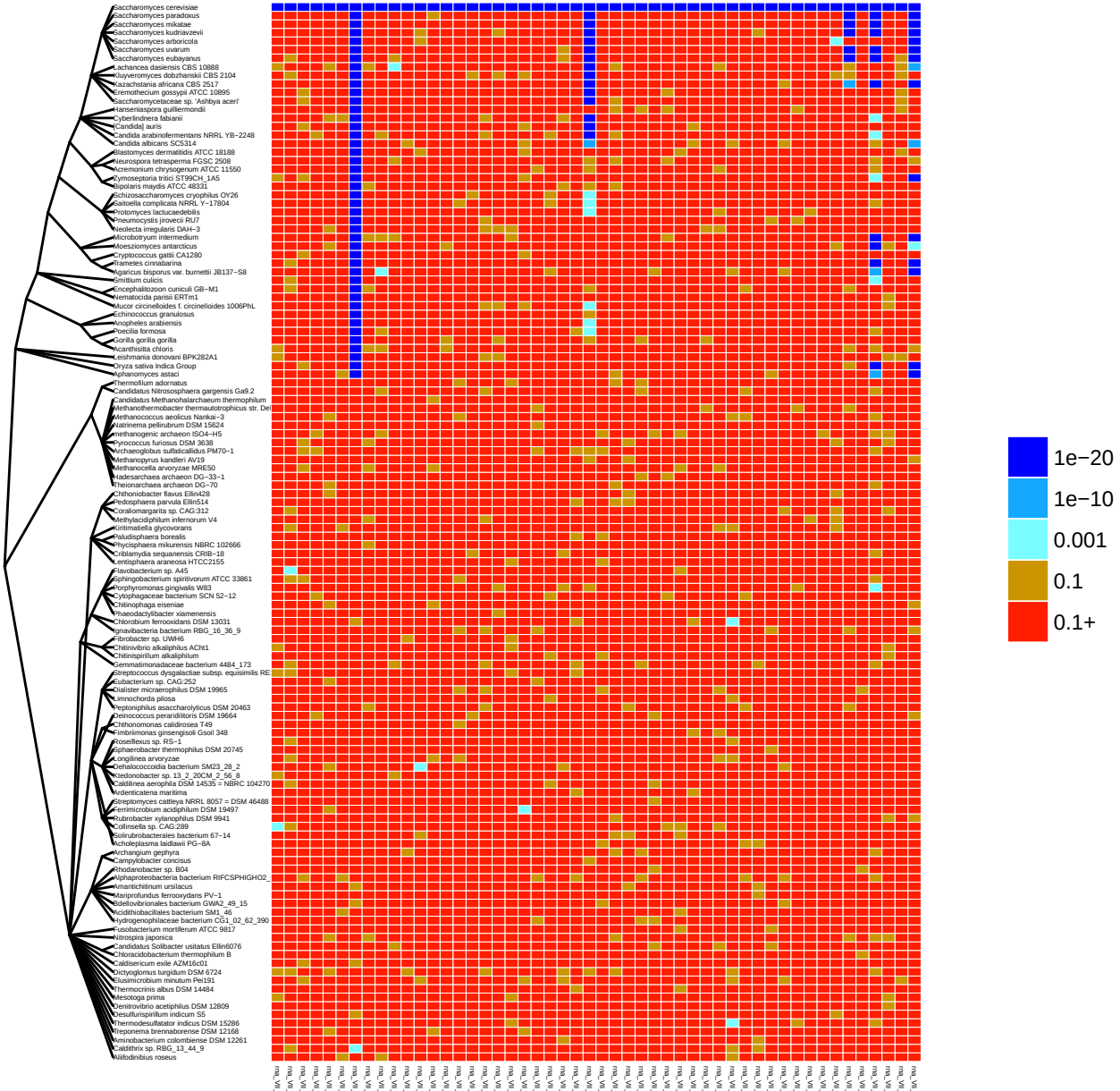

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_VR_1088
ma_VR_1089
ma_VR_1090
ma_VR_1091
ma_VR_1092
ma_VR_1094
ma_VR_1095
ma_VR_1096
ma_VR_1097
ma_VR_1098
ma_VR_11
ma_VR_110
ma_VR_1100
ma_VR_1102
ma_VR_1103
ma_VR_1104
ma_VR_1105
ma_VR_1107
ma_VR_1108
ma_VR_1109
ma_VR_111
ma_VR_1110
ma_VR_1111
ma_VR_1112
ma_VR_1115
ma_VR_1116
ma_VR_1118
ma_VR_1119
ma_VR_112
ma_VR_1120
ma_VR_1126
ma_VR_1127
ma_VR_1129
ma_VR_1136
ma_VR_1137
ma_VR_1140
ma_VR_1142
ma_VR_1144
ma_VR_1145
ma_VR_1147
ma_VR_1148
ma_VR_1149
ma_VR_1150
ma_VR_1153
ma_VR_1155
ma_VR_1156
ma_VR_1158
ma_VR_1159
ma_VR_1160
1e−20
1e−10
0.001
0.1
0.1+

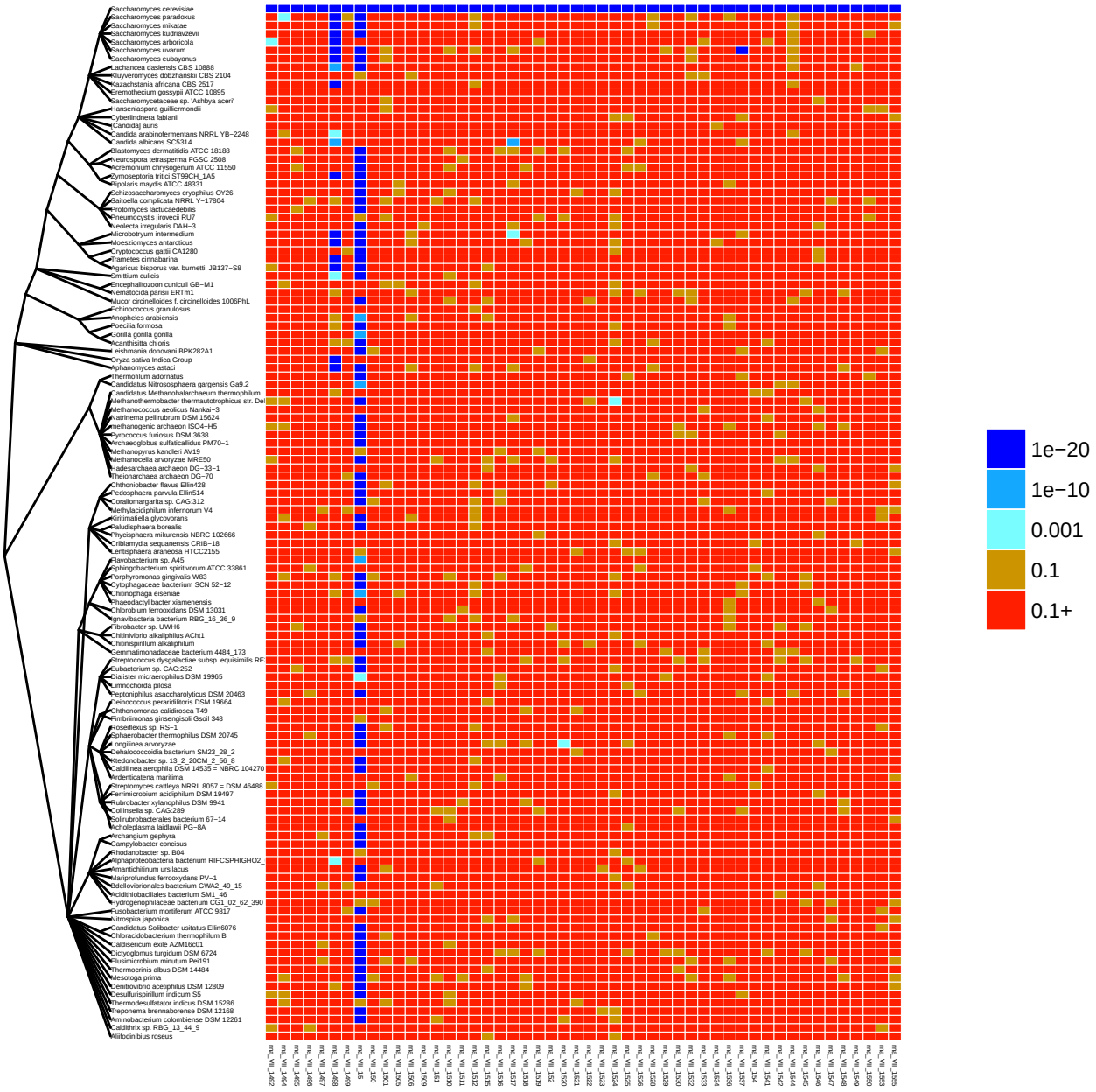

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancibinibius roseus
ma_VR_1161
ma_VR_1162
ma_VR_1163
ma_VR_1164
ma_VR_1165
ma_VR_1168
ma_VR_1169
ma_VR_1170
ma_VR_1171
ma_VR_1173
ma_VR_1174
ma_VR_1175
ma_VR_1176
ma_VR_1179
ma_VR_1181
ma_VR_1182
ma_VR_1183
ma_VR_1184
ma_VR_1185
ma_VR_1186
ma_VR_1187
ma_VR_119
ma_VR_1190
ma_VR_1194
ma_VR_1195
ma_VR_1196
ma_VR_1199
ma_VR_12
ma_VR_1200
ma_VR_1203
ma_VR_1205
ma_VR_1206
ma_VR_1207
ma_VR_1209
ma_VR_121
ma_VR_1210
ma_VR_1211
ma_VR_1215
ma_VR_1216
ma_VR_1217
ma_VR_1218
ma_VR_1220
ma_VR_1221
ma_VR_1223
ma_VR_1225
ma_VR_1227
ma_VR_123
ma_VR_1230
ma_VR_1232
ma_VR_1235
1e−20
1e−10
0.001
0.1
0.1+

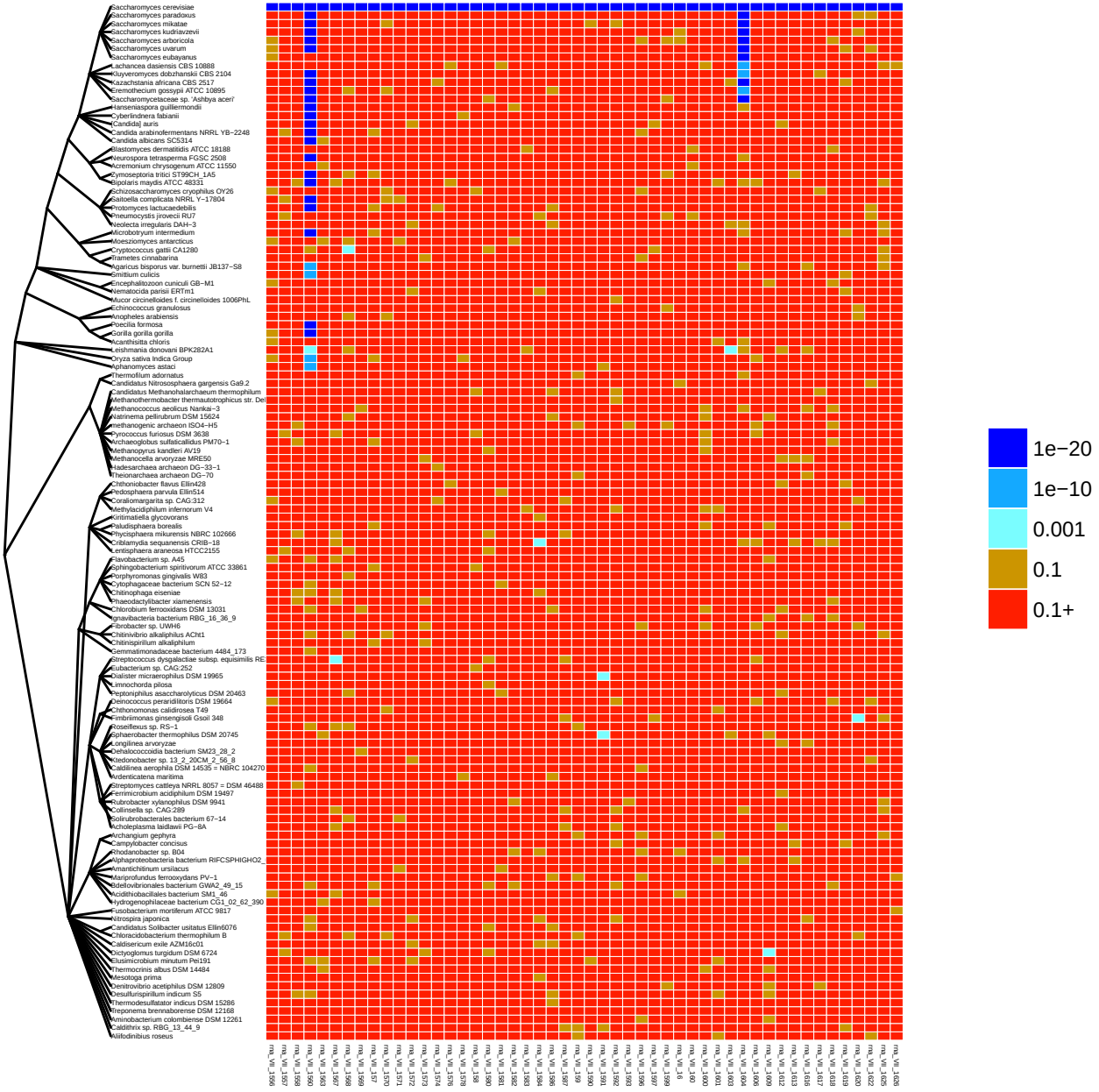

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_VR_1238
ma_VR_1239
ma_VR_1240
ma_VR_1243
ma_VR_1244
ma_VR_1245
ma_VR_1246
ma_VR_1247
ma_VR_125
ma_VR_1252
ma_VR_1253
ma_VR_1254
ma_VR_1255
ma_VR_1256
ma_VR_1257
ma_VR_1258
ma_VR_1259
ma_VR_126
ma_VR_1260
ma_VR_1262
ma_VR_1263
ma_VR_1264
ma_VR_1265
ma_VR_1266
ma_VR_1267
ma_VR_1268
ma_VR_1269
ma_VR_127
ma_VR_1270
ma_VR_1271
ma_VR_1272
ma_VR_1273
ma_VR_1274
ma_VR_1275
ma_VR_1276
ma_VR_1277
ma_VR_1278
ma_VR_1279
ma_VR_128
ma_VR_1281
ma_VR_1283
ma_VR_1285
ma_VR_1286
ma_VR_1287
ma_VR_1288
ma_VR_1289
ma_VR_129
ma_VR_1291
ma_VR_1294
ma_VR_1296
ma_VR_130
1e−20
1e−10
0.001
0.1
0.1+

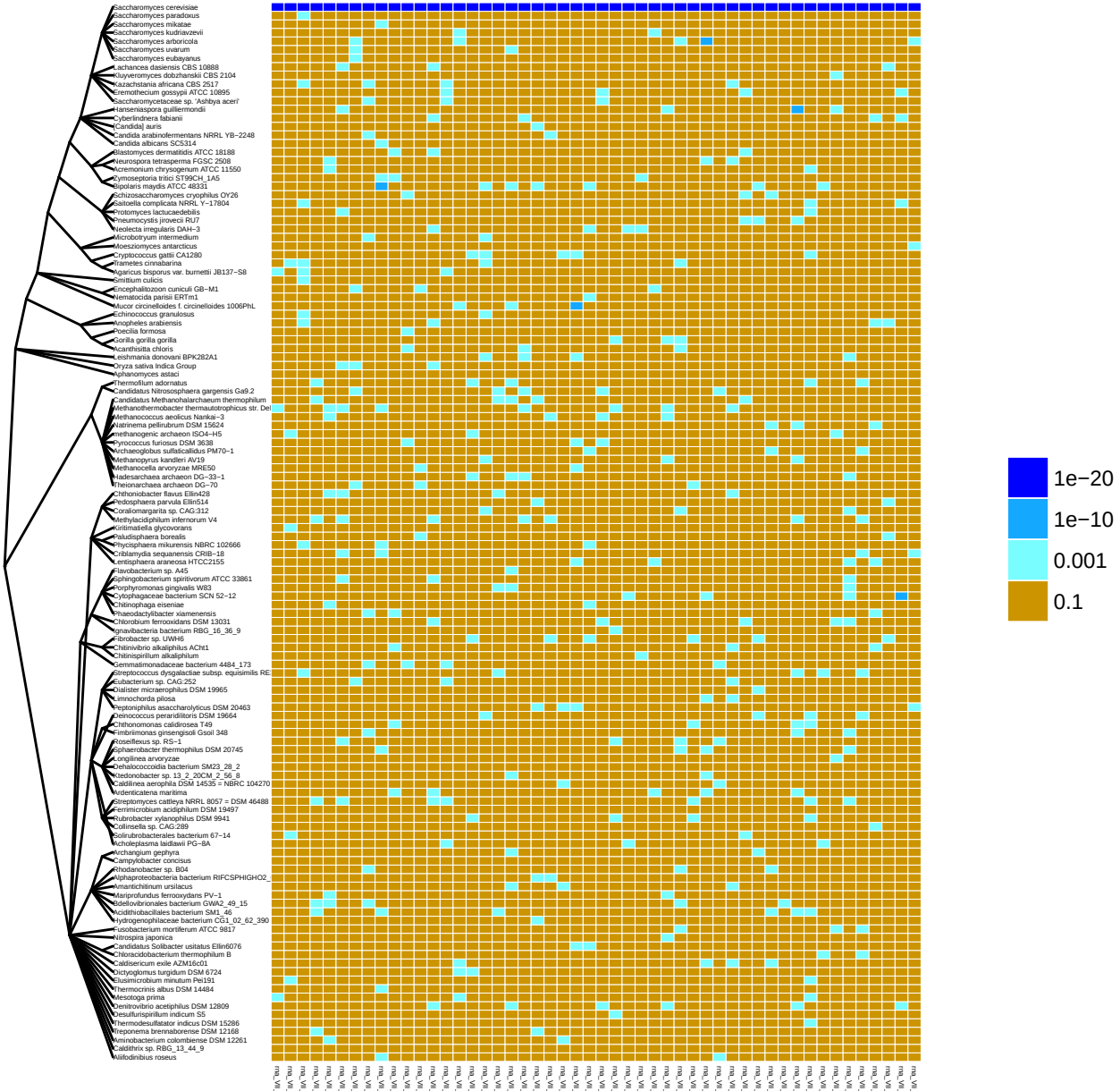

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Candidatus Korarchaeum cryptofilum OPA67
Candidatus Caldiarchaeum subterranum
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosopumilus koreensis AR1
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosopumilus sp. AR2
Candidatus Nitrosopumilus sp. T1−7
Candidatus Nitrosopumilus sp. U25
Candidatus Nitrosopumilus sp. U27
Candidatus Nitrosopumilus sp. U34
Candidatus Nitrosopumilus sp. U35
Candidatus Nitrosopumilus sp. U38
Candidatus Nitrosopumilus sp. U39
Candidatus Nitrosopumilus sp. U40
Candidatus Nitrosopumilus sp. U41
Candidatus Nitrosopumilus sp. U43
Candidatus Nitrosopumilus sp. U44
Candidatus Nitrosopumilus sp. U47
Candidatus Nitrosopumilus sp. U49
Candidatus Nitrosopumilus sp. U50
Candidatus Nitrosopumilus sp. U51
Candidatus Nitrosopumilus sp. U53
Candidatus Nitrosopumilus sp. U55
Candidatus Nitrosopumilus sp. U56
Candidatus Nitrosopumilus sp. U57
Candidatus Nitrosopumilus sp. U60
Candidatus Nitrosopumilus sp. U61
1e−20
1e−10
0.001
0.1

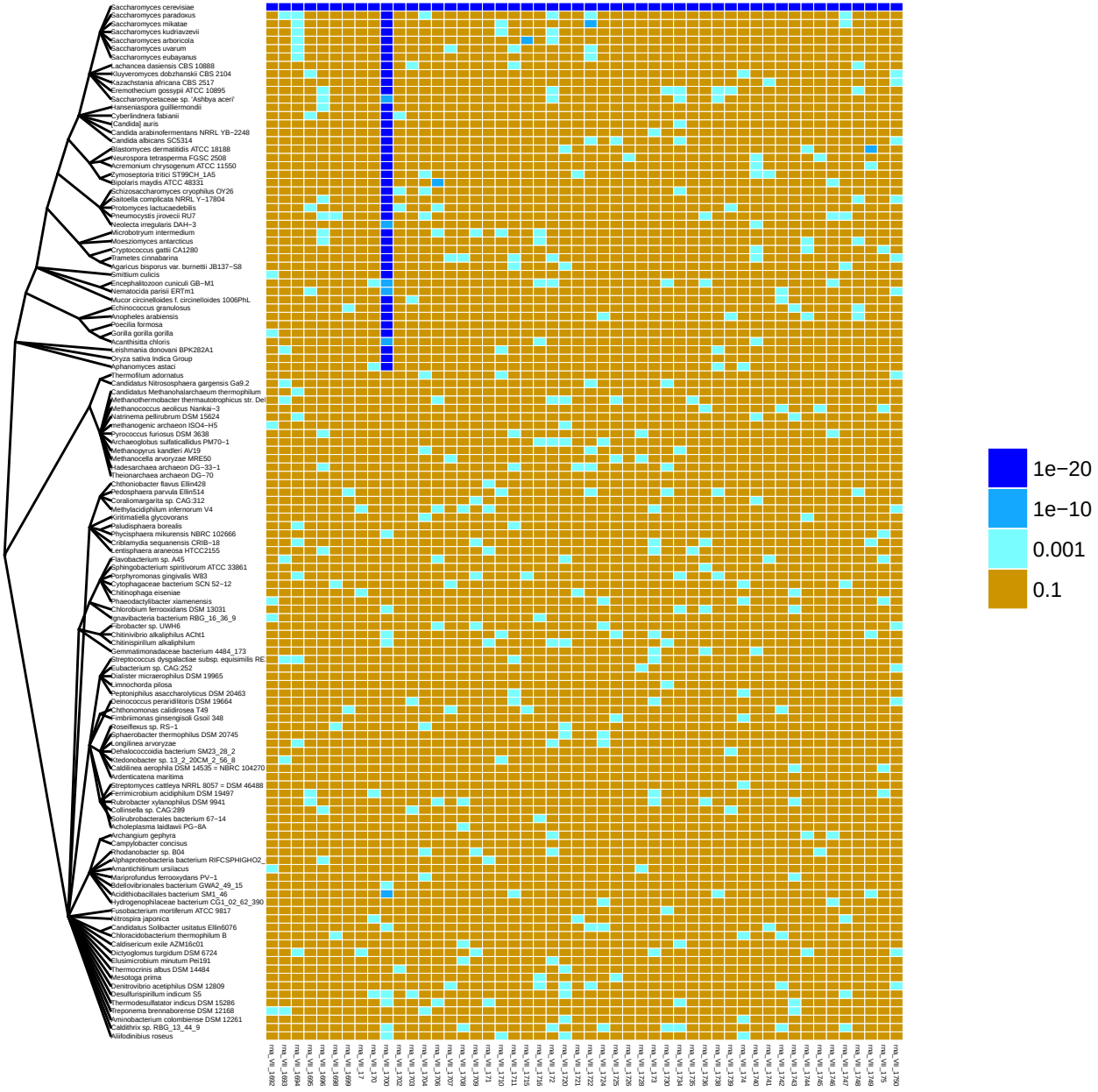

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_VR_1362
ma_VR_1363
ma_VR_1364
ma_VR_1365
ma_VR_1366
ma_VR_1368
ma_VR_1369
ma_VR_137
ma_VR_1370
ma_VR_1373
ma_VR_1374
ma_VR_1376
ma_VR_1377
ma_VR_1378
ma_VR_1379
ma_VR_138
ma_VR_1380
ma_VR_1381
ma_VR_1382
ma_VR_1384
ma_VR_1385
ma_VR_1386
ma_VR_1387
ma_VR_1389
ma_VR_139
ma_VR_1390
ma_VR_1391
ma_VR_1392
ma_VR_1393
ma_VR_1394
ma_VR_1395
ma_VR_1396
ma_VR_1397
ma_VR_1398
ma_VR_1399
ma_VR_14
ma_VR_1400
ma_VR_1401
ma_VR_1402
ma_VR_1403
ma_VR_1404
ma_VR_1405
ma_VR_1406
ma_VR_1407
ma_VR_1408
ma_VR_1409
ma_VR_141
ma_VR_1410
ma_VR_1411
ma_VR_1412
1e−20
1e−10
0.001
0.1
0.1+

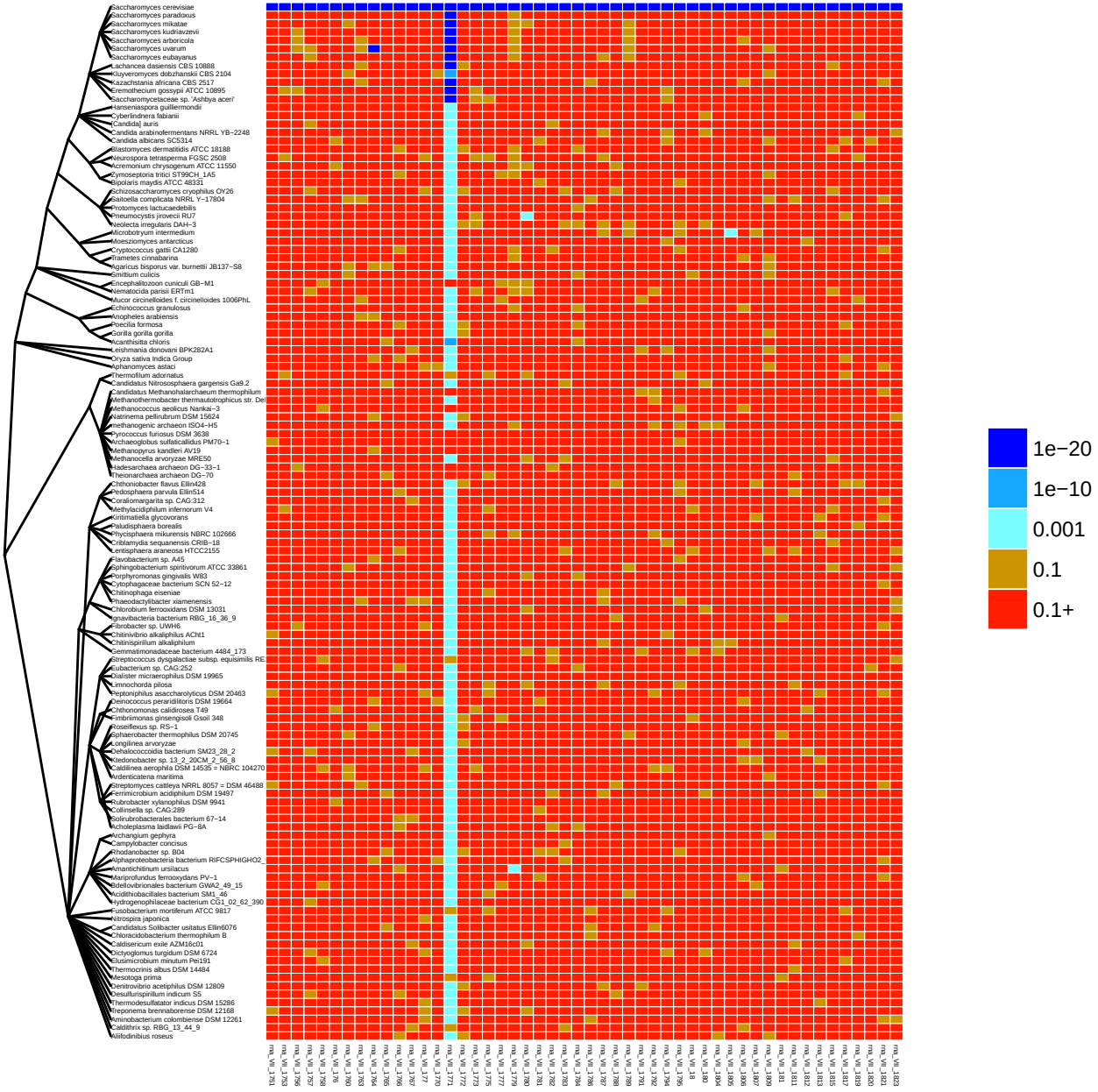

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetus roseus
ma_VK_1413
ma_VK_1417
ma_VK_1422
ma_VK_1423
ma_VK_1424
ma_VK_1425
ma_VK_143
ma_VK_1431
ma_VK_1433
ma_VK_1435
ma_VK_1436
ma_VK_1437
ma_VK_1438
ma_VK_1445
ma_VK_1446
ma_VK_1448
ma_VK_1450
ma_VK_1453
ma_VK_1454
ma_VK_1455
ma_VK_1456
ma_VK_1457
ma_VK_1458
ma_VK_1459
ma_VK_146
ma_VK_1461
ma_VK_1462
ma_VK_1463
ma_VK_1464
ma_VK_1465
ma_VK_1466
ma_VK_1467
ma_VK_1468
ma_VK_147
ma_VK_1470
ma_VK_1472
ma_VK_1474
ma_VK_1478
ma_VK_148
ma_VK_1480
ma_VK_1481
ma_VK_1483
ma_VK_1484
ma_VK_1485
ma_VK_1486
ma_VK_1487
ma_VK_1488
ma_VK_1489
ma_VK_149
ma_VK_1490
ma_VK_1491
1e−20
1e−10
0.001
0.1
0.1+

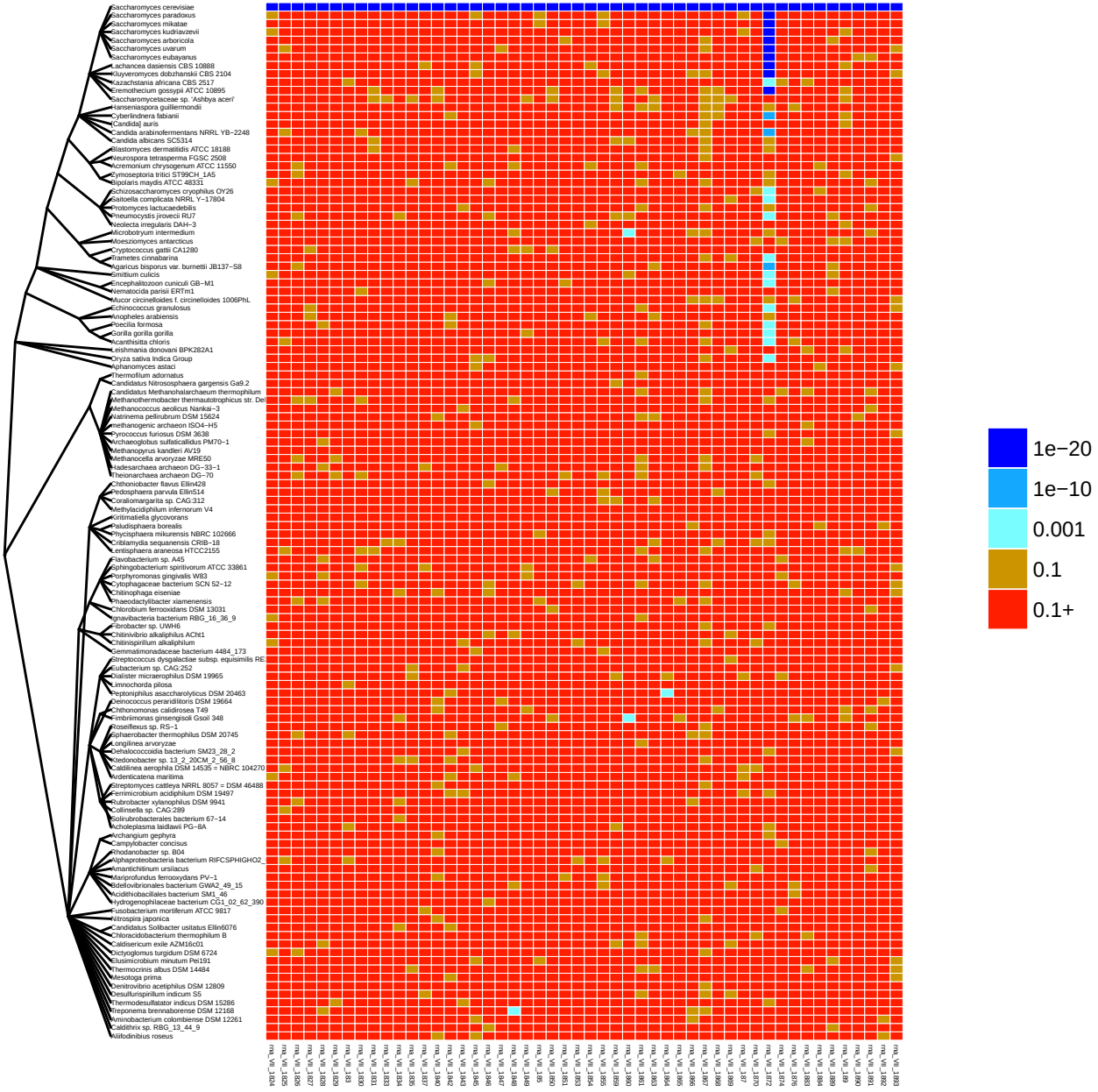

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_VR_1482
ma_VR_1484
ma_VR_1495
ma_VR_1496
ma_VR_1497
ma_VR_1498
ma_VR_1499
ma_VR_15
ma_VR_150
ma_VR_1501
ma_VR_1505
ma_VR_1506
ma_VR_1509
ma_VR_151
ma_VR_1510
ma_VR_1511
ma_VR_1512
ma_VR_1515
ma_VR_1516
ma_VR_1517
ma_VR_1518
ma_VR_1519
ma_VR_152
ma_VR_1520
ma_VR_1521
ma_VR_1522
ma_VR_1523
ma_VR_1524
ma_VR_1525
ma_VR_1526
ma_VR_1528
ma_VR_1529
ma_VR_1530
ma_VR_1532
ma_VR_1533
ma_VR_1534
ma_VR_1536
ma_VR_1537
ma_VR_154
ma_VR_1541
ma_VR_1542
ma_VR_1544
ma_VR_1545
ma_VR_1546
ma_VR_1547
ma_VR_1548
ma_VR_1549
ma_VR_1550
ma_VR_1553
ma_VR_1555
1e−20
1e−10
0.001
0.1
0.1+

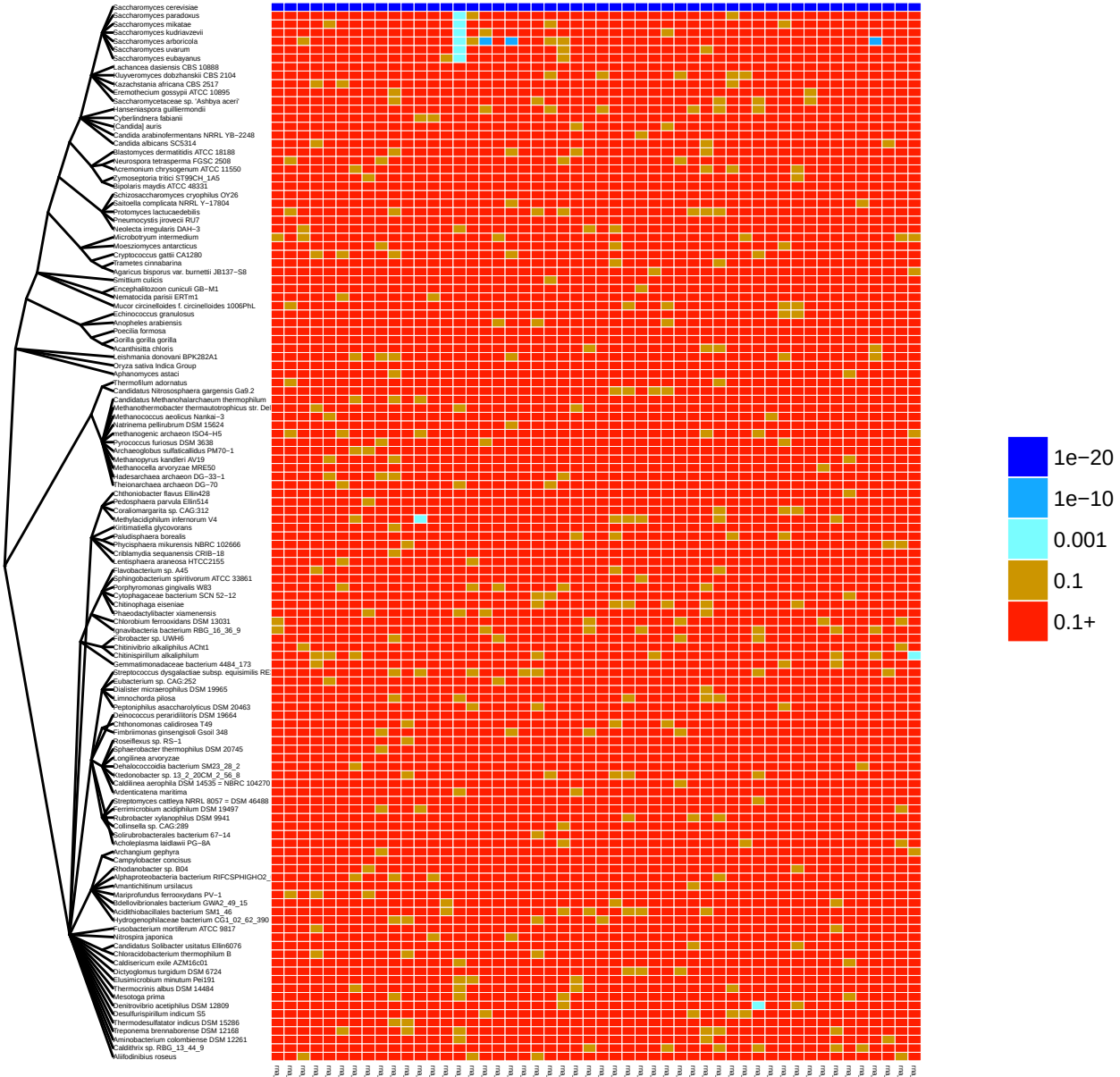

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_VR_1566
ma_VR_1567
ma_VR_1568
ma_VR_1569
ma_VR_1560
ma_VR_1563
ma_VR_1567
ma_VR_1568
ma_VR_1569
ma_VR_157
ma_VR_1570
ma_VR_1571
ma_VR_1572
ma_VR_1573
ma_VR_1574
ma_VR_1576
ma_VR_1578
ma_VR_158
ma_VR_1580
ma_VR_1581
ma_VR_1582
ma_VR_1583
ma_VR_1584
ma_VR_1586
ma_VR_1587
ma_VR_159
ma_VR_1590
ma_VR_1591
ma_VR_1592
ma_VR_1593
ma_VR_1596
ma_VR_1597
ma_VR_1599
ma_VR_16
ma_VR_160
ma_VR_1600
ma_VR_1601
ma_VR_1603
ma_VR_1604
ma_VR_1606
ma_VR_1609
ma_VR_1612
ma_VR_1613
ma_VR_1616
ma_VR_1617
ma_VR_1618
ma_VR_1619
ma_VR_1620
ma_VR_1622
ma_VR_1625
ma_VR_1626
1e−20
1e−10
0.001
0.1
0.1+

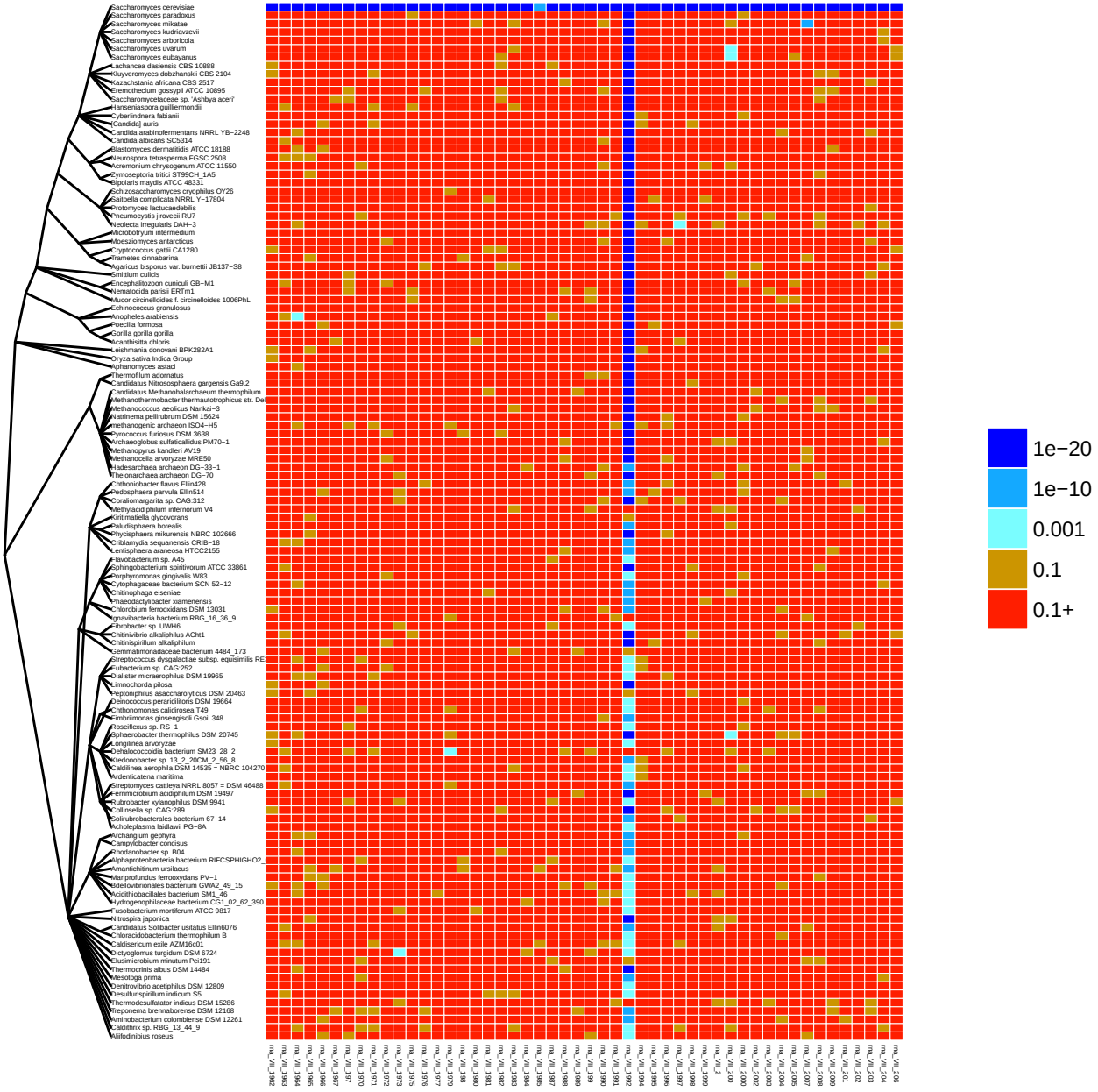

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_VR_1627
ma_VR_1628
ma_VR_1633
ma_VR_1634
ma_VR_1636
ma_VR_1637
ma_VR_1638
ma_VR_1639
ma_VR_1640
ma_VR_1641
ma_VR_1643
ma_VR_1644
ma_VR_1645
ma_VR_1646
ma_VR_1647
ma_VR_1649
ma_VR_165
ma_VR_1650
ma_VR_1651
ma_VR_1652
ma_VR_1655
ma_VR_1656
ma_VR_1657
ma_VR_1658
ma_VR_1659
ma_VR_166
ma_VR_1660
ma_VR_1662
ma_VR_1663
ma_VR_1664
ma_VR_1665
ma_VR_1666
ma_VR_1667
ma_VR_1668
ma_VR_1669
ma_VR_167
ma_VR_1671
ma_VR_1672
ma_VR_1673
ma_VR_1674
ma_VR_1675
ma_VR_1679
ma_VR_168
ma_VR_1680
ma_VR_1681
ma_VR_1683
ma_VR_1684
ma_VR_1685
ma_VR_1690
ma_VR_1691
1e−20
1e−10
0.001
0.1

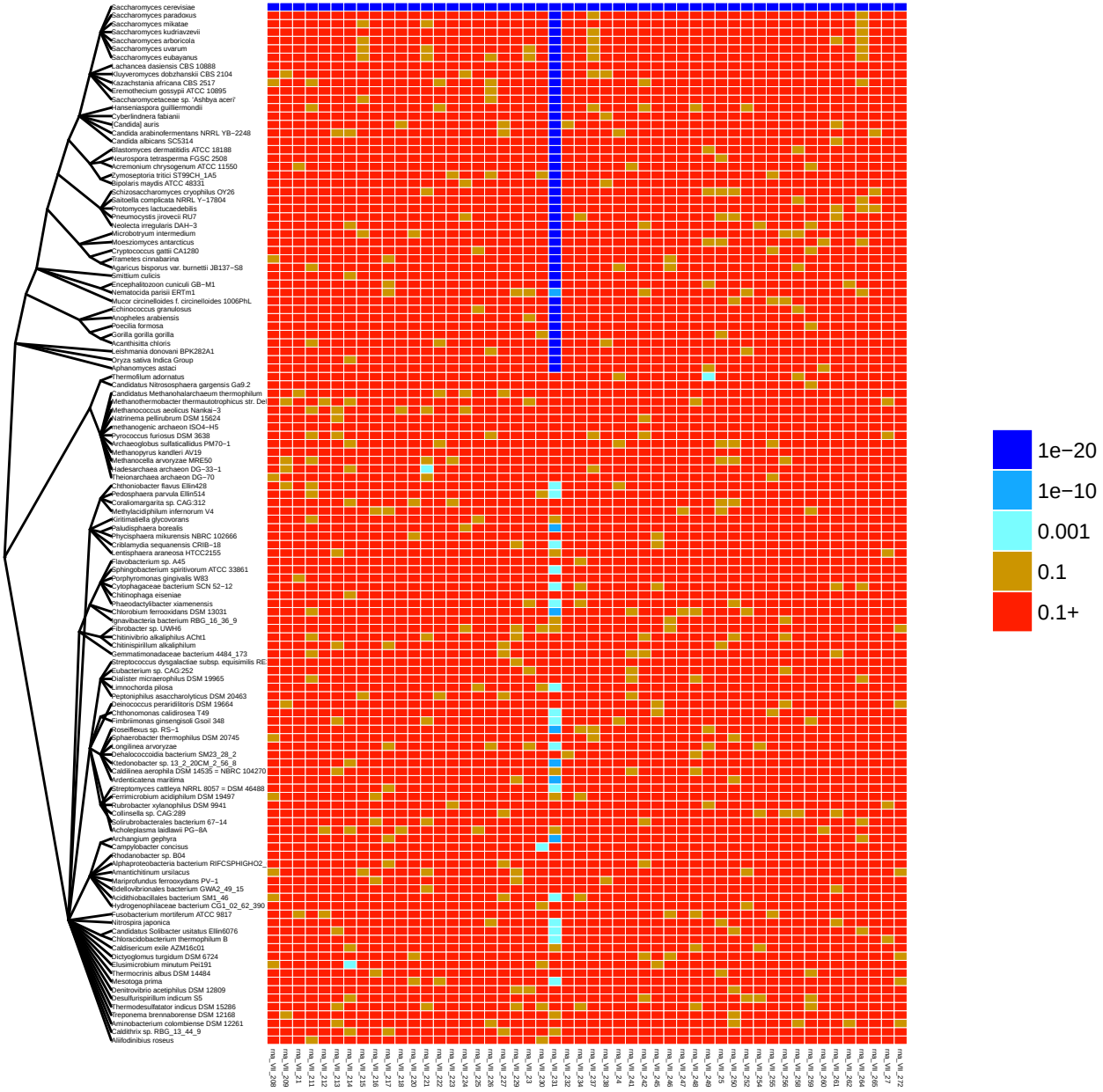

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_VR_1682
ma_VR_1683
ma_VR_1684
ma_VR_1685
ma_VR_1686
ma_VR_1688
ma_VR_1689
ma_VR_17
ma_VR_170
ma_VR_1700
ma_VR_1702
ma_VR_1703
ma_VR_1704
ma_VR_1706
ma_VR_1707
ma_VR_1708
ma_VR_1709
ma_VR_171
ma_VR_1710
ma_VR_1711
ma_VR_1715
ma_VR_1716
ma_VR_1720
ma_VR_1721
ma_VR_1722
ma_VR_1724
ma_VR_1725
ma_VR_1726
ma_VR_1728
ma_VR_173
ma_VR_1730
ma_VR_1734
ma_VR_1735
ma_VR_1736
ma_VR_1738
ma_VR_1739
ma_VR_174
ma_VR_1740
ma_VR_1741
ma_VR_1742
ma_VR_1743
ma_VR_1744
ma_VR_1745
ma_VR_1746
ma_VR_1747
ma_VR_1748
ma_VR_1749
ma_VR_175
ma_VR_1750
1e−20
1e−10
0.001
0.1

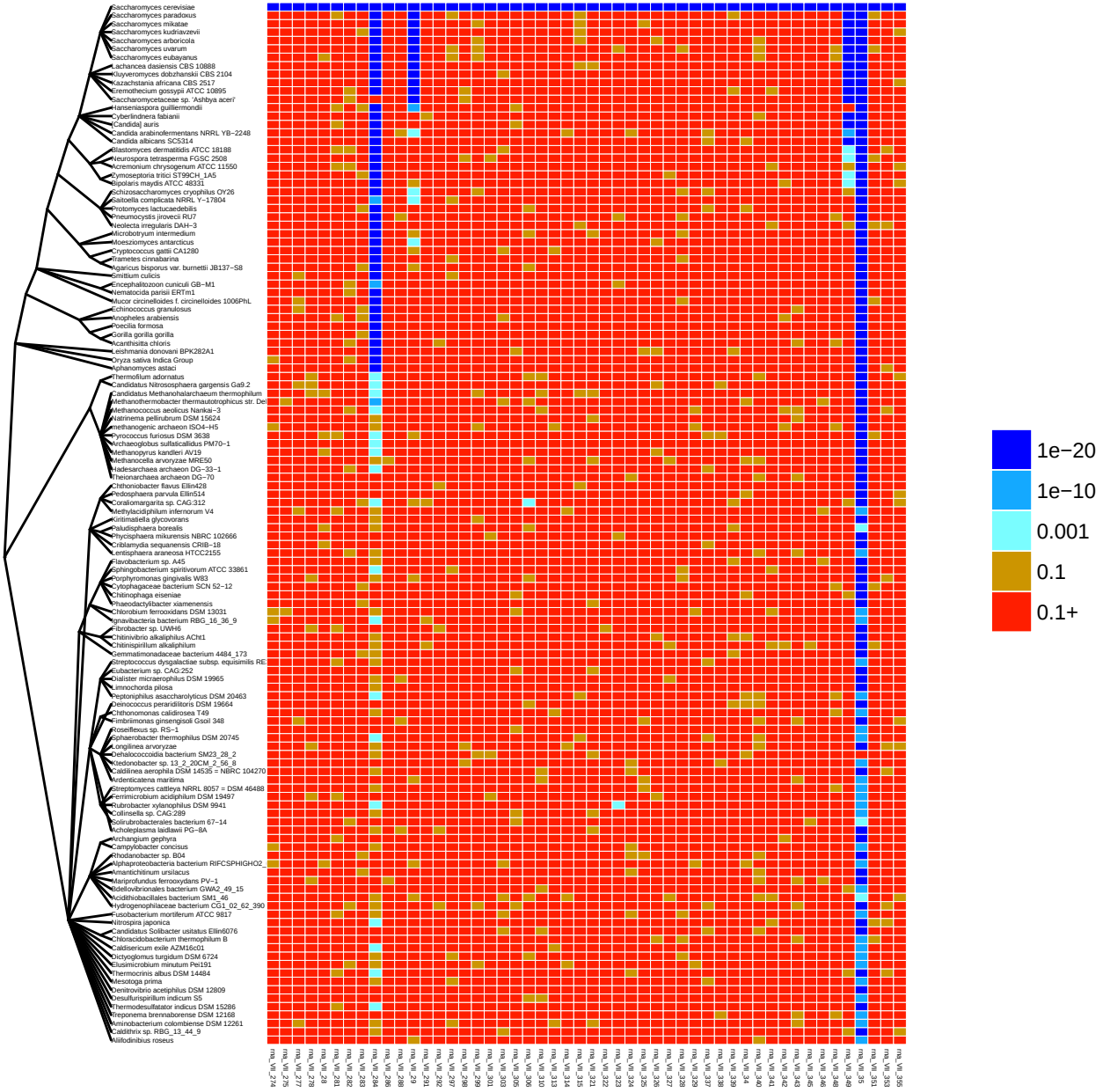

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_VK_1751
ma_VK_1753
ma_VK_1756
ma_VK_1757
ma_VK_1758
ma_VK_176
ma_VK_1760
ma_VK_1763
ma_VK_1764
ma_VK_1765
ma_VK_1766
ma_VK_1767
ma_VK_177
ma_VK_1770
ma_VK_1771
ma_VK_1772
ma_VK_1773
ma_VK_1775
ma_VK_1777
ma_VK_1779
ma_VK_1780
ma_VK_1781
ma_VK_1782
ma_VK_1783
ma_VK_1784
ma_VK_1786
ma_VK_1787
ma_VK_1788
ma_VK_1789
ma_VK_1791
ma_VK_1792
ma_VK_1794
ma_VK_1795
ma_VK_18
ma_VK_180
ma_VK_1804
ma_VK_1805
ma_VK_1806
ma_VK_1807
ma_VK_1809
ma_VK_181
ma_VK_1811
ma_VK_1812
ma_VK_1813
ma_VK_1815
ma_VK_1817
ma_VK_1819
ma_VK_1820
ma_VK_1821
ma_VK_1823
1e−20
1e−10
0.001
0.1
0.1+

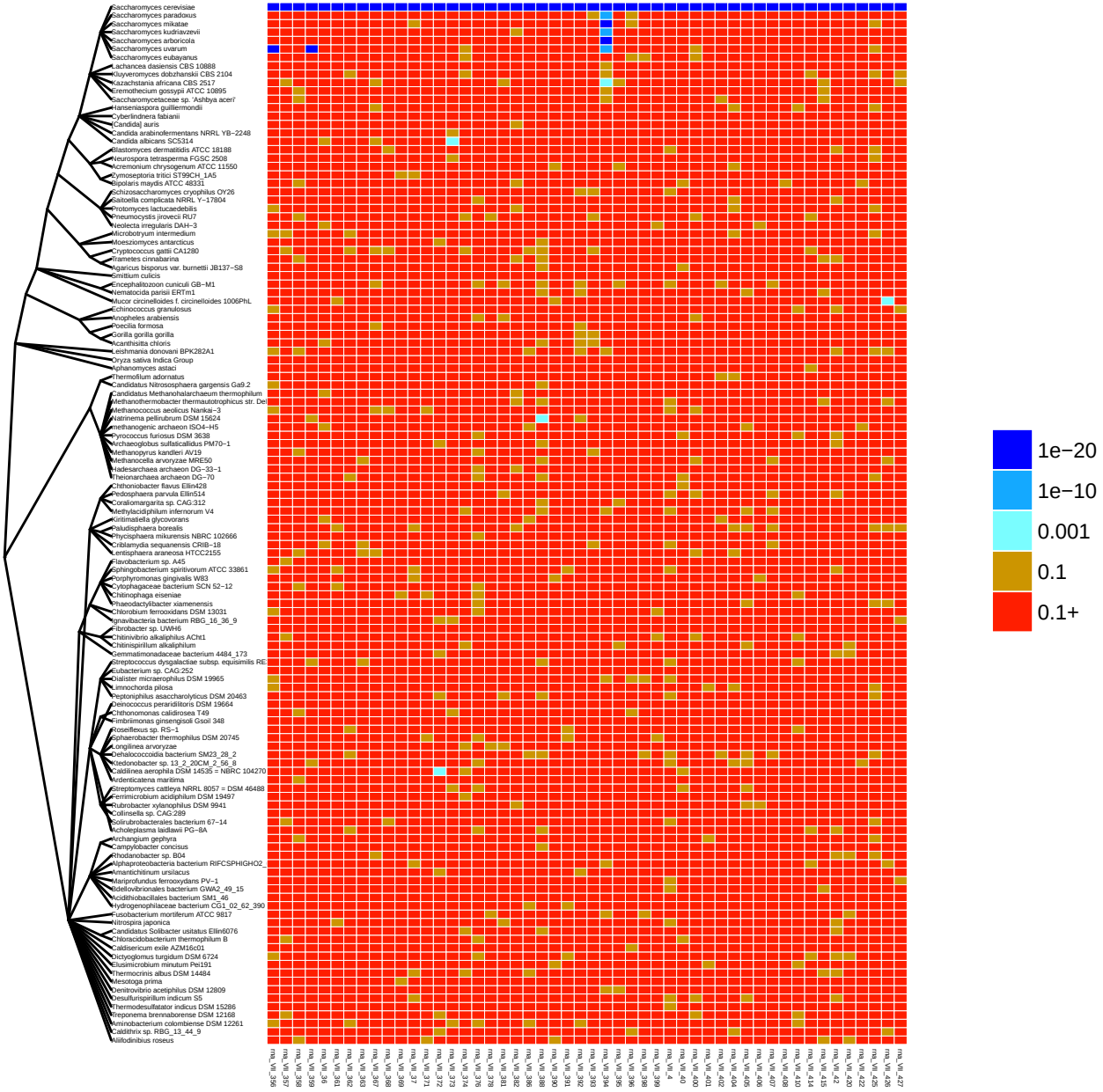

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszómycetes antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

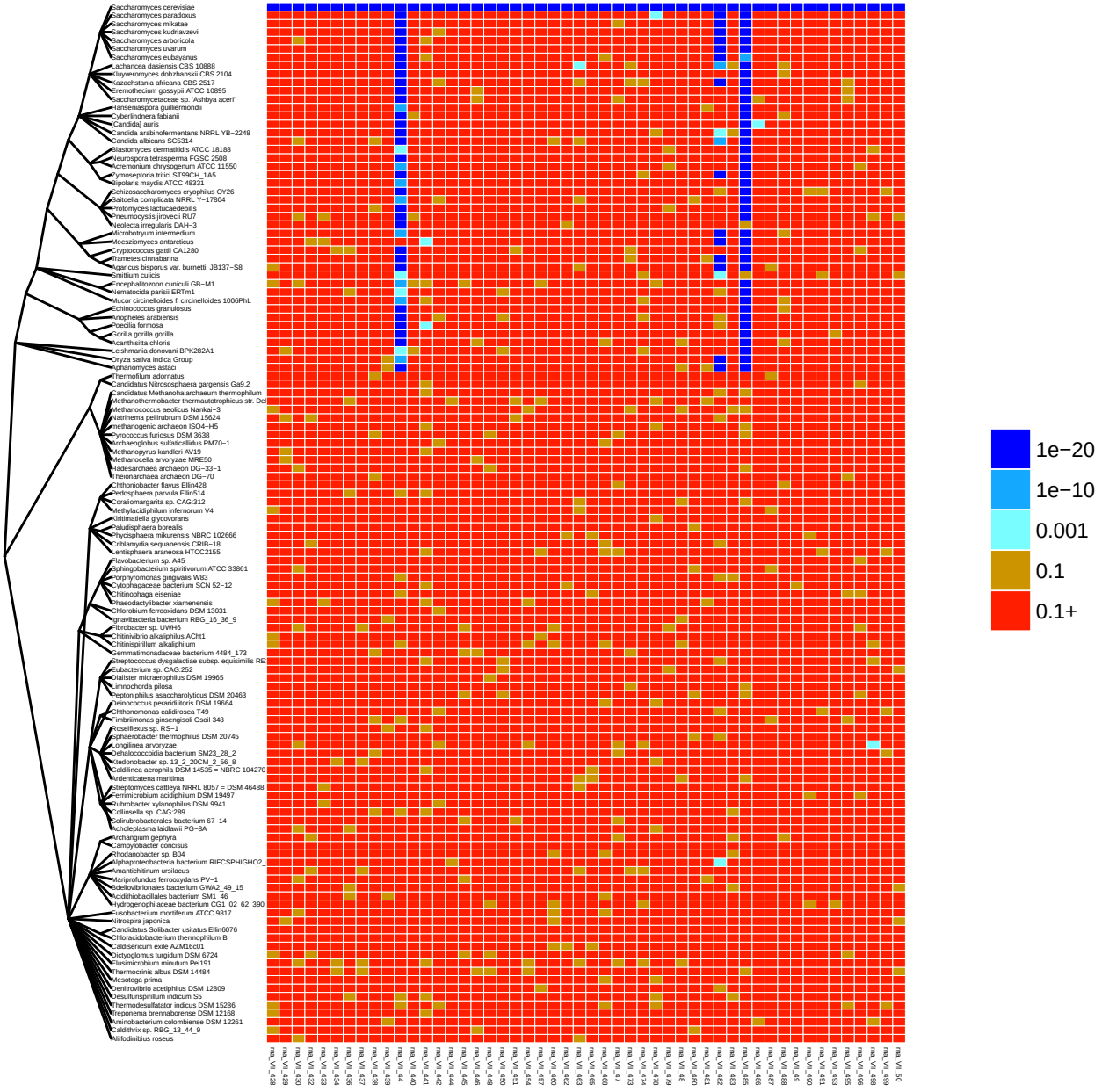

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_VI_1894
ma_VI_1895
ma_VI_1896
ma_VI_1897
ma_VI_1898
ma_VI_1899
ma_VI_19
ma_VI_1900
ma_VI_1901
ma_VI_1902
ma_VI_1903
ma_VI_1904
ma_VI_1905
ma_VI_1908
ma_VI_1910
ma_VI_1911
ma_VI_1912
ma_VI_1914
ma_VI_1917
ma_VI_1918
ma_VI_1919
ma_VI_1920
ma_VI_1922
ma_VI_1923
ma_VI_1925
ma_VI_1926
ma_VI_1927
ma_VI_1928
ma_VI_1931
ma_VI_1932
ma_VI_1937
ma_VI_1941
ma_VI_1942
ma_VI_1943
ma_VI_1944
ma_VI_1945
ma_VI_1946
ma_VI_1947
ma_VI_1948
ma_VI_1949
ma_VI_195
ma_VI_1950
ma_VI_1951
ma_VI_1952
ma_VI_1953
ma_VI_1954
ma_VI_1955
ma_VI_1957
ma_VI_1960
ma_VI_1961
1e−20
1e−10
0.001
0.1
0.1+

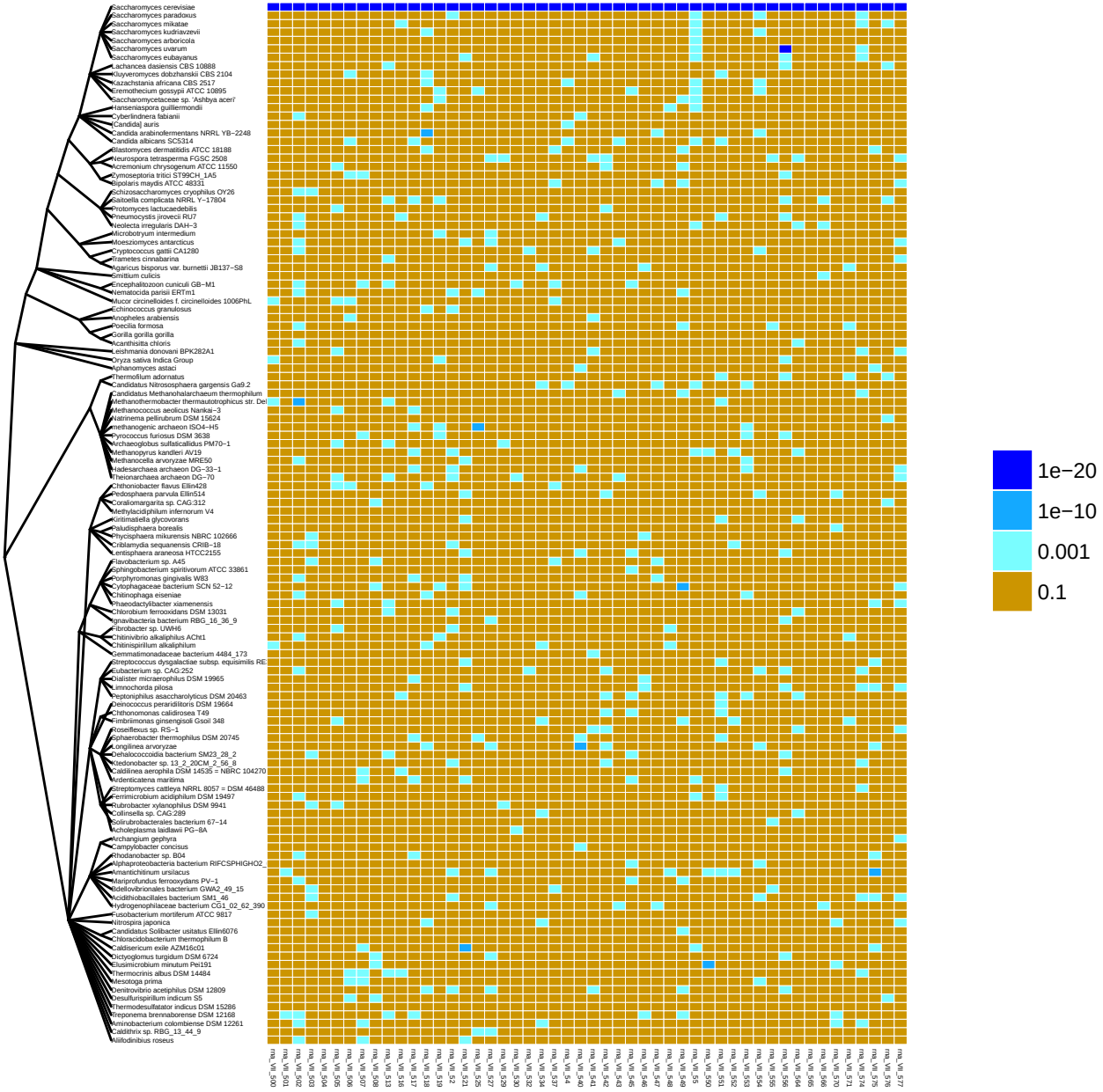

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Methanomassiliicoccus intestinalis Issoria MG−RS−16
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas Acid7b
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Cluster 1.1 sp. Tenr

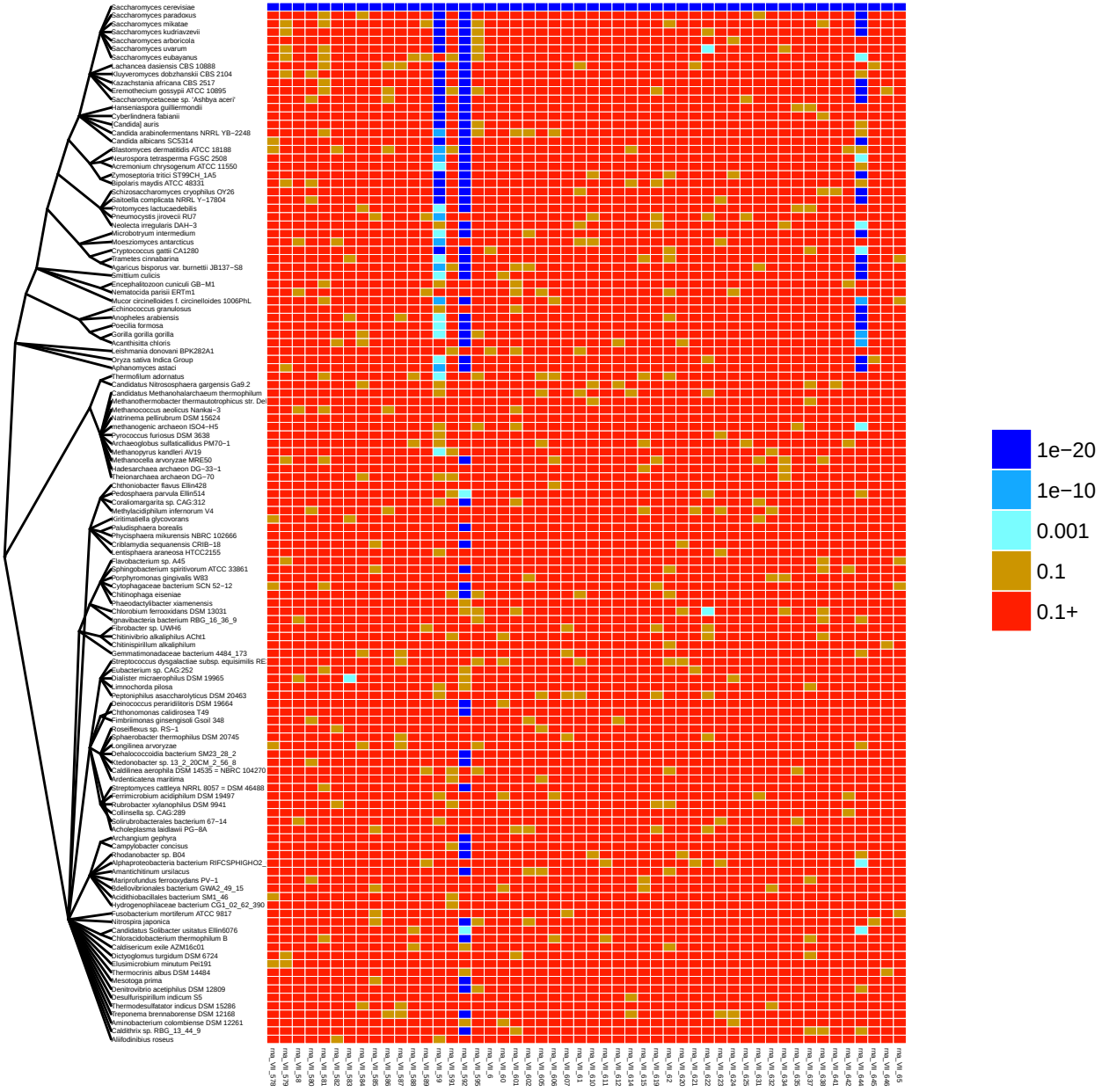

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mk_V6_208
mk_V6_209
mk_V6_21
mk_V6_211
mk_V6_212
mk_V6_213
mk_V6_214
mk_V6_215
mk_V6_216
mk_V6_217
mk_V6_218
mk_V6_220
mk_V6_221
mk_V6_222
mk_V6_223
mk_V6_224
mk_V6_225
mk_V6_226
mk_V6_227
mk_V6_229
mk_V6_23
mk_V6_230
mk_V6_231
mk_V6_232
mk_V6_234
mk_V6_237
mk_V6_238
mk_V6_24
mk_V6_241
mk_V6_242
mk_V6_245
mk_V6_246
mk_V6_247
mk_V6_248
mk_V6_249
mk_V6_25
mk_V6_250
mk_V6_252
mk_V6_254
mk_V6_255
mk_V6_256
mk_V6_258
mk_V6_259
mk_V6_260
mk_V6_261
mk_V6_262
mk_V6_264
mk_V6_265
mk_V6_27
mk_V6_272
1e−20
1e−10
0.001
0.1
0.1+

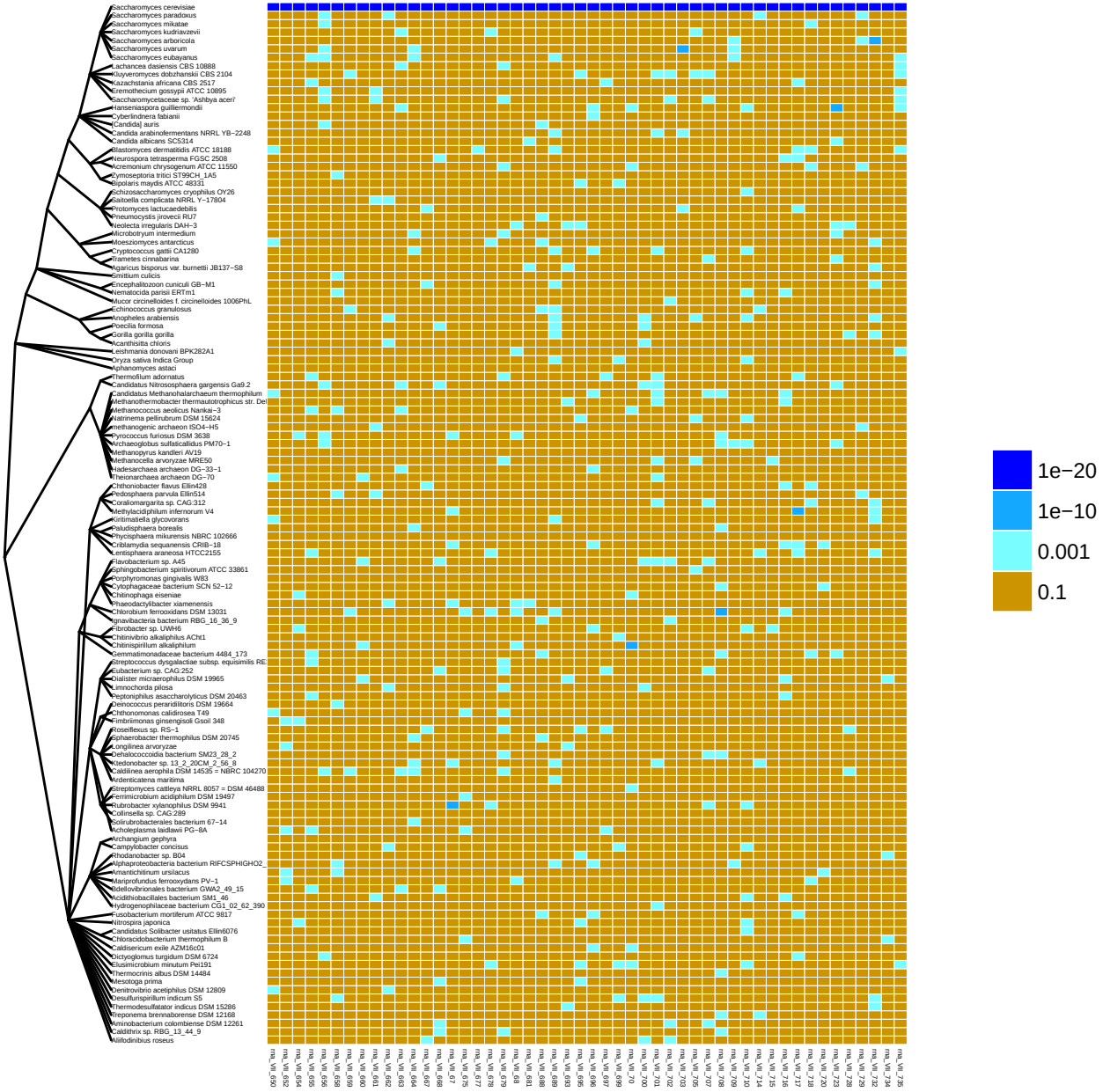

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_VR_274
ma_VR_275
ma_VR_277
ma_VR_278
ma_VR_281
ma_VR_282
ma_VR_283
ma_VR_284
ma_VR_286
ma_VR_288
ma_VR_29
ma_VR_291
ma_VR_292
ma_VR_297
ma_VR_298
ma_VR_299
ma_VR_301
ma_VR_303
ma_VR_305
ma_VR_306
ma_VR_310
ma_VR_313
ma_VR_314
ma_VR_315
ma_VR_321
ma_VR_322
ma_VR_323
ma_VR_324
ma_VR_325
ma_VR_326
ma_VR_327
ma_VR_328
ma_VR_329
ma_VR_337
ma_VR_338
ma_VR_339
ma_VR_34
ma_VR_340
ma_VR_341
ma_VR_342
ma_VR_343
ma_VR_345
ma_VR_346
ma_VR_348
ma_VR_349
ma_VR_35
ma_VR_351
ma_VR_353
ma_VR_385
1e−20
1e−10
0.001
0.1
0.1+

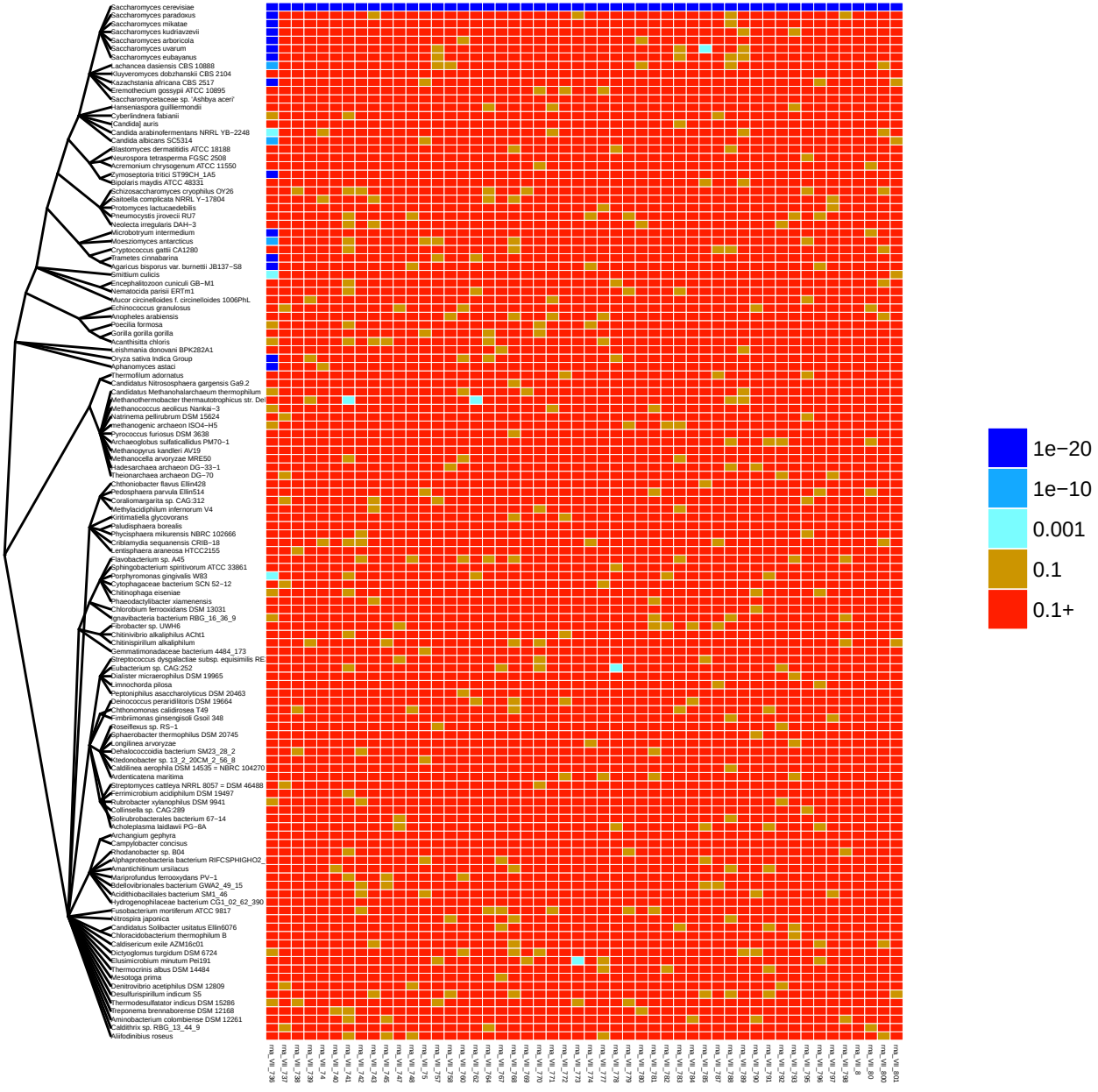

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaboronense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_VR_356
ma_VR_357
ma_VR_358
ma_VR_359
ma_VR_36
ma_VR_361
ma_VR_362
ma_VR_363
ma_VR_367
ma_VR_368
ma_VR_369
ma_VR_37
ma_VR_371
ma_VR_372
ma_VR_373
ma_VR_374
ma_VR_376
ma_VR_378
ma_VR_381
ma_VR_382
ma_VR_386
ma_VR_388
ma_VR_390
ma_VR_391
ma_VR_392
ma_VR_393
ma_VR_394
ma_VR_395
ma_VR_396
ma_VR_398
ma_VR_399
ma_VR_4
ma_VR_40
ma_VR_400
ma_VR_401
ma_VR_402
ma_VR_404
ma_VR_405
ma_VR_406
ma_VR_407
ma_VR_408
ma_VR_410
ma_VR_414
ma_VR_415
ma_VR_42
ma_VR_420
ma_VR_422
ma_VR_425
ma_VR_426
ma_VR_427
1e−20
1e−10
0.001
0.1
0.1+

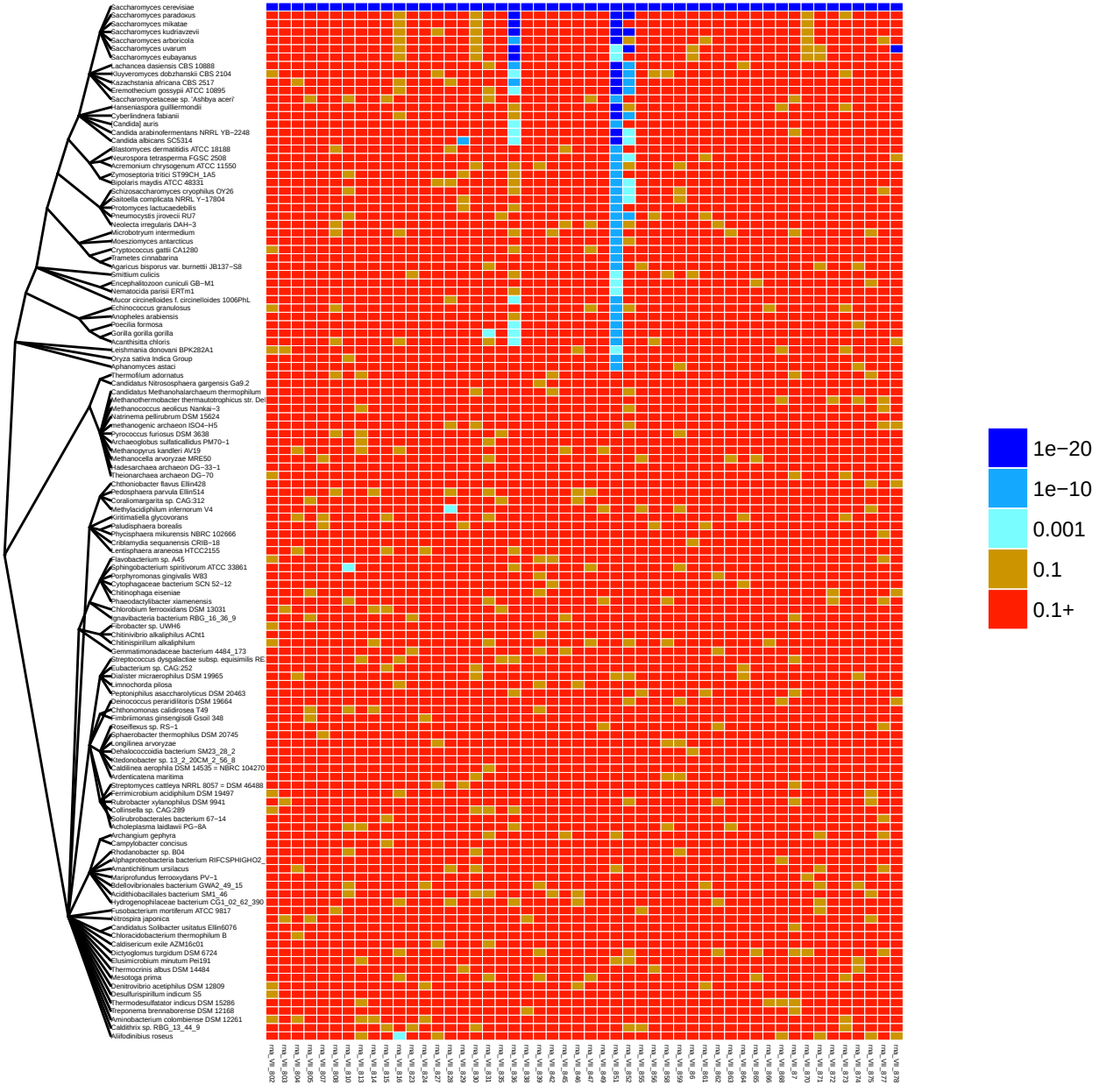

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_VR_428
ma_VR_429
ma_VR_430
ma_VR_432
ma_VR_433
ma_VR_434
ma_VR_436
ma_VR_437
ma_VR_438
ma_VR_439
ma_VR_44
ma_VR_440
ma_VR_441
ma_VR_442
ma_VR_444
ma_VR_445
ma_VR_446
ma_VR_448
ma_VR_450
ma_VR_451
ma_VR_454
ma_VR_457
ma_VR_460
ma_VR_462
ma_VR_463
ma_VR_465
ma_VR_468
ma_VR_47
ma_VR_473
ma_VR_474
ma_VR_478
ma_VR_479
ma_VR_48
ma_VR_480
ma_VR_481
ma_VR_482
ma_VR_483
ma_VR_485
ma_VR_486
ma_VR_487
ma_VR_488
ma_VR_49
ma_VR_490
ma_VR_491
ma_VR_493
ma_VR_495
ma_VR_496
ma_VR_498
ma_VR_499
ma_VR_50
1e−20
1e−10
0.001
0.1
0.1+

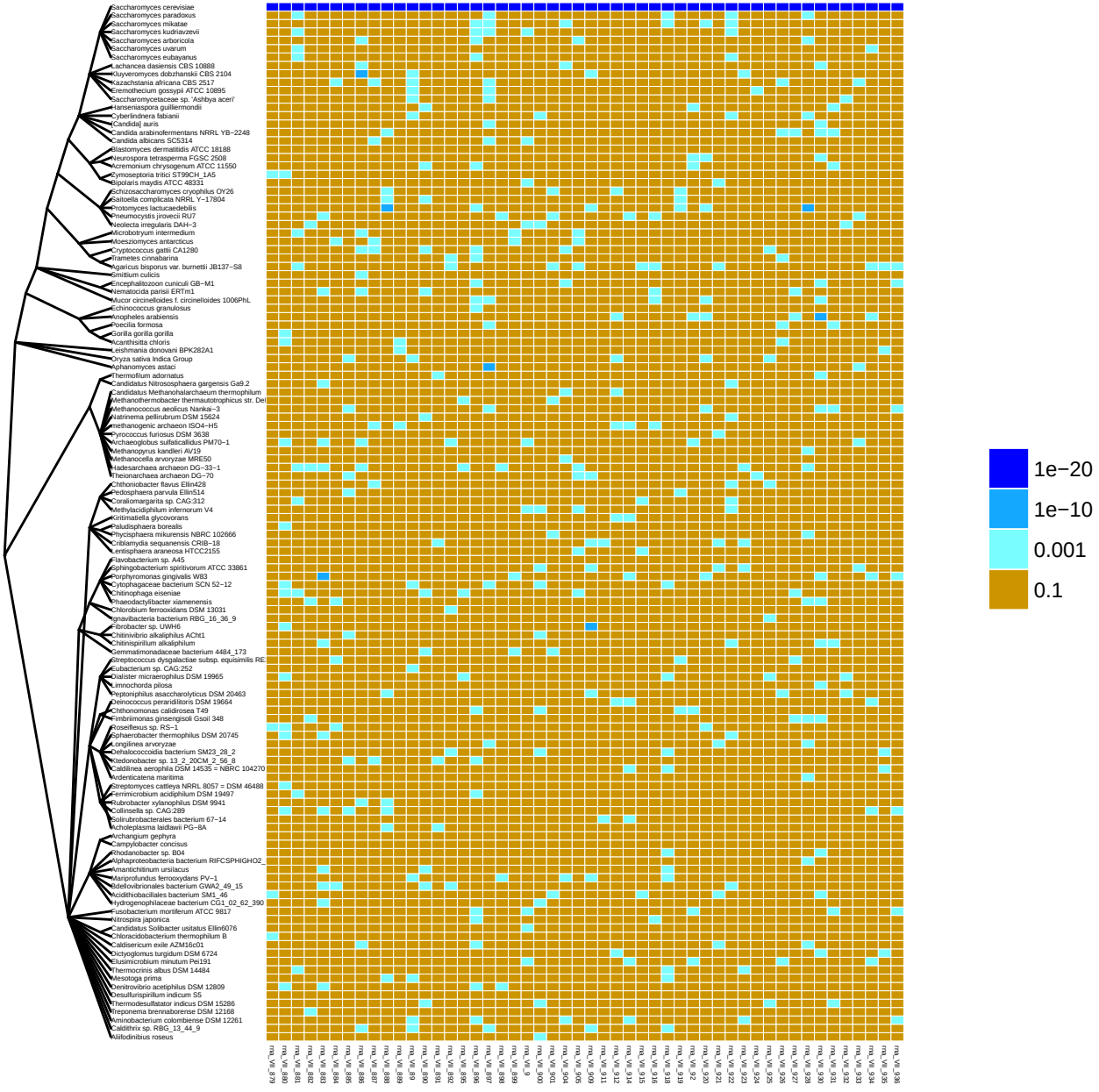

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycsiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_VR_500
ma_VR_501
ma_VR_502
ma_VR_503
ma_VR_504
ma_VR_505
ma_VR_506
ma_VR_507
ma_VR_508
ma_VR_513
ma_VR_516
ma_VR_517
ma_VR_518
ma_VR_519
ma_VR_52
ma_VR_521
ma_VR_525
ma_VR_527
ma_VR_529
ma_VR_530
ma_VR_532
ma_VR_534
ma_VR_537
ma_VR_54
ma_VR_540
ma_VR_541
ma_VR_542
ma_VR_543
ma_VR_545
ma_VR_546
ma_VR_547
ma_VR_548
ma_VR_549
ma_VR_55
ma_VR_550
ma_VR_551
ma_VR_552
ma_VR_553
ma_VR_554
ma_VR_555
ma_VR_556
ma_VR_564
ma_VR_565
ma_VR_566
ma_VR_570
ma_VR_571
ma_VR_574
ma_VR_575
ma_VR_576
ma_VR_577
1e−20
1e−10
0.001
0.1

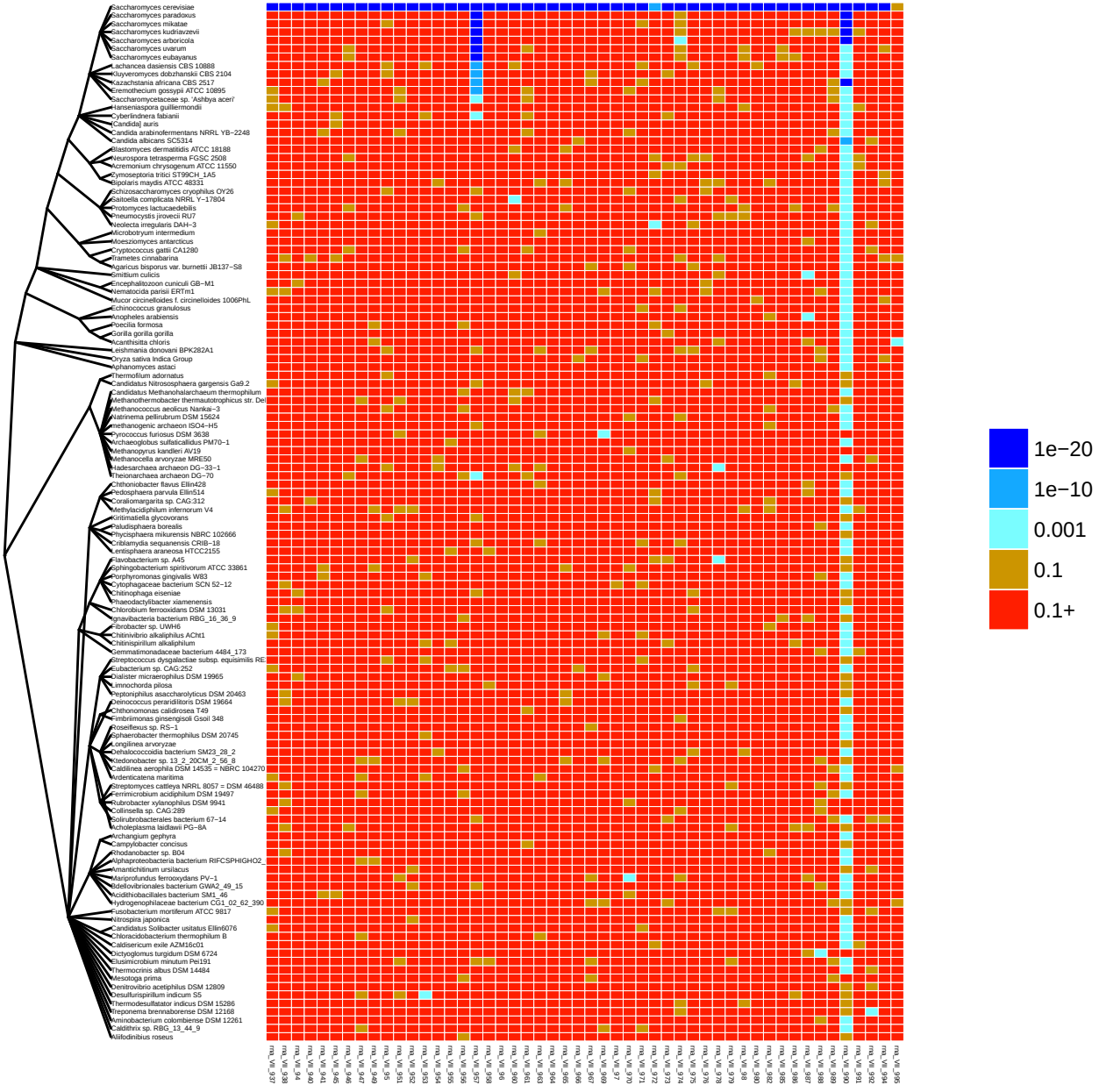

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonadales
Nitrosomonas
Nitrosomonas europaea ATCC 19718
Nitrosomonas eutropha C91
Nitrosomonas sp. Is79A3
Nitrosomonas sp. AL212
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is76
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is53
Nitrosomonas sp. Is52
Nitrosomonas sp. Is51
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
Nitrosomonas sp. Is36
Nitrosomonas sp. Is35
Nitrosomonas sp. Is34
Nitrosomonas sp. Is33
Nitrosomonas sp. Is32
Nitrosomonas sp. Is31
Nitrosomonas sp. Is30
Nitrosomonas sp. Is29
Nitrosomonas sp. Is28
Nitrosomonas sp. Is27
Nitrosomonas sp. Is26
Nitrosomonas sp. Is25
Nitrosomonas sp. Is24
Nitrosomonas sp. Is23
Nitrosomonas sp. Is22
Nitrosomonas sp. Is21
Nitrosomonas sp. Is20
Nitrosomonas sp. Is19
Nitrosomonas sp. Is18
Nitrosomonas sp. Is17
Nitrosomonas sp. Is16
Nitrosomonas sp. Is15
Nitrosomonas sp. Is14
Nitrosomonas sp. Is13
Nitrosomonas sp. Is12
Nitrosomonas sp. Is11
Nitrosomonas sp. Is10
Nitrosomonas sp. Is9
Nitrosomonas sp. Is8
Nitrosomonas sp. Is7
Nitrosomonas sp. Is6
Nitrosomonas sp. Is5
Nitrosomonas sp. Is4
Nitrosomonas sp. Is3
Nitrosomonas sp. Is2
Nitrosomonas sp. Is1
1e−20
1e−10
0.001
0.1
0.1+

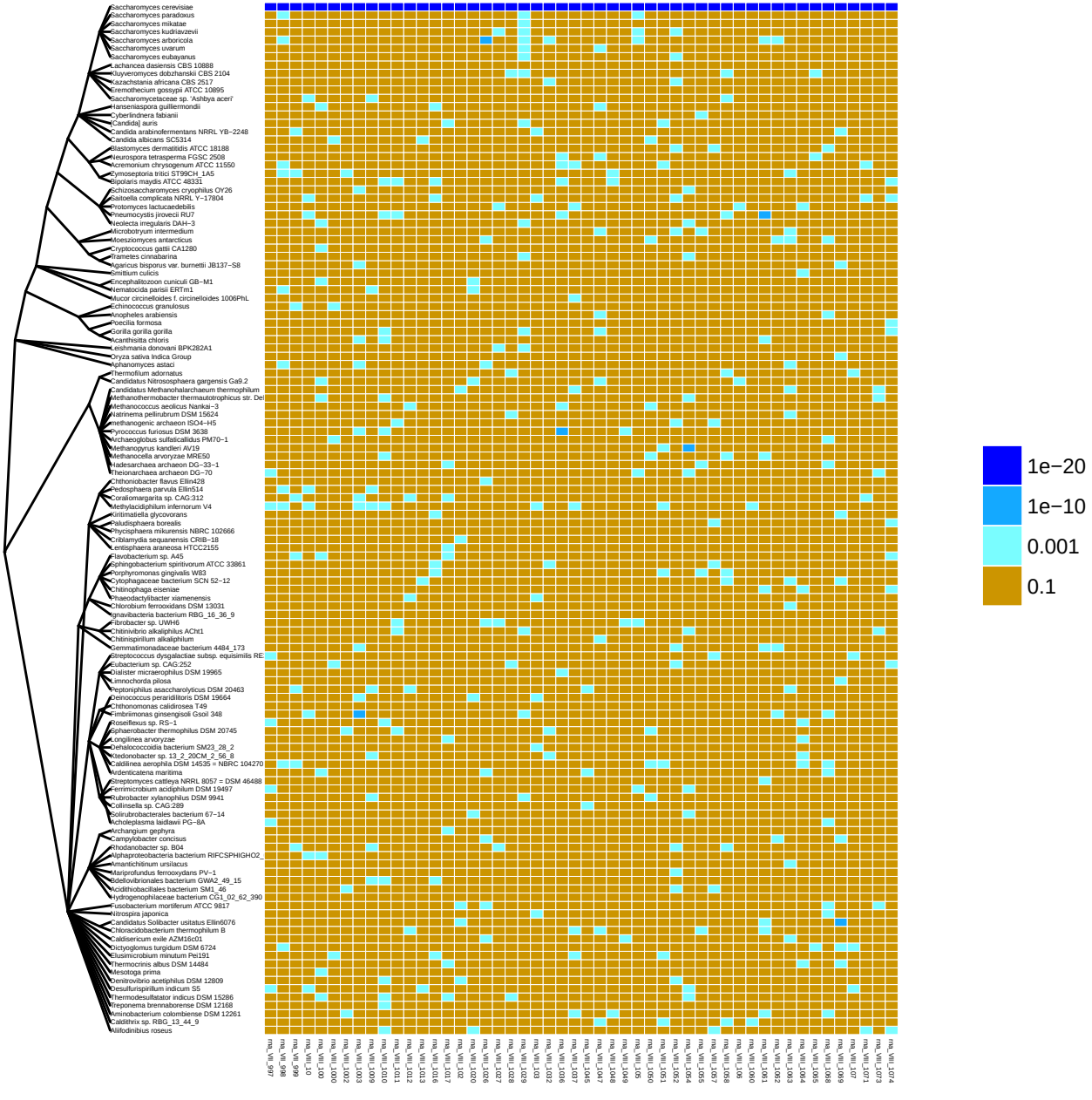

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_VK_690
ma_VK_692
ma_VK_694
ma_VK_695
ma_VK_696
ma_VK_698
ma_VK_699
ma_VK_660
ma_VK_661
ma_VK_662
ma_VK_663
ma_VK_664
ma_VK_667
ma_VK_668
ma_VK_67
ma_VK_675
ma_VK_677
ma_VK_678
ma_VK_679
ma_VK_68
ma_VK_681
ma_VK_688
ma_VK_689
ma_VK_693
ma_VK_695
ma_VK_696
ma_VK_697
ma_VK_699
ma_VK_70
ma_VK_700
ma_VK_701
ma_VK_702
ma_VK_703
ma_VK_705
ma_VK_707
ma_VK_708
ma_VK_709
ma_VK_710
ma_VK_714
ma_VK_715
ma_VK_716
ma_VK_717
ma_VK_718
ma_VK_720
ma_VK_723
ma_VK_728
ma_VK_729
ma_VK_732
ma_VK_734
ma_VK_735
1e−20
1e−10
0.001
0.1

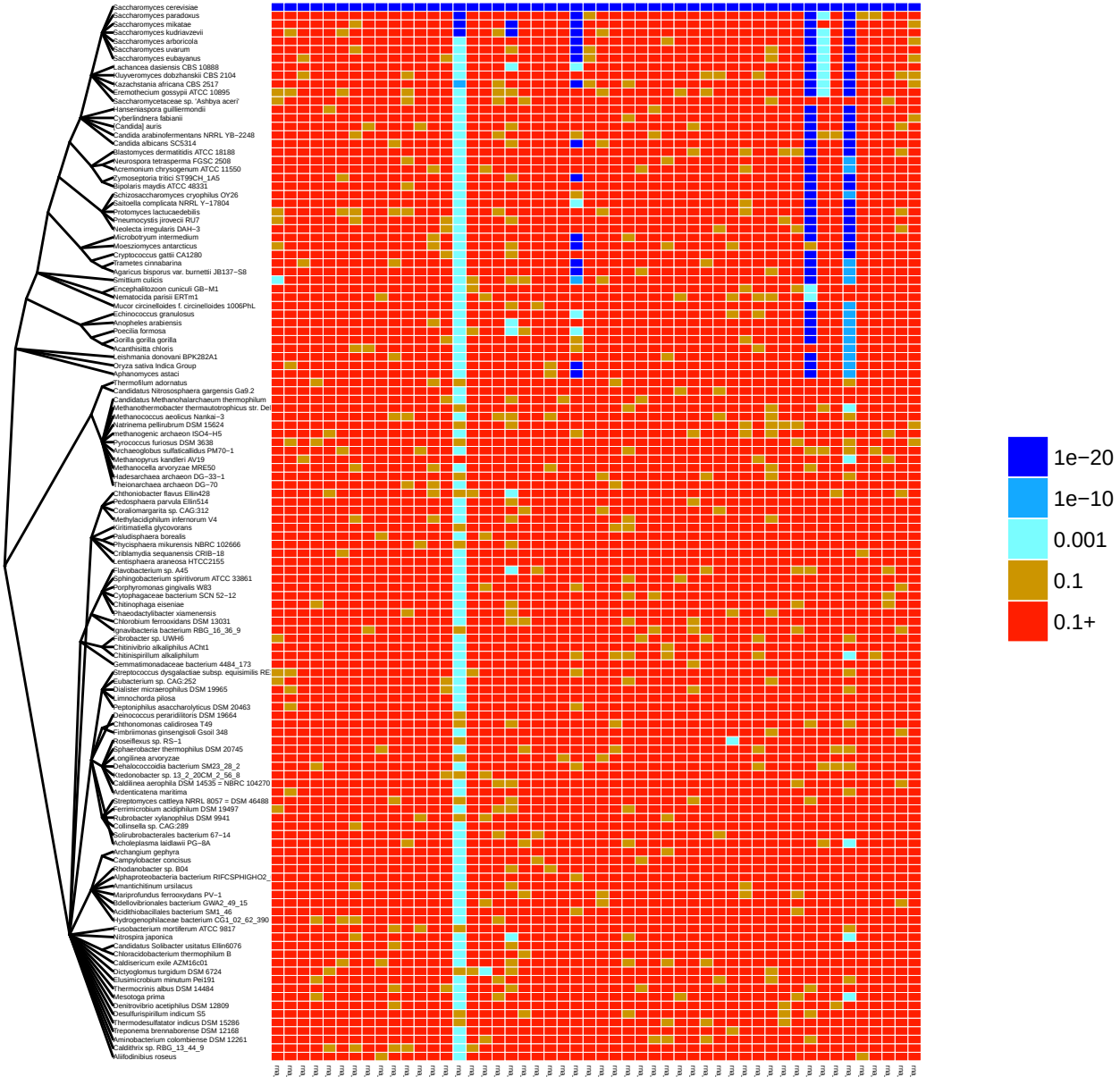

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrospirae
Nitrospinae
Lentisphaerae
Verrucomicrobia
Planctomycetes
Chlorobi
Ignavibacteriae
Fibrobacteres
Chlamydiae
Chitinivibrionia
Chitinispirillaeota
Gemmatimonadetes
Actinobacteria
Firmicutes
Deinococcus-Thermus
Chloroflexi
Thermoplasmatales
Methanomicrobia
Methanobacteria
Thermoprotei
Euryarchaeota
Archaeoglobi
Methanosarcinales
Methanocellales
Thermoplasmata
Thermococcales
Thermoproteales
Desulfurococcales
Sulfolobales
Thermoplasmatales
Methanomicrobiales
Methanobacteriales

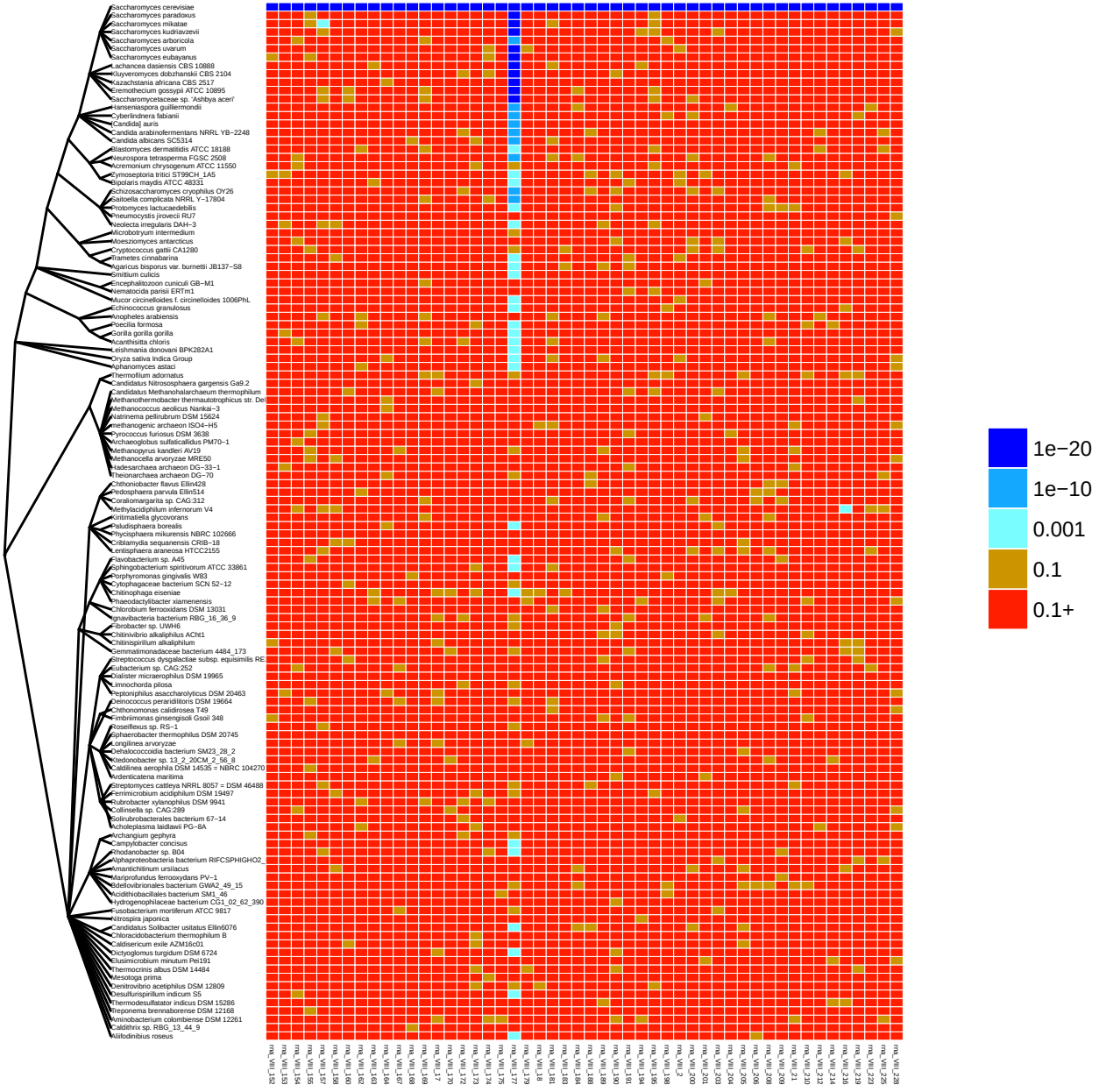

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_VR_802
ma_VR_803
ma_VR_804
ma_VR_805
ma_VR_807
ma_VR_808
ma_VR_810
ma_VR_813
ma_VR_814
ma_VR_815
ma_VR_816
ma_VR_823
ma_VR_824
ma_VR_827
ma_VR_828
ma_VR_829
ma_VR_830
ma_VR_831
ma_VR_835
ma_VR_836
ma_VR_838
ma_VR_839
ma_VR_842
ma_VR_845
ma_VR_846
ma_VR_847
ma_VR_849
ma_VR_851
ma_VR_852
ma_VR_855
ma_VR_856
ma_VR_858
ma_VR_859
ma_VR_86
ma_VR_861
ma_VR_862
ma_VR_863
ma_VR_864
ma_VR_865
ma_VR_866
ma_VR_868
ma_VR_87
ma_VR_870
ma_VR_871
ma_VR_872
ma_VR_873
ma_VR_874
ma_VR_875
ma_VR_877
ma_VR_878
1e−20
1e−10
0.001
0.1
0.1+

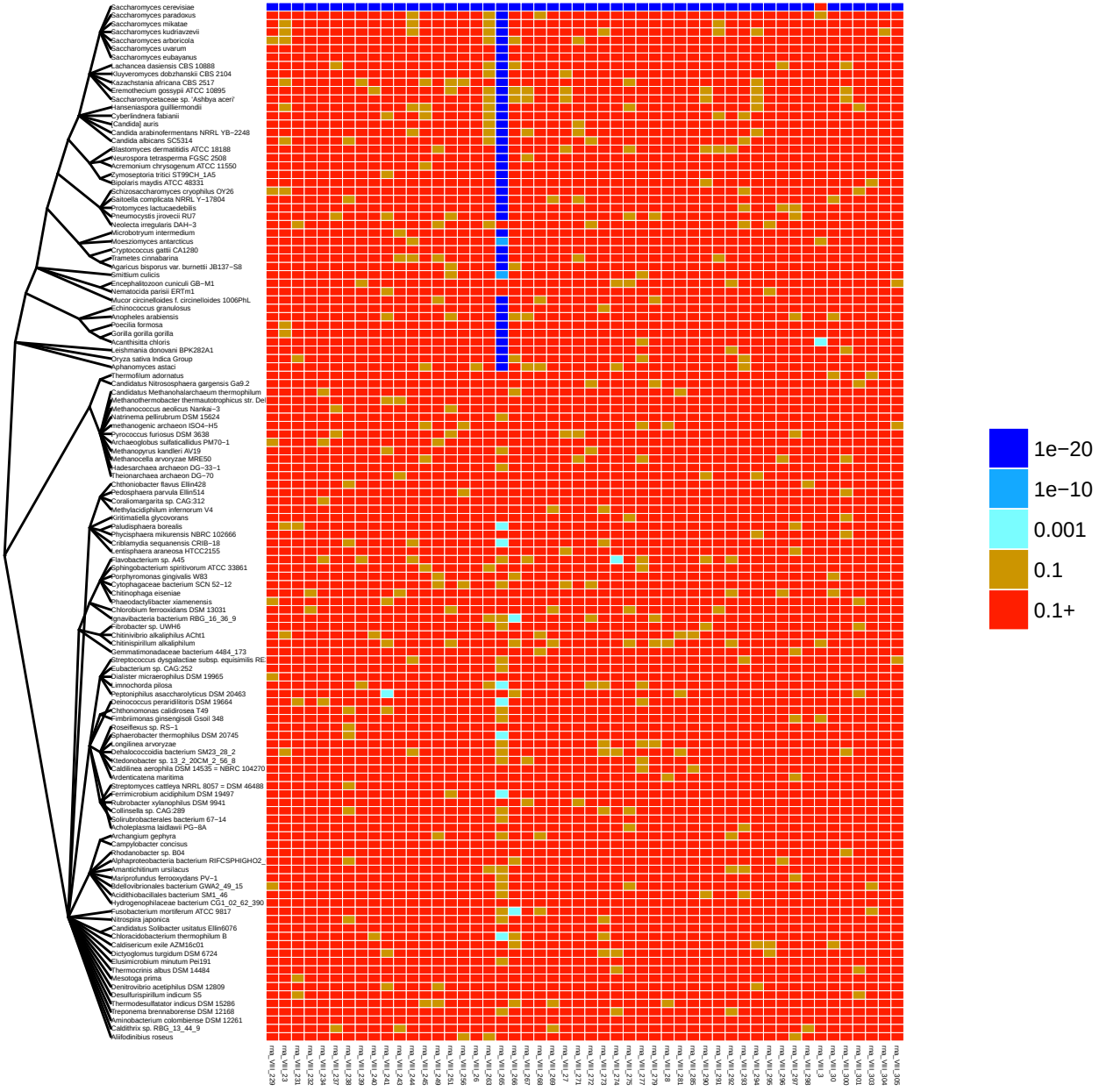

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
ma_VR_879
ma_VR_880
ma_VR_881
ma_VR_882
ma_VR_883
ma_VR_884
ma_VR_885
ma_VR_886
ma_VR_887
ma_VR_888
ma_VR_889
ma_VR_89
ma_VR_890
ma_VR_891
ma_VR_892
ma_VR_895
ma_VR_896
ma_VR_897
ma_VR_898
ma_VR_899
ma_VR_9
ma_VR_900
ma_VR_901
ma_VR_904
ma_VR_905
ma_VR_909
ma_VR_911
ma_VR_912
ma_VR_914
ma_VR_915
ma_VR_916
ma_VR_918
ma_VR_919
ma_VR_92
ma_VR_920
ma_VR_921
ma_VR_922
ma_VR_923
ma_VR_924
ma_VR_925
ma_VR_926
ma_VR_927
ma_VR_928
ma_VR_930
ma_VR_931
ma_VR_932
ma_VR_933
ma_VR_934
ma_VR_935
ma_VR_936
1e−20
1e−10
0.001
0.1

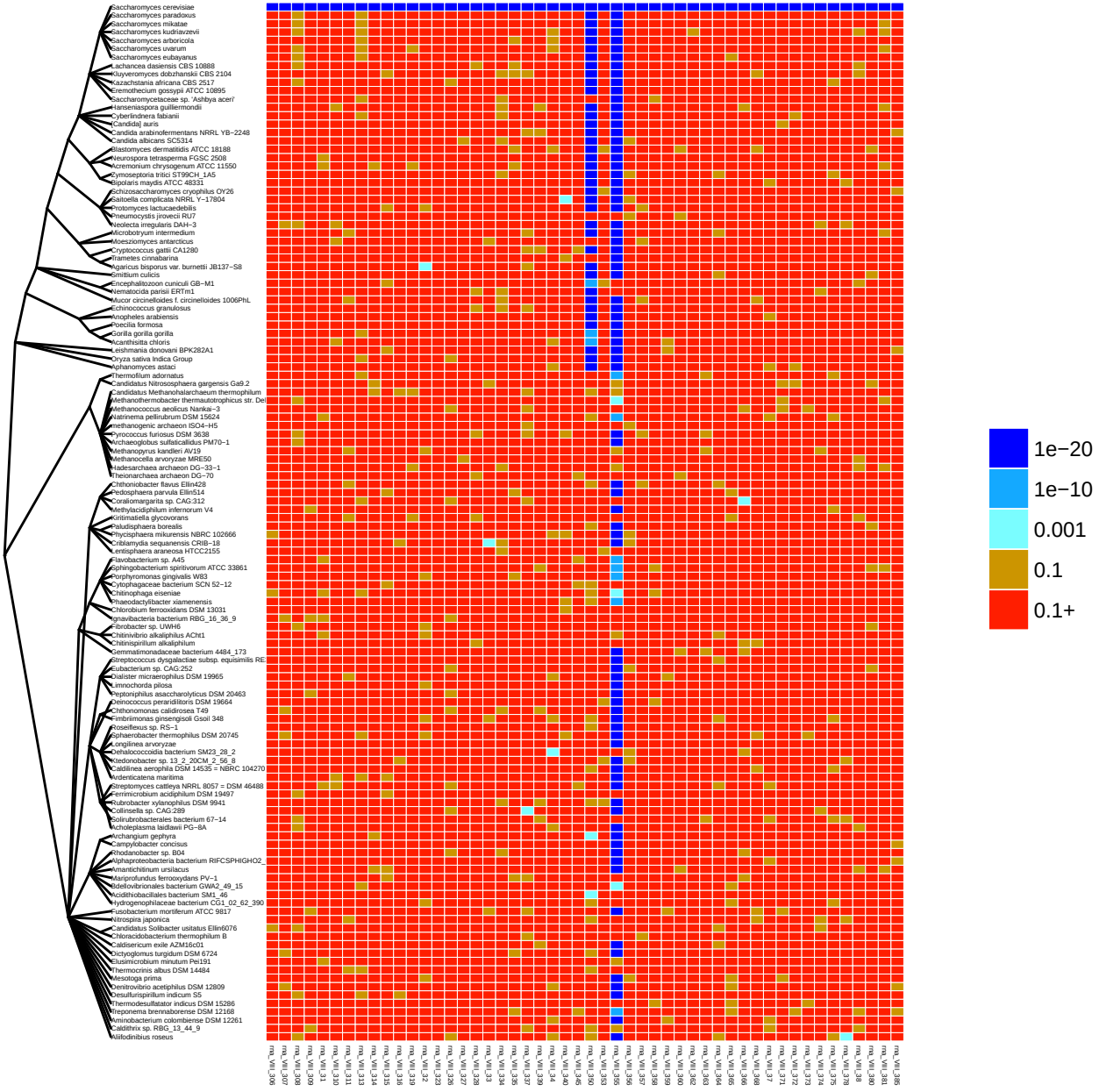

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_VA_937
ma_VA_938
ma_VA_94
ma_VA_940
ma_VA_941
ma_VA_945
ma_VA_946
ma_VA_947
ma_VA_949
ma_VA_95
ma_VA_951
ma_VA_952
ma_VA_953
ma_VA_954
ma_VA_955
ma_VA_956
ma_VA_957
ma_VA_958
ma_VA_96
ma_VA_960
ma_VA_961
ma_VA_963
ma_VA_964
ma_VA_965
ma_VA_966
ma_VA_967
ma_VA_969
ma_VA_97
ma_VA_970
ma_VA_971
ma_VA_972
ma_VA_973
ma_VA_974
ma_VA_975
ma_VA_976
ma_VA_978
ma_VA_979
ma_VA_98
ma_VA_980
ma_VA_982
ma_VA_985
ma_VA_986
ma_VA_987
ma_VA_988
ma_VA_989
ma_VA_990
ma_VA_991
ma_VA_992
ma_VA_994
ma_VA_995
1e−20
1e−10
0.001
0.1
0.1+

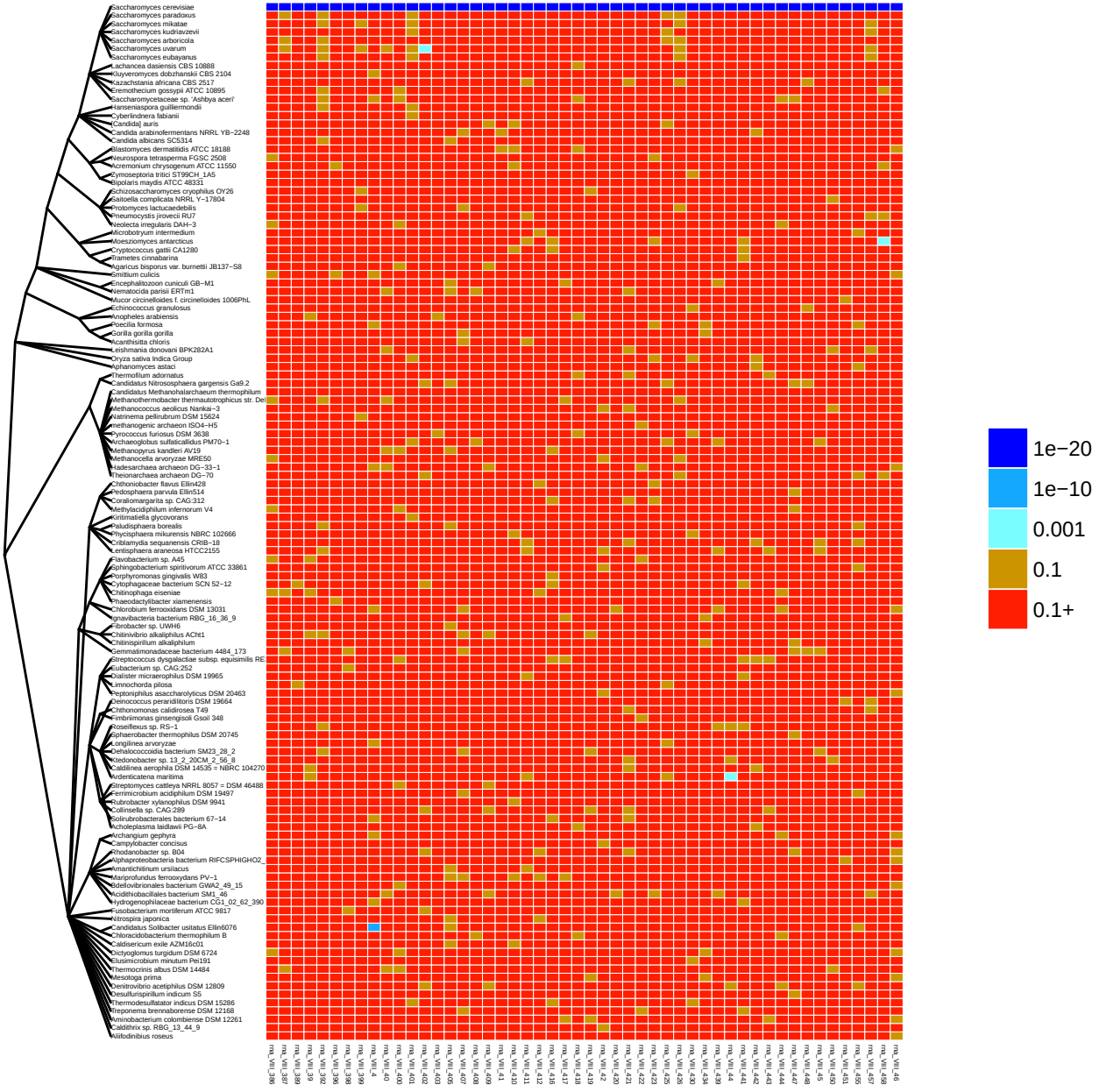

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromarganita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosodinibius roseus
ma_VN_997
ma_VN_998
ma_VN_999
ma_VN_10
ma_VN_100
ma_VN_1000
ma_VN_1002
ma_VN_1003
ma_VN_1009
ma_VN_1010
ma_VN_1011
ma_VN_1012
ma_VN_1013
ma_VN_1016
ma_VN_1017
ma_VN_102
ma_VN_1020
ma_VN_1026
ma_VN_1027
ma_VN_1028
ma_VN_1029
ma_VN_103
ma_VN_1032
ma_VN_1036
ma_VN_1037
ma_VN_1045
ma_VN_1047
ma_VN_1048
ma_VN_1049
ma_VN_105
ma_VN_1050
ma_VN_1051
ma_VN_1052
ma_VN_1054
ma_VN_1055
ma_VN_1057
ma_VN_1058
ma_VN_106
ma_VN_1060
ma_VN_1061
ma_VN_1062
ma_VN_1063
ma_VN_1064
ma_VN_1065
ma_VN_1068
ma_VN_1069
ma_VN_107
ma_VN_1071
ma_VN_1073
ma_VN_1074
1e−20
1e−10
0.001
0.1

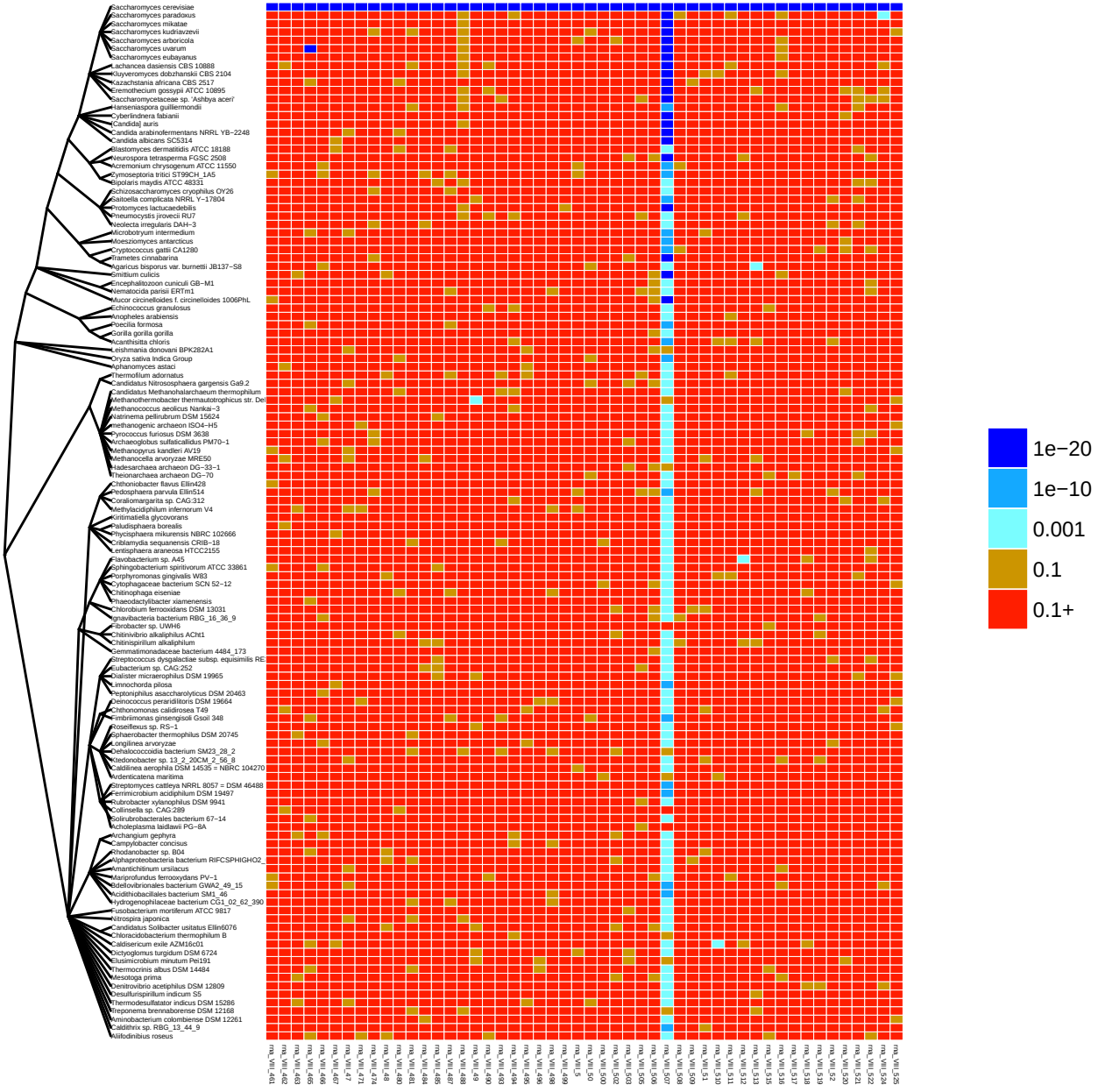

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

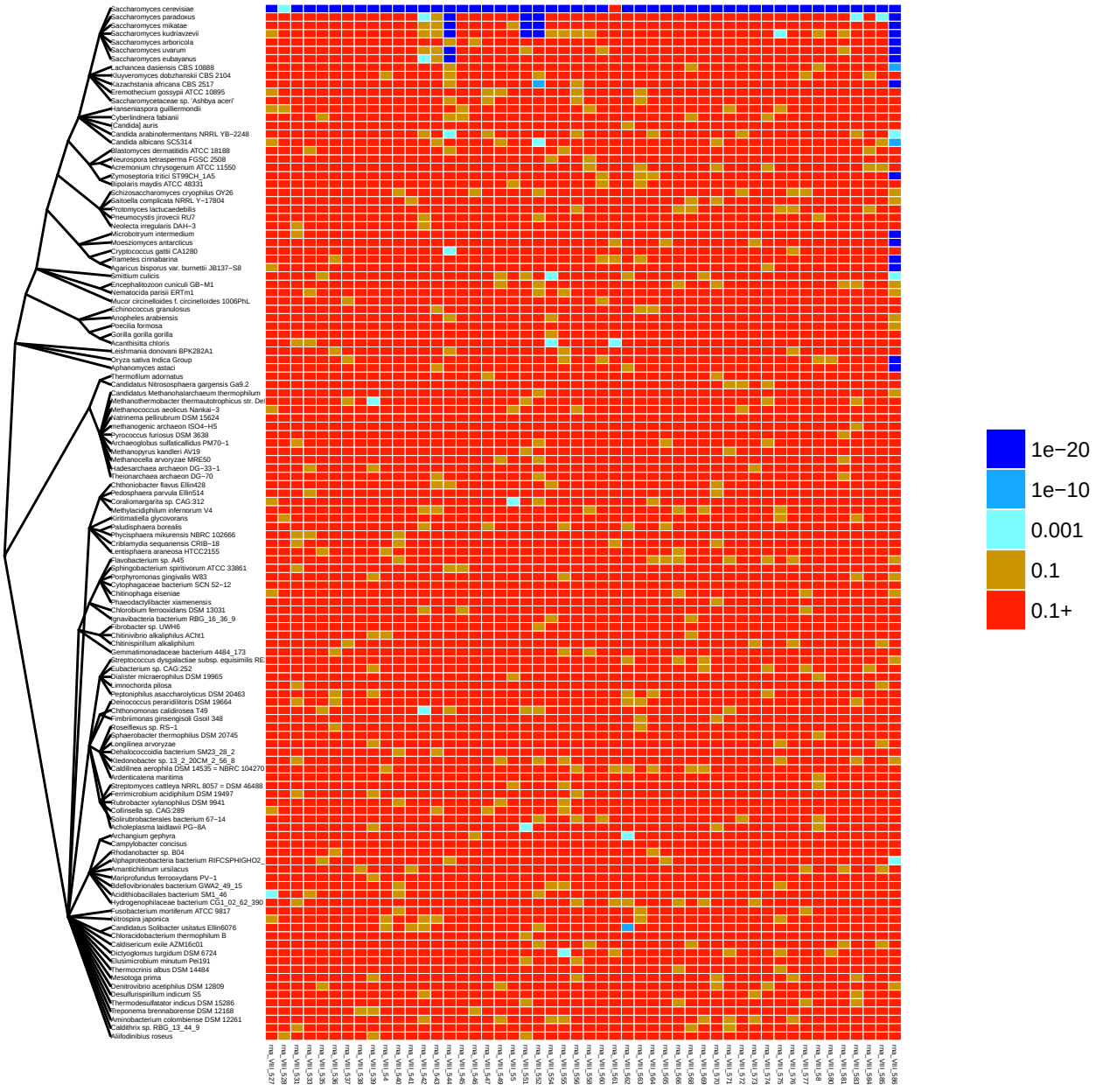

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonasi
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis sp. R4
Candidatus Nitrosotenuis sp. R7
Candidatus Nitrosotenuis sp. R8
Candidatus Nitrosotenuis sp. R9
Candidatus Nitrosotenuis sp. R10
Candidatus Nitrosotenuis sp. R11
Candidatus Nitrosotenuis sp. R12
Candidatus Nitrosotenuis sp. R13
Candidatus Nitrosotenuis sp. R14
Candidatus Nitrosotenuis sp. R15
Candidatus Nitrosotenuis sp. R16
Candidatus Nitrosotenuis sp. R17
Candidatus Nitrosotenuis sp. R18
Candidatus Nitrosotenuis sp. R19
Candidatus Nitrosotenuis sp. R20
Candidatus Nitrosotenuis sp. R21
Candidatus Nitrosotenuis sp. R22
Candidatus Nitrosotenuis sp. R23
Candidatus Nitrosotenuis sp. R24
Candidatus Nitrosotenuis sp. R25
Candidatus Nitrosotenuis sp. R26
Candidatus Nitrosotenuis sp. R27
Candidatus Nitrosotenuis sp. R28
1e−20
1e−10
0.001
0.1
0.1+

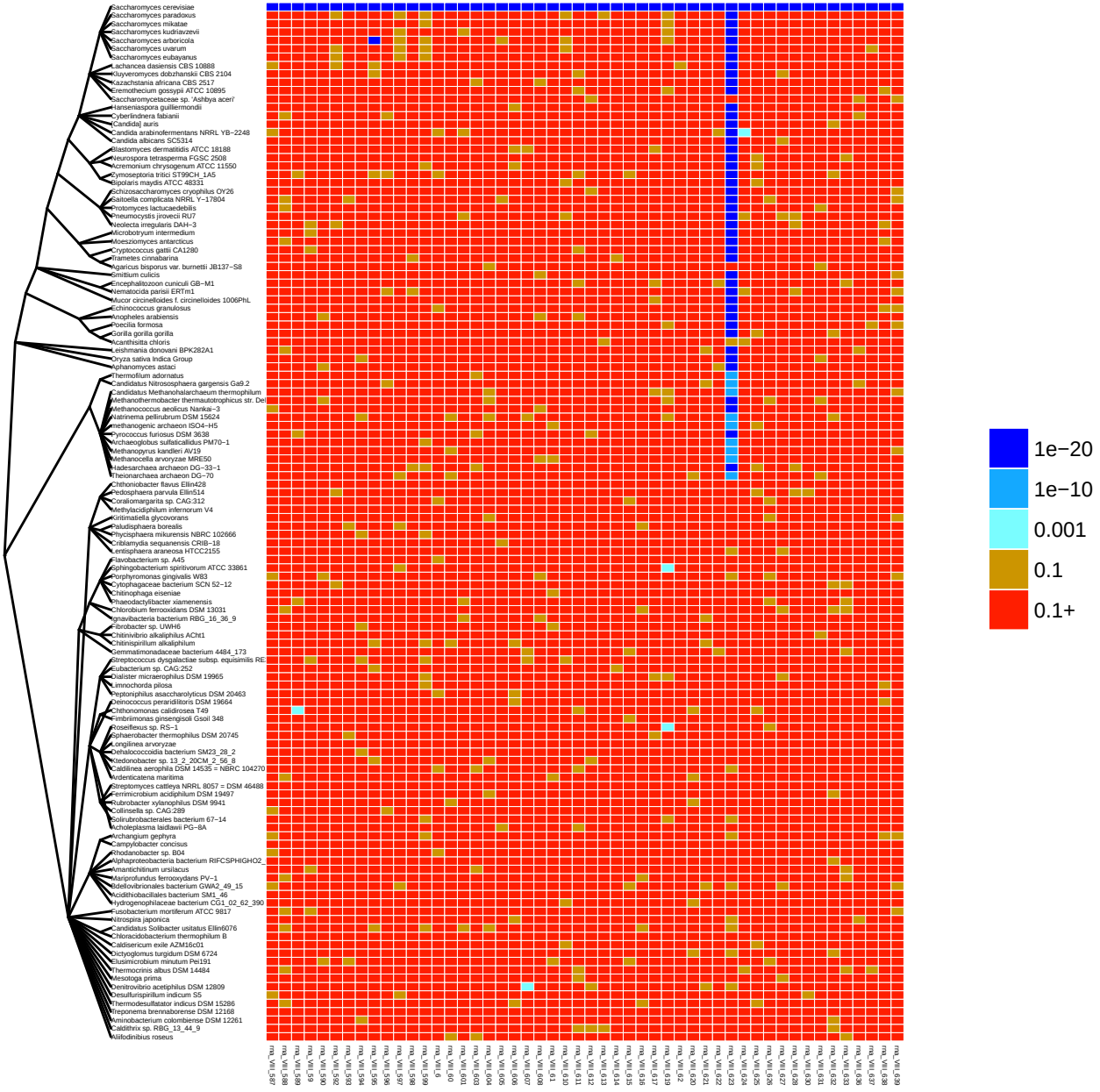

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_VII_229
ma_VII_23
ma_VII_231
ma_VII_232
ma_VII_234
ma_VII_237
ma_VII_238
ma_VII_239
ma_VII_240
ma_VII_241
ma_VII_243
ma_VII_244
ma_VII_245
ma_VII_249
ma_VII_251
ma_VII_256
ma_VII_26
ma_VII_263
ma_VII_265
ma_VII_266
ma_VII_267
ma_VII_268
ma_VII_269
ma_VII_27
ma_VII_271
ma_VII_272
ma_VII_273
ma_VII_274
ma_VII_275
ma_VII_277
ma_VII_279
ma_VII_28
ma_VII_281
ma_VII_285
ma_VII_290
ma_VII_291
ma_VII_292
ma_VII_293
ma_VII_294
ma_VII_295
ma_VII_296
ma_VII_297
ma_VII_298
ma_VII_3
ma_VII_30
ma_VII_300
ma_VII_301
ma_VII_303
ma_VII_304
ma_VII_305
1e−20
1e−10
0.001
0.1
0.1+

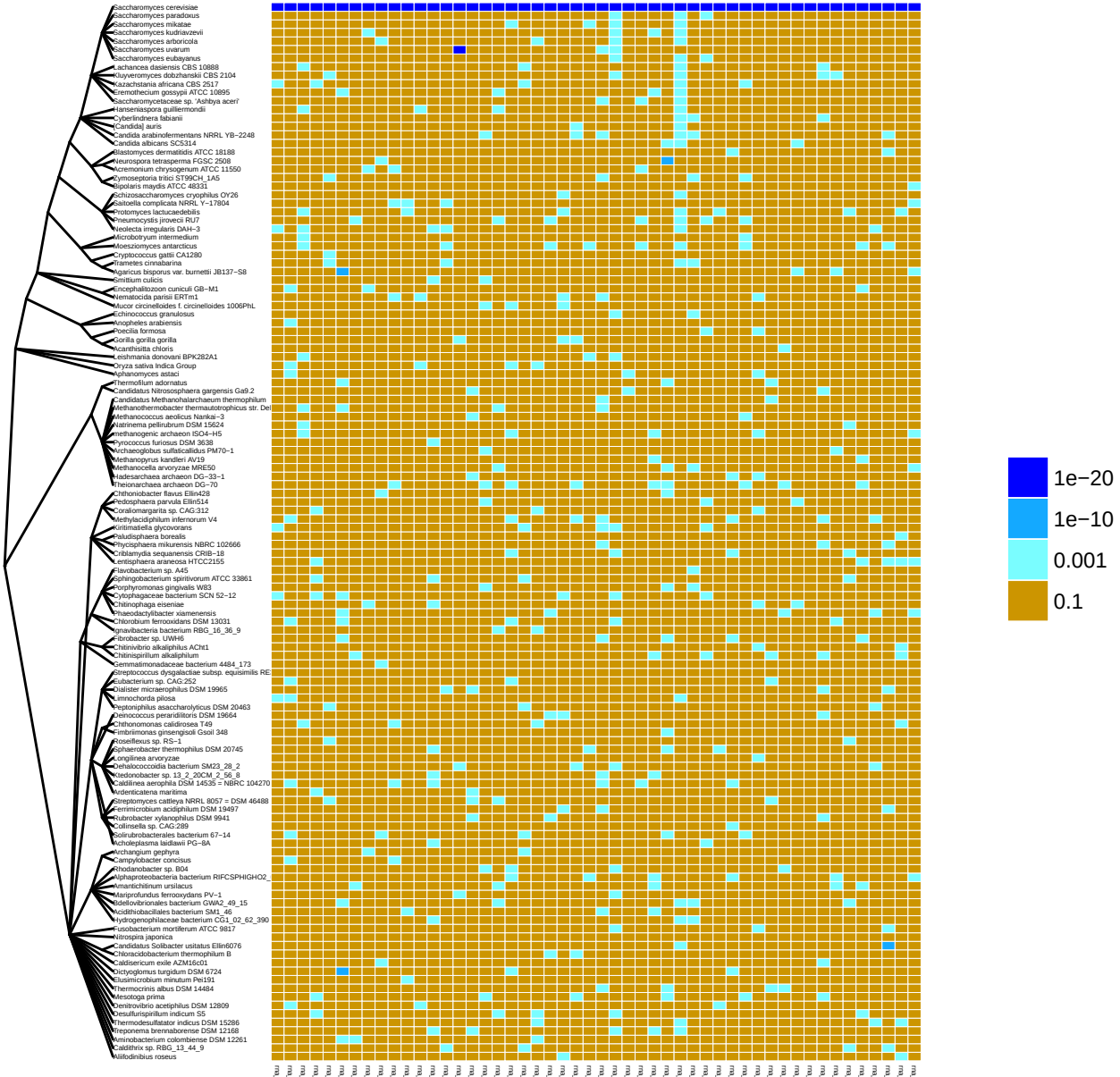

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_VN_306
ma_VN_307
ma_VN_308
ma_VN_309
ma_VN_31
ma_VN_310
ma_VN_311
ma_VN_313
ma_VN_314
ma_VN_315
ma_VN_316
ma_VN_319
ma_VN_32
ma_VN_323
ma_VN_326
ma_VN_327
ma_VN_328
ma_VN_33
ma_VN_334
ma_VN_335
ma_VN_337
ma_VN_339
ma_VN_34
ma_VN_340
ma_VN_345
ma_VN_350
ma_VN_353
ma_VN_355
ma_VN_356
ma_VN_357
ma_VN_358
ma_VN_359
ma_VN_360
ma_VN_362
ma_VN_363
ma_VN_364
ma_VN_365
ma_VN_366
ma_VN_368
ma_VN_37
ma_VN_371
ma_VN_372
ma_VN_373
ma_VN_374
ma_VN_375
ma_VN_378
ma_VN_38
ma_VN_380
ma_VN_381
ma_VN_385
1e−20
1e−10
0.001
0.1
0.1+

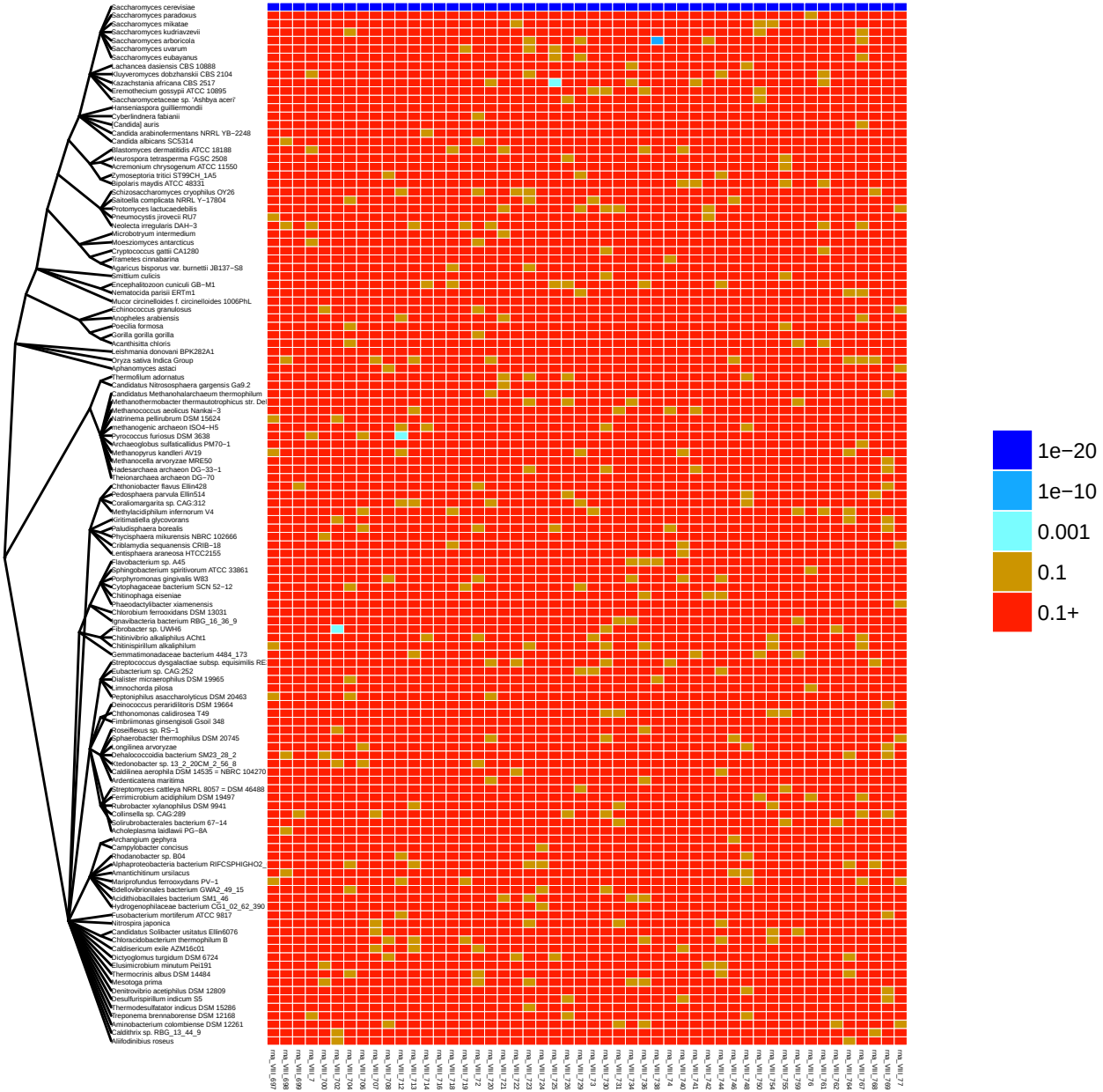

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

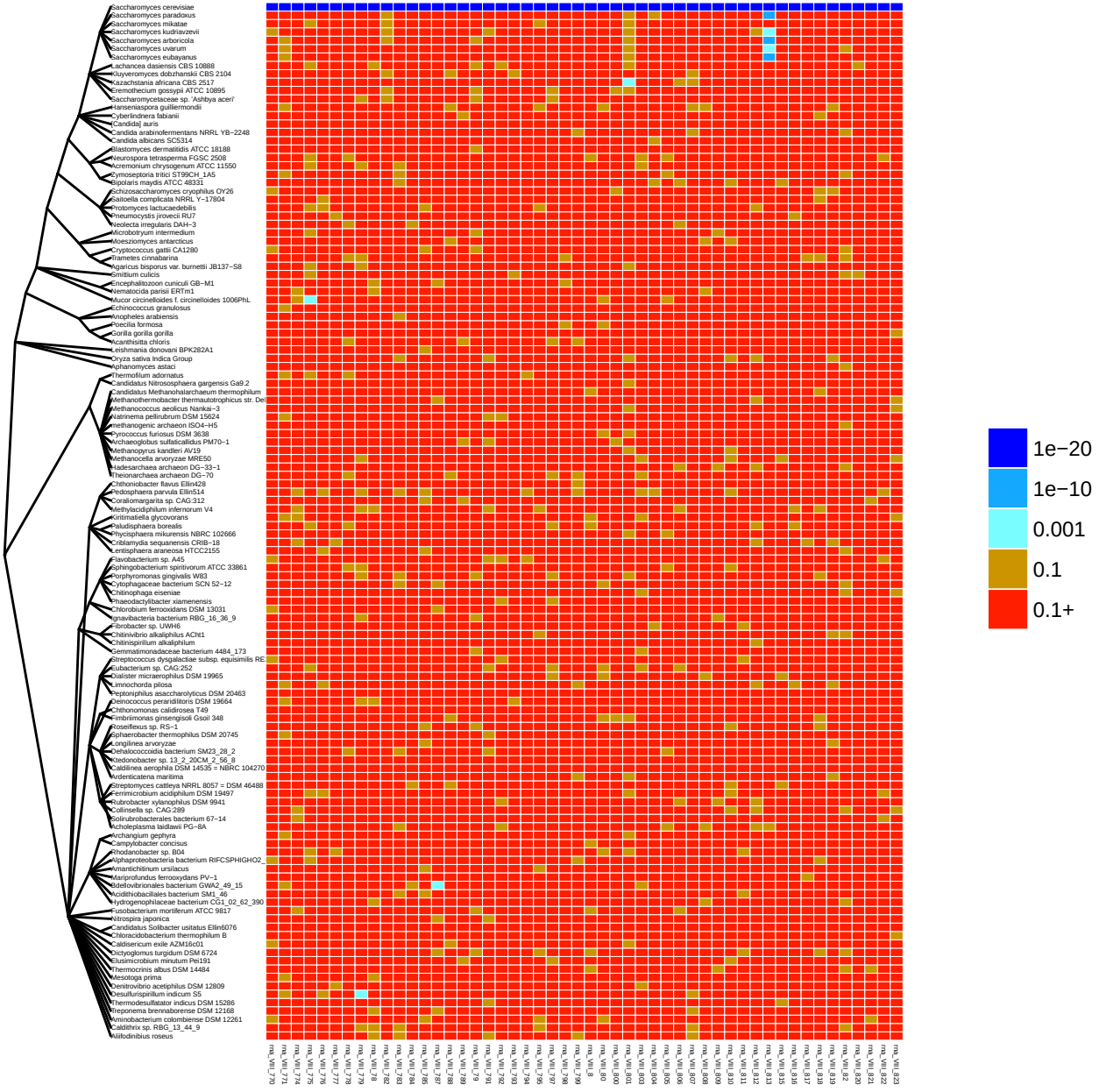

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_VN_461
ma_VN_462
ma_VN_463
ma_VN_465
ma_VN_466
ma_VN_467
ma_VN_47
ma_VN_471
ma_VN_474
ma_VN_48
ma_VN_480
ma_VN_481
ma_VN_484
ma_VN_485
ma_VN_487
ma_VN_488
ma_VN_49
ma_VN_490
ma_VN_493
ma_VN_494
ma_VN_495
ma_VN_496
ma_VN_498
ma_VN_499
ma_VN_5
ma_VN_50
ma_VN_500
ma_VN_502
ma_VN_503
ma_VN_505
ma_VN_506
ma_VN_507
ma_VN_508
ma_VN_509
ma_VN_51
ma_VN_510
ma_VN_511
ma_VN_512
ma_VN_513
ma_VN_515
ma_VN_516
ma_VN_517
ma_VN_518
ma_VN_519
ma_VN_52
ma_VN_520
ma_VN_521
ma_VN_522
ma_VN_524
ma_VN_525
1e−20
1e−10
0.001
0.1
0.1+

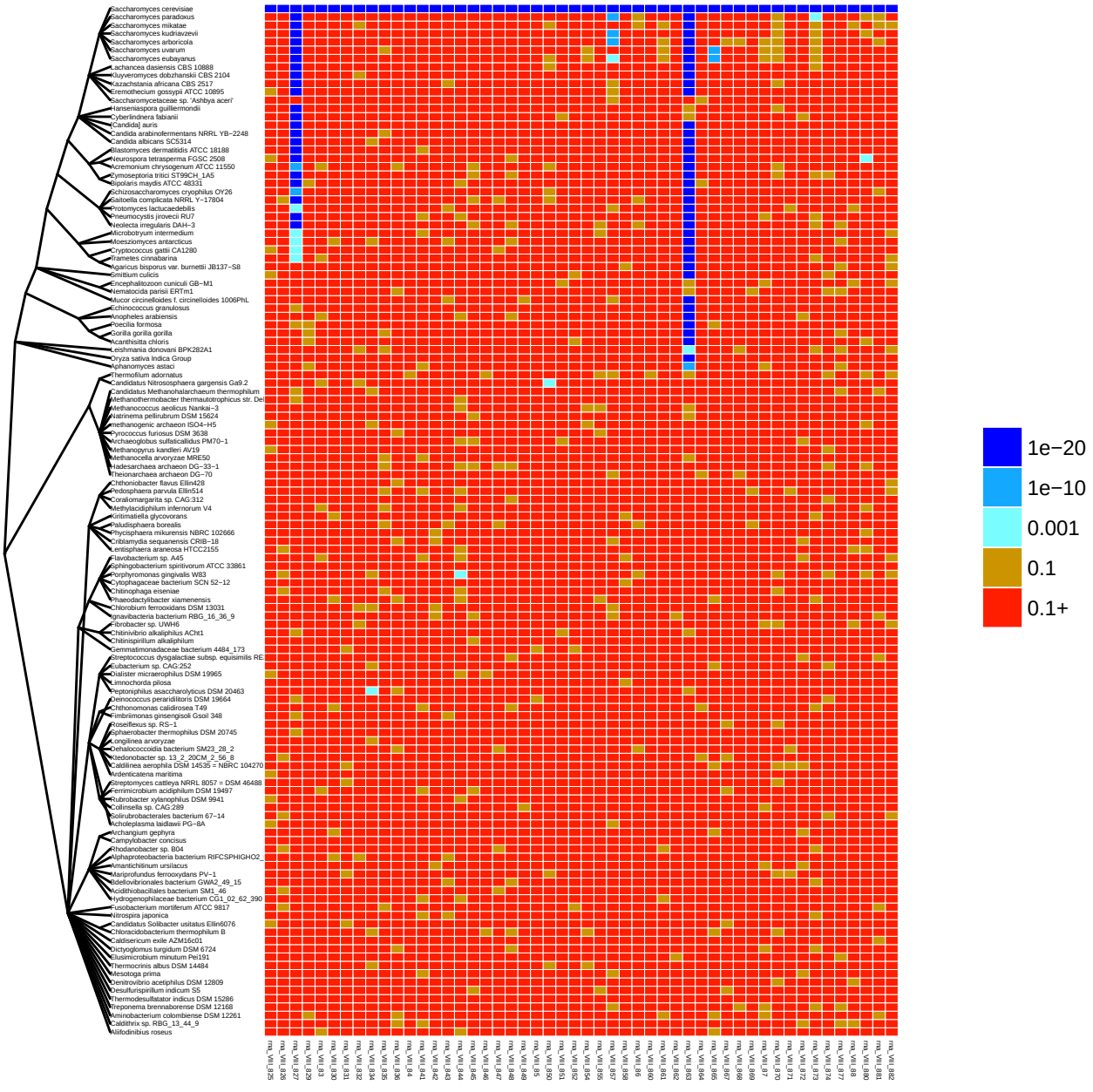

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Cuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Biopolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_VN_527
ma_VN_528
ma_VN_531
ma_VN_533
ma_VN_535
ma_VN_536
ma_VN_537
ma_VN_538
ma_VN_539
ma_VN_540
ma_VN_541
ma_VN_542
ma_VN_543
ma_VN_544
ma_VN_545
ma_VN_546
ma_VN_547
ma_VN_549
ma_VN_55
ma_VN_551
ma_VN_552
ma_VN_554
ma_VN_555
ma_VN_556
ma_VN_558
ma_VN_560
ma_VN_561
ma_VN_562
ma_VN_563
ma_VN_564
ma_VN_565
ma_VN_566
ma_VN_568
ma_VN_569
ma_VN_570
ma_VN_571
ma_VN_572
ma_VN_573
ma_VN_574
ma_VN_575
ma_VN_576
ma_VN_577
ma_VN_58
ma_VN_580
ma_VN_581
ma_VN_583
ma_VN_584
ma_VN_585
ma_VN_586
1e−20
1e−10
0.001
0.1
0.1+

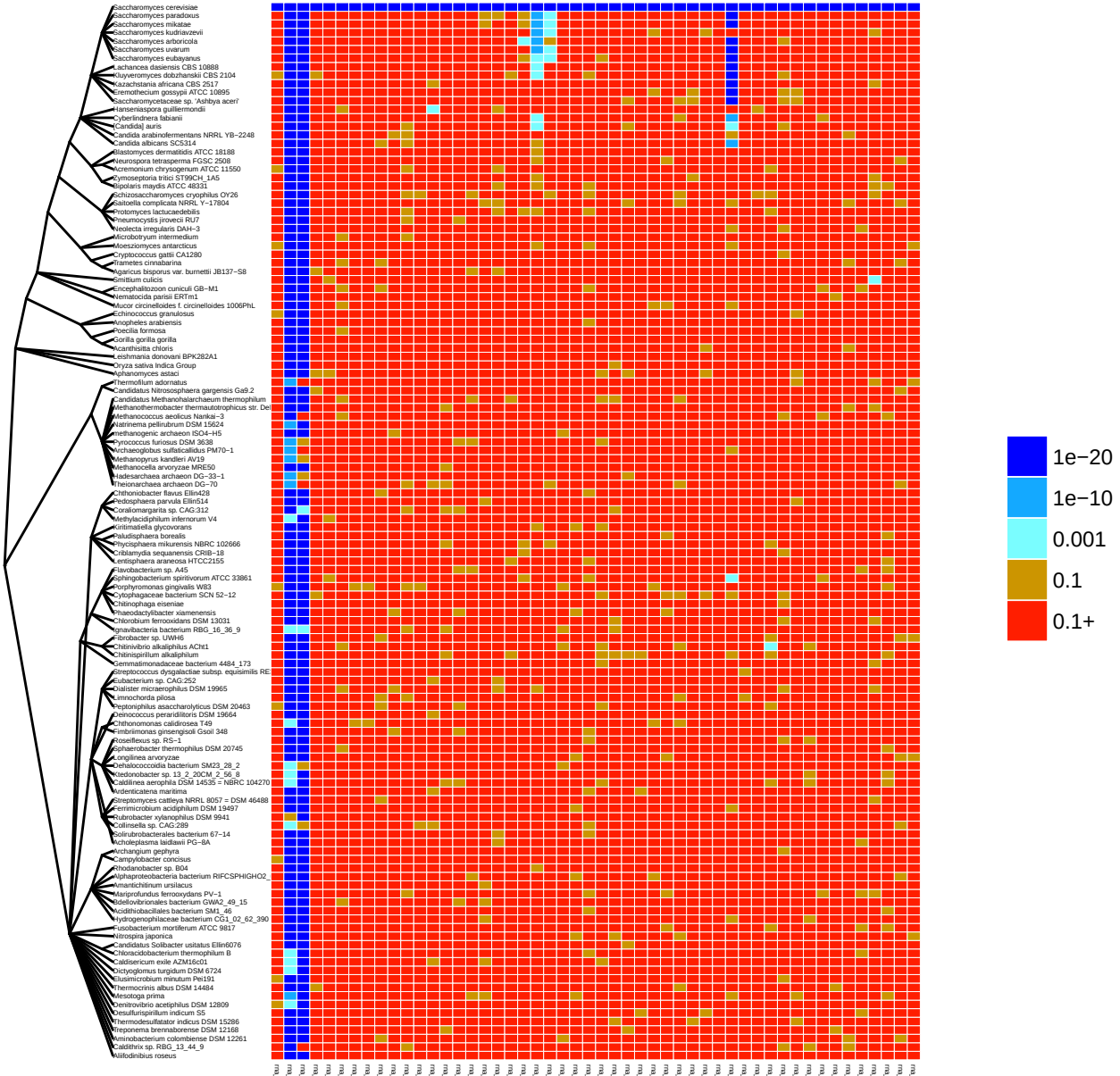

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

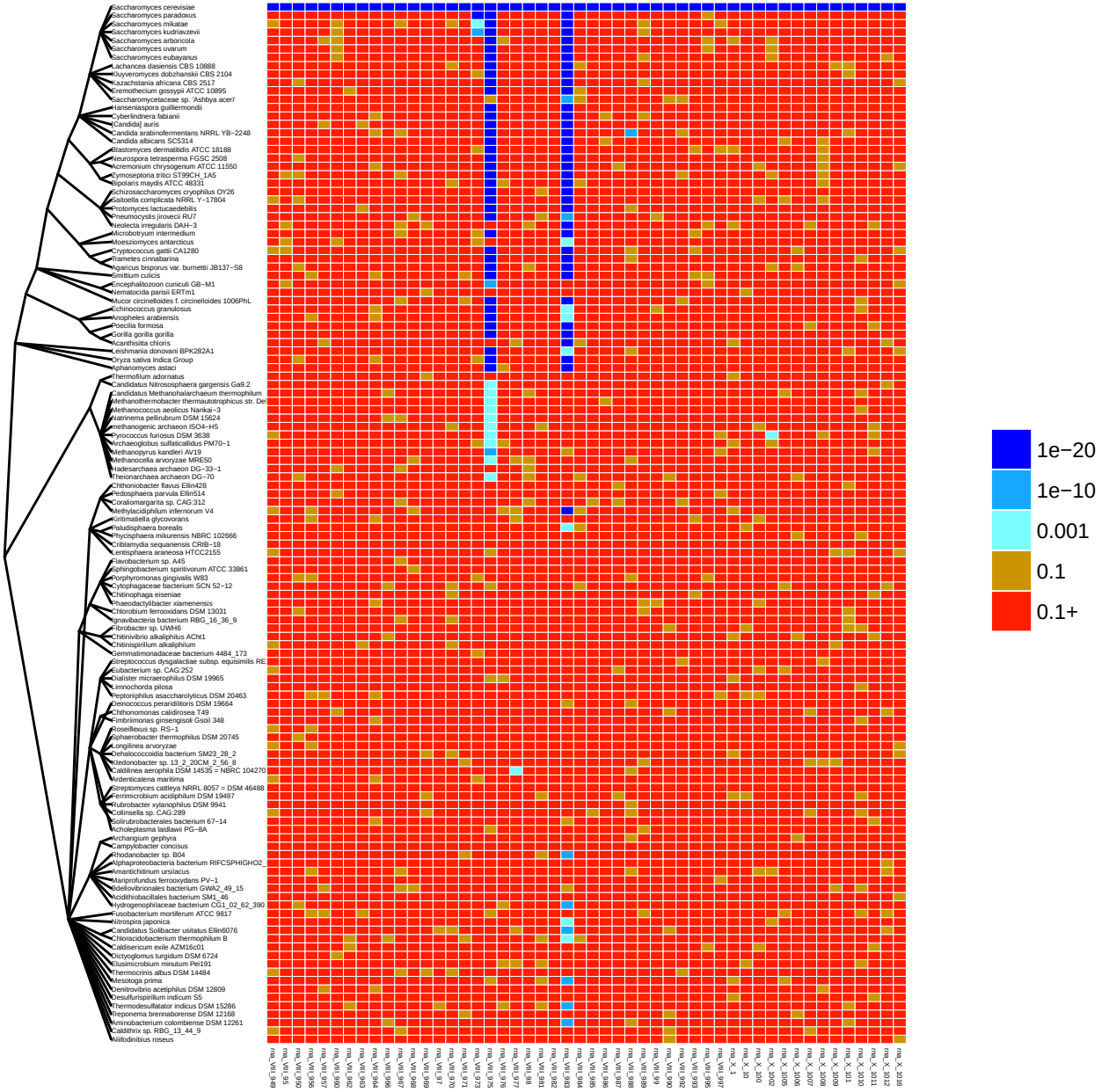

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
mu_VN_639
mu_VN_640
mu_VN_643
mu_VN_644
mu_VN_645
mu_VN_647
mu_VN_648
mu_VN_649
mu_VN_651
mu_VN_652
mu_VN_654
mu_VN_656
mu_VN_657
mu_VN_658
mu_VN_659
mu_VN_660
mu_VN_662
mu_VN_663
mu_VN_664
mu_VN_665
mu_VN_666
mu_VN_668
mu_VN_669
mu_VN_670
mu_VN_671
mu_VN_672
mu_VN_673
mu_VN_674
mu_VN_676
mu_VN_677
mu_VN_678
mu_VN_679
mu_VN_680
mu_VN_681
mu_VN_682
mu_VN_683
mu_VN_684
mu_VN_685
mu_VN_687
mu_VN_688
mu_VN_689
mu_VN_690
mu_VN_691
mu_VN_692
mu_VN_693
mu_VN_694
mu_VN_695
mu_VN_696
1e−20
1e−10
0.001
0.1

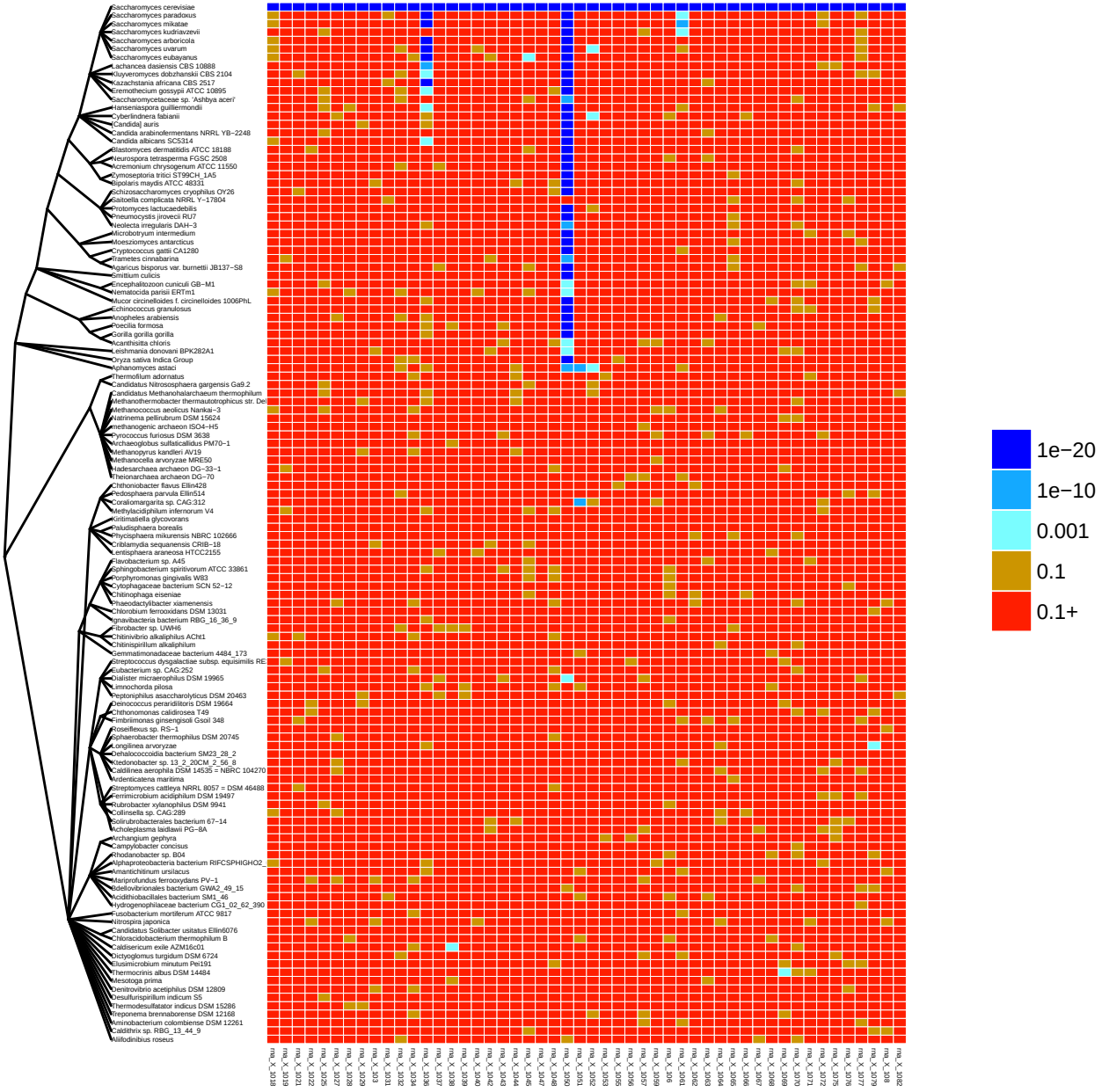

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_VR_697
ma_VR_698
ma_VR_699
ma_VR_7
ma_VR_700
ma_VR_702
ma_VR_704
ma_VR_705
ma_VR_706
ma_VR_707
ma_VR_708
ma_VR_712
ma_VR_713
ma_VR_714
ma_VR_716
ma_VR_718
ma_VR_719
ma_VR_72
ma_VR_720
ma_VR_721
ma_VR_722
ma_VR_723
ma_VR_724
ma_VR_725
ma_VR_728
ma_VR_729
ma_VR_73
ma_VR_730
ma_VR_731
ma_VR_734
ma_VR_736
ma_VR_738
ma_VR_74
ma_VR_740
ma_VR_741
ma_VR_742
ma_VR_744
ma_VR_746
ma_VR_748
ma_VR_749
ma_VR_750
ma_VR_754
ma_VR_755
ma_VR_759
ma_VR_76
ma_VR_761
ma_VR_762
ma_VR_764
ma_VR_767
ma_VR_768
ma_VR_769
ma_VR_77
1e−20
1e−10
0.001
0.1
0.1+

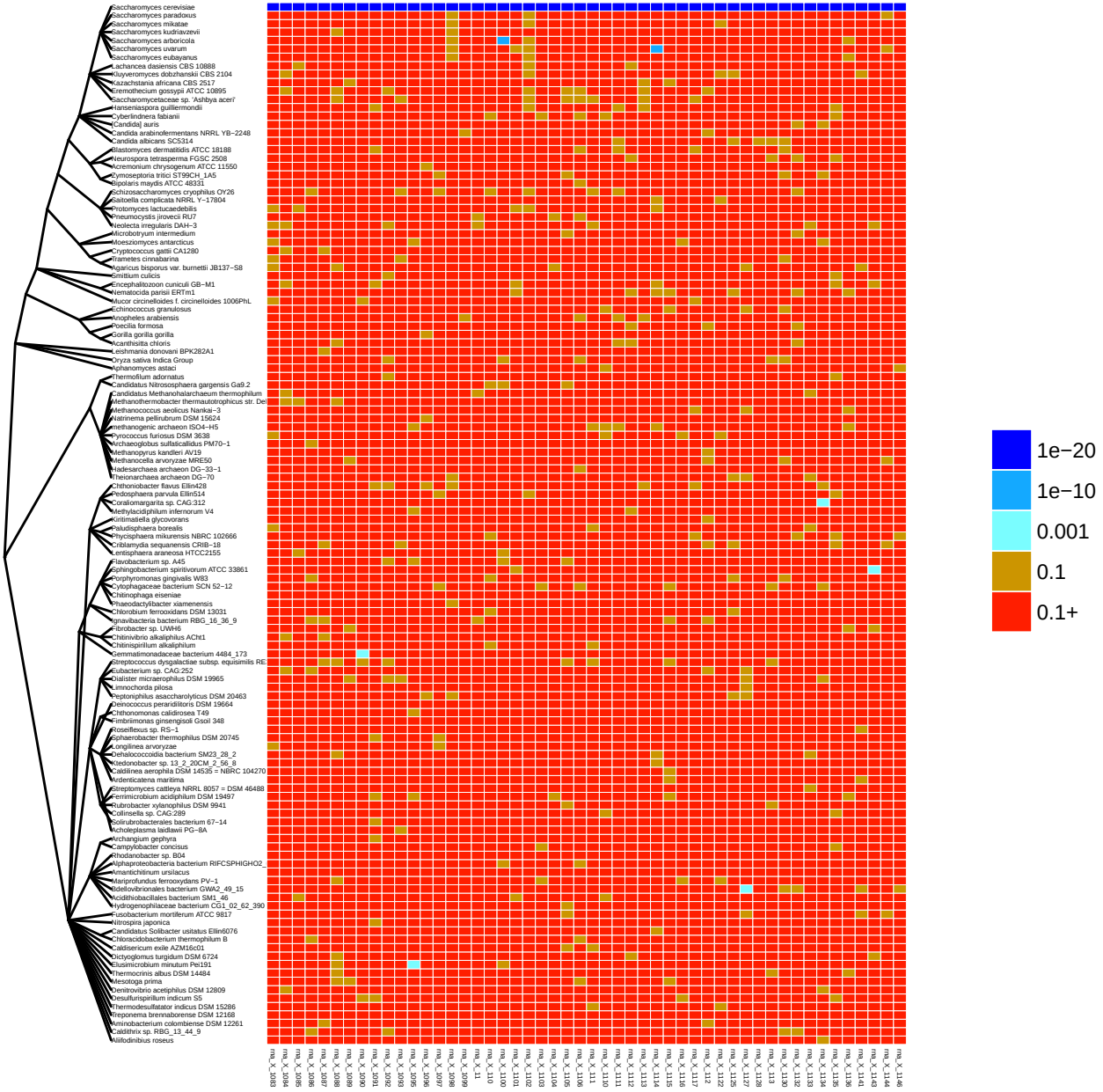

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens RMS011
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
ma_VM_L_70
ma_VM_L_71
ma_VM_L_74
ma_VM_L_75
ma_VM_L_76
ma_VM_L_77
ma_VM_L_78
ma_VM_L_79
ma_VM_L_78
ma_VM_L_82
ma_VM_L_84
ma_VM_L_83
ma_VM_L_85
ma_VM_L_87
ma_VM_L_88
ma_VM_L_89
ma_VM_L_79
ma_VM_L_91
ma_VM_L_92
ma_VM_L_93
ma_VM_L_94
ma_VM_L_95
ma_VM_L_97
ma_VM_L_98
ma_VM_L_99
ma_VM_L_8
ma_VM_L_80
ma_VM_L_90
ma_VM_L_81
ma_VM_L_83
ma_VM_L_84
ma_VM_L_85
ma_VM_L_86
ma_VM_L_87
ma_VM_L_88
ma_VM_L_89
ma_VM_L_90
ma_VM_L_91
ma_VM_L_92
ma_VM_L_93
ma_VM_L_95
ma_VM_L_96
ma_VM_L_97
ma_VM_L_98
ma_VM_L_99
ma_VM_L_8
ma_VM_L_80
ma_VM_L_81
ma_VM_L_82
ma_VM_L_83
1e−20
1e−10
0.001
0.1
0.1+

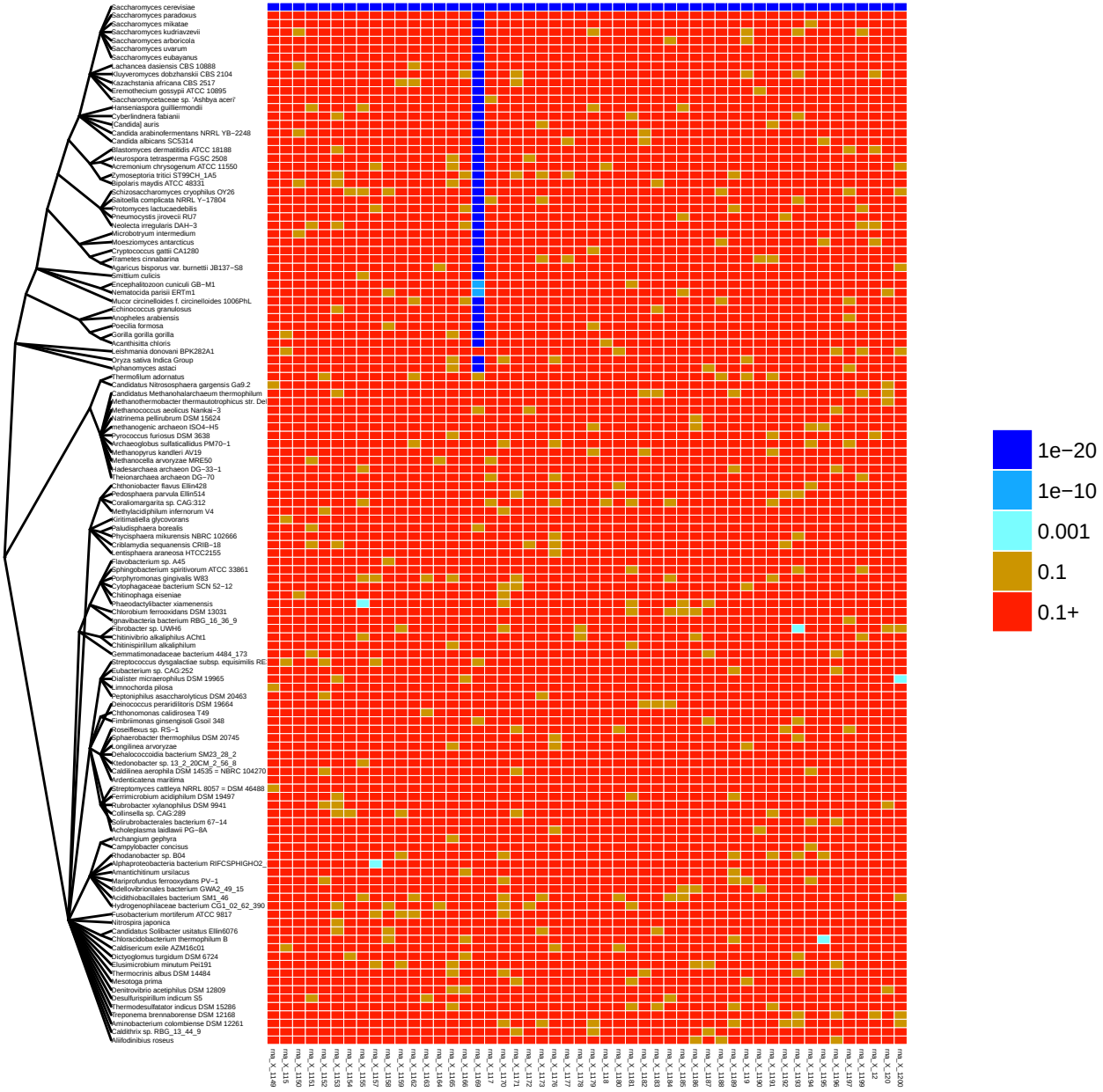

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonioibacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrospinae
Nitrospirae
Nitrospirae
Nitrospir

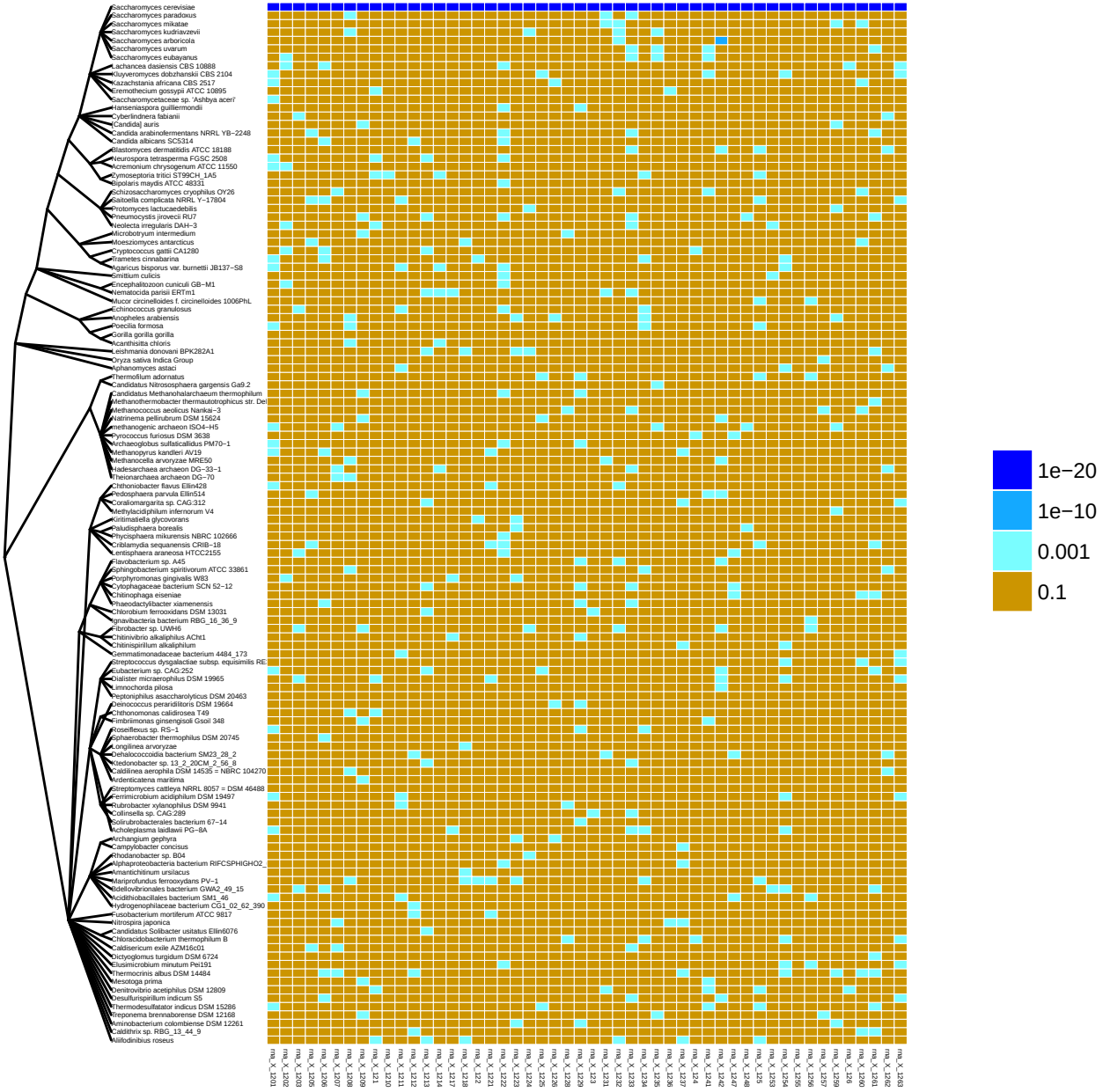

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia furfur CBS 14141
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia obtusa CBS 7482

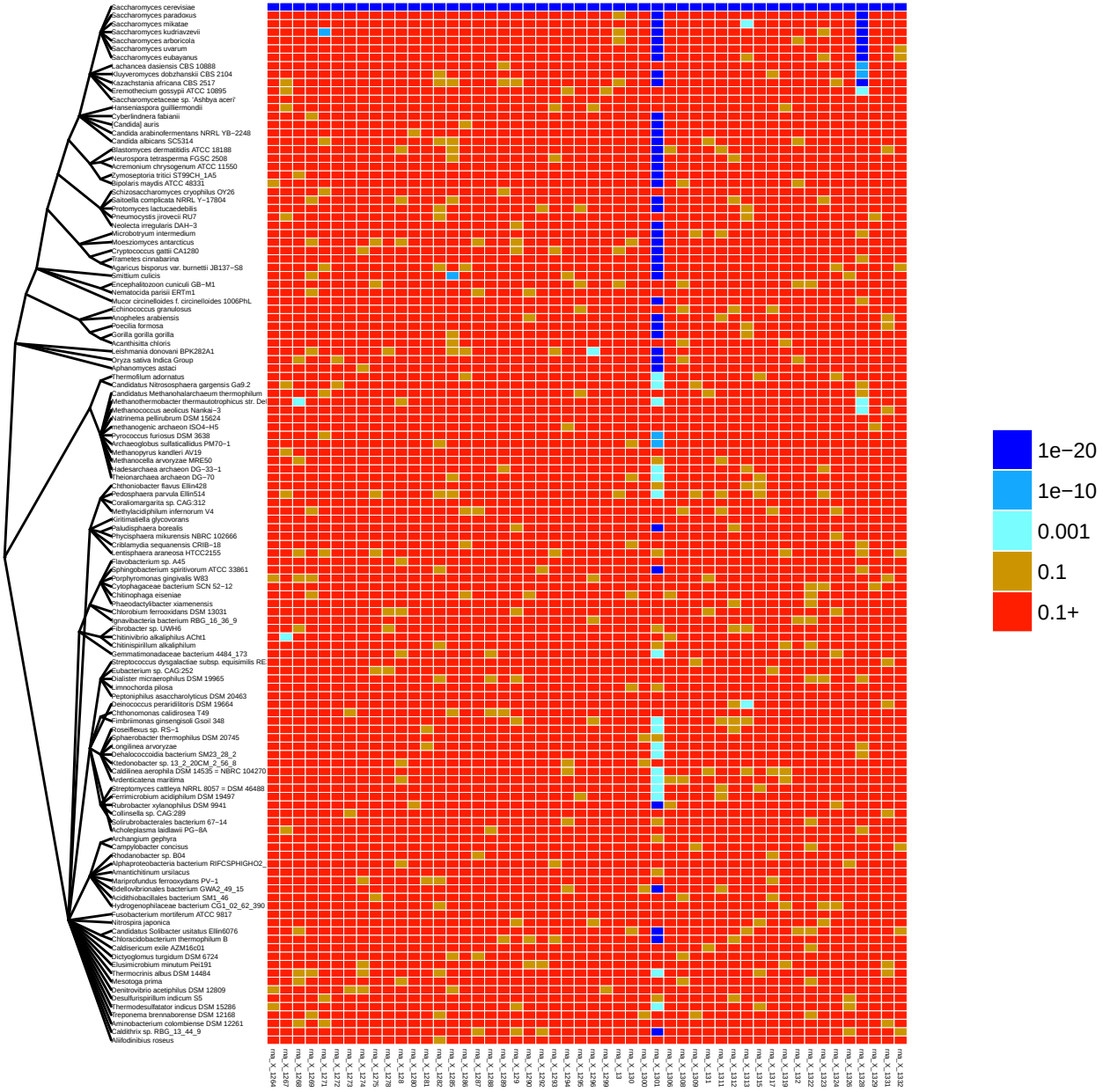

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_VA_949
ma_VA_955
ma_VA_950
ma_VA_956
ma_VA_957
ma_VA_960
ma_VA_962
ma_VA_963
ma_VA_964
ma_VA_967
ma_VA_968
ma_VA_969
ma_VA_97
ma_VA_970
ma_VA_971
ma_VA_973
ma_VA_975
ma_VA_976
ma_VA_977
ma_VA_98
ma_VA_981
ma_VA_982
ma_VA_983
ma_VA_984
ma_VA_985
ma_VA_986
ma_VA_987
ma_VA_988
ma_VA_989
ma_VA_99
ma_VA_990
ma_VA_992
ma_VA_993
ma_VA_995
ma_VA_997
ma_X_1
ma_X_10
ma_X_100
ma_X_1002
ma_X_1005
ma_X_1006
ma_X_1007
ma_X_1008
ma_X_1009
ma_X_101
ma_X_1010
ma_X_1011
ma_X_1012
ma_X_1016
1e−20
1e−10
0.001
0.1
0.1+

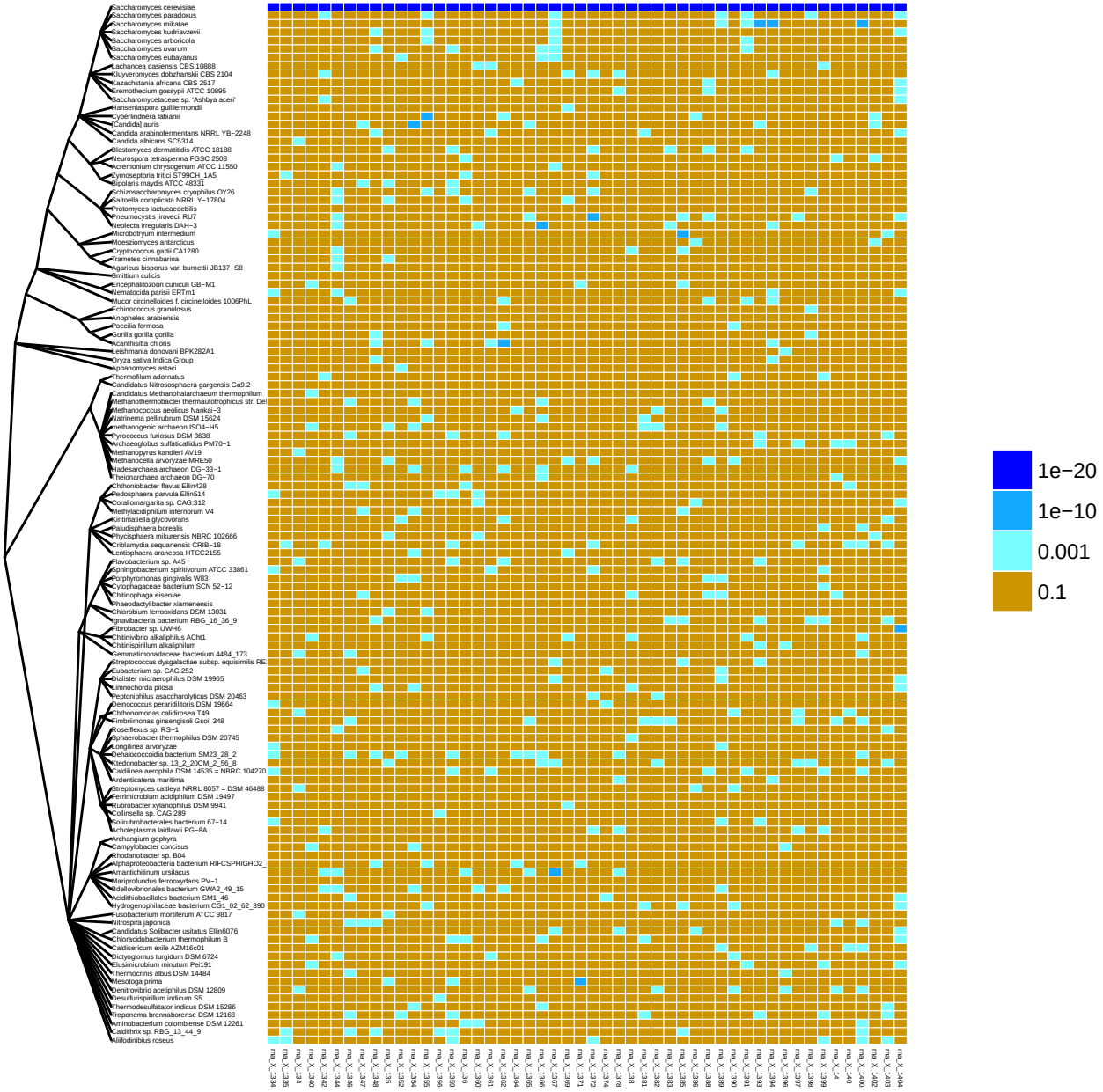

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrimydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Halifodinibius roseus
mu_X_1018
mu_X_1019
mu_X_1021
mu_X_1022
mu_X_1025
mu_X_1027
mu_X_1028
mu_X_1029
mu_X_1033
mu_X_1031
mu_X_1032
mu_X_1034
mu_X_1036
mu_X_1037
mu_X_1038
mu_X_1039
mu_X_1040
mu_X_1042
mu_X_1043
mu_X_1044
mu_X_1045
mu_X_1047
mu_X_1048
mu_X_1050
mu_X_1051
mu_X_1052
mu_X_1053
mu_X_1055
mu_X_1056
mu_X_1057
mu_X_1059
mu_X_1061
mu_X_1062
mu_X_1063
mu_X_1064
mu_X_1065
mu_X_1066
mu_X_1067
mu_X_1068
mu_X_1069
mu_X_1070
mu_X_1071
mu_X_1072
mu_X_1075
mu_X_1076
mu_X_1077
mu_X_1079
mu_X_1078
mu_X_1082
1e−20
1e−10
0.001
0.1
0.1+

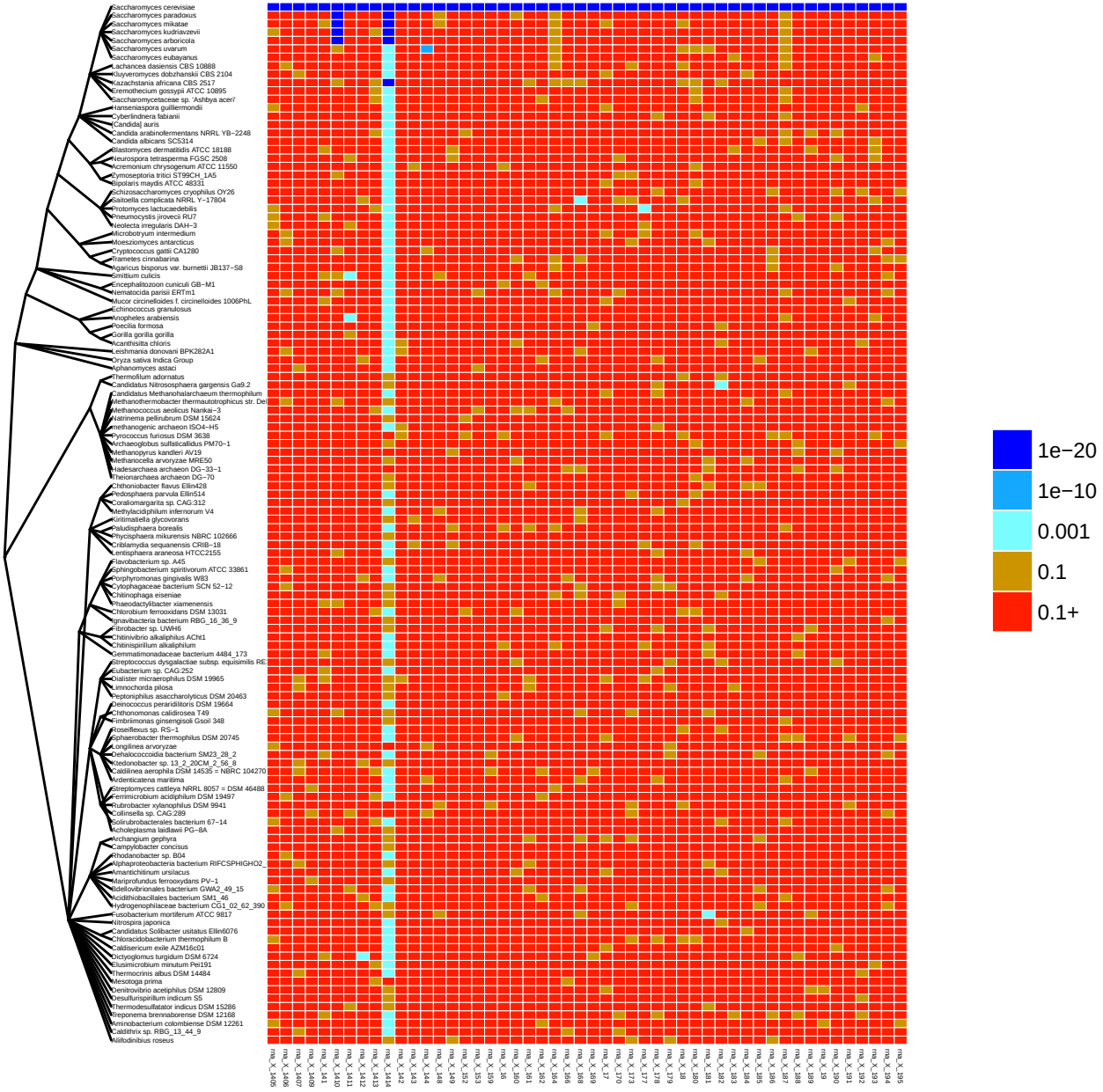

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens RMS011
Sporisorium reilianum SRZ2
Ustilago maydis 521
Rhodotorula mucilaginosa RIT-Y-0
Rhodotorula sp. JG1b
Rhodotorula graminis WP1
Rhodotorula toruloides NP11
Rhodotorula sp. CCFEE 5036
Rhodotorula sp. JG-1b
Rhodotorula sp. JGI-2011
Rhodotorula sp. JGI-2011 v2.0
Rhodotorula sp. JGI-2011 v3.0
Rhodotorula sp. JGI-2011 v4.0
Rhodotorula sp. JGI-2011 v5.0
Rhodotorula sp. JGI-2011 v6.0
Rhodotorula sp. JGI-2011 v7.0
Rhodotorula sp. JGI-2011 v8.0
Rhodotorula sp. JGI-2011 v9.0
Rhodotorula sp. JGI-2011 v10.0
Rhodotorula sp. JGI-2011 v11.0
Rhodotorula sp. JGI-2011 v12.0
Rhodotorula sp. JGI-2011 v13.0
Rhodotorula sp. JGI-2011 v14.0
Rhodotorula sp. JGI-2011 v15.0
Rhodotorula sp. JGI-2011 v16.0
Rhodotorula sp. JGI-2011 v17.0
Rhodotorula sp. JGI-2011 v18.0
Rhodotorula sp. JGI-2011 v19.0
Rhodotorula sp. JGI-2011 v20.0
Rhodotorula sp. JGI-2011 v21.0
Rhodotorula sp. JGI-2011 v22.0
Rhodotorula sp. JGI-2011 v23.0
Rhodotorula sp. JGI-2011 v24.0
Rhodotorula sp. JGI-2011 v25.0
Rhodotorula sp. JGI-2011 v26.0
Rhodotorula sp. JGI-2011 v27.0
Rhodotorula sp. JGI-2011 v28.0
Rhodotorula sp. JGI-2011 v29.0
Rhodotorula sp. JGI-2011 v30.0
Rhodotorula sp. JGI-2011 v31.0
Rhodotorula sp. JGI-2011 v32.0
Rhodotorula sp. JGI-2011 v33.0
Rhodotorula sp. JGI-2011 v34.0
Rhodotorula sp. JGI-2011 v35.0
Rhodotorula sp. JGI-2011 v36.0
Rhodotorula sp. JGI-2011 v37.0
Rhodotorula sp. JGI-2011 v38.0
Rhodotorula sp. JGI-2011 v39.0
Rhodotorula sp. JGI-2011 v40.0
Rhodotorula sp. JGI-2011 v41.0
Rhodotorula sp. JGI-2011 v42.0
Rhodotorula sp. JGI-2011 v43.0
Rhodotorula sp. JGI-2011 v44.0
Rhodotorula sp. JGI-2011 v45.0
Rhodotorula sp. JGI-2011 v46.0
Rhodotorula sp. JGI-2011 v47.0
Rhodotorula sp. JGI-2011 v48.0
Rhodotorula sp. JGI-2011 v49.0
Rhodotorula sp. JGI-2011 v50.0
Rhodotorula sp. JGI-2011 v51.0
Rhodotorula sp. JGI-2011 v52.0
Rhodotorula sp. JGI-2011 v53.0
Rhodotorula sp. JGI-2011 v54.0
Rhodotorula sp. JGI-2011 v55.0
Rhodotorula sp. JGI-2011 v56.0
Rhodotorula sp. JGI-2011 v57.0
Rhodotorula sp. JGI-2011 v58.0
Rhodotorula sp. JGI-2011 v59.0
Rhodotorula sp. JGI-2011 v60.0
Rhodotorula sp. JGI-2011 v61.0
Rhodotorula sp. JGI-2011 v62.0
Rhodotorula sp. JGI-2011 v63.0
Rhodotorula sp. JGI-2011 v64.0
Rhodotorula sp. JGI-2011 v65.0
Rhodotorula sp. JGI-2011 v66.0
Rhodotorula sp. JGI-2011 v67.0
Rhodotorula sp. JGI-2011 v68.0
Rhodotorula sp. JGI-2011 v69.0
Rhodotorula sp. JGI-2011 v70.0
Rhodotorula sp. JGI-2011 v71.0
Rhodotorula sp. JGI-2011 v72.0
Rhodotorula sp. JGI-2011 v73.0
Rhodotorula sp. JGI-2011 v74.0
Rhodotorula sp. JGI-2011 v75.0
Rhodotorula sp. JGI-2011 v76.0
Rhodotorula sp. JGI-2011 v77.0
Rhodotorula sp. JGI-2011 v78.0
Rhodotorula sp. JGI-2011 v79.0
Rhodotorula sp. JGI-2011 v80.0
Rhodotorula sp. JGI-2011 v81.0
Rhodotorula sp. JGI-2011 v82.0
Rhodotorula sp. JGI-2011 v83.0
Rhodotorula sp. JGI-2011 v84.0
Rhodotorula sp. JGI-2011 v85.0
Rhodotorula sp. JGI-2011 v86.0
Rhodotorula sp. JGI-2011 v87.0
Rhodotorula sp. JGI-2011 v88.0
Rhodotorula sp. JGI-2011 v89.0
Rhodotorula sp. JGI-2011 v90.0
Rhodotorula sp. JGI-2011 v91.0
Rhodotorula sp. JGI-2011 v92.0
Rhodotorula sp. JGI-2011 v93.0
Rhodotorula sp. JGI-2011 v94.0
Rhodotorula sp. JGI-2011 v95.0
Rhodotorula sp. JGI-2011 v96.0
Rhodotorula sp. JGI-2011 v97.0
Rhodotorula sp. JGI-2011 v98.0
Rhodotorula sp. JGI-2011 v99.0
Rhodotorula sp. JGI-2011 v100.0
Rhodotorula sp. JGI-2011 v101.0
Rhodotorula sp. JGI-2011 v102.0
Rhodotorula sp. JGI-2011 v103.0
Rhodotorula sp. JGI-2011 v104.0
Rhodotorula sp. JGI-2011 v105.0
Rhodotorula sp. JGI-2011 v106.0
Rhodotorula sp. JGI-2011 v107.0
Rhodotorula sp. JGI-2011 v108.0
Rhodotorula sp. JGI-2011 v109.0
Rhodotorula sp. JGI-2011 v110.0
Rhodotorula sp. JGI-2011 v111.0
Rhodotorula sp. JGI-2011 v112.0
Rhodotorula sp. JGI-2011 v113.0
Rhodotorula sp. JGI-2011 v114.0
Rhodotorula sp. JGI-2011 v115.0
Rhodotorula sp. JGI-2011 v116.0
Rhodotorula sp. JGI-2011 v117.0
Rhodotorula sp. JGI-2011 v118.0
Rhodotorula sp. JGI-2011 v119.0
Rhodotorula sp. JGI-2011 v120.0
Rhodotorula sp. JGI-2011 v121.0
Rhodotorula sp. JGI-2011 v122.0
Rhodotorula sp. JGI-2011 v123.0
Rhodotorula sp. JGI-2011 v124.0
Rhodotorula sp. JGI-2011 v125.0
Rhodotorula sp. JGI-2011 v126.0
Rhodotorula sp. JGI-2011 v127.0
Rhodotorula sp. JGI-2011 v128.0
Rhodotorula sp. JGI-2011 v129.0
Rhodotorula sp. JGI-2011 v130.0
Rhodotorula sp. JGI-2011 v131.0
Rhodotorula sp. JGI-2011 v132.0
Rhodotorula sp. JGI-2011 v133.0
Rhodotorula sp. JGI-2011 v134.0
Rhodotorula sp. JGI-2011 v135.0
Rhodotorula sp. JGI-2011 v136.0
Rhodotorula sp. JGI-2011 v137.0
Rhodotorula sp. JGI-2011 v138.0
Rhodotorula sp. JGI-2011 v139.0
Rhodotorula sp. JGI-2011 v140.0
Rhodotorula sp. JGI-2011 v141.0
Rhodotorula sp. JGI-2011 v142.0
Rhodotorula sp. JGI-2011 v143.0
Rhodotorula sp. JGI-2011 v144.0
Rhodotorula sp. JGI-2011 v145.0
Rhodotorula sp. JGI-2011 v146.0
1e−20
1e−10
0.001
0.1
0.1+

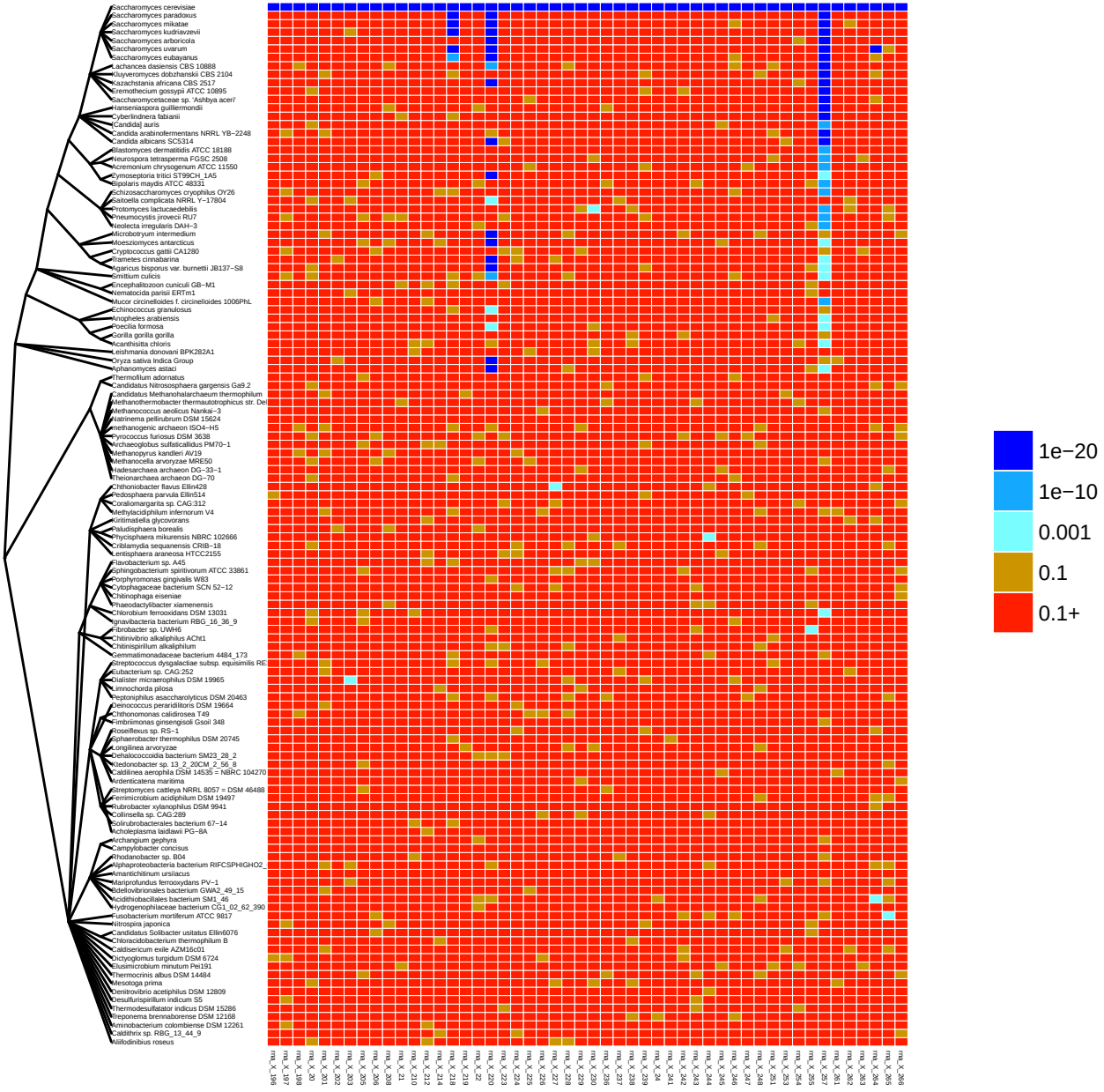

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Rhabdochlamydia porcinigenitalis
Candidatus Rickettsiella isopodorum
Candidatus Rickettsiella grylli
Candidatus Rickettsiella endosymbiont of Ixodes
Candidatus Rickettsiella endosymbiont of Ixodes
Candidatus Rickettsiella endosymbiont of Ixodes

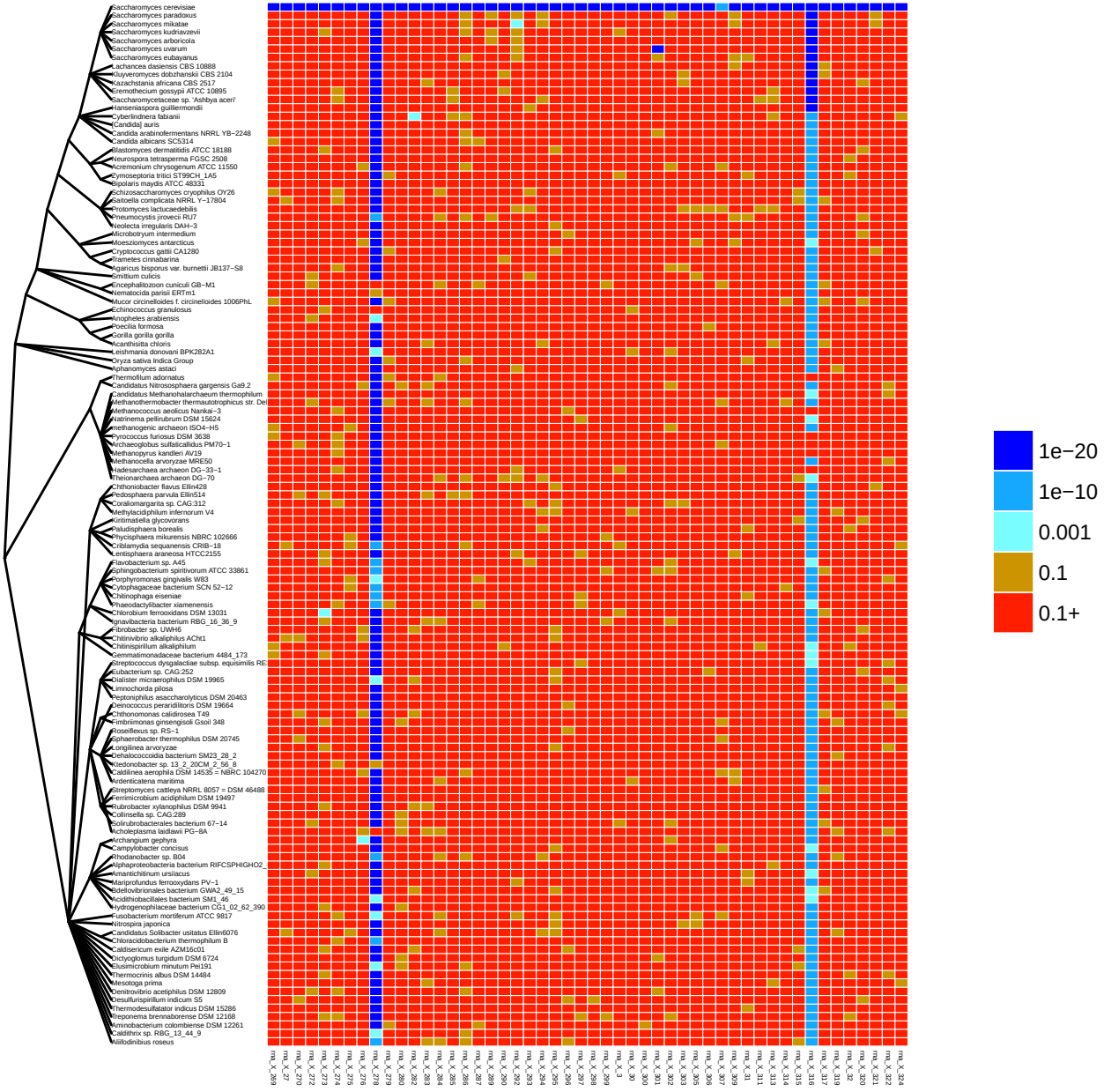

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X_1201
ma_X_1202
ma_X_1203
ma_X_1205
ma_X_1206
ma_X_1207
ma_X_1208
ma_X_1209
ma_X_1211
ma_X_1210
ma_X_1212
ma_X_1213
ma_X_1214
ma_X_1217
ma_X_1218
ma_X_1222
ma_X_1221
ma_X_1222
ma_X_1223
ma_X_1224
ma_X_1225
ma_X_1226
ma_X_1228
ma_X_1229
ma_X_1230
ma_X_1231
ma_X_1232
ma_X_1233
ma_X_1234
ma_X_1235
ma_X_1236
ma_X_1237
ma_X_1240
ma_X_1241
ma_X_1242
ma_X_1247
ma_X_1248
ma_X_1255
ma_X_1253
ma_X_1254
ma_X_1255
ma_X_1256
ma_X_1257
ma_X_1259
ma_X_1260
ma_X_1261
ma_X_1262
ma_X_1263
1e−20
1e−10
0.001
0.1

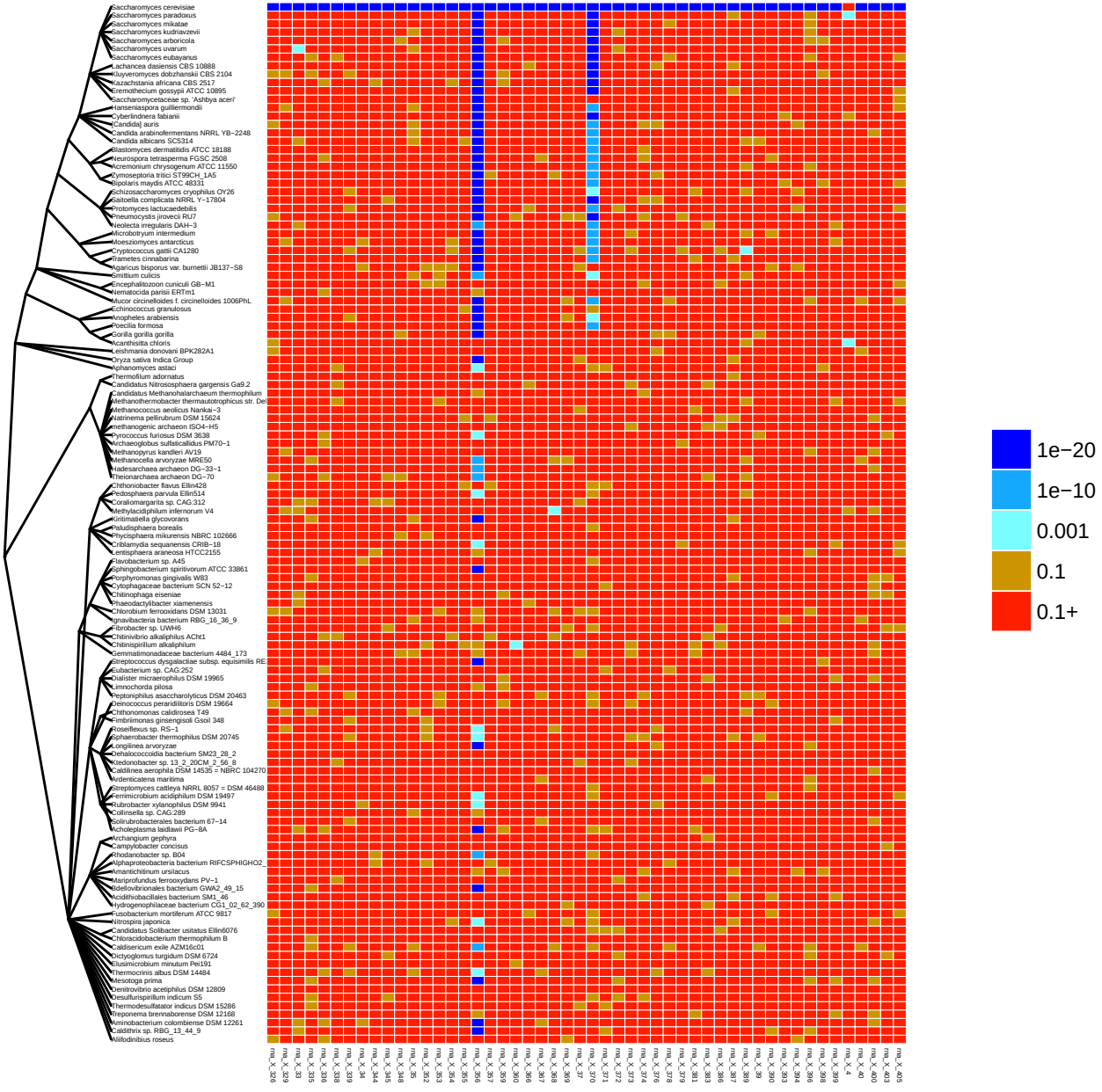

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_X_1264
ma_X_1267
ma_X_1268
ma_X_1269
ma_X_1271
ma_X_1272
ma_X_1273
ma_X_1274
ma_X_1275
ma_X_1278
ma_X_128
ma_X_1280
ma_X_1281
ma_X_1282
ma_X_1285
ma_X_1286
ma_X_1287
ma_X_1288
ma_X_1289
ma_X_129
ma_X_1290
ma_X_1292
ma_X_1293
ma_X_1294
ma_X_1295
ma_X_1296
ma_X_1299
ma_X_13
ma_X_130
ma_X_1300
ma_X_1301
ma_X_1306
ma_X_1308
ma_X_1309
ma_X_131
ma_X_1311
ma_X_1312
ma_X_1313
ma_X_1315
ma_X_1317
ma_X_1319
ma_X_132
ma_X_1322
ma_X_1323
ma_X_1324
ma_X_1326
ma_X_1328
ma_X_1329
ma_X_1331
ma_X_1332
1e−20
1e−10
0.001
0.1
0.1+

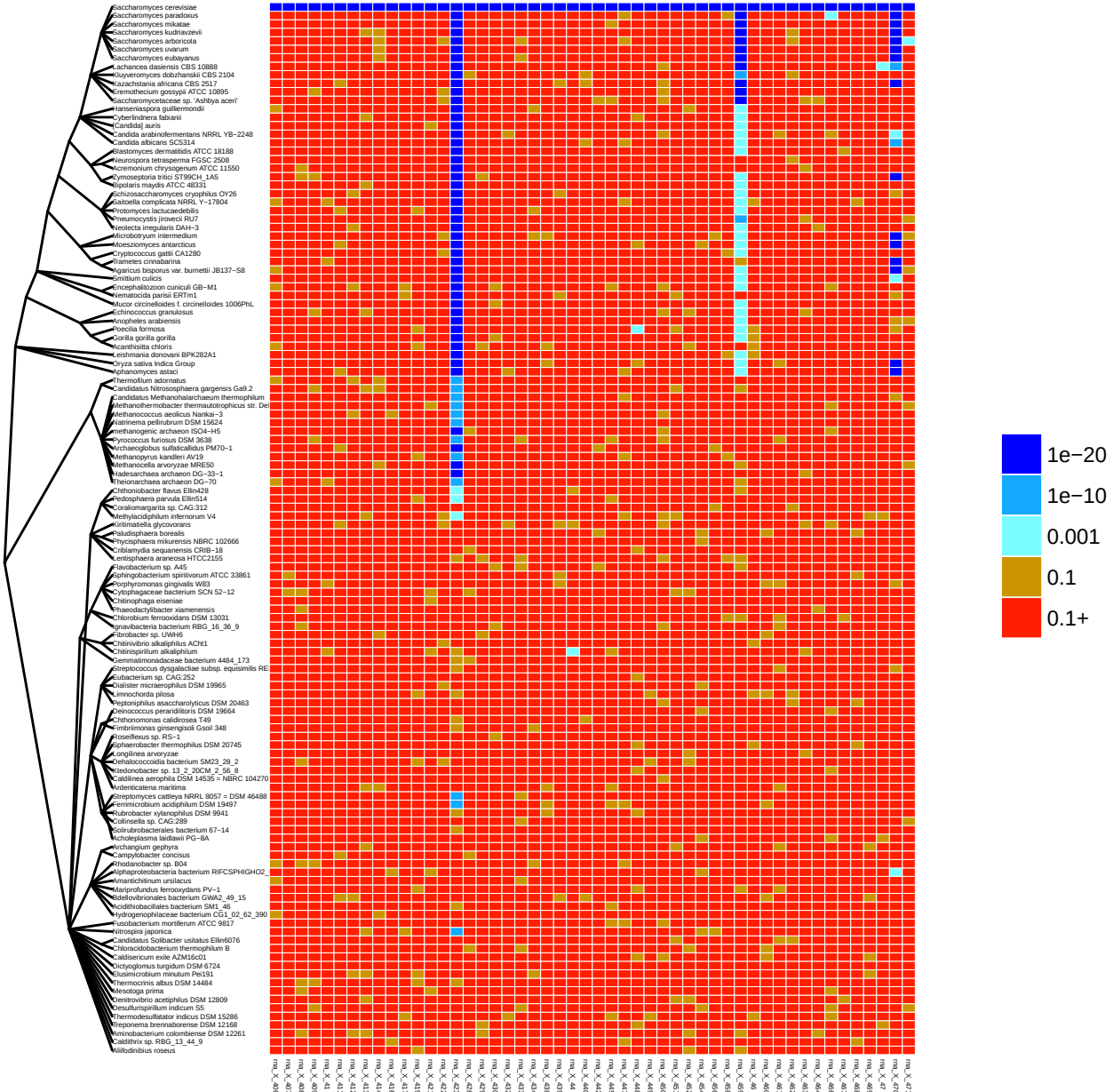

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
mu_X_1334
mu_X_1335
mu_X_134
mu_X_1340
mu_X_1342
mu_X_1344
mu_X_1346
mu_X_1347
mu_X_1348
mu_X_135
mu_X_1352
mu_X_1354
mu_X_1355
mu_X_1356
mu_X_1359
mu_X_136
mu_X_1360
mu_X_1361
mu_X_1362
mu_X_1364
mu_X_1365
mu_X_1366
mu_X_1367
mu_X_1369
mu_X_1371
mu_X_1372
mu_X_1374
mu_X_1378
mu_X_139
mu_X_1381
mu_X_1382
mu_X_1383
mu_X_1385
mu_X_1386
mu_X_1388
mu_X_1389
mu_X_1390
mu_X_1391
mu_X_1393
mu_X_1394
mu_X_1396
mu_X_1397
mu_X_1398
mu_X_1399
mu_X_14
mu_X_1400
mu_X_1402
mu_X_1403
mu_X_1404
1e−20
1e−10
0.001
0.1

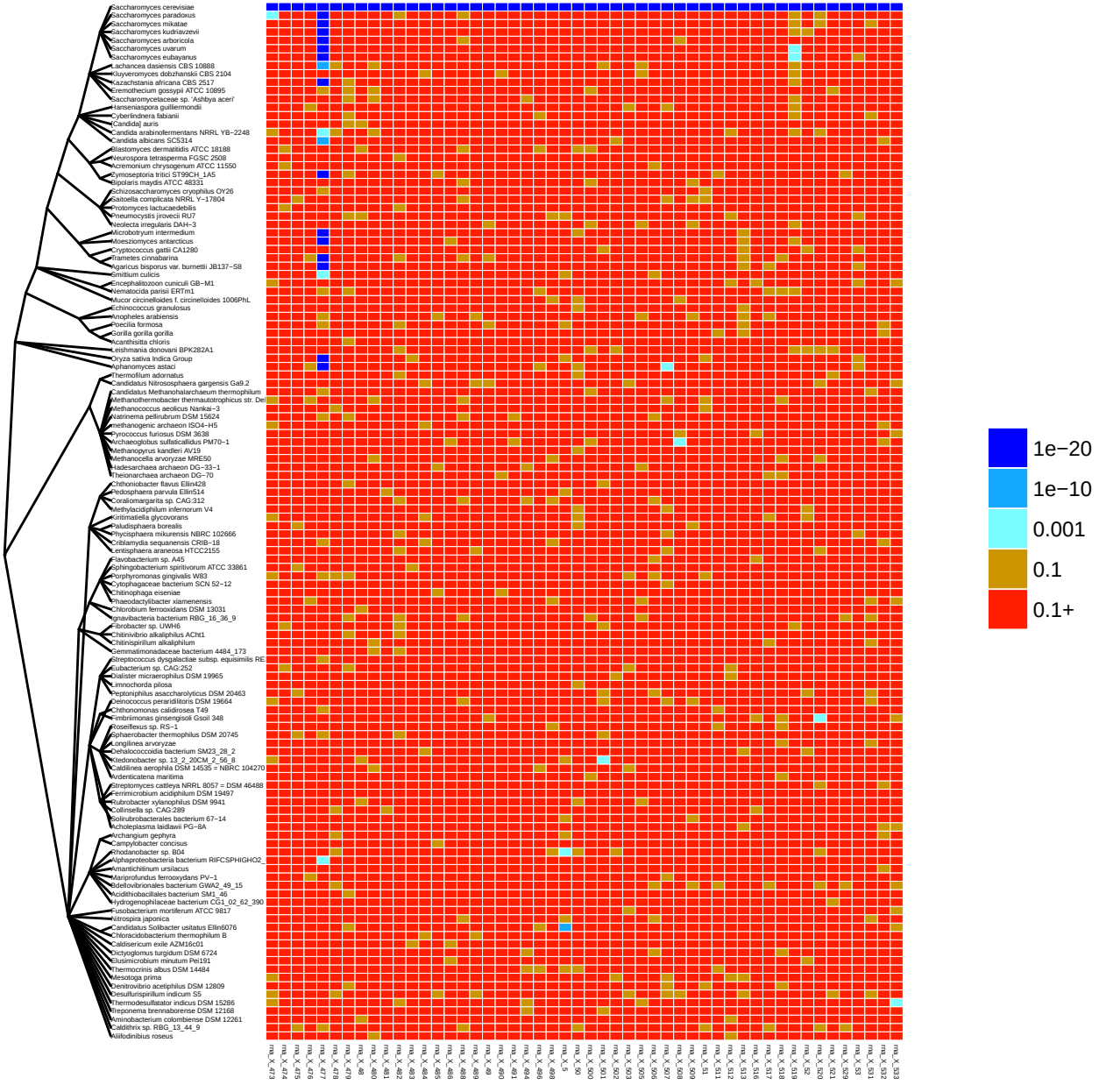

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
rna_X_1405
rna_X_1406
rna_X_1407
rna_X_1409
rna_X_141
rna_X_1410
rna_X_1411
rna_X_1412
rna_X_1413
rna_X_1414
rna_X_142
rna_X_143
rna_X_144
rna_X_148
rna_X_149
rna_X_152
rna_X_153
rna_X_159
rna_X_16
rna_X_160
rna_X_161
rna_X_162
rna_X_164
rna_X_166
rna_X_168
rna_X_169
rna_X_17
rna_X_170
rna_X_173
rna_X_177
rna_X_178
rna_X_179
rna_X_18
rna_X_180
rna_X_181
rna_X_182
rna_X_183
rna_X_184
rna_X_185
rna_X_186
rna_X_187
rna_X_188
rna_X_189
rna_X_19
rna_X_190
rna_X_191
rna_X_192
rna_X_193
rna_X_194
rna_X_195
1e−20
1e−10
0.001
0.1
0.1+

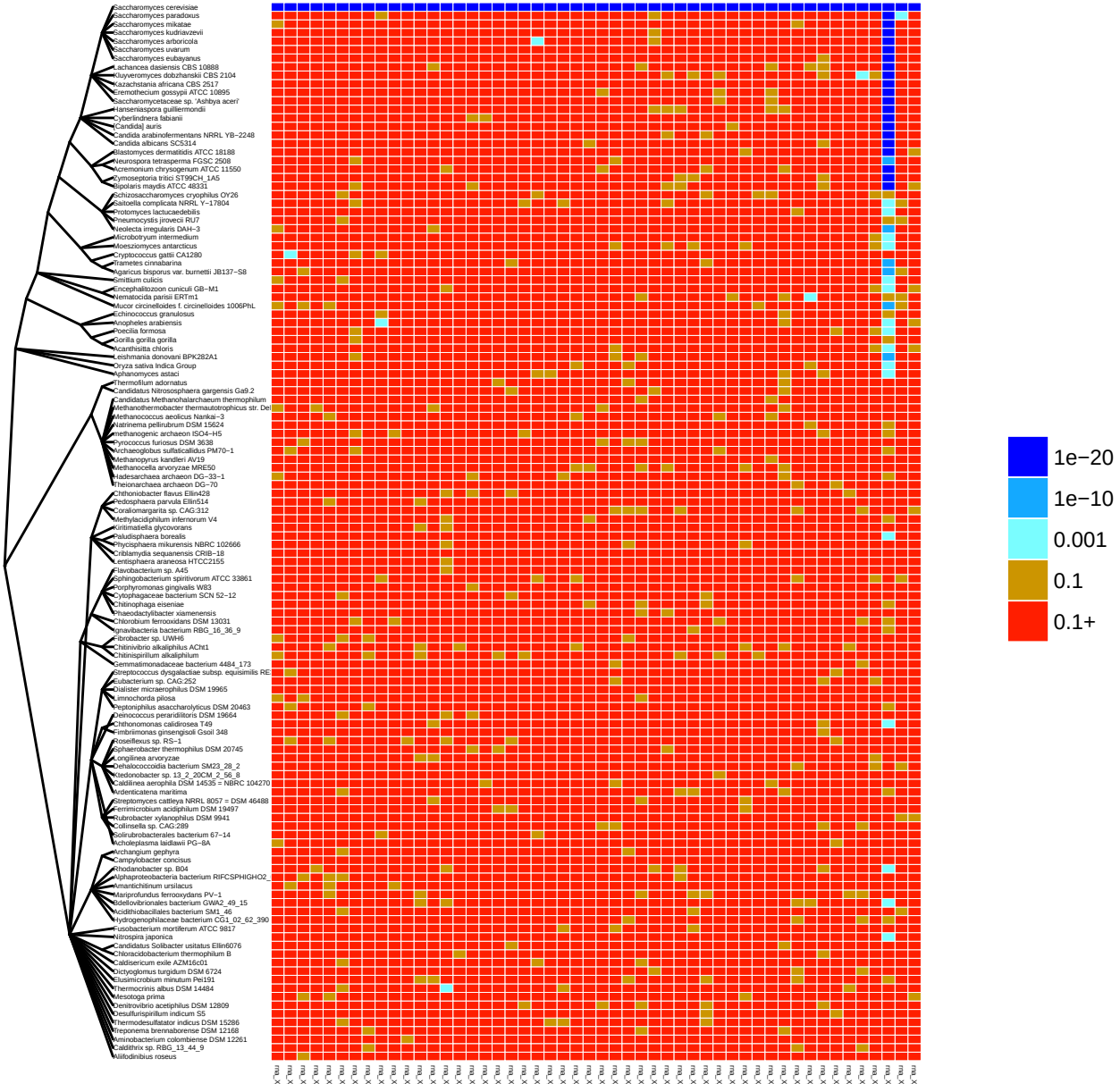

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
rna_X_196
rna_X_197
rna_X_199
rna_X_20
rna_X_201
rna_X_202
rna_X_203
rna_X_205
rna_X_206
rna_X_208
rna_X_21
rna_X_210
rna_X_212
rna_X_214
rna_X_218
rna_X_219
rna_X_22
rna_X_220
rna_X_223
rna_X_224
rna_X_225
rna_X_226
rna_X_227
rna_X_228
rna_X_229
rna_X_230
rna_X_236
rna_X_237
rna_X_238
rna_X_239
rna_X_24
rna_X_241
rna_X_242
rna_X_243
rna_X_244
rna_X_245
rna_X_246
rna_X_247
rna_X_248
rna_X_251
rna_X_253
rna_X_254
rna_X_255
rna_X_257
rna_X_261
rna_X_262
rna_X_263
rna_X_264
rna_X_265
rna_X_266
1e−20
1e−10
0.001
0.1
0.1+

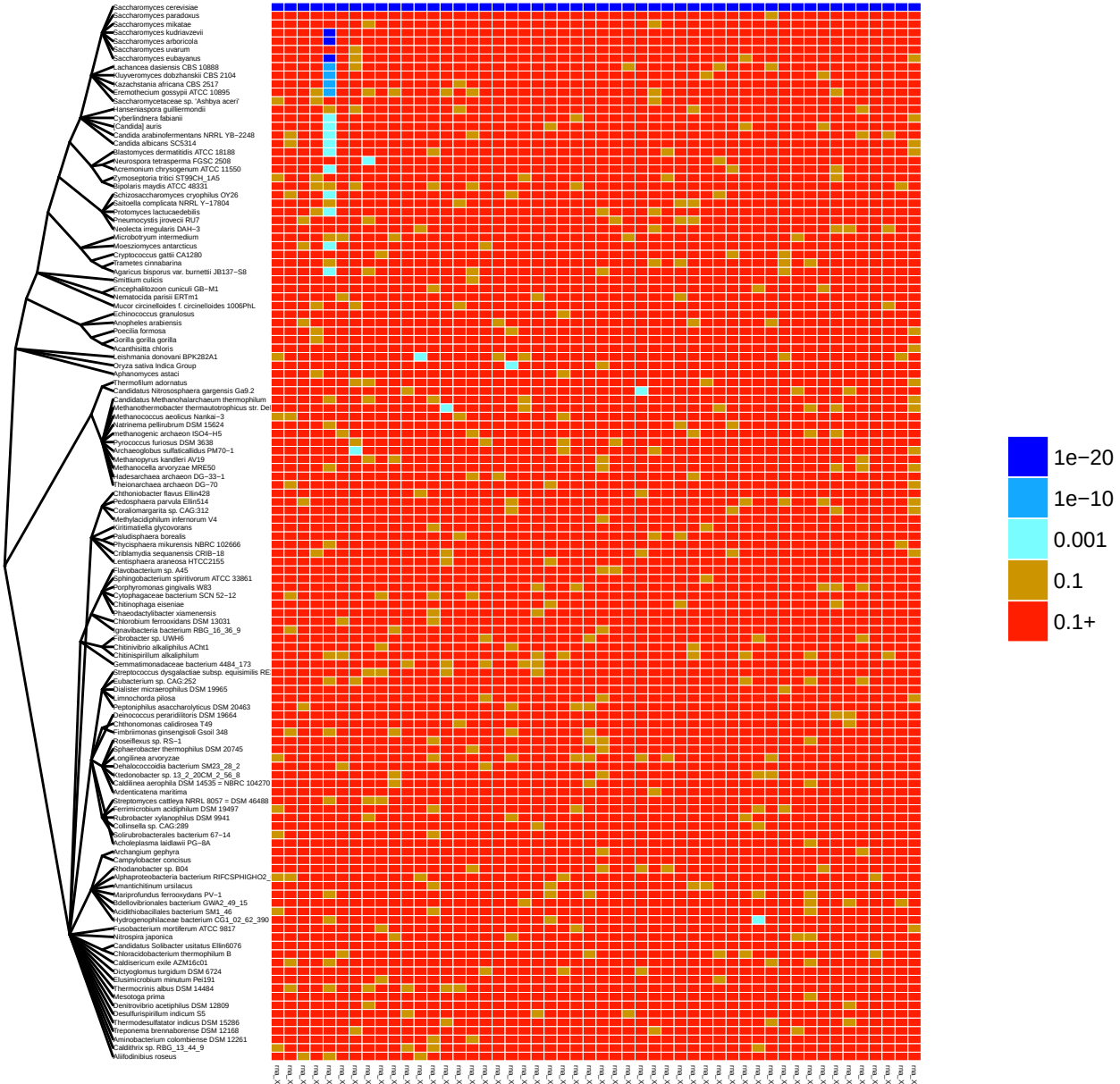

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X_269
ma_X_27
ma_X_270
ma_X_272
ma_X_273
ma_X_274
ma_X_275
ma_X_276
ma_X_278
ma_X_279
ma_X_280
ma_X_282
ma_X_283
ma_X_284
ma_X_285
ma_X_286
ma_X_287
ma_X_289
ma_X_290
ma_X_292
ma_X_293
ma_X_294
ma_X_295
ma_X_296
ma_X_297
ma_X_298
ma_X_299
ma_X_3
ma_X_30
ma_X_300
ma_X_301
ma_X_302
ma_X_303
ma_X_305
ma_X_306
ma_X_307
ma_X_309
ma_X_31
ma_X_311
ma_X_313
ma_X_314
ma_X_315
ma_X_316
ma_X_317
ma_X_319
ma_X_32
ma_X_320
ma_X_321
ma_X_322
ma_X_324
1e−20
1e−10
0.001
0.1
0.1+

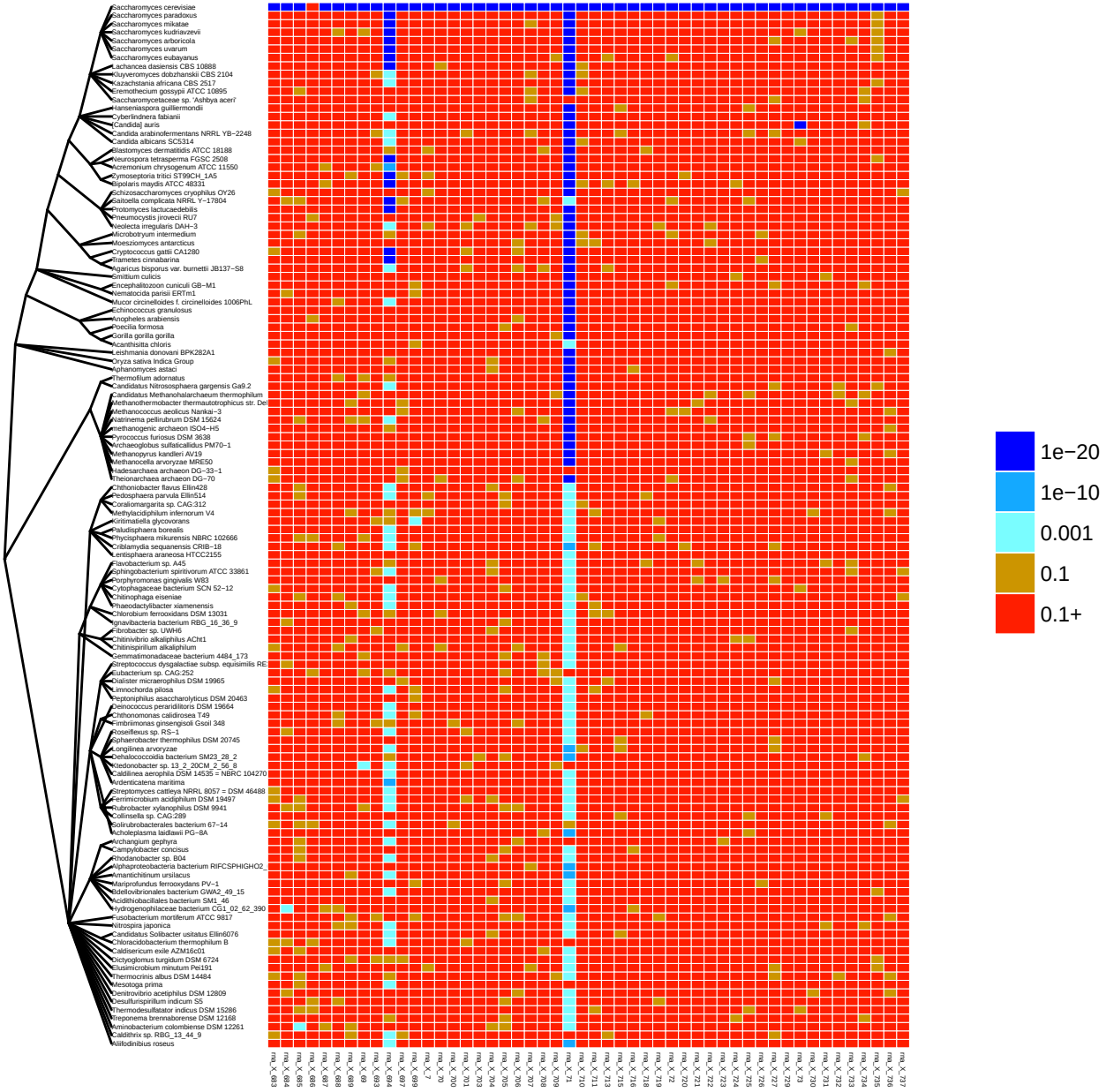

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X_326
ma_X_329
ma_X_33
ma_X_335
ma_X_336
ma_X_338
ma_X_339
ma_X_34
ma_X_344
ma_X_345
ma_X_348
ma_X_35
ma_X_352
ma_X_353
ma_X_354
ma_X_355
ma_X_356
ma_X_357
ma_X_359
ma_X_360
ma_X_366
ma_X_367
ma_X_368
ma_X_369
ma_X_37
ma_X_370
ma_X_371
ma_X_372
ma_X_373
ma_X_374
ma_X_376
ma_X_378
ma_X_379
ma_X_381
ma_X_383
ma_X_386
ma_X_387
ma_X_389
ma_X_39
ma_X_390
ma_X_393
ma_X_394
ma_X_396
ma_X_398
ma_X_399
ma_X_4
ma_X_40
ma_X_400
ma_X_403
ma_X_405
1e−20
1e−10
0.001
0.1
0.1+

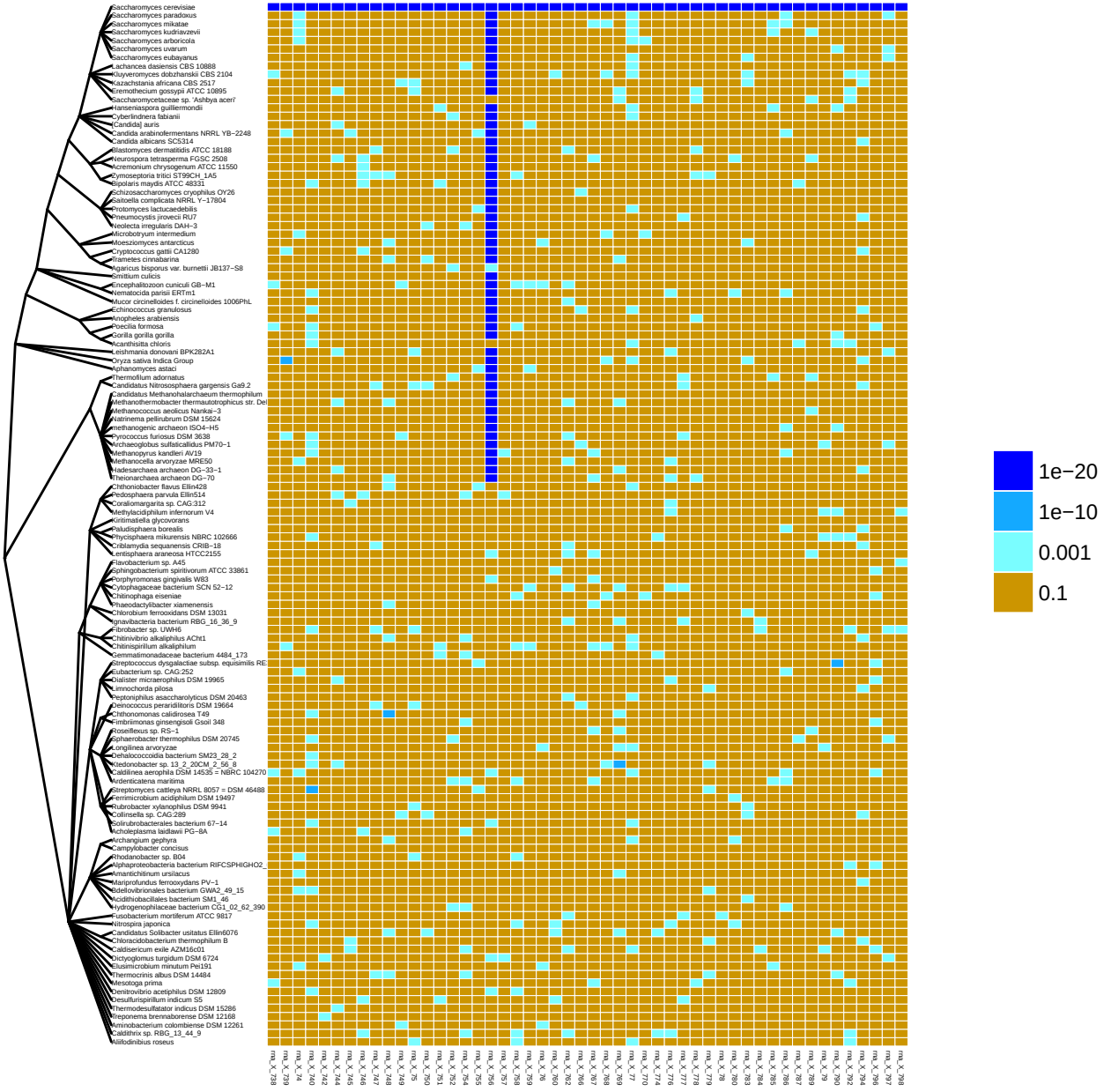

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_X_406
ma_X_407
ma_X_409
ma_X_409
ma_X_41
ma_X_411
ma_X_412
ma_X_413
ma_X_414
ma_X_416
ma_X_417
ma_X_419
ma_X_421
ma_X_422
ma_X_423
ma_X_428
ma_X_429
ma_X_430
ma_X_432
ma_X_433
ma_X_434
ma_X_438
ma_X_439
ma_X_44
ma_X_440
ma_X_442
ma_X_445
ma_X_447
ma_X_448
ma_X_449
ma_X_450
ma_X_451
ma_X_452
ma_X_454
ma_X_456
ma_X_458
ma_X_459
ma_X_46
ma_X_460
ma_X_461
ma_X_462
ma_X_463
ma_X_464
ma_X_466
ma_X_467
ma_X_468
ma_X_469
ma_X_47
ma_X_470
ma_X_471
1e−20
1e−10
0.001
0.1
0.1+

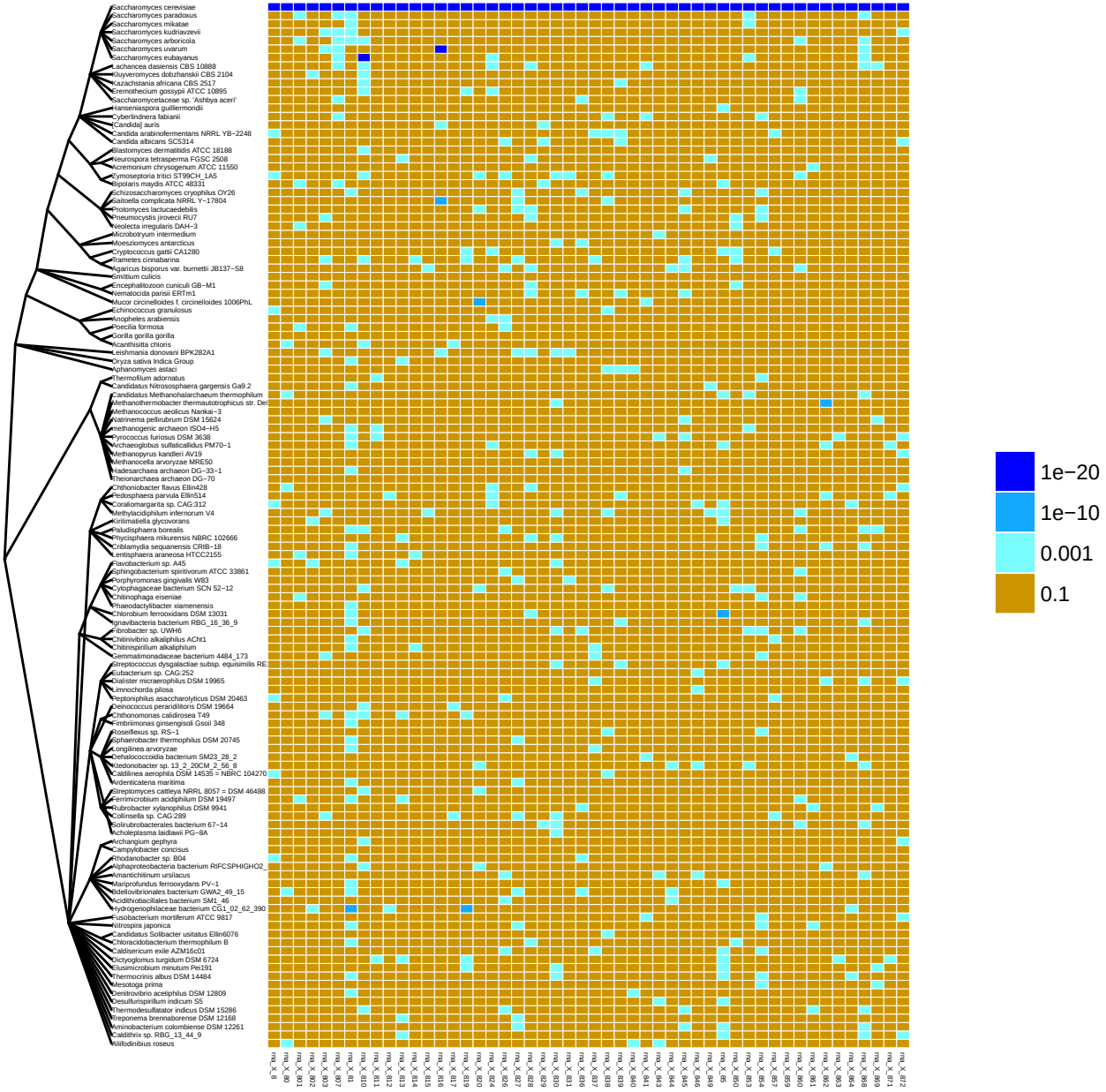

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eisenia
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_X_473
ma_X_474
ma_X_475
ma_X_476
ma_X_477
ma_X_478
ma_X_479
ma_X_48
ma_X_480
ma_X_481
ma_X_482
ma_X_483
ma_X_484
ma_X_485
ma_X_486
ma_X_488
ma_X_489
ma_X_49
ma_X_490
ma_X_491
ma_X_494
ma_X_496
ma_X_498
ma_X_5
ma_X_50
ma_X_500
ma_X_501
ma_X_502
ma_X_503
ma_X_505
ma_X_506
ma_X_507
ma_X_508
ma_X_509
ma_X_51
ma_X_511
ma_X_512
ma_X_513
ma_X_516
ma_X_517
ma_X_518
ma_X_519
ma_X_52
ma_X_520
ma_X_521
ma_X_529
ma_X_53
ma_X_531
ma_X_532
ma_X_533
1e−20
1e−10
0.001
0.1
0.1+

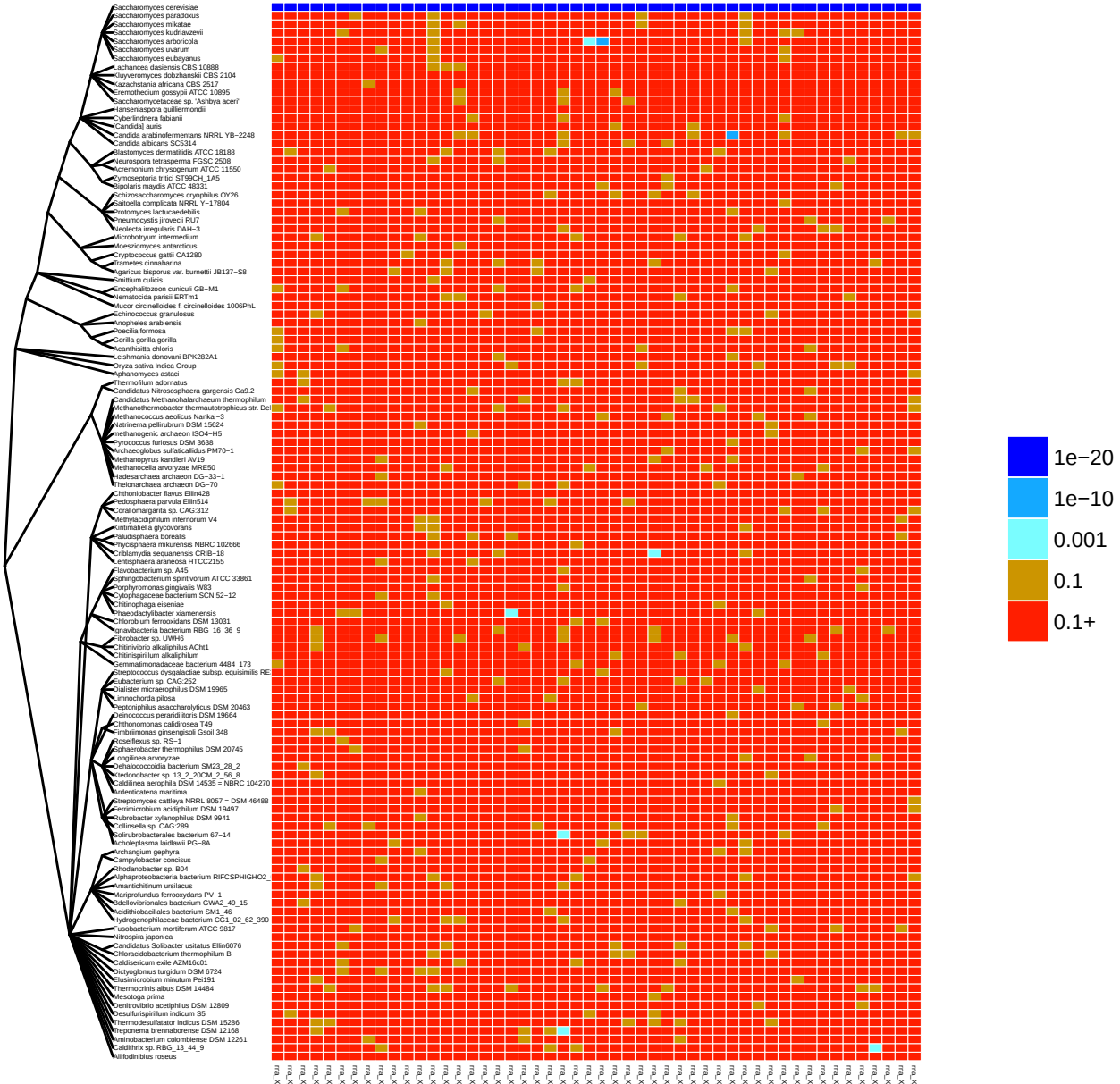

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_X_535
mu_X_539
mu_X_54
mu_X_540
mu_X_543
mu_X_544
mu_X_546
mu_X_547
mu_X_549
mu_X_55
mu_X_550
mu_X_552
mu_X_555
mu_X_557
mu_X_558
mu_X_559
mu_X_56
mu_X_560
mu_X_561
mu_X_563
mu_X_564
mu_X_565
mu_X_566
mu_X_569
mu_X_572
mu_X_574
mu_X_575
mu_X_576
mu_X_577
mu_X_578
mu_X_581
mu_X_582
mu_X_586
mu_X_587
mu_X_588
mu_X_589
mu_X_59
mu_X_591
mu_X_592
mu_X_593
mu_X_595
mu_X_597
mu_X_599
mu_X_6
mu_X_60
mu_X_000
mu_X_001
mu_X_606
mu_X_608
mu_X_609
1e−20
1e−10
0.001
0.1
0.1+

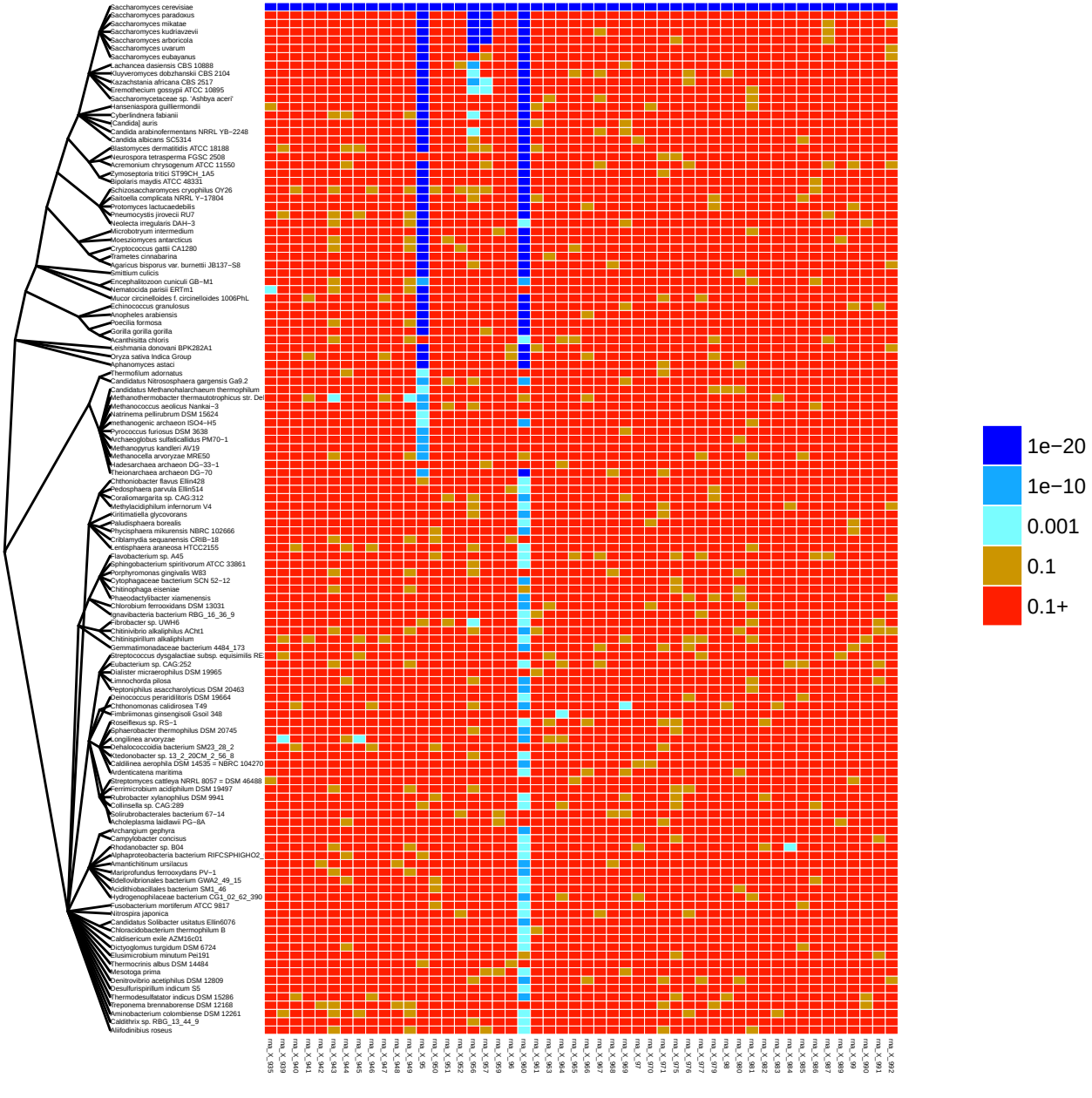

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonio bacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

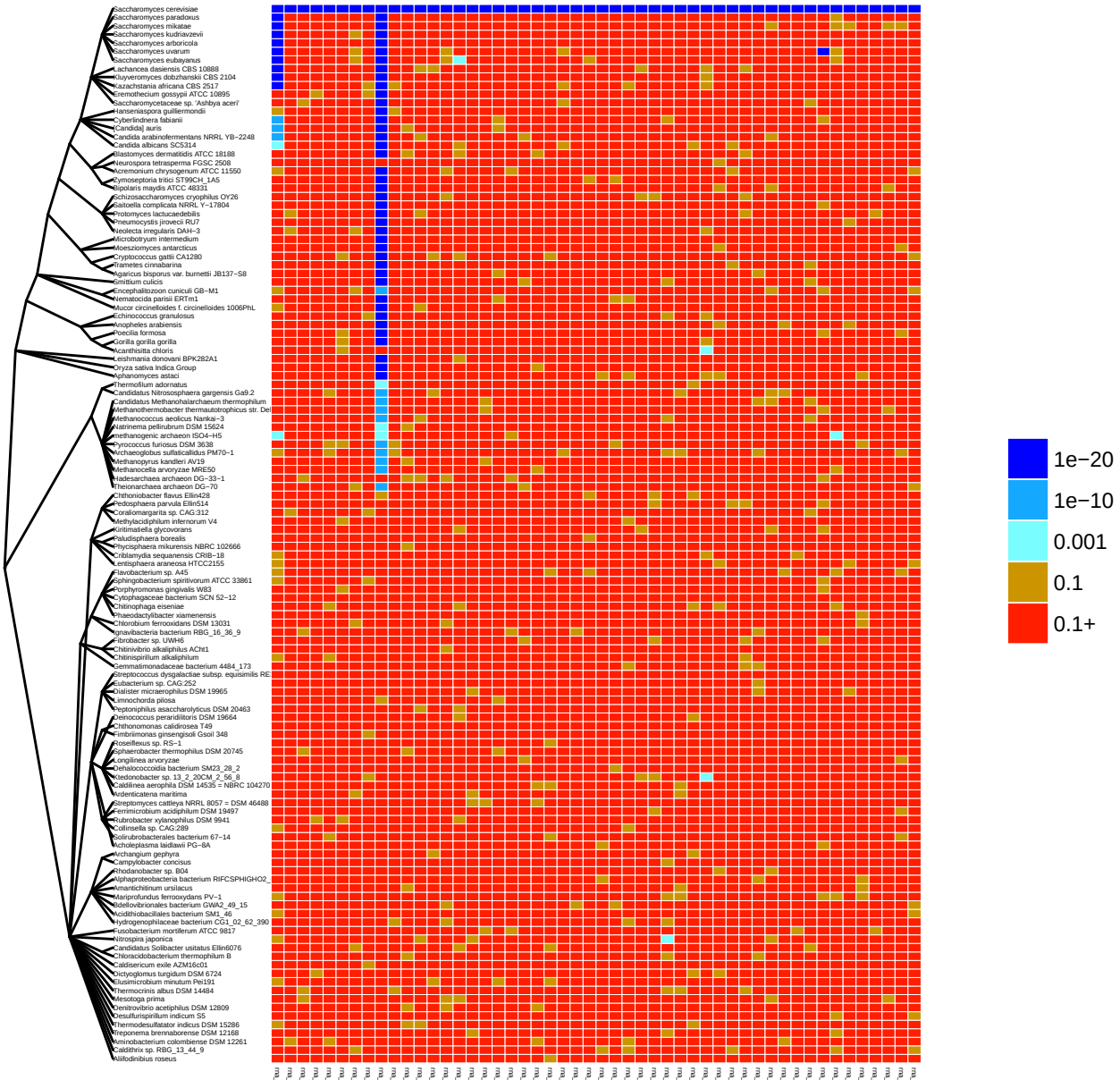

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X_683
ma_X_684
ma_X_685
ma_X_686
ma_X_687
ma_X_688
ma_X_689
ma_X_69
ma_X_693
ma_X_694
ma_X_697
ma_X_699
ma_X_7
ma_X_70
ma_X_700
ma_X_701
ma_X_703
ma_X_704
ma_X_705
ma_X_706
ma_X_707
ma_X_708
ma_X_709
ma_X_71
ma_X_710
ma_X_711
ma_X_713
ma_X_715
ma_X_716
ma_X_718
ma_X_719
ma_X_72
ma_X_720
ma_X_721
ma_X_722
ma_X_723
ma_X_724
ma_X_725
ma_X_726
ma_X_727
ma_X_729
ma_X_73
ma_X_730
ma_X_731
ma_X_732
ma_X_733
ma_X_734
ma_X_735
ma_X_736
ma_X_737
1e−20
1e−10
0.001
0.1
0.1+

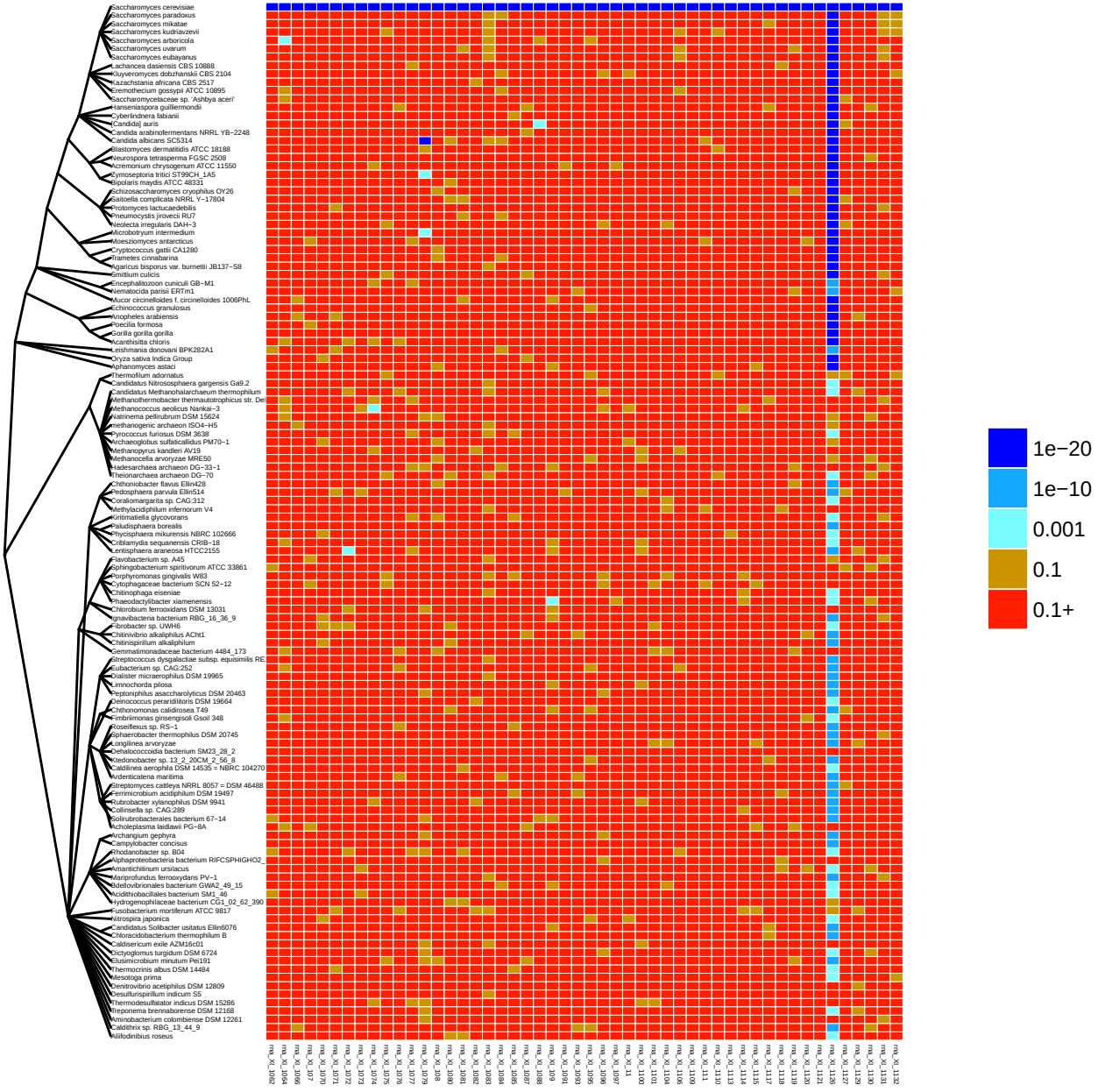

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_X_738
ma_X_739
ma_X_74
ma_X_740
ma_X_742
ma_X_744
ma_X_745
ma_X_746
ma_X_747
ma_X_748
ma_X_749
ma_X_75
ma_X_750
ma_X_751
ma_X_752
ma_X_754
ma_X_755
ma_X_756
ma_X_757
ma_X_758
ma_X_759
ma_X_76
ma_X_760
ma_X_762
ma_X_766
ma_X_767
ma_X_768
ma_X_769
ma_X_77
ma_X_770
ma_X_774
ma_X_776
ma_X_777
ma_X_778
ma_X_779
ma_X_78
ma_X_780
ma_X_783
ma_X_784
ma_X_785
ma_X_786
ma_X_787
ma_X_789
ma_X_79
ma_X_790
ma_X_792
ma_X_794
ma_X_796
ma_X_797
ma_X_798
1e−20
1e−10
0.001
0.1

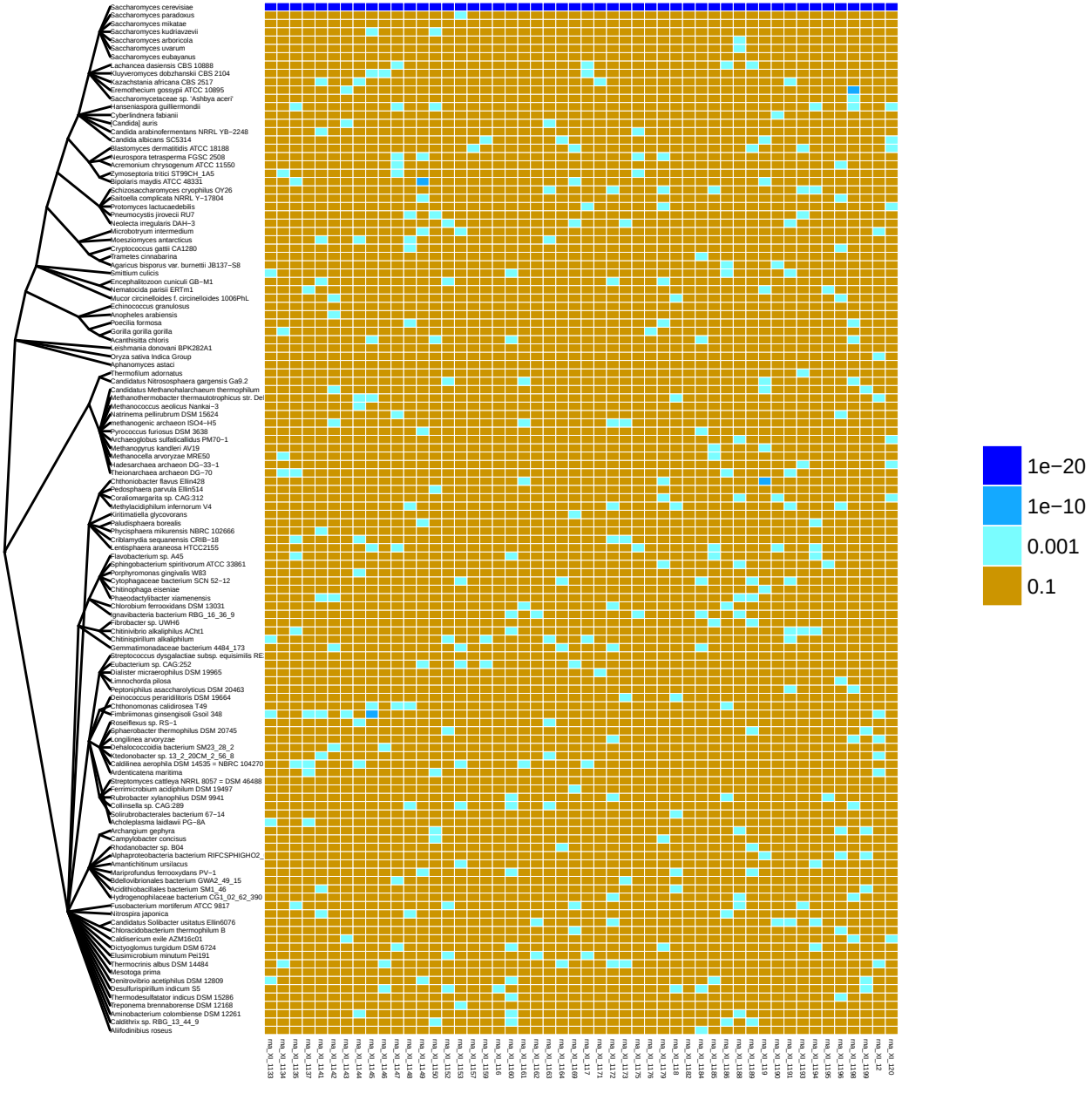

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1

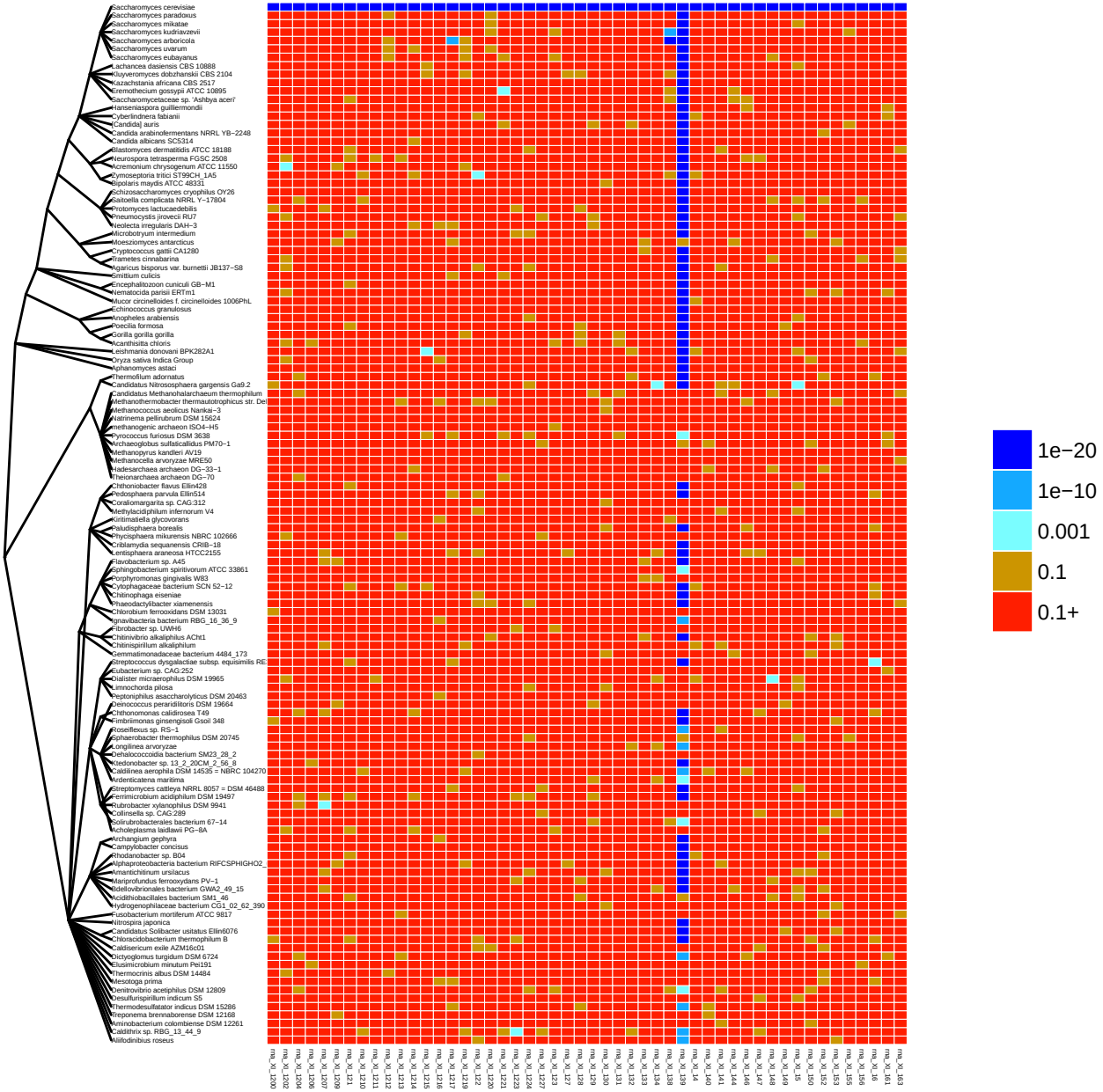

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_X_876
mu_X_877
mu_X_879
mu_X_880
mu_X_881
mu_X_882
mu_X_883
mu_X_884
mu_X_885
mu_X_886
mu_X_887
mu_X_888
mu_X_889
mu_X_890
mu_X_892
mu_X_893
mu_X_894
mu_X_895
mu_X_896
mu_X_897
mu_X_898
mu_X_899
mu_X_9
mu_X_90
mu_X_901
mu_X_903
mu_X_904
mu_X_905
mu_X_906
mu_X_907
mu_X_908
mu_X_909
mu_X_91
mu_X_910
mu_X_912
mu_X_913
mu_X_915
mu_X_916
mu_X_917
mu_X_918
mu_X_919
mu_X_920
mu_X_923
mu_X_924
mu_X_925
mu_X_927
mu_X_928
mu_X_929
mu_X_93
mu_X_932
mu_X_933
mu_X_934
1e−20
1e−10
0.001
0.1
0.1+

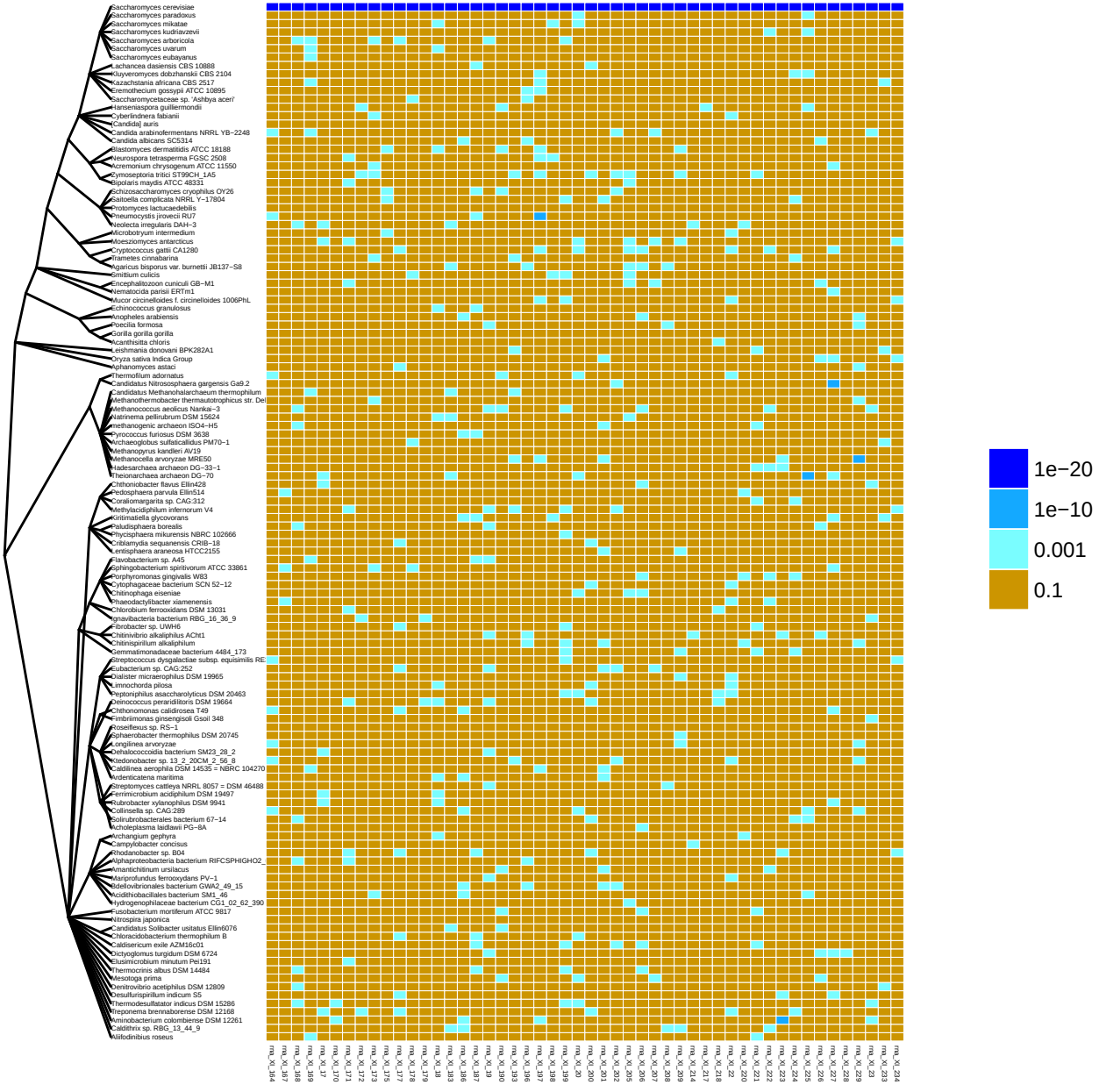

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

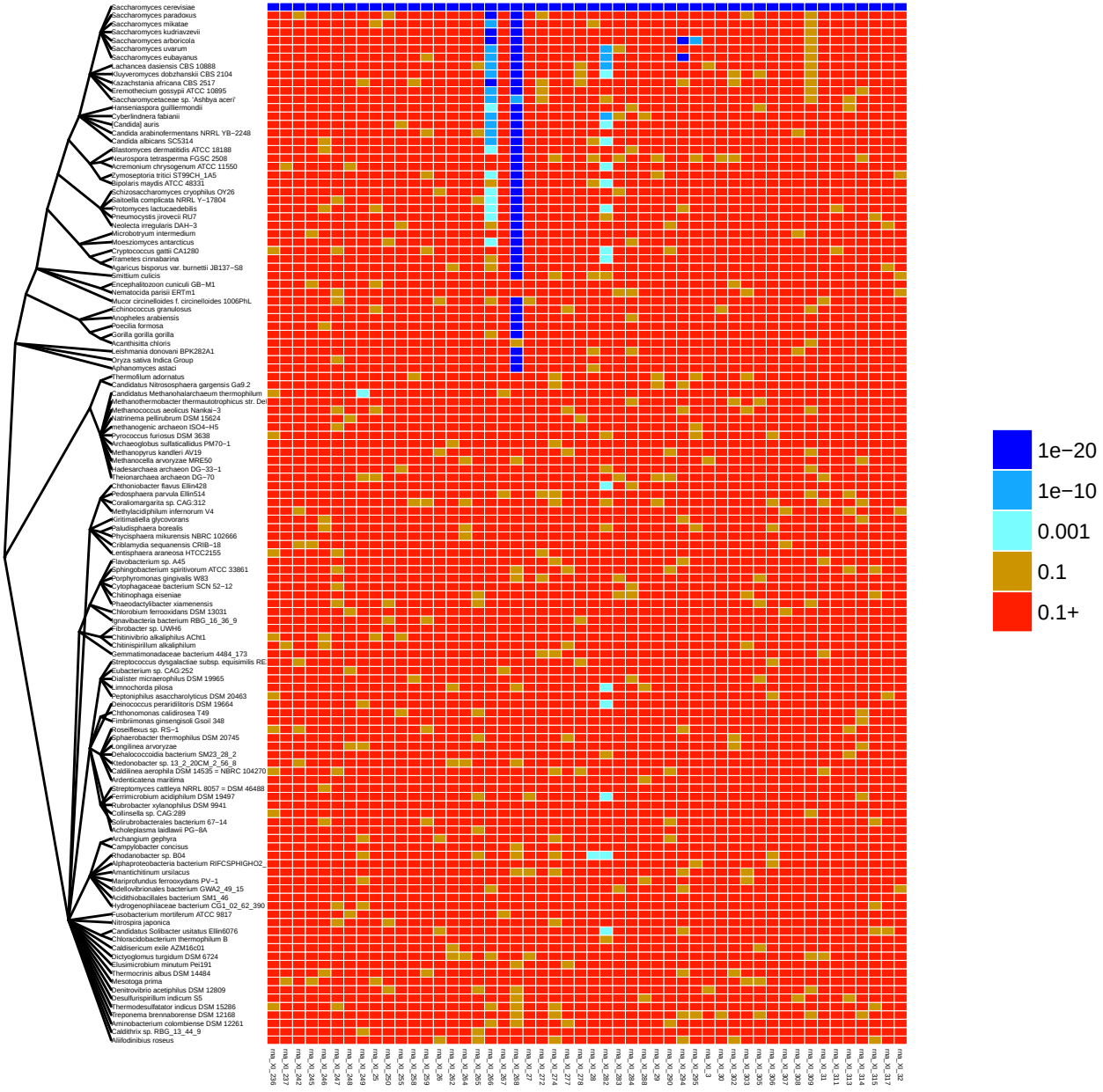

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Biopolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
ma_X_986
ma_X_995
ma_X_996
ma_X_997
ma_X_998
ma_X_999
ma_X_1
ma_X_10
ma_X_100
ma_X_1001
ma_X_1002
ma_X_1003
ma_X_1004
ma_X_1005
ma_X_1006
ma_X_1008
ma_X_101
ma_X_1011
ma_X_1012
ma_X_1013
ma_X_1014
ma_X_1015
ma_X_1016
ma_X_1020
ma_X_1021
ma_X_1022
ma_X_1023
ma_X_1025
ma_X_1026
ma_X_1027
ma_X_1028
ma_X_1029
ma_X_103
ma_X_1030
ma_X_1031
ma_X_1033
ma_X_1036
ma_X_1037
ma_X_1042
ma_X_1044
ma_X_1045
ma_X_1046
ma_X_1049
ma_X_1050
ma_X_1051
ma_X_1052
ma_X_1054
ma_X_1055
ma_X_1076
ma_X_1101
1e−20
1e−10
0.001
0.1
0.1+

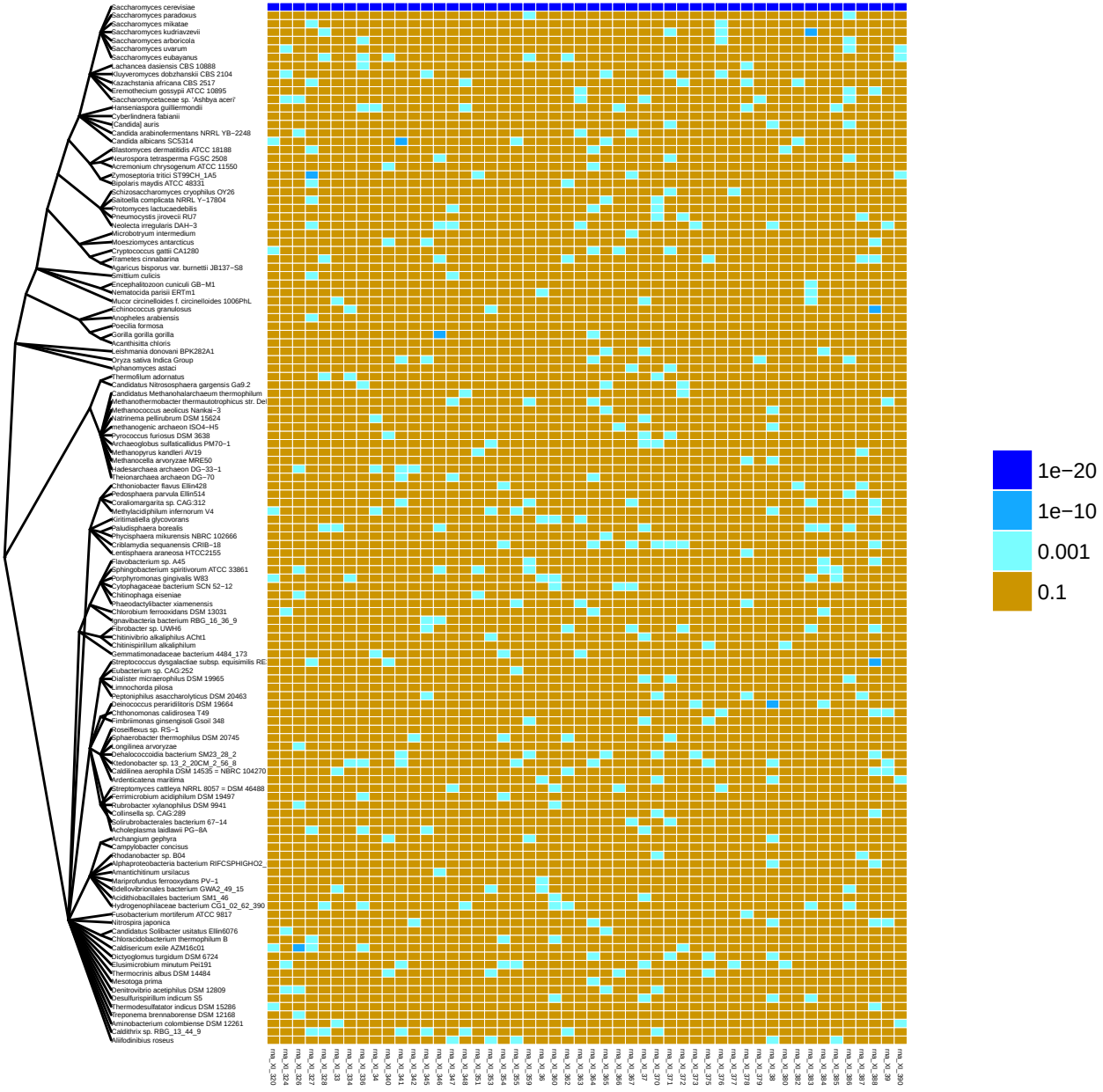

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niifodinibius roseus
mu_XI_1062
mu_XI_1064
mu_XI_1066
mu_XI_1067
mu_XI_1070
mu_XI_1071
mu_XI_1072
mu_XI_1073
mu_XI_1074
mu_XI_1075
mu_XI_1076
mu_XI_1077
mu_XI_1079
mu_XI_1080
mu_XI_1081
mu_XI_1082
mu_XI_1083
mu_XI_1084
mu_XI_1085
mu_XI_1087
mu_XI_1088
mu_XI_1089
mu_XI_1091
mu_XI_1092
mu_XI_1093
mu_XI_1094
mu_XI_1095
mu_XI_1096
mu_XI_1097
mu_XI_11
mu_XI_1100
mu_XI_1101
mu_XI_1104
mu_XI_1106
mu_XI_1109
mu_XI_111
mu_XI_1110
mu_XI_1113
mu_XI_1114
mu_XI_1115
mu_XI_1117
mu_XI_1118
mu_XI_1119
mu_XI_1120
mu_XI_1121
mu_XI_1126
mu_XI_1127
mu_XI_1129
mu_XI_1130
mu_XI_1131
mu_XI_1132
1e−20
1e−10
0.001
0.1
0.1+

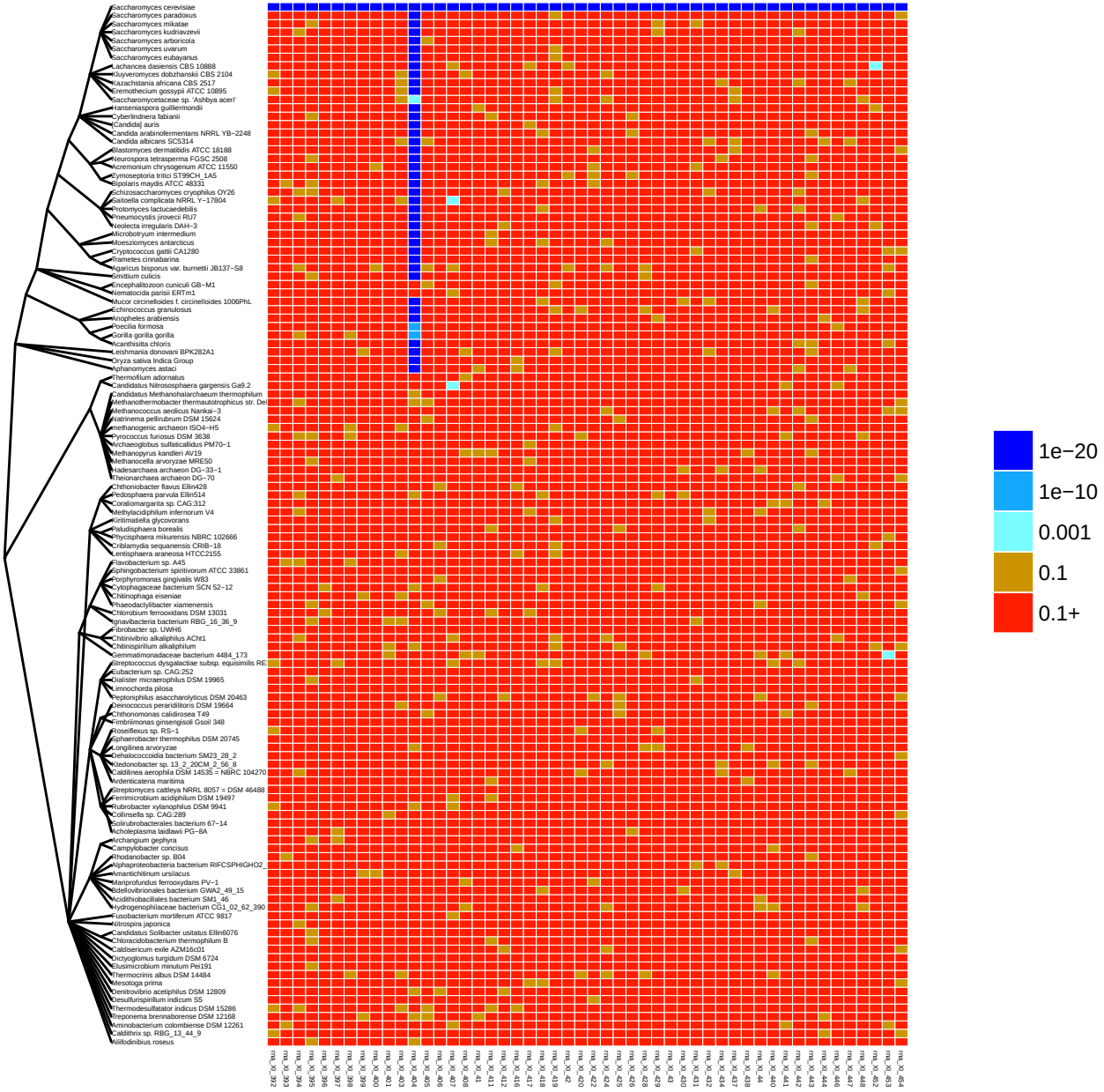

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignifodinibius roseus
mu_XI_1120
mu_XI_1124
mu_XI_1135
mu_XI_1137
mu_XI_1141
mu_XI_1142
mu_XI_1143
mu_XI_1144
mu_XI_1145
mu_XI_1147
mu_XI_1148
mu_XI_1149
mu_XI_1150
mu_XI_1152
mu_XI_1153
mu_XI_1157
mu_XI_1159
mu_XI_116
mu_XI_1160
mu_XI_1161
mu_XI_1162
mu_XI_1163
mu_XI_1164
mu_XI_1169
mu_XI_117
mu_XI_1171
mu_XI_1172
mu_XI_1173
mu_XI_1175
mu_XI_1176
mu_XI_1179
mu_XI_118
mu_XI_1182
mu_XI_1184
mu_XI_1185
mu_XI_1186
mu_XI_1188
mu_XI_1189
mu_XI_119
mu_XI_1190
mu_XI_1191
mu_XI_1193
mu_XI_1194
mu_XI_1195
mu_XI_1196
mu_XI_1198
mu_XI_1199
mu_XI_12
mu_XI_120
1e−20
1e−10
0.001
0.1

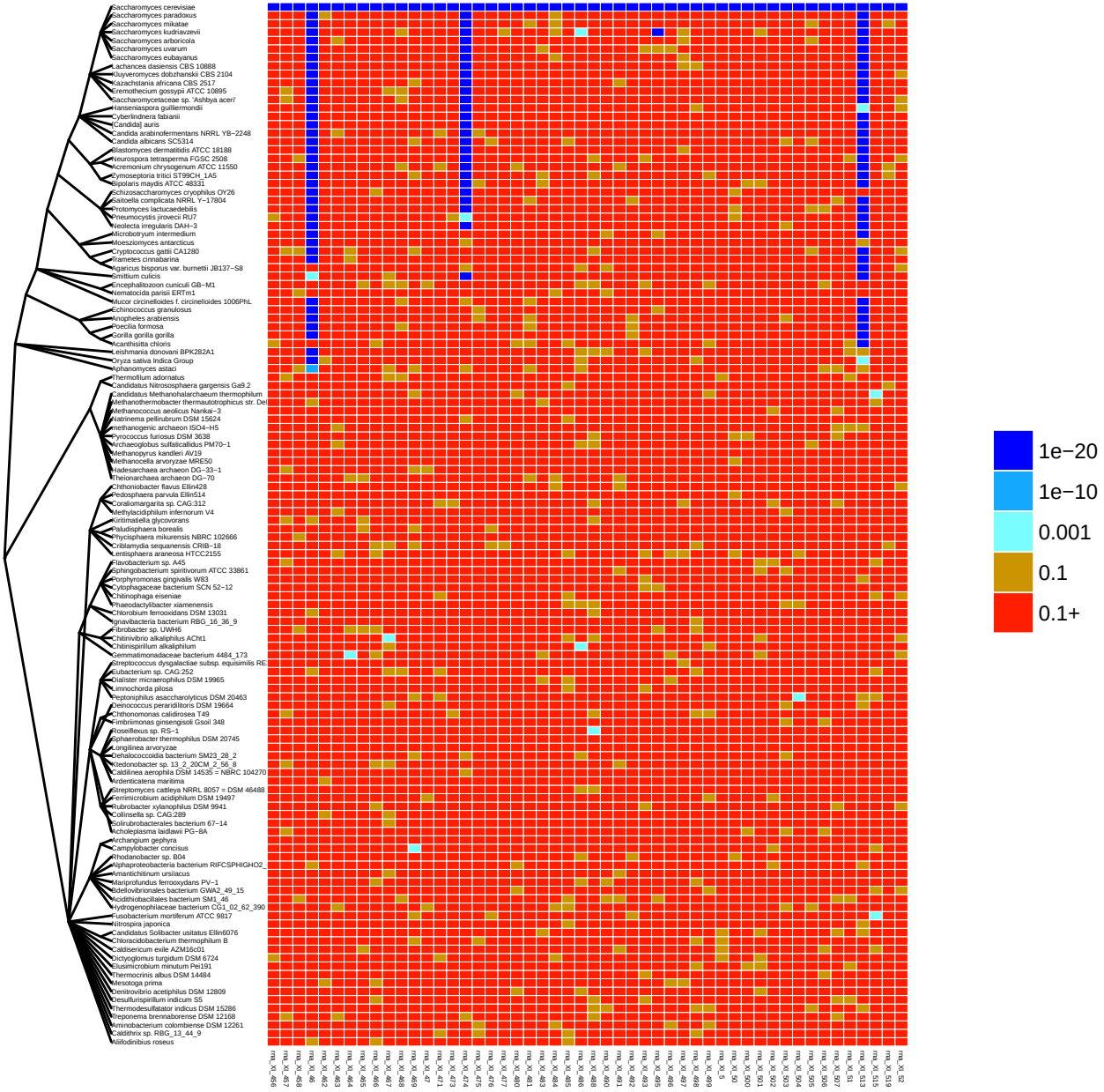

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_XI_1200
ma_XI_1202
ma_XI_1204
ma_XI_1206
ma_XI_1207
ma_XI_1209
ma_XI_121
ma_XI_1210
ma_XI_1211
ma_XI_1212
ma_XI_1213
ma_XI_1214
ma_XI_1215
ma_XI_1216
ma_XI_1217
ma_XI_1219
ma_XI_122
ma_XI_1220
ma_XI_1221
ma_XI_1223
ma_XI_1224
ma_XI_1227
ma_XI_123
ma_XI_127
ma_XI_128
ma_XI_129
ma_XI_130
ma_XI_131
ma_XI_132
ma_XI_133
ma_XI_134
ma_XI_138
ma_XI_139
ma_XI_14
ma_XI_140
ma_XI_141
ma_XI_144
ma_XI_146
ma_XI_147
ma_XI_148
ma_XI_149
ma_XI_15
ma_XI_150
ma_XI_152
ma_XI_153
ma_XI_155
ma_XI_156
ma_XI_16
ma_XI_161
ma_XI_163
1e−20
1e−10
0.001
0.1
0.1+

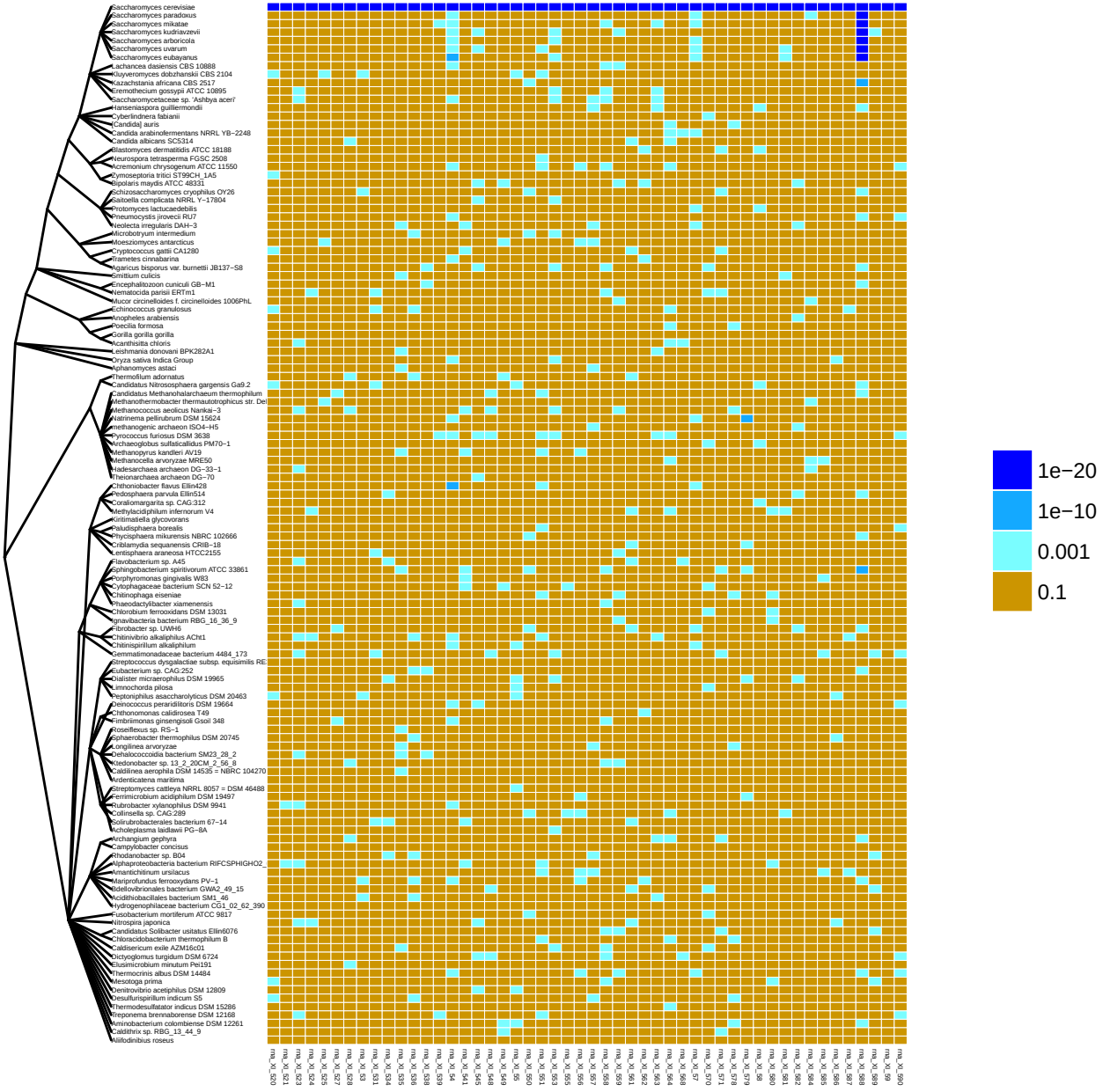

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
rna_XI_164
rna_XI_167
rna_XI_168
rna_XI_169
rna_XI_17
rna_XI_170
rna_XI_171
rna_XI_172
rna_XI_173
rna_XI_175
rna_XI_177
rna_XI_178
rna_XI_179
rna_XI_18
rna_XI_183
rna_XI_186
rna_XI_187
rna_XI_19
rna_XI_190
rna_XI_193
rna_XI_196
rna_XI_197
rna_XI_198
rna_XI_199
rna_XI_20
rna_XI_200
rna_XI_201
rna_XI_202
rna_XI_205
rna_XI_206
rna_XI_207
rna_XI_208
rna_XI_209
rna_XI_214
rna_XI_217
rna_XI_218
rna_XI_22
rna_XI_220
rna_XI_221
rna_XI_222
rna_XI_223
rna_XI_224
rna_XI_225
rna_XI_226
rna_XI_227
rna_XI_228
rna_XI_229
rna_XI_23
rna_XI_233
rna_XI_234
1e−20
1e−10
0.001
0.1

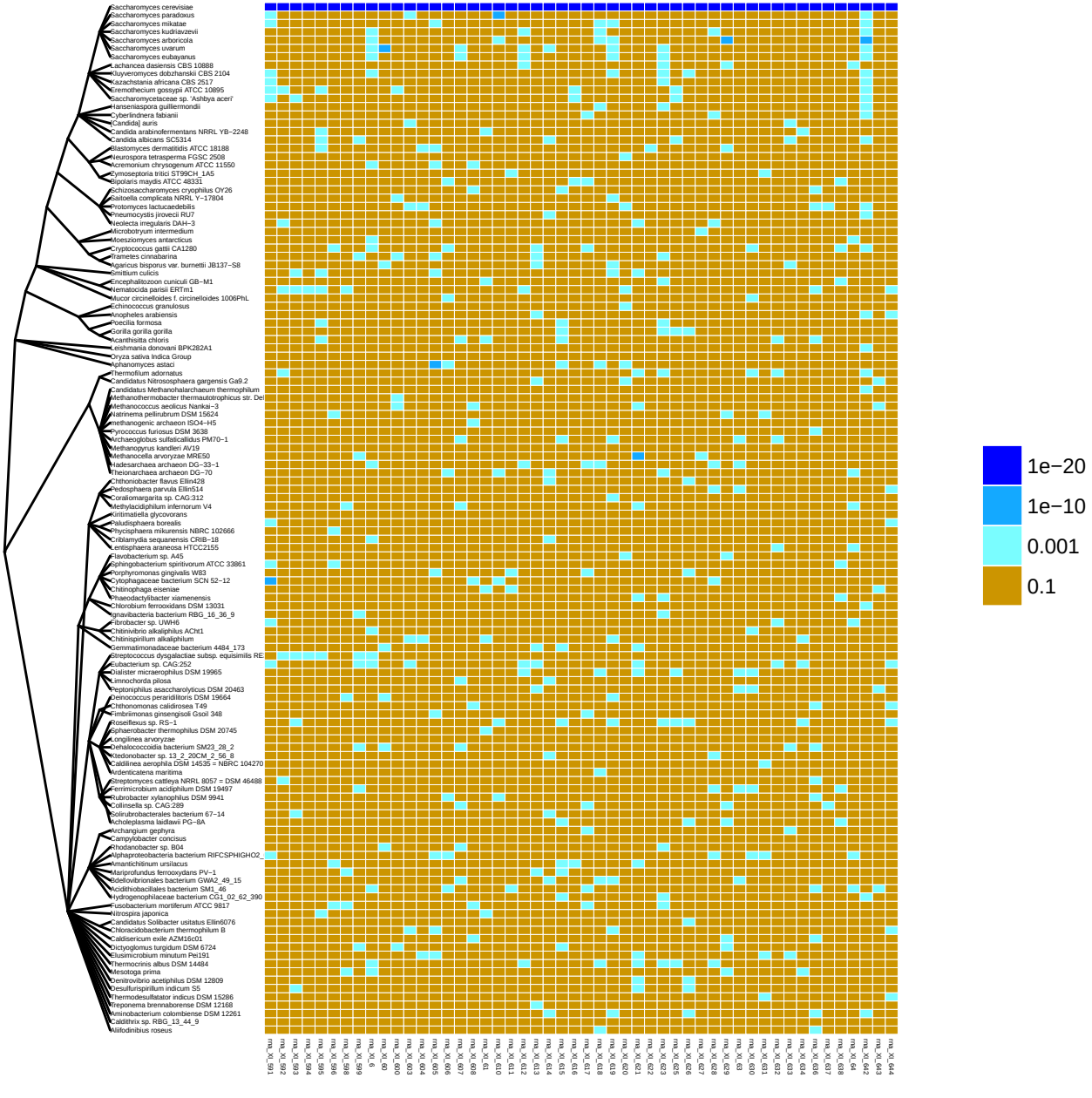

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
ma_XL_226
ma_XL_237
ma_XL_242
ma_XL_245
ma_XL_246
ma_XL_247
ma_XL_248
ma_XL_249
ma_XL_25
ma_XL_250
ma_XL_255
ma_XL_258
ma_XL_259
ma_XL_26
ma_XL_262
ma_XL_264
ma_XL_265
ma_XL_266
ma_XL_267
ma_XL_268
ma_XL_27
ma_XL_272
ma_XL_274
ma_XL_277
ma_XL_278
ma_XL_28
ma_XL_282
ma_XL_283
ma_XL_284
ma_XL_288
ma_XL_29
ma_XL_290
ma_XL_294
ma_XL_295
ma_XL_3
ma_XL_30
ma_XL_302
ma_XL_303
ma_XL_305
ma_XL_306
ma_XL_307
ma_XL_308
ma_XL_309
ma_XL_31
ma_XL_311
ma_XL_313
ma_XL_314
ma_XL_315
ma_XL_317
ma_XL_32
1e−20
1e−10
0.001
0.1
0.1+

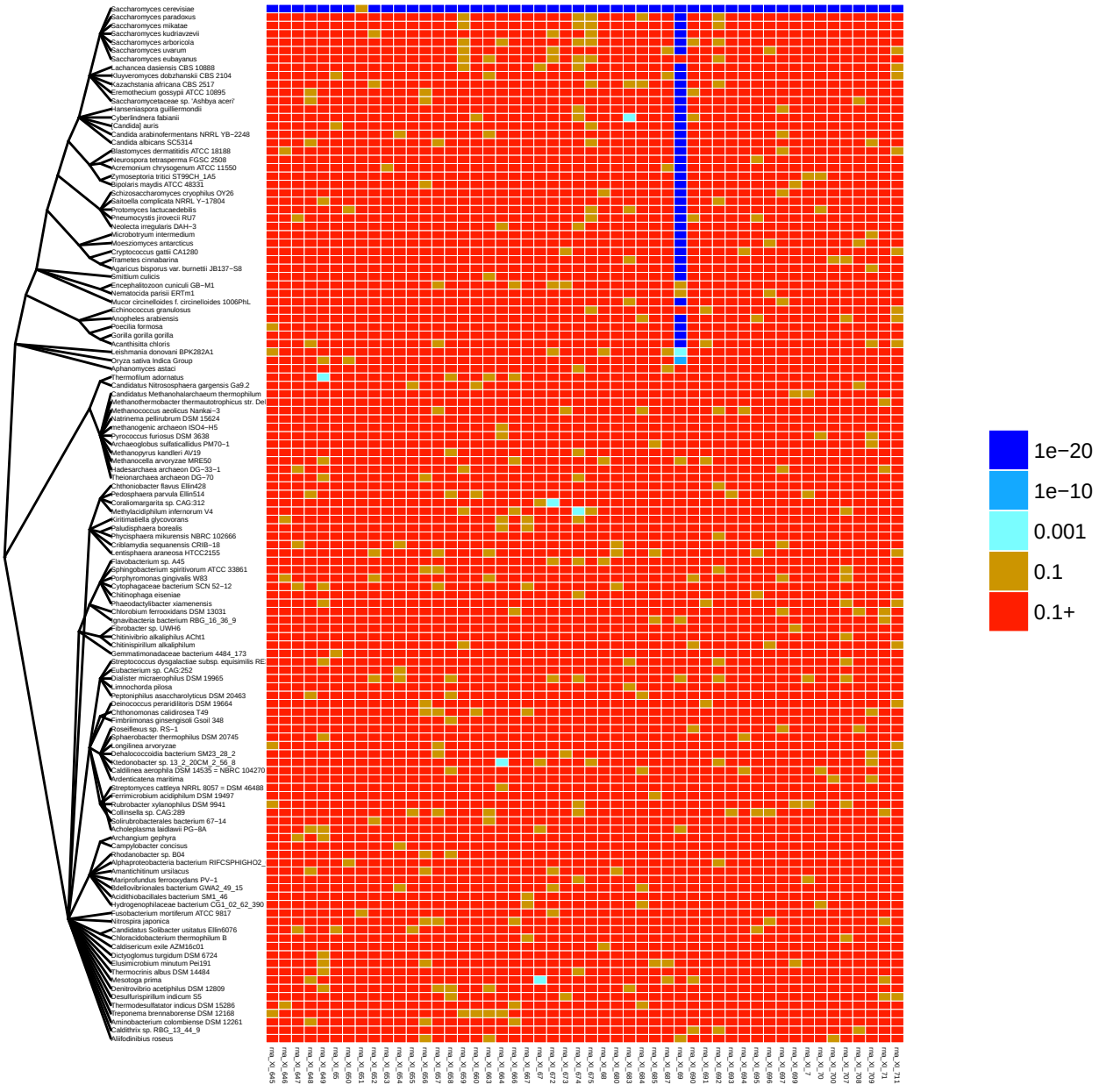

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_XI_320
ma_XI_324
ma_XI_326
ma_XI_327
ma_XI_328
ma_XI_33
ma_XI_334
ma_XI_336
ma_XI_34
ma_XI_340
ma_XI_341
ma_XI_342
ma_XI_345
ma_XI_346
ma_XI_347
ma_XI_348
ma_XI_351
ma_XI_353
ma_XI_354
ma_XI_355
ma_XI_359
ma_XI_36
ma_XI_360
ma_XI_362
ma_XI_363
ma_XI_364
ma_XI_365
ma_XI_366
ma_XI_367
ma_XI_37
ma_XI_370
ma_XI_371
ma_XI_372
ma_XI_373
ma_XI_375
ma_XI_376
ma_XI_377
ma_XI_378
ma_XI_379
ma_XI_38
ma_XI_380
ma_XI_382
ma_XI_383
ma_XI_384
ma_XI_385
ma_XI_386
ma_XI_387
ma_XI_388
ma_XI_39
ma_XI_390
1e−20
1e−10
0.001
0.1

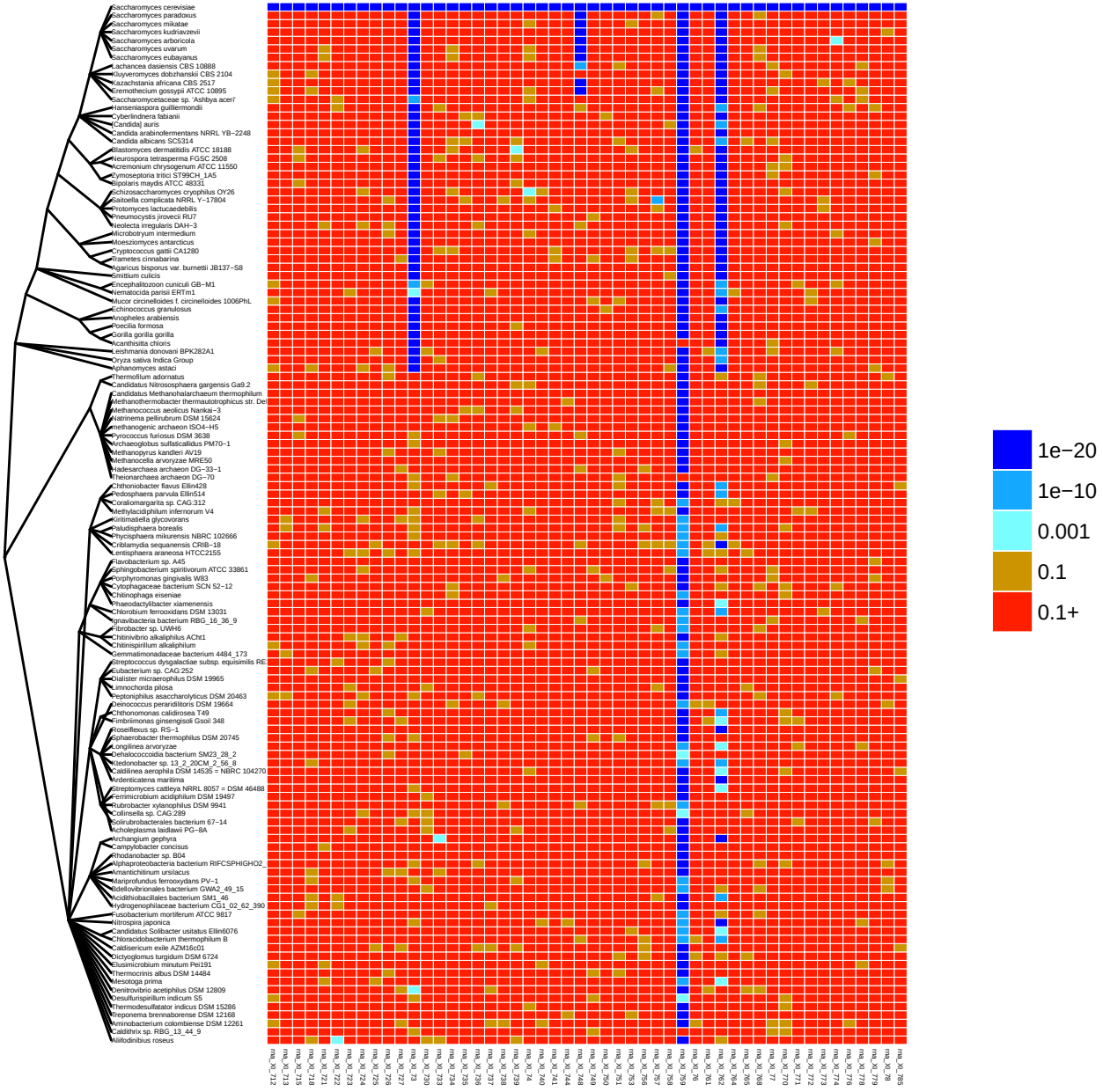

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamyda sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XL_392
ma_XL_393
ma_XL_394
ma_XL_395
ma_XL_396
ma_XL_397
ma_XL_398
ma_XL_399
ma_XL_400
ma_XL_401
ma_XL_404
ma_XL_405
ma_XL_406
ma_XL_407
ma_XL_408
ma_XL_41
ma_XL_411
ma_XL_412
ma_XL_416
ma_XL_417
ma_XL_418
ma_XL_419
ma_XL_42
ma_XL_420
ma_XL_422
ma_XL_424
ma_XL_425
ma_XL_426
ma_XL_428
ma_XL_429
ma_XL_43
ma_XL_430
ma_XL_431
ma_XL_432
ma_XL_434
ma_XL_437
ma_XL_438
ma_XL_44
ma_XL_440
ma_XL_441
ma_XL_442
ma_XL_443
ma_XL_444
ma_XL_446
ma_XL_447
ma_XL_448
ma_XL_452
ma_XL_453
ma_XL_454
1e−20
1e−10
0.001
0.1
0.1+

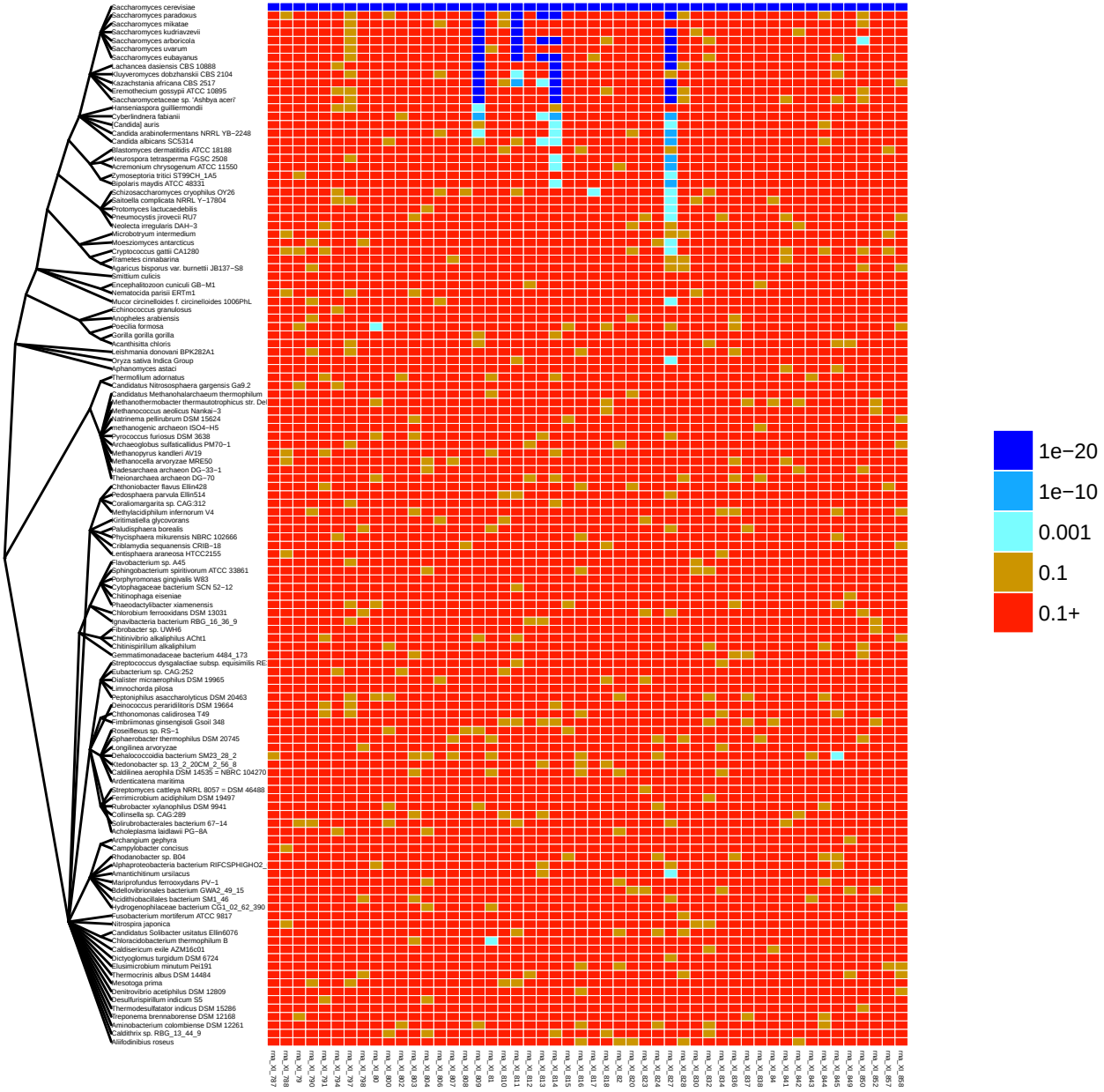

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XL_456
ma_XL_457
ma_XL_458
ma_XL_46
ma_XL_462
ma_XL_463
ma_XL_464
ma_XL_465
ma_XL_466
ma_XL_467
ma_XL_468
ma_XL_469
ma_XL_47
ma_XL_471
ma_XL_473
ma_XL_474
ma_XL_475
ma_XL_476
ma_XL_477
ma_XL_480
ma_XL_481
ma_XL_483
ma_XL_484
ma_XL_485
ma_XL_486
ma_XL_488
ma_XL_490
ma_XL_491
ma_XL_492
ma_XL_493
ma_XL_495
ma_XL_496
ma_XL_497
ma_XL_498
ma_XL_499
ma_XL_5
ma_XL_50
ma_XL_500
ma_XL_501
ma_XL_502
ma_XL_503
ma_XL_504
ma_XL_505
ma_XL_506
ma_XL_507
ma_XL_51
ma_XL_513
ma_XL_515
ma_XL_519
ma_XL_52
1e−20
1e−10
0.001
0.1
0.1+

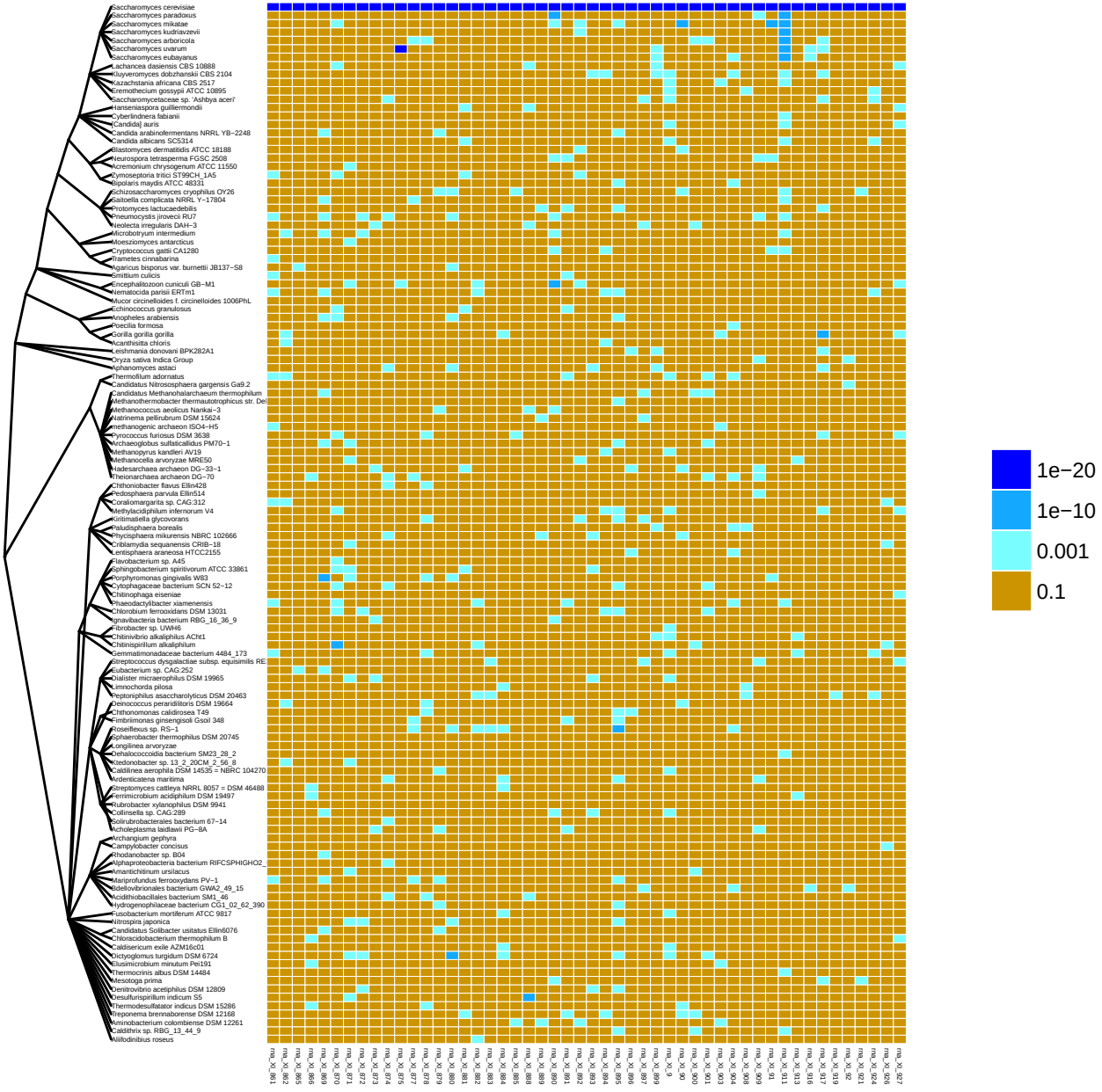

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is53
Nitrosomonas sp. Is52
Nitrosomonas sp. Is51
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
Nitrosomonas sp. Is36
Nitrosomonas sp. Is35
Nitrosomonas sp. Is34
Nitrosomonas sp. Is33
Nitrosomonas sp. Is32
Nitrosomonas sp. Is31
Nitrosomonas sp. Is30
1e−20
1e−10
0.001
0.1

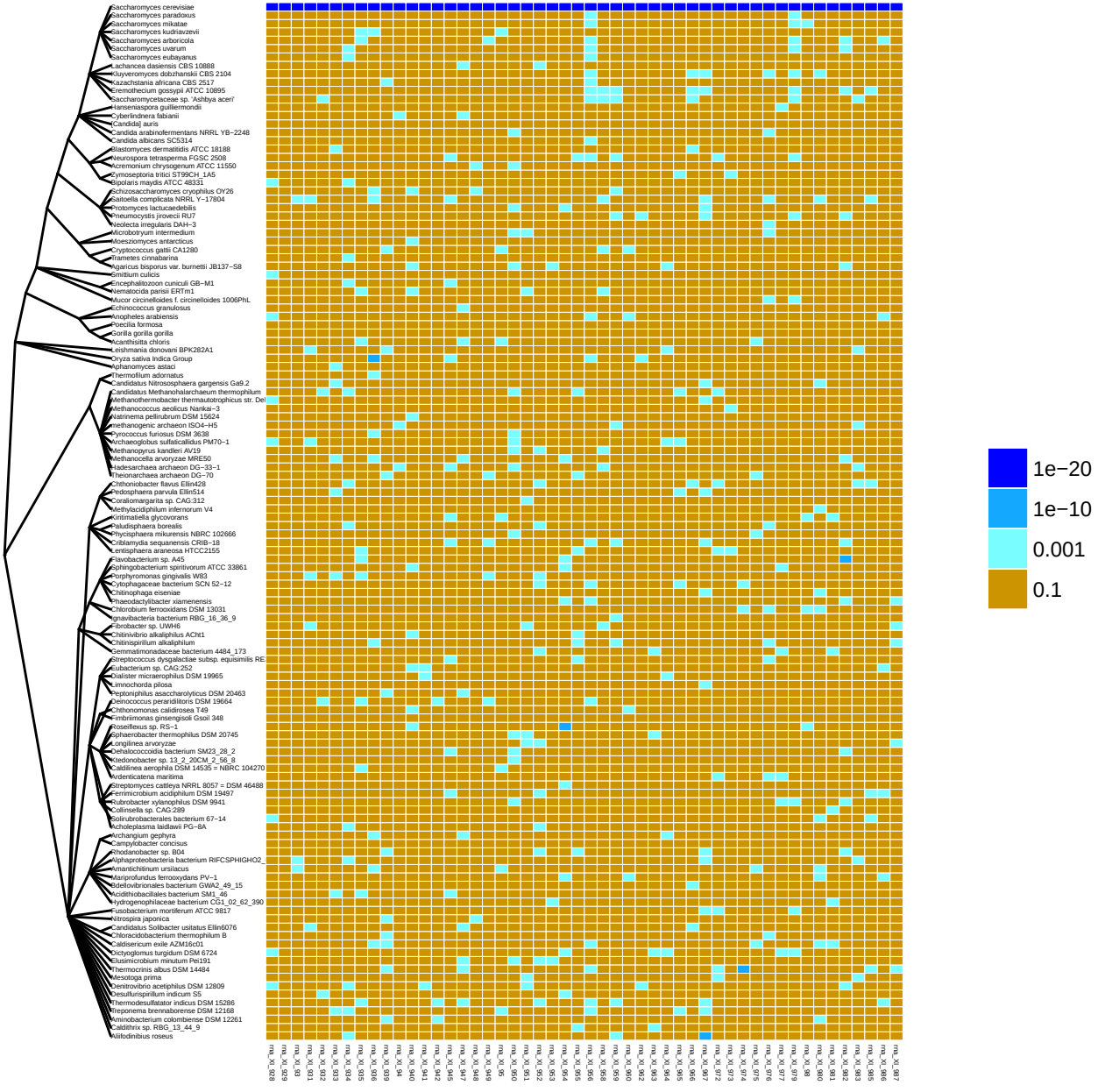

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
mu_X_0951
mu_X_0952
mu_X_0953
mu_X_0954
mu_X_0955
mu_X_0956
mu_X_0958
mu_X_0959
mu_X_0960
mu_X_0000
mu_X_0003
mu_X_0004
mu_X_0005
mu_X_0006
mu_X_0007
mu_X_0008
mu_X_0010
mu_X_0011
mu_X_0012
mu_X_0013
mu_X_0014
mu_X_0015
mu_X_0016
mu_X_0017
mu_X_0018
mu_X_0019
mu_X_0020
mu_X_0021
mu_X_0022
mu_X_0023
mu_X_0025
mu_X_0026
mu_X_0027
mu_X_0028
mu_X_0029
mu_X_0030
mu_X_0031
mu_X_0032
mu_X_0033
mu_X_0034
mu_X_0036
mu_X_0037
mu_X_0038
mu_X_0039
mu_X_0040
mu_X_0042
mu_X_0043
mu_X_0044

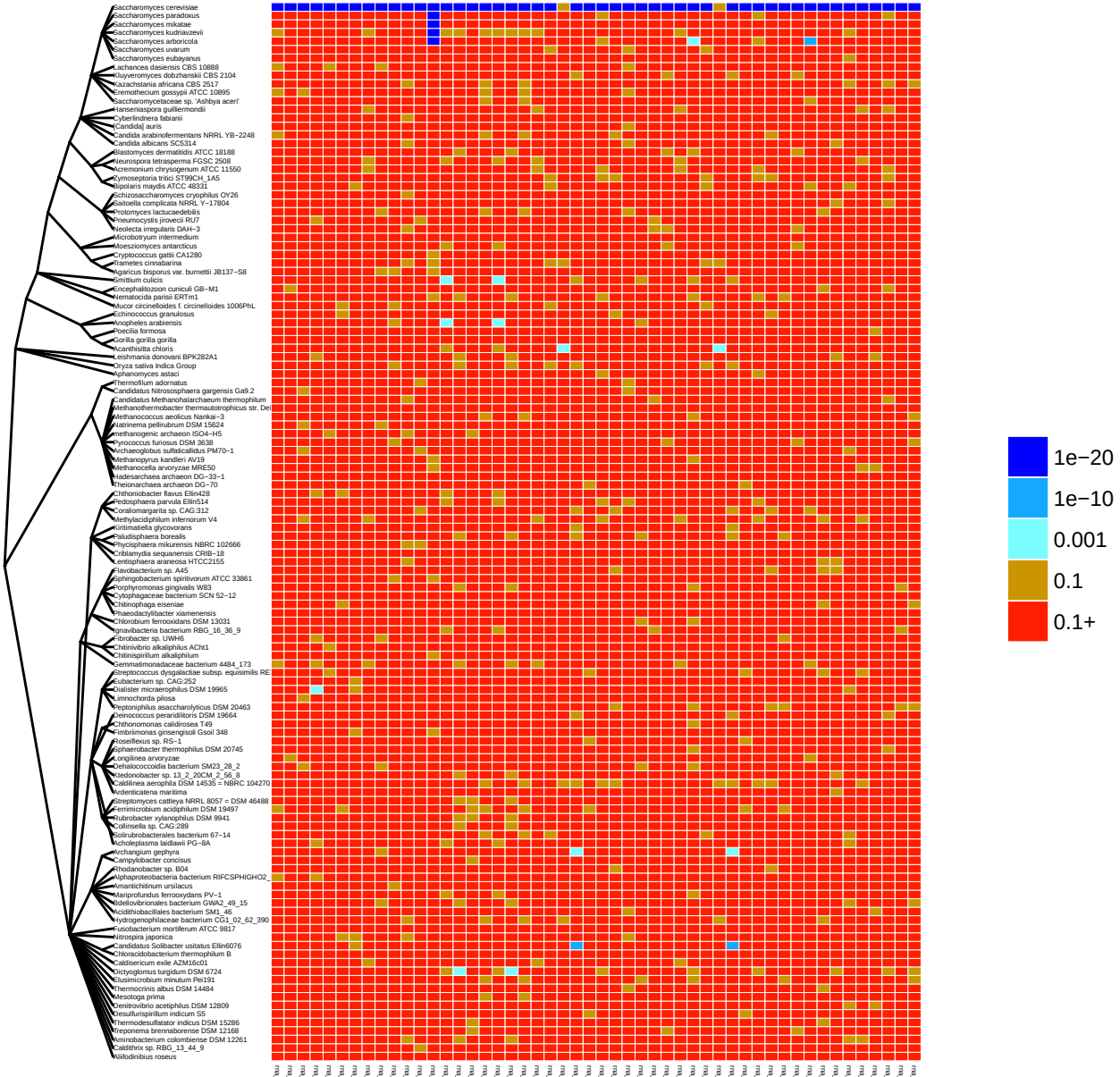

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_X_645
mu_X_649
mu_X_647
mu_X_648
mu_X_649
mu_X_55
mu_X_650
mu_X_651
mu_X_652
mu_X_653
mu_X_654
mu_X_655
mu_X_656
mu_X_657
mu_X_658
mu_X_659
mu_X_660
mu_X_663
mu_X_664
mu_X_666
mu_X_667
mu_X_07
mu_X_672
mu_X_673
mu_X_674
mu_X_675
mu_X_68
mu_X_680
mu_X_683
mu_X_684
mu_X_685
mu_X_687
mu_X_69
mu_X_690
mu_X_691
mu_X_692
mu_X_693
mu_X_694
mu_X_695
mu_X_696
mu_X_697
mu_X_699
mu_X_7
mu_X_70
mu_X_700
mu_X_707
mu_X_708
mu_X_709
mu_X_71
mu_X_711
1e−20
1e−10
0.001
0.1
0.1+

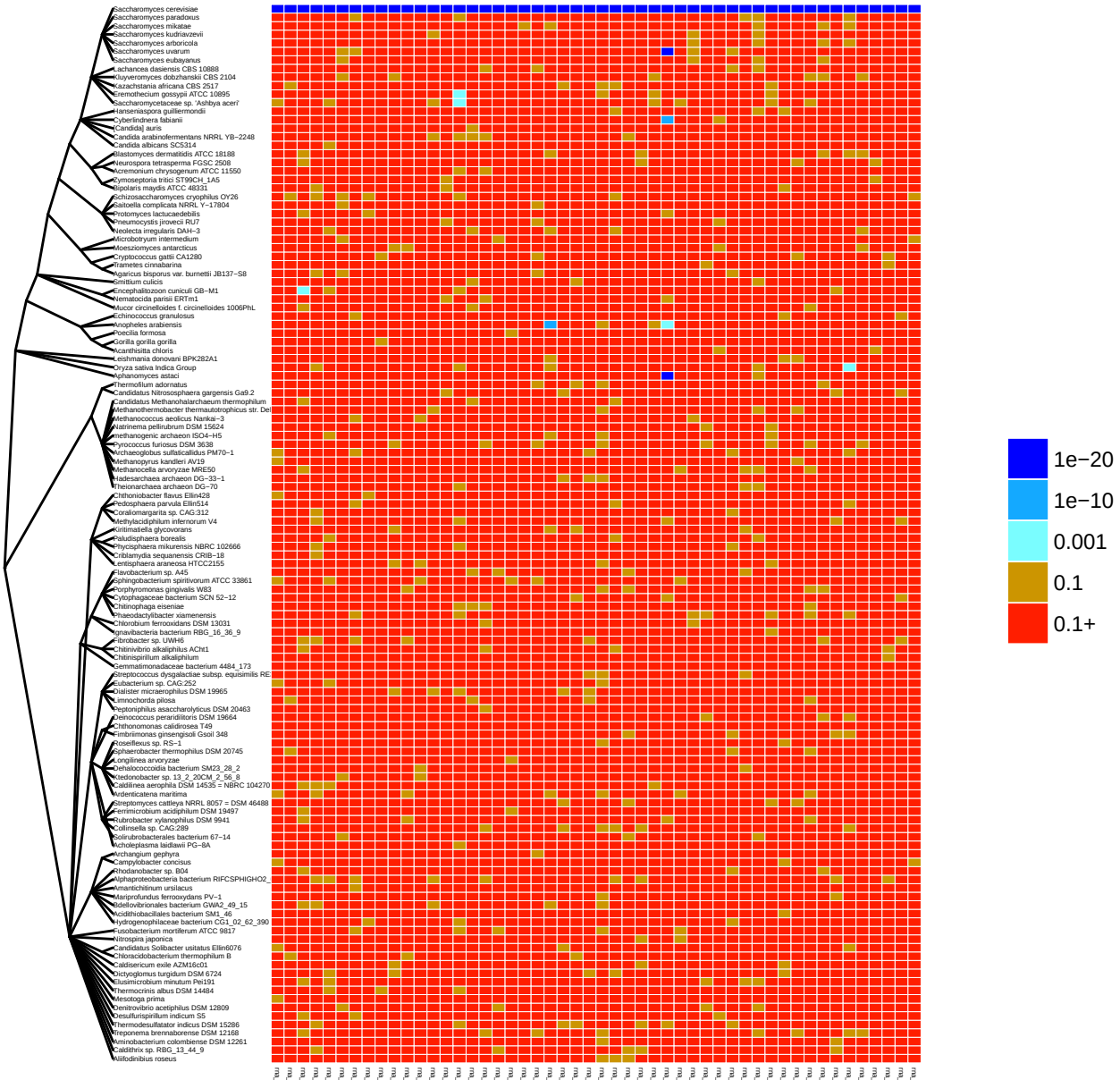

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomicrobia bacterium sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetus roseus
ma_XI_712
ma_XI_713
ma_XI_715
ma_XI_718
ma_XI_721
ma_XI_722
ma_XI_723
ma_XI_724
ma_XI_725
ma_XI_726
ma_XI_727
ma_XI_73
ma_XI_730
ma_XI_733
ma_XI_734
ma_XI_735
ma_XI_736
ma_XI_737
ma_XI_738
ma_XI_739
ma_XI_74
ma_XI_740
ma_XI_741
ma_XI_744
ma_XI_748
ma_XI_749
ma_XI_750
ma_XI_751
ma_XI_753
ma_XI_756
ma_XI_757
ma_XI_758
ma_XI_759
ma_XI_76
ma_XI_761
ma_XI_762
ma_XI_764
ma_XI_765
ma_XI_768
ma_XI_77
ma_XI_770
ma_XI_771
ma_XI_772
ma_XI_773
ma_XI_774
ma_XI_776
ma_XI_778
ma_XI_779
ma_XI_78
ma_XI_785
1e−20
1e−10
0.001
0.1
0.1+

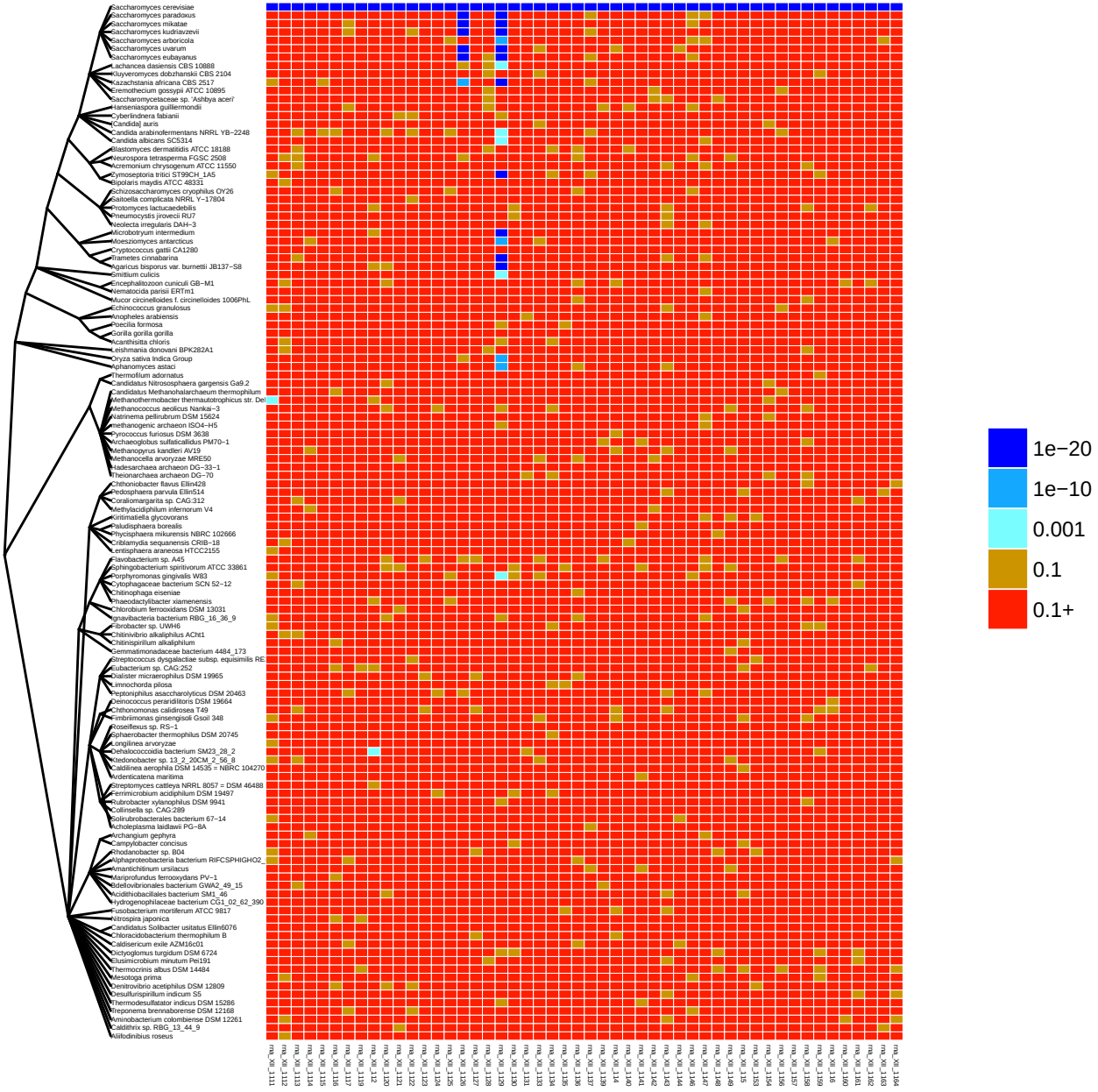

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2

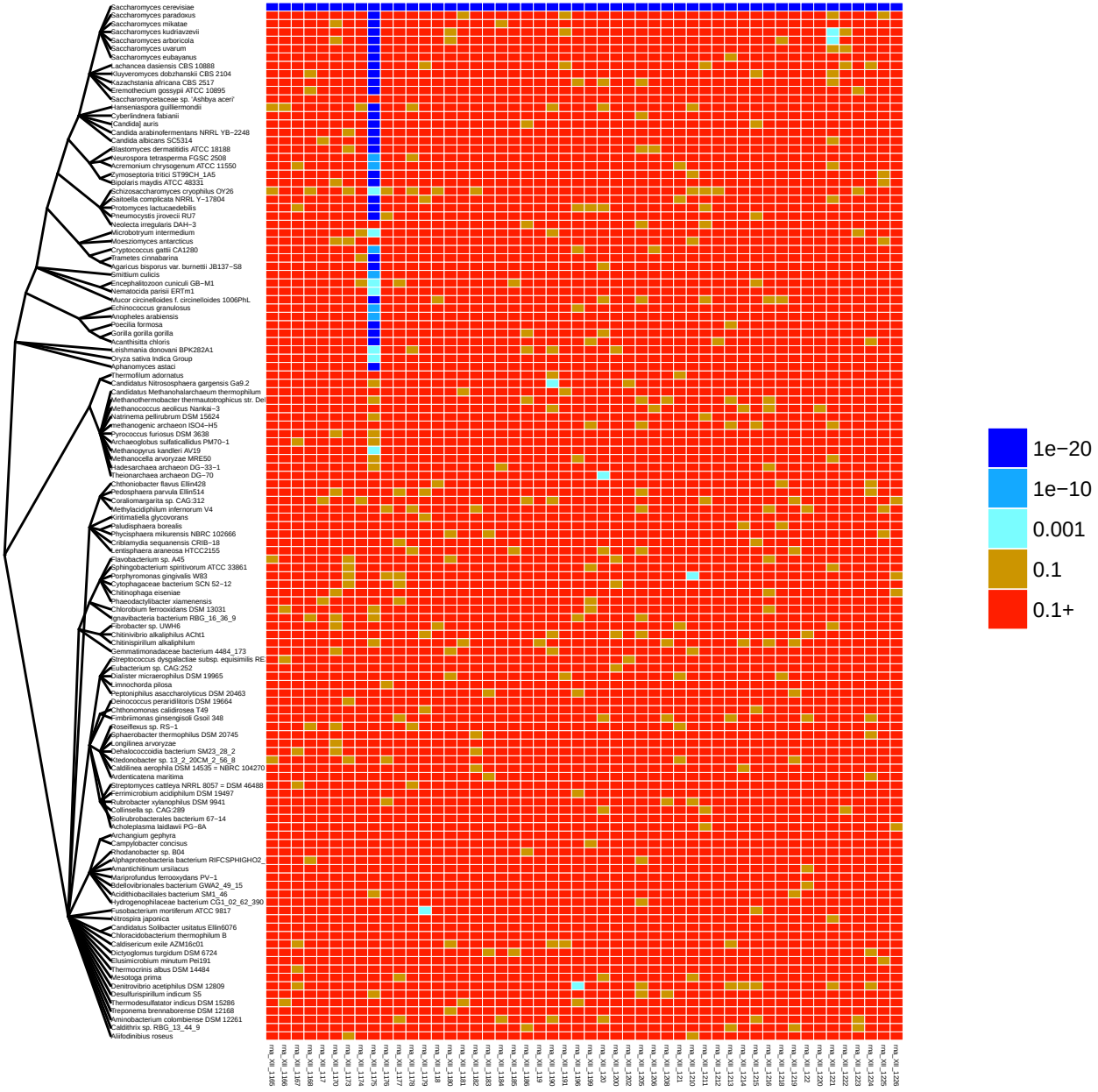

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
ma_X_0861
ma_X_0862
ma_X_0865
ma_X_0866
ma_X_0869
ma_X_0870
ma_X_0871
ma_X_0872
ma_X_0873
ma_X_0874
ma_X_0875
ma_X_0877
ma_X_0878
ma_X_0879
ma_X_0880
ma_X_0881
ma_X_0882
ma_X_0883
ma_X_0884
ma_X_0885
ma_X_0888
ma_X_0889
ma_X_0890
ma_X_0891
ma_X_0892
ma_X_0893
ma_X_0894
ma_X_0895
ma_X_0896
ma_X_0897
ma_X_0898
ma_X_6
ma_X_90
ma_X_0900
ma_X_0901
ma_X_0903
ma_X_0904
ma_X_0908
ma_X_0909
ma_X_91
ma_X_0911
ma_X_0913
ma_X_0916
ma_X_0917
ma_X_0919
ma_X_26
ma_X_0921
ma_X_0924
ma_X_0926
ma_X_0927
1e−20
1e−10
0.001
0.1

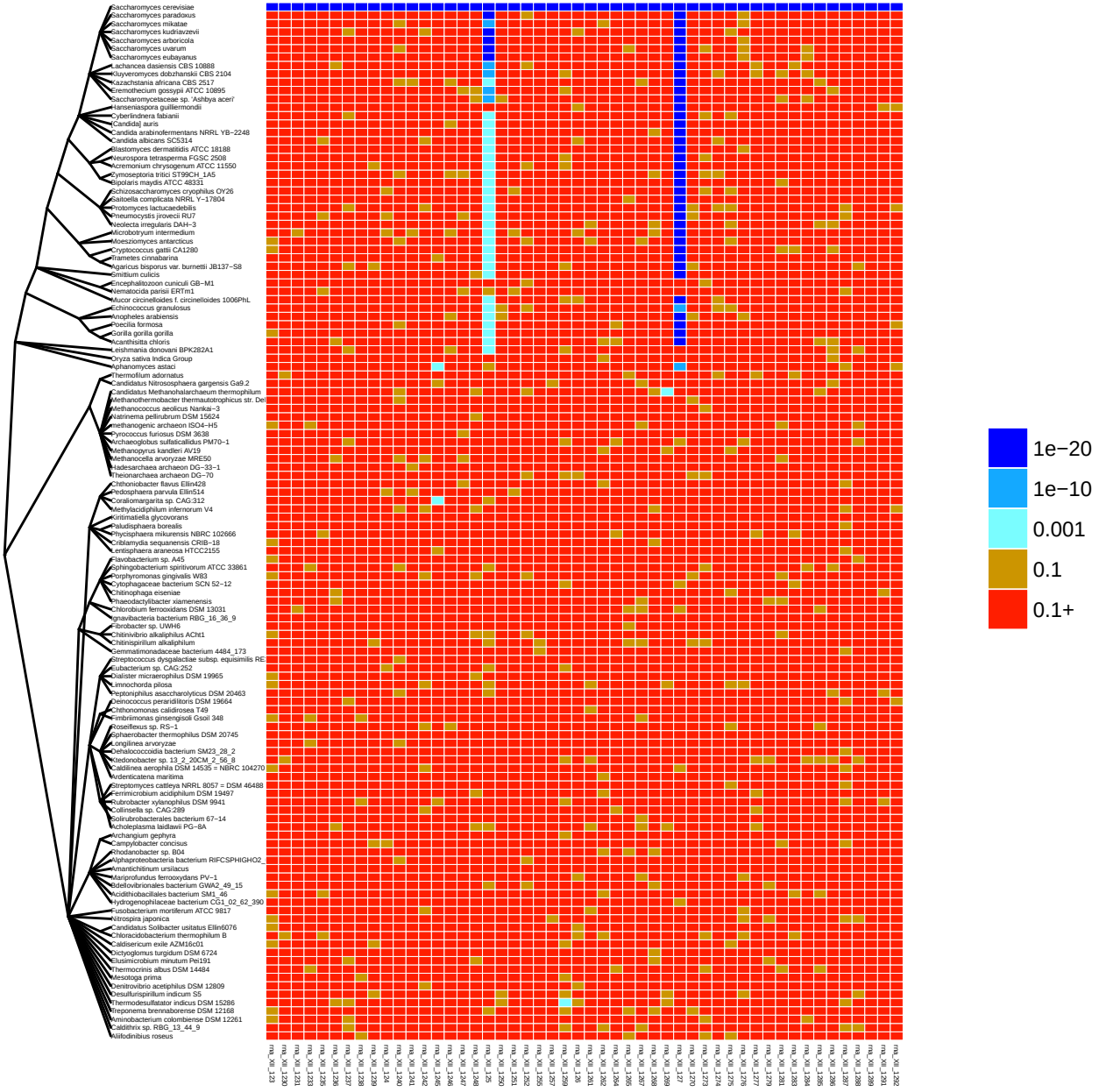

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XI_928
ma_XI_929
ma_XI_93
ma_XI_931
ma_XI_932
ma_XI_933
ma_XI_934
ma_XI_935
ma_XI_936
ma_XI_939
ma_XI_94
ma_XI_940
ma_XI_941
ma_XI_942
ma_XI_945
ma_XI_947
ma_XI_948
ma_XI_949
ma_XI_95
ma_XI_950
ma_XI_951
ma_XI_952
ma_XI_953
ma_XI_954
ma_XI_955
ma_XI_956
ma_XI_958
ma_XI_959
ma_XI_960
ma_XI_962
ma_XI_963
ma_XI_964
ma_XI_965
ma_XI_966
ma_XI_967
ma_XI_972
ma_XI_973
ma_XI_974
ma_XI_975
ma_XI_976
ma_XI_977
ma_XI_979
ma_XI_98
ma_XI_980
ma_XI_981
ma_XI_982
ma_XI_983
ma_XI_985
ma_XI_986
ma_XI_987
1e−20
1e−10
0.001
0.1

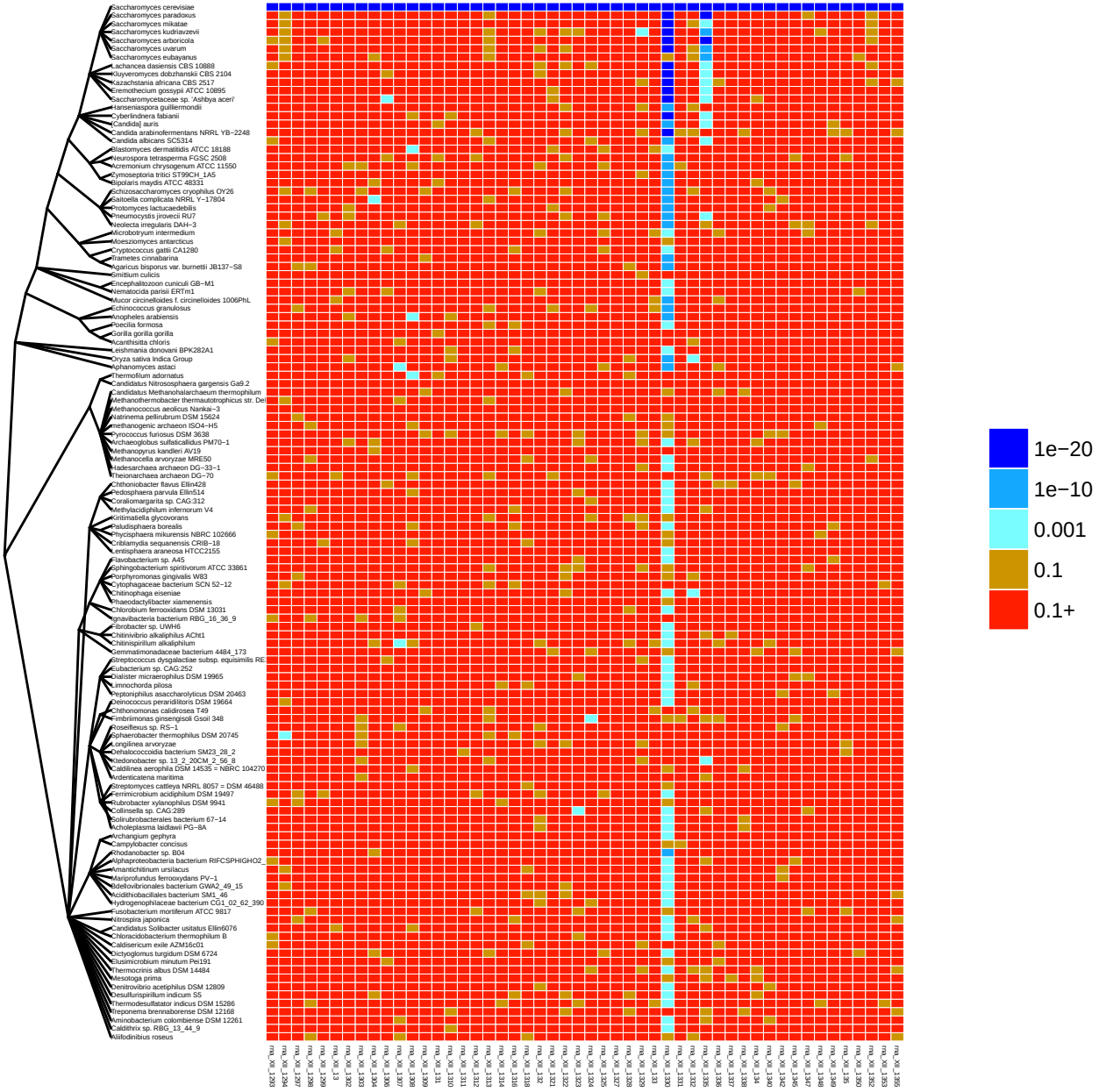

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X_988
ma_X_989
ma_X_99
ma_X_990
ma_X_991
ma_X_995
ma_X_997
ma_X_1
ma_X_10
ma_X_1002
ma_X_1003
ma_X_1005
ma_X_1007
ma_X_1008
ma_X_1009
ma_X_101
ma_X_1010
ma_X_1012
ma_X_1013
ma_X_1014
ma_X_1016
ma_X_1018
ma_X_1019
ma_X_1020
ma_X_1021
ma_X_1022
ma_X_1023
ma_X_1024
ma_X_1025
ma_X_1026
ma_X_1027
ma_X_1028
ma_X_103
ma_X_1030
ma_X_1031
ma_X_1032
ma_X_1033
ma_X_1034
ma_X_1035
ma_X_1037
ma_X_1039
ma_X_104
ma_X_1040
ma_X_1041
ma_X_1042
ma_X_1043
ma_X_1044
ma_X_1045
ma_X_1046
ma_X_1047
1e−20
1e−10
0.001
0.1
0.1+

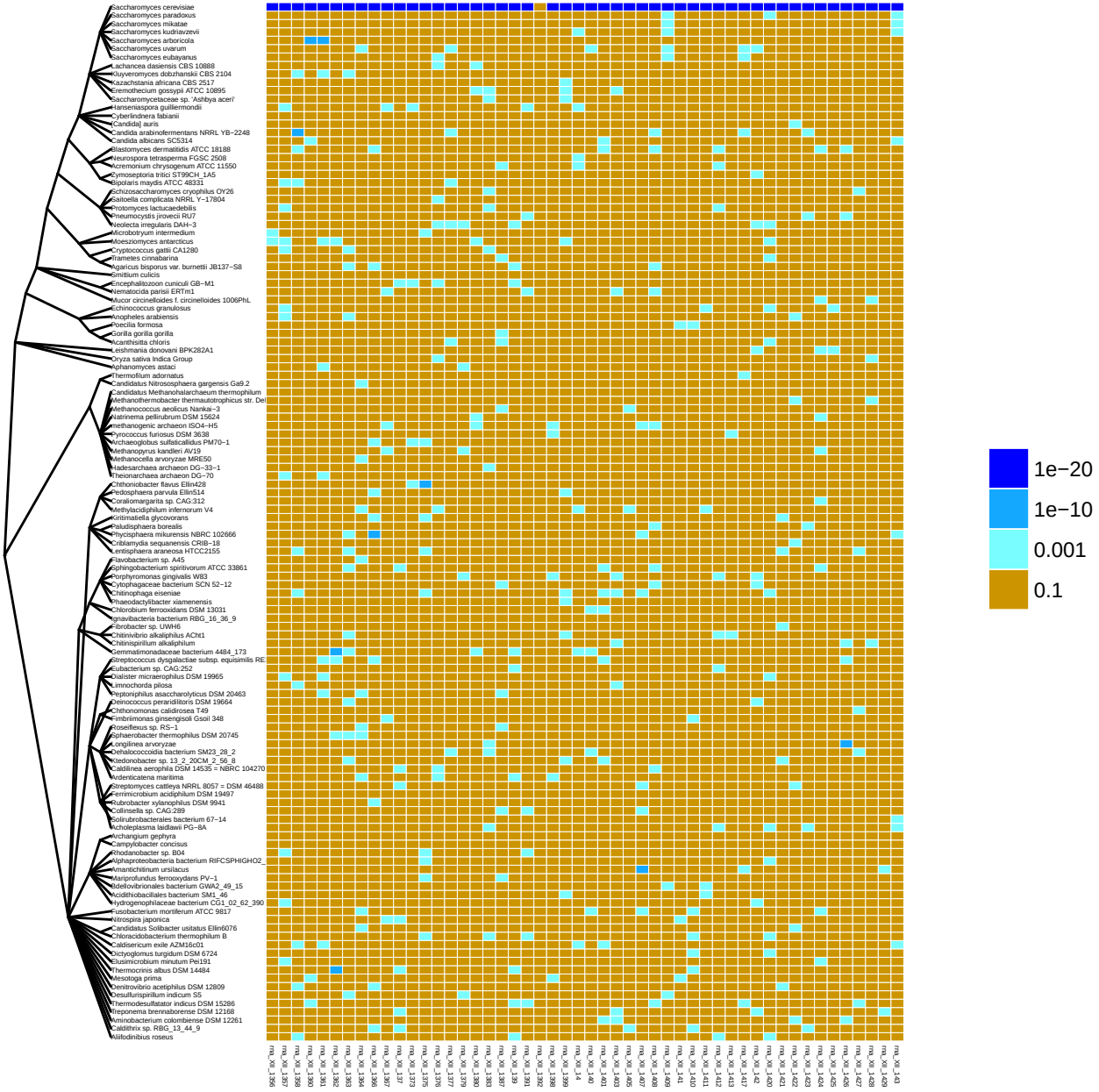

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR2
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotenuis chungbukensis MJ1
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonasicus EN76
Candidatus Nitrosotenuis cloacamonas NT1
Candidatus Nitrosotenuis Nitrosotenuis chungbukensis MJ1
Candidatus Nitrosotenuis Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis Nitrosotenuis cloacamonas NT1
Candidatus Nitrosotenuis Candidatus Nitrosotenuis cloacamonasicus EN76
Candidatus Nitrosotenuis Candidatus Nitrosotenuis chungbukensis MJ1
Candidatus Nitrosotenuis Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis Candidatus

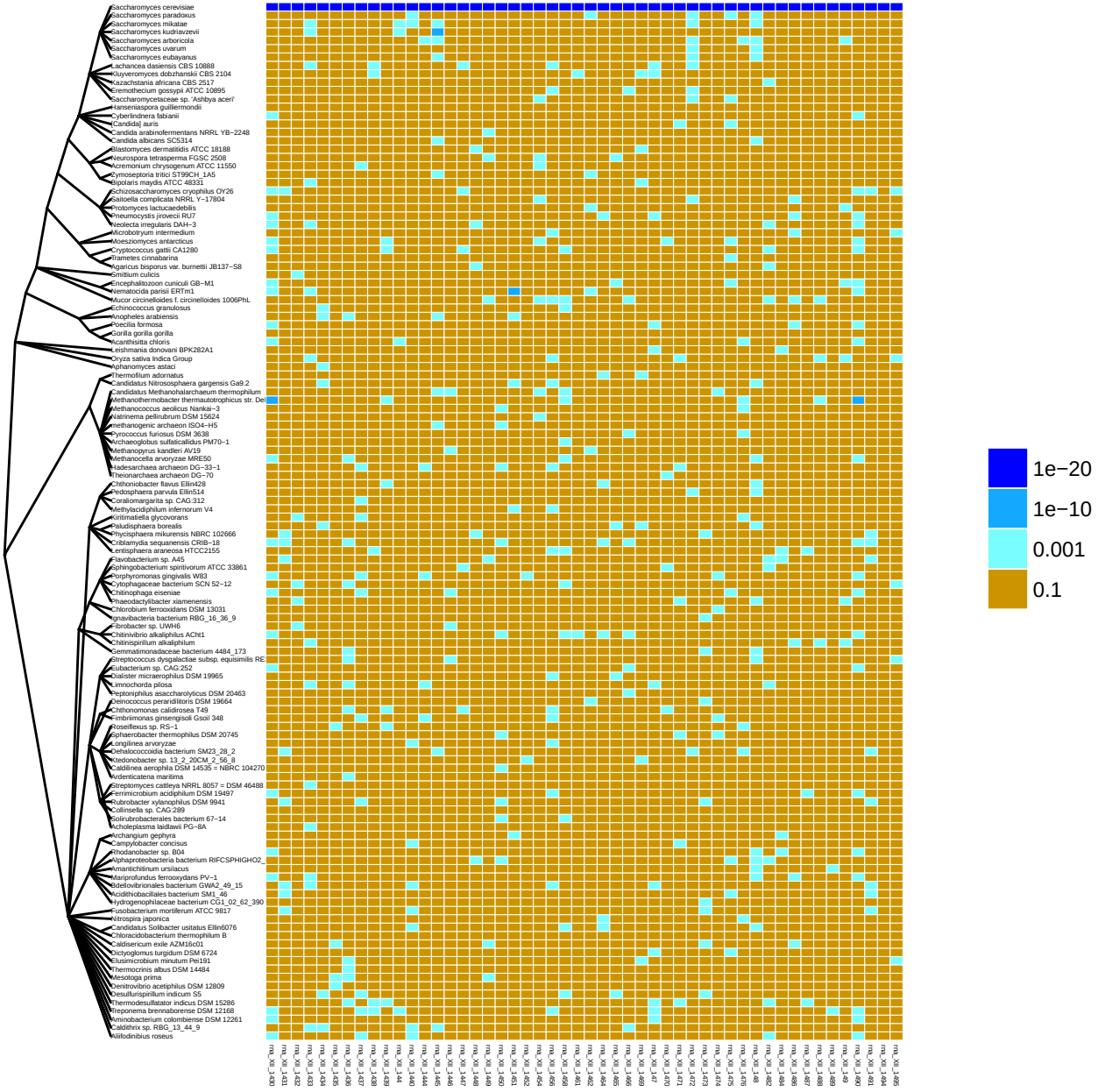

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciribacter sp. CAG:252
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eisenia
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Kiritimatiella bacterium 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_06_1111
ma_06_1112
ma_06_1113
ma_06_1114
ma_06_1115
ma_06_1116
ma_06_1117
ma_06_1119
ma_06_112
ma_06_1120
ma_06_1121
ma_06_1122
ma_06_1123
ma_06_1124
ma_06_1125
ma_06_1126
ma_06_1127
ma_06_1128
ma_06_1129
ma_06_1130
ma_06_1131
ma_06_1133
ma_06_1134
ma_06_1135
ma_06_1136
ma_06_1137
ma_06_1138
ma_06_114
ma_06_1140
ma_06_1141
ma_06_1142
ma_06_1143
ma_06_1144
ma_06_1146
ma_06_1147
ma_06_1148
ma_06_1149
ma_06_115
ma_06_1153
ma_06_1154
ma_06_1156
ma_06_1157
ma_06_1158
ma_06_1159
ma_06_116
ma_06_1160
ma_06_1161
ma_06_1162
ma_06_1163
ma_06_1164
1e−20
1e−10
0.001
0.1
0.1+

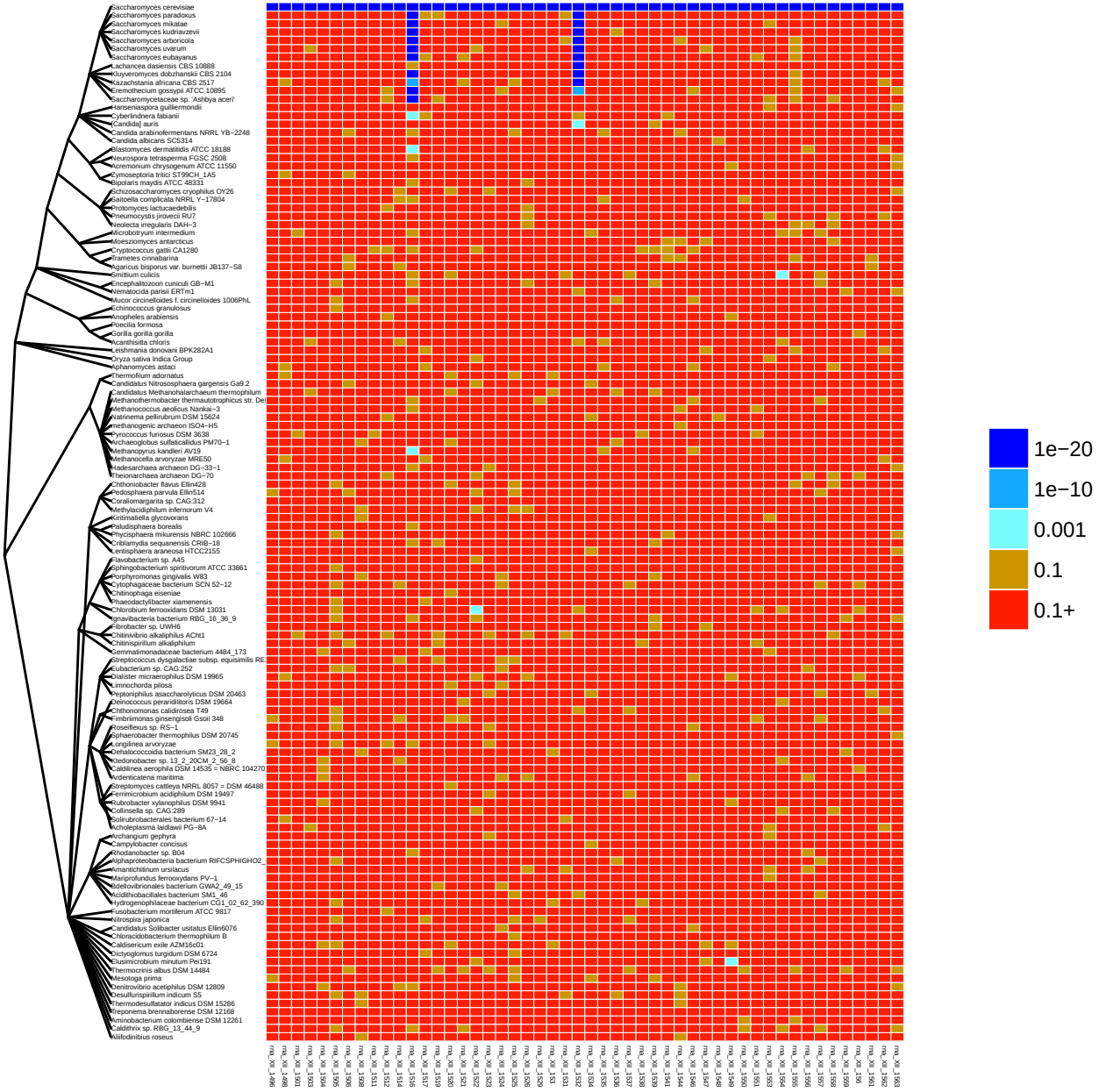

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chitinophaga ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
rna_00_1165
rna_00_1166
rna_00_1167
rna_00_1168
rna_00_117
rna_00_1170
rna_00_1173
rna_00_1174
rna_00_1175
rna_00_1176
rna_00_1177
rna_00_1178
rna_00_1179
rna_00_118
rna_00_1180
rna_00_1181
rna_00_1182
rna_00_1183
rna_00_1184
rna_00_1185
rna_00_1186
rna_00_119
rna_00_1190
rna_00_1191
rna_00_1198
rna_00_1199
rna_00_120
rna_00_1200
rna_00_1202
rna_00_1205
rna_00_1206
rna_00_1208
rna_00_121
rna_00_1210
rna_00_1211
rna_00_1212
rna_00_1213
rna_00_1214
rna_00_1215
rna_00_1216
rna_00_1218
rna_00_1219
rna_00_122
rna_00_1220
rna_00_1221
rna_00_1222
rna_00_1223
rna_00_1224
rna_00_1225
rna_00_1226
1e−20
1e−10
0.001
0.1
0.1+

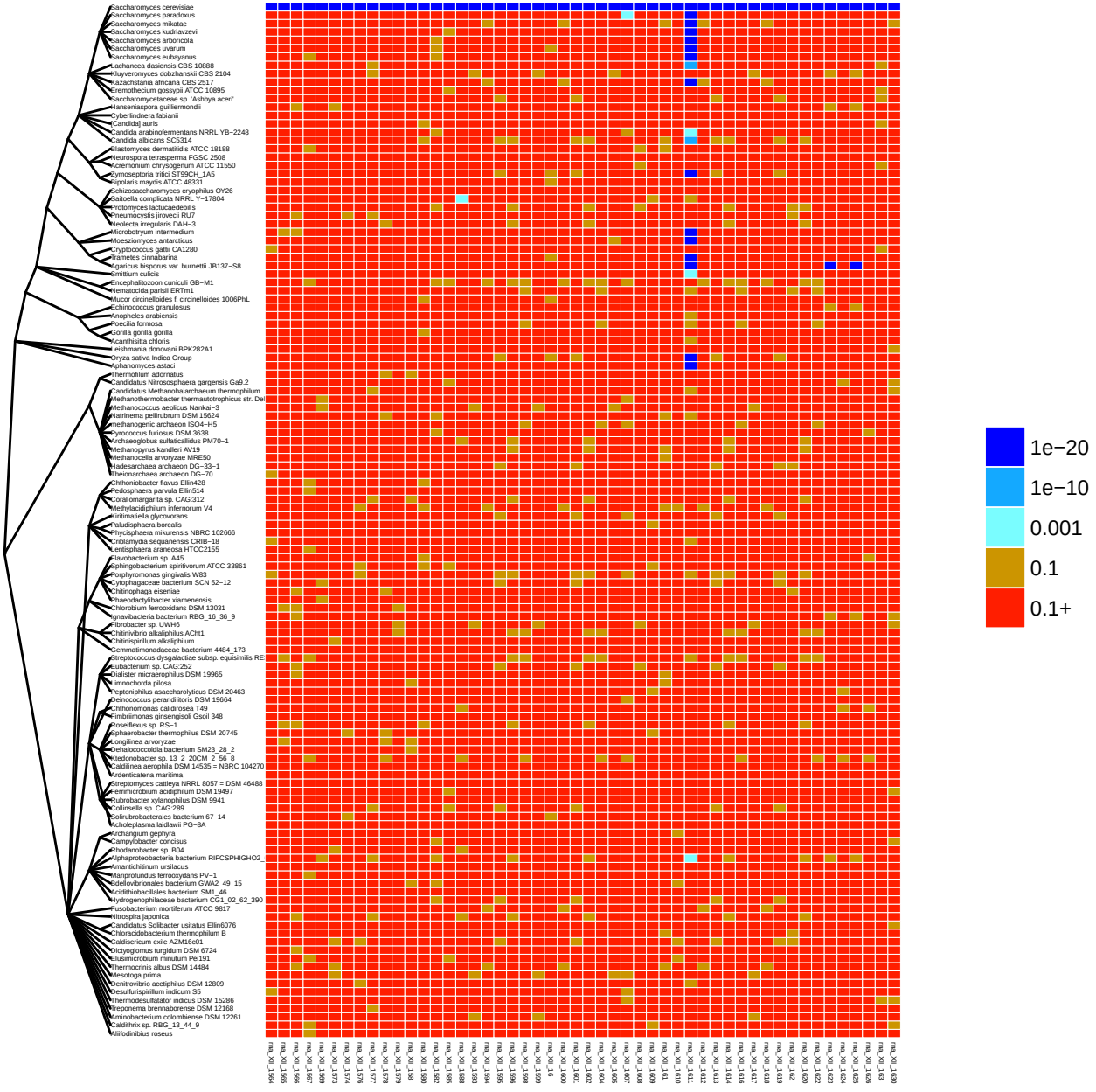

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Xiphinematobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
ma_X6_123
ma_X6_1230
ma_X6_1231
ma_X6_1233
ma_X6_1235
ma_X6_1236
ma_X6_1237
ma_X6_1238
ma_X6_1239
ma_X6_124
ma_X6_1240
ma_X6_1241
ma_X6_1242
ma_X6_1245
ma_X6_1246
ma_X6_1247
ma_X6_1248
ma_X6_125
ma_X6_1250
ma_X6_1251
ma_X6_1252
ma_X6_1255
ma_X6_1257
ma_X6_1259
ma_X6_126
ma_X6_1261
ma_X6_1262
ma_X6_1264
ma_X6_1265
ma_X6_1267
ma_X6_1268
ma_X6_1269
ma_X6_127
ma_X6_1270
ma_X6_1273
ma_X6_1274
ma_X6_1275
ma_X6_1276
ma_X6_1277
ma_X6_1279
ma_X6_1281
ma_X6_1283
ma_X6_1284
ma_X6_1285
ma_X6_1286
ma_X6_1287
ma_X6_1288
ma_X6_1289
ma_X6_1291
ma_X6_1292
1e−20
1e−10
0.001
0.1
0.1+

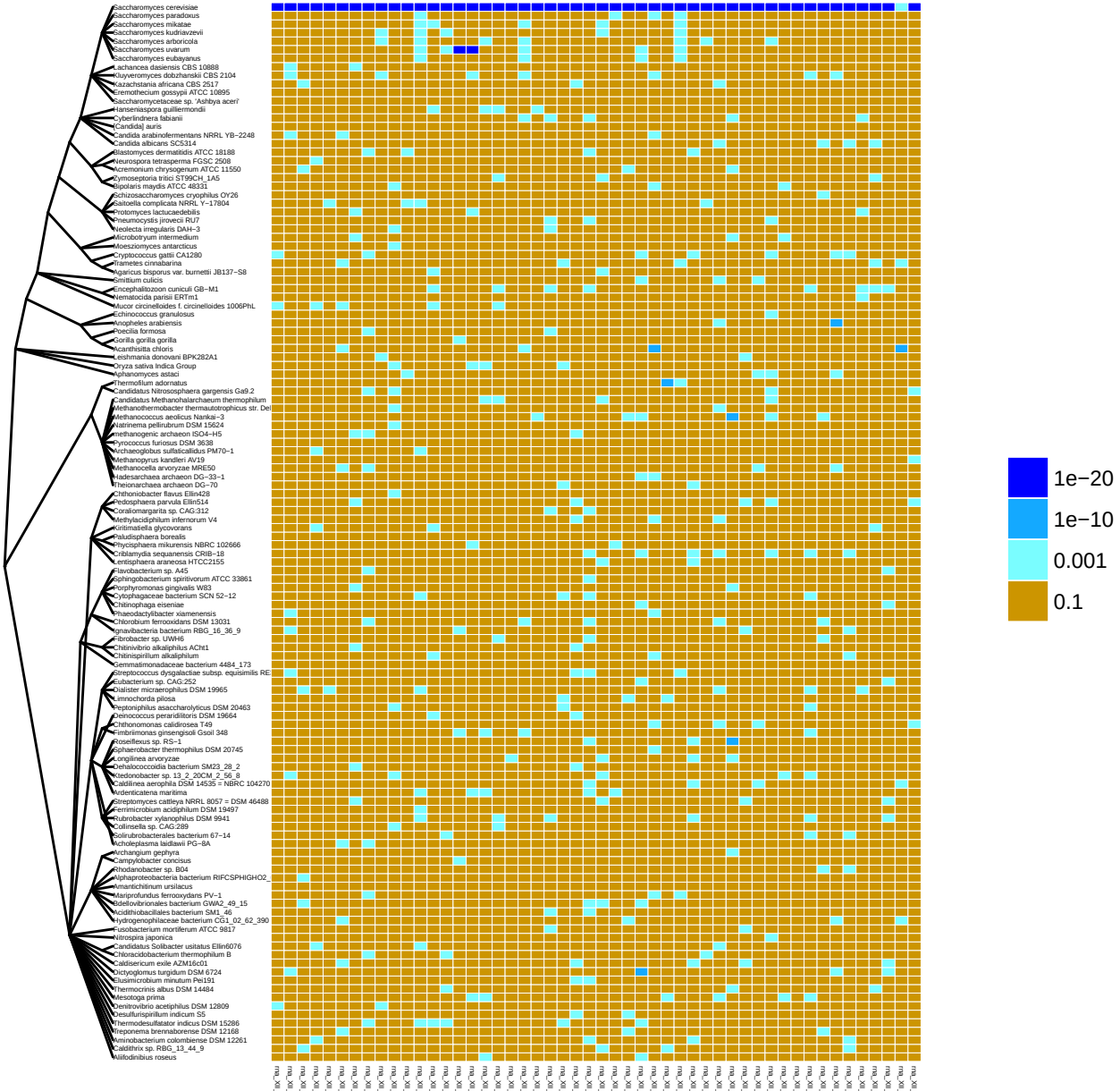

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_X0_1293
mu_X0_1294
mu_X0_1297
mu_X0_1298
mu_X0_1299
mu_X0_13
mu_X0_1302
mu_X0_1303
mu_X0_1304
mu_X0_1306
mu_X0_1307
mu_X0_1308
mu_X0_1309
mu_X0_131
mu_X0_1310
mu_X0_1311
mu_X0_1312
mu_X0_1313
mu_X0_1314
mu_X0_1316
mu_X0_1318
mu_X0_132
mu_X0_1321
mu_X0_1322
mu_X0_1323
mu_X0_1324
mu_X0_1325
mu_X0_1327
mu_X0_1328
mu_X0_1329
mu_X0_133
mu_X0_1330
mu_X0_1331
mu_X0_1332
mu_X0_1335
mu_X0_1336
mu_X0_1337
mu_X0_1338
mu_X0_134
mu_X0_1340
mu_X0_1342
mu_X0_1345
mu_X0_1347
mu_X0_1348
mu_X0_1349
mu_X0_135
mu_X0_1350
mu_X0_1352
mu_X0_1353
mu_X0_1355
1e−20
1e−10
0.001
0.1
0.1+

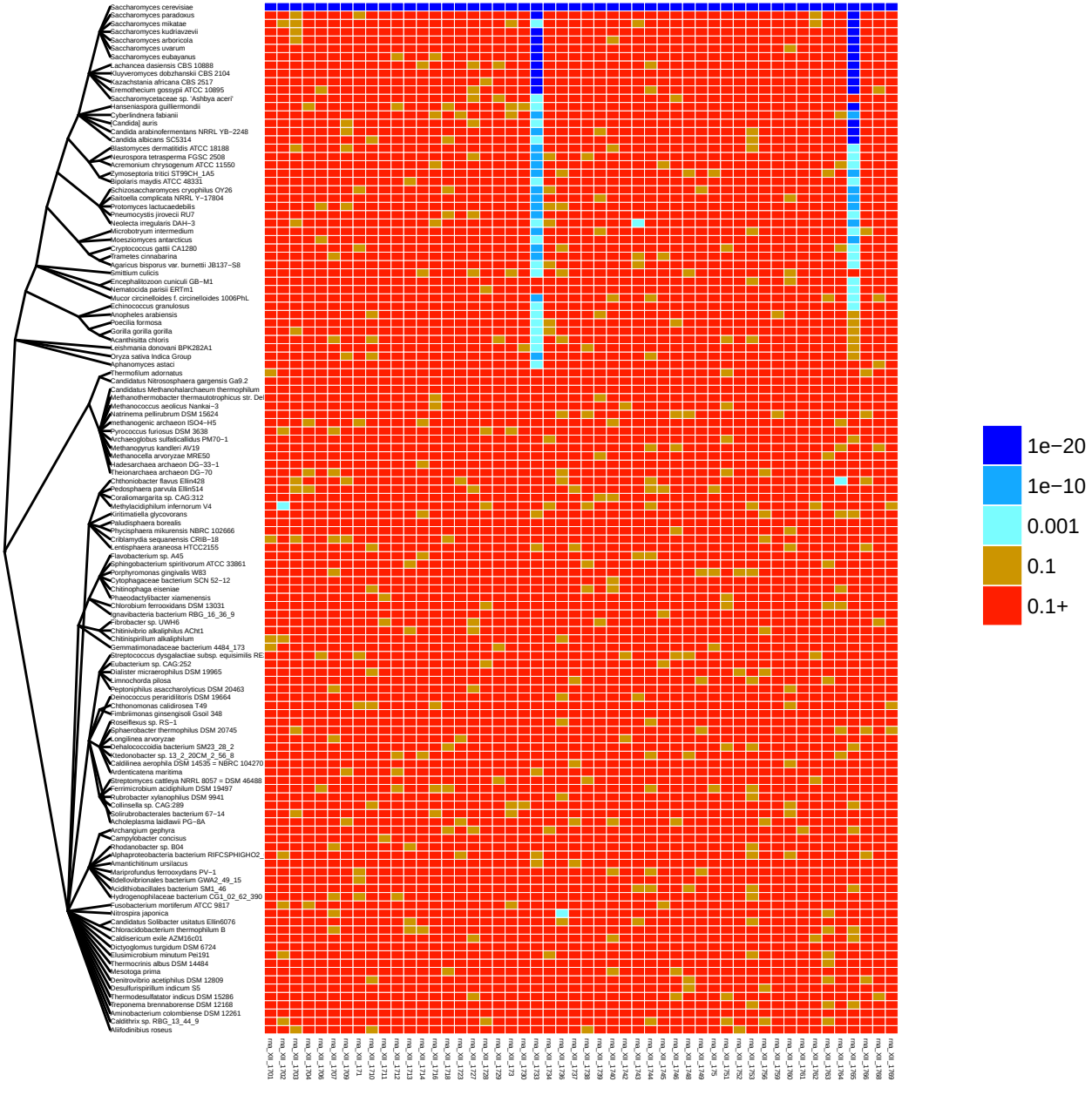

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_00_1356
ma_00_1357
ma_00_1358
ma_00_1360
ma_00_1361
ma_00_1362
ma_00_1363
ma_00_1364
ma_00_1366
ma_00_1367
ma_00_137
ma_00_1373
ma_00_1375
ma_00_1376
ma_00_1377
ma_00_1379
ma_00_1380
ma_00_1383
ma_00_1387
ma_00_139
ma_00_1391
ma_00_1392
ma_00_1398
ma_00_1399
ma_00_14
ma_00_140
ma_00_1401
ma_00_1403
ma_00_1405
ma_00_1407
ma_00_1408
ma_00_1409
ma_00_141
ma_00_1410
ma_00_1411
ma_00_1412
ma_00_1413
ma_00_1417
ma_00_142
ma_00_1420
ma_00_1421
ma_00_1422
ma_00_1423
ma_00_1424
ma_00_1425
ma_00_1426
ma_00_1427
ma_00_1428
ma_00_1429
ma_00_143
1e−20
1e−10
0.001
0.1

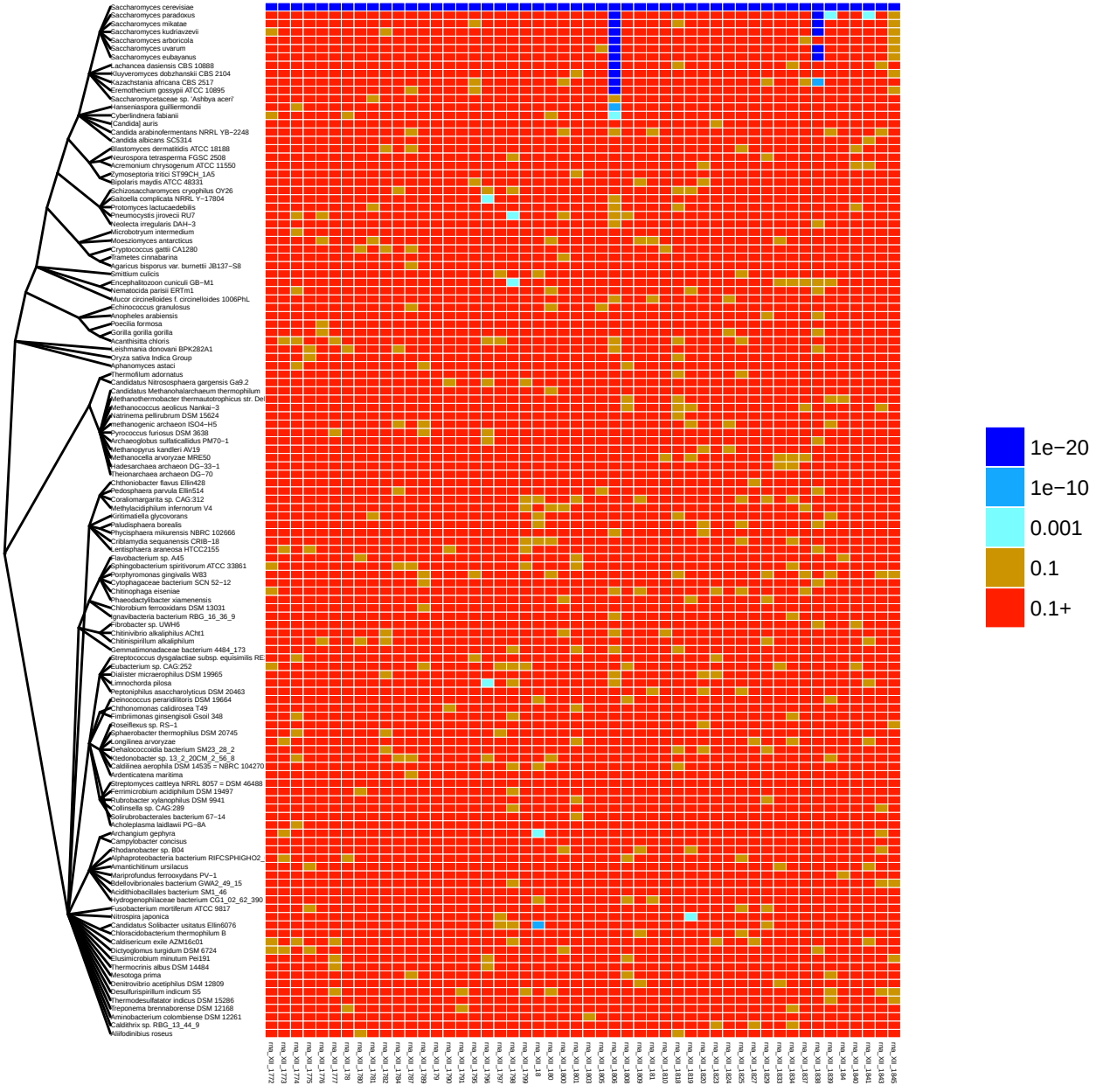

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_00_1430
mu_00_1431
mu_00_1432
mu_00_1433
mu_00_1434
mu_00_1435
mu_00_1436
mu_00_1437
mu_00_1438
mu_00_1439
mu_00_144
mu_00_1440
mu_00_1444
mu_00_1445
mu_00_1446
mu_00_1447
mu_00_1448
mu_00_1449
mu_00_1450
mu_00_1451
mu_00_1452
mu_00_1454
mu_00_1459
mu_00_1458
mu_00_1461
mu_00_1462
mu_00_1464
mu_00_1465
mu_00_1466
mu_00_1469
mu_00_147
mu_00_1470
mu_00_1471
mu_00_1472
mu_00_1473
mu_00_1474
mu_00_1475
mu_00_1476
mu_00_148
mu_00_1482
mu_00_1484
mu_00_1486
mu_00_1487
mu_00_1488
mu_00_1489
mu_00_149
mu_00_1490
mu_00_1491
mu_00_1494
mu_00_1495
1e−20
1e−10
0.001
0.1

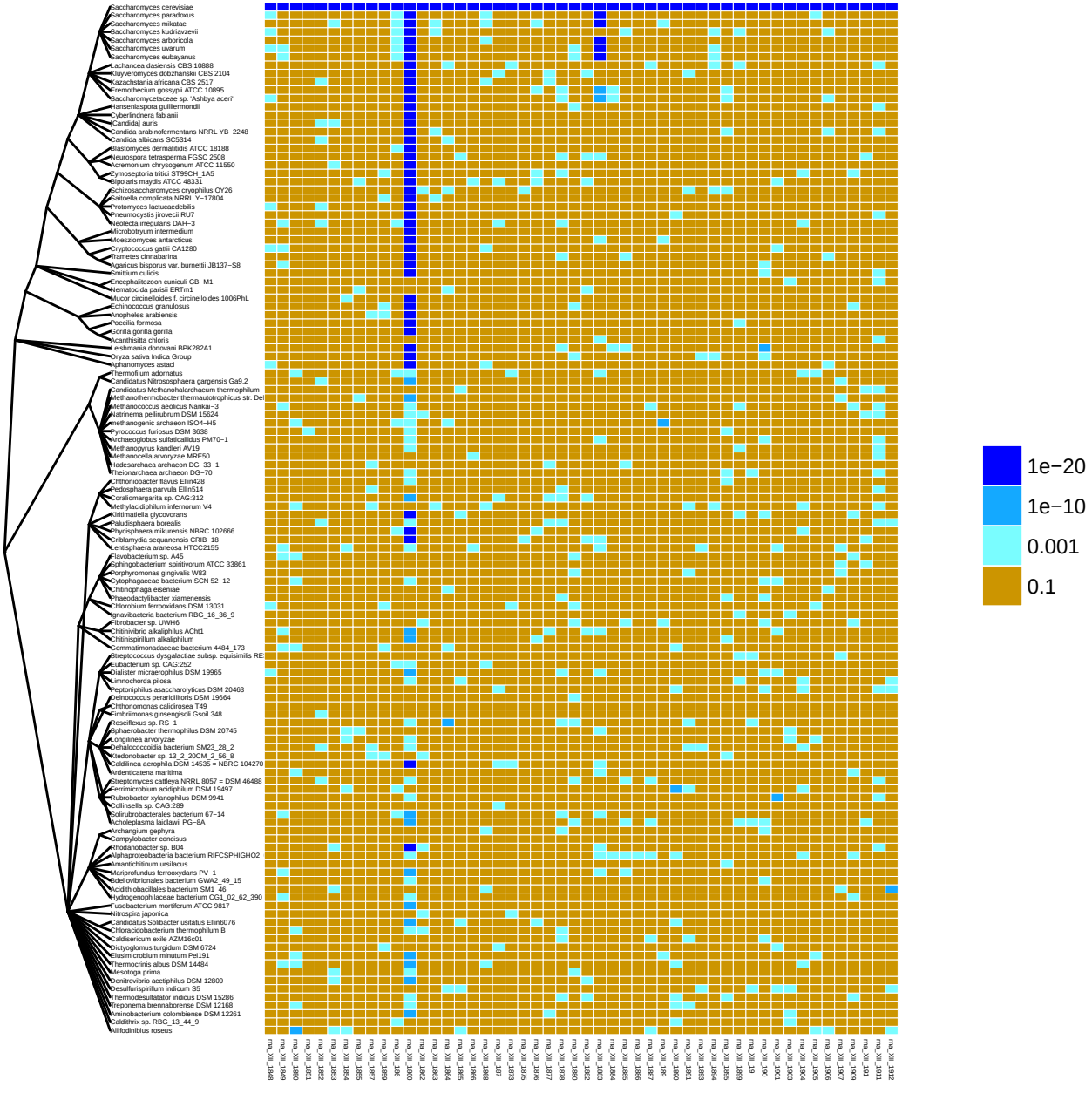

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_00_1496
mu_00_1498
mu_00_1501
mu_00_1503
mu_00_1504
mu_00_1505
mu_00_1506
mu_00_1508
mu_00_1511
mu_00_1512
mu_00_1514
mu_00_1516
mu_00_1517
mu_00_1519
mu_00_1520
mu_00_1521
mu_00_1522
mu_00_1523
mu_00_1524
mu_00_1525
mu_00_1526
mu_00_1529
mu_00_1531
mu_00_1532
mu_00_1534
mu_00_1535
mu_00_1536
mu_00_1537
mu_00_1538
mu_00_1539
mu_00_1541
mu_00_1544
mu_00_1546
mu_00_1547
mu_00_1548
mu_00_1549
mu_00_1550
mu_00_1551
mu_00_1553
mu_00_1554
mu_00_1555
mu_00_1556
mu_00_1557
mu_00_1558
mu_00_1559
mu_00_156
mu_00_1561
mu_00_1562
mu_00_1563
1e−20
1e−10
0.001
0.1
0.1+

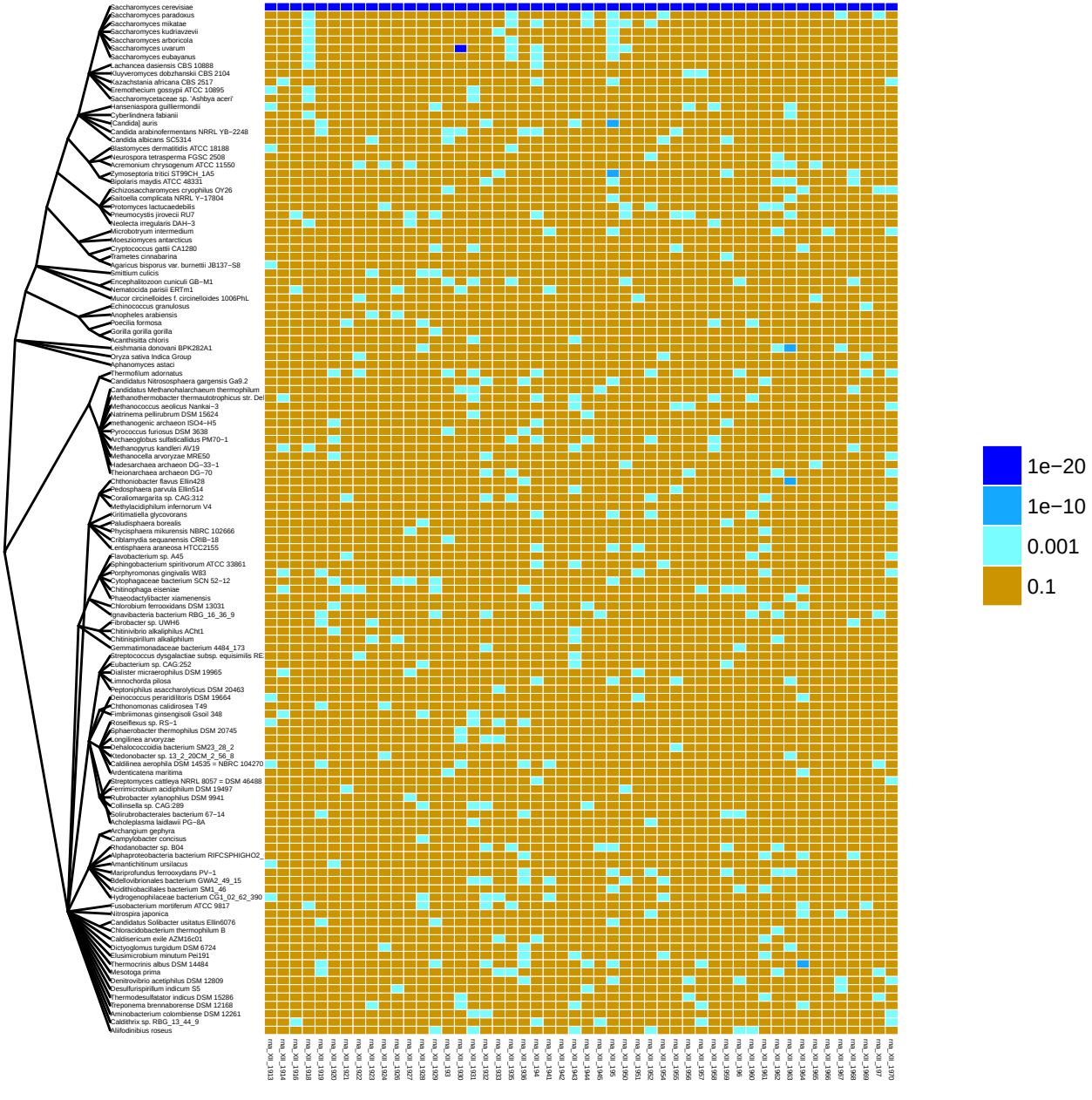

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
ma_X6_1564
ma_X6_1565
ma_X6_1566
ma_X6_1567
ma_X6_1569
ma_X6_1573
ma_X6_1574
ma_X6_1576
ma_X6_1577
ma_X6_1578
ma_X6_158
ma_X6_1579
ma_X6_1580
ma_X6_1582
ma_X6_1585
ma_X6_1588
ma_X6_1593
ma_X6_1594
ma_X6_1595
ma_X6_1596
ma_X6_1598
ma_X6_1599
ma_X6_16
ma_X6_1600
ma_X6_1601
ma_X6_1602
ma_X6_1604
ma_X6_1605
ma_X6_1607
ma_X6_1608
ma_X6_1609
ma_X6_161
ma_X6_1610
ma_X6_1611
ma_X6_1612
ma_X6_1613
ma_X6_1614
ma_X6_1616
ma_X6_1617
ma_X6_1618
ma_X6_1619
ma_X6_162
ma_X6_1620
ma_X6_1622
ma_X6_1623
ma_X6_1624
ma_X6_1625
ma_X6_1626
ma_X6_163
ma_X6_1630
1e−20
1e−10
0.001
0.1
0.1+

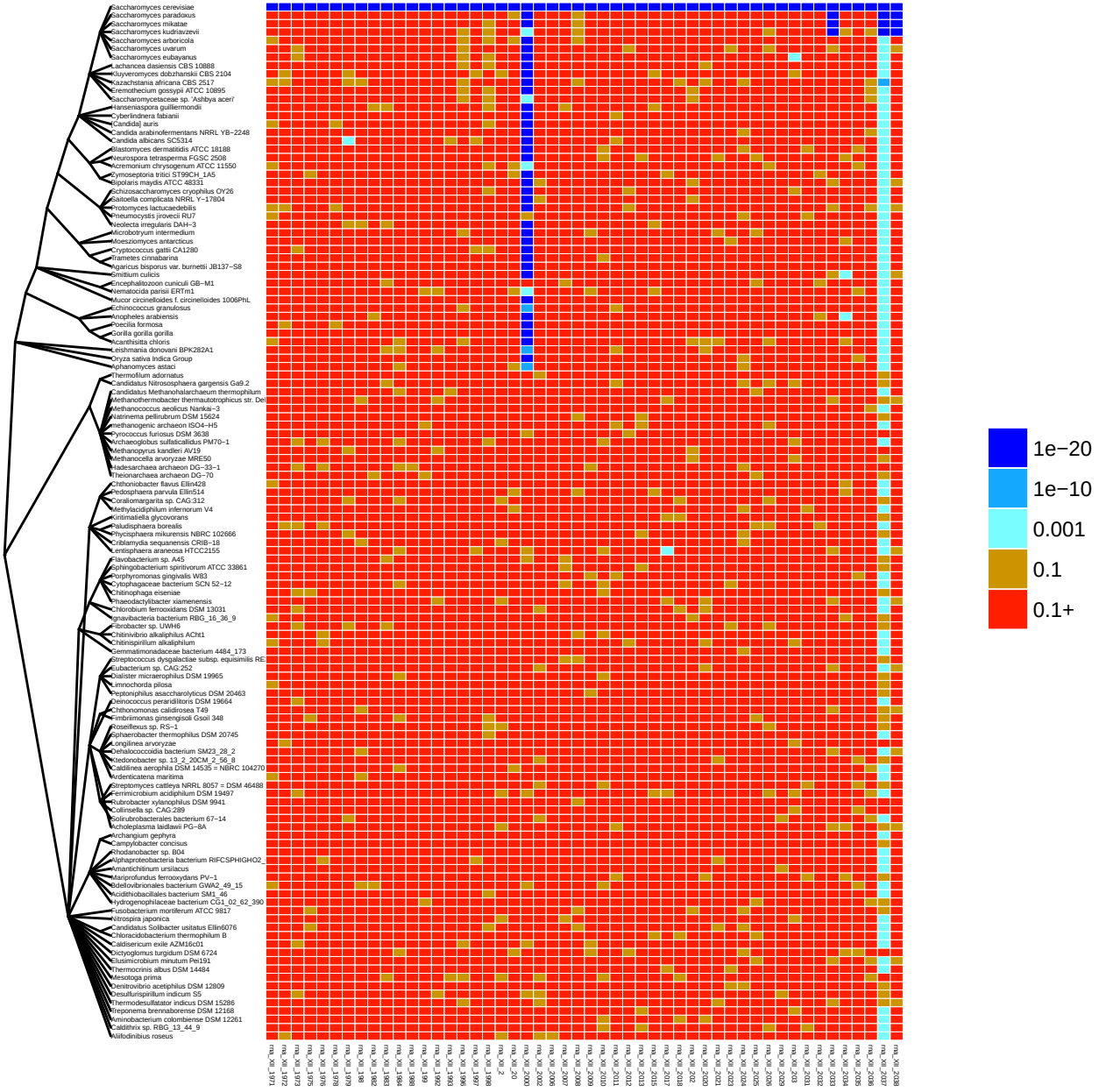

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_X6_1633
mu_X6_1636
mu_X6_1637
mu_X6_1638
mu_X6_1639
mu_X6_1644
mu_X6_1645
mu_X6_1646
mu_X6_1647
mu_X6_165
mu_X6_1651
mu_X6_1652
mu_X6_1653
mu_X6_1654
mu_X6_1655
mu_X6_1656
mu_X6_1657
mu_X6_1658
mu_X6_166
mu_X6_1660
mu_X6_1661
mu_X6_1662
mu_X6_1663
mu_X6_1664
mu_X6_1665
mu_X6_1666
mu_X6_1667
mu_X6_1668
mu_X6_1669
mu_X6_167
mu_X6_1670
mu_X6_1673
mu_X6_1676
mu_X6_1677
mu_X6_1678
mu_X6_168
mu_X6_1681
mu_X6_1682
mu_X6_1685
mu_X6_169
mu_X6_1692
mu_X6_1693
mu_X6_1694
mu_X6_1695
mu_X6_1696
mu_X6_1697
mu_X6_1698
mu_X6_17
mu_X6_1700
1e−20
1e−10
0.001
0.1

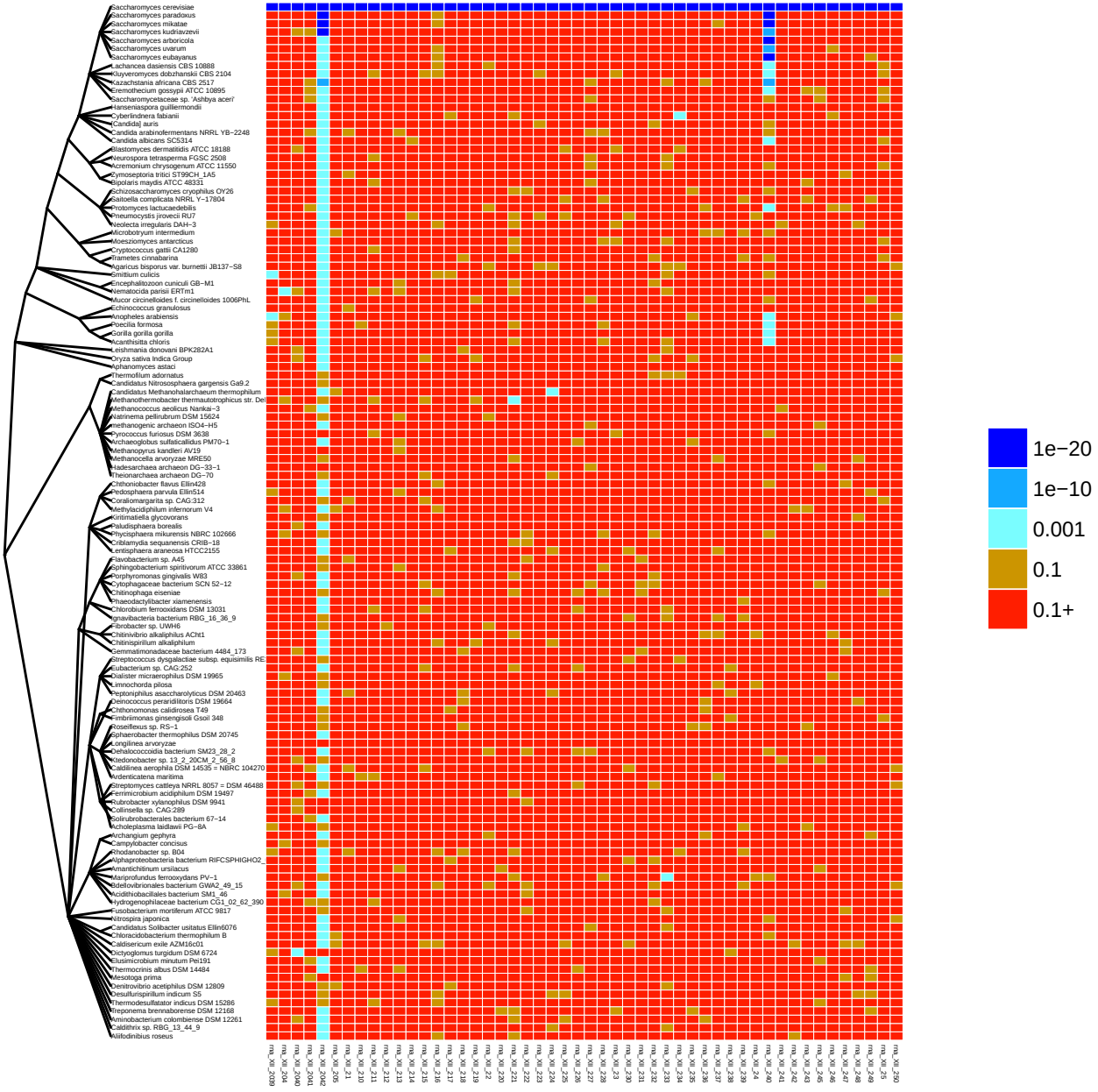

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ropolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_06_1701
mu_06_1702
mu_06_1703
mu_06_1704
mu_06_1706
mu_06_1707
mu_06_1709
mu_06_171
mu_06_1710
mu_06_1711
mu_06_1712
mu_06_1713
mu_06_1714
mu_06_1716
mu_06_1718
mu_06_1723
mu_06_1727
mu_06_1728
mu_06_1729
mu_06_173
mu_06_1730
mu_06_1733
mu_06_1734
mu_06_1736
mu_06_1737
mu_06_1738
mu_06_1739
mu_06_1740
mu_06_1742
mu_06_1743
mu_06_1744
mu_06_1745
mu_06_1746
mu_06_1748
mu_06_1749
mu_06_175
mu_06_1751
mu_06_1752
mu_06_1753
mu_06_1756
mu_06_1759
mu_06_1760
mu_06_1761
mu_06_1762
mu_06_1763
mu_06_1764
mu_06_1765
mu_06_1766
mu_06_1768
mu_06_1769
1e−20
1e−10
0.001
0.1
0.1+

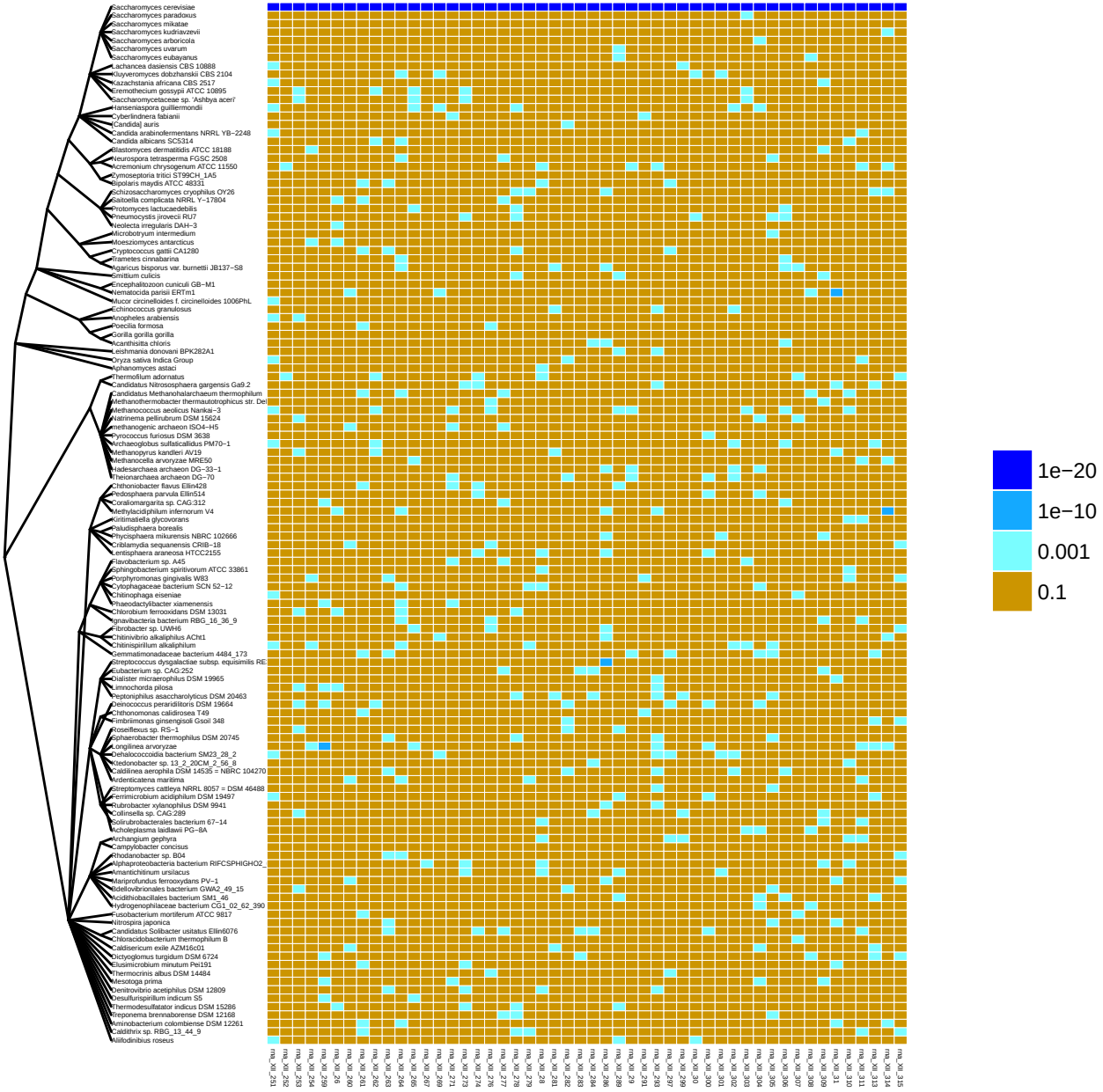

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_X6_1772
ma_X6_1773
ma_X6_1774
ma_X6_1775
ma_X6_1776
ma_X6_1777
ma_X6_178
ma_X6_1780
ma_X6_1781
ma_X6_1782
ma_X6_1784
ma_X6_1787
ma_X6_1789
ma_X6_179
ma_X6_1790
ma_X6_1791
ma_X6_1795
ma_X6_1796
ma_X6_1797
ma_X6_1798
ma_X6_1799
ma_X6_19
ma_X6_180
ma_X6_1800
ma_X6_1801
ma_X6_1803
ma_X6_1805
ma_X6_1806
ma_X6_1808
ma_X6_1809
ma_X6_181
ma_X6_1810
ma_X6_1818
ma_X6_1819
ma_X6_1820
ma_X6_1823
ma_X6_1824
ma_X6_1825
ma_X6_1827
ma_X6_1829
ma_X6_1833
ma_X6_1834
ma_X6_1837
ma_X6_1838
ma_X6_1839
ma_X6_184
ma_X6_1840
ma_X6_1841
ma_X6_1843
ma_X6_1845
1e−20
1e−10
0.001
0.1
0.1+

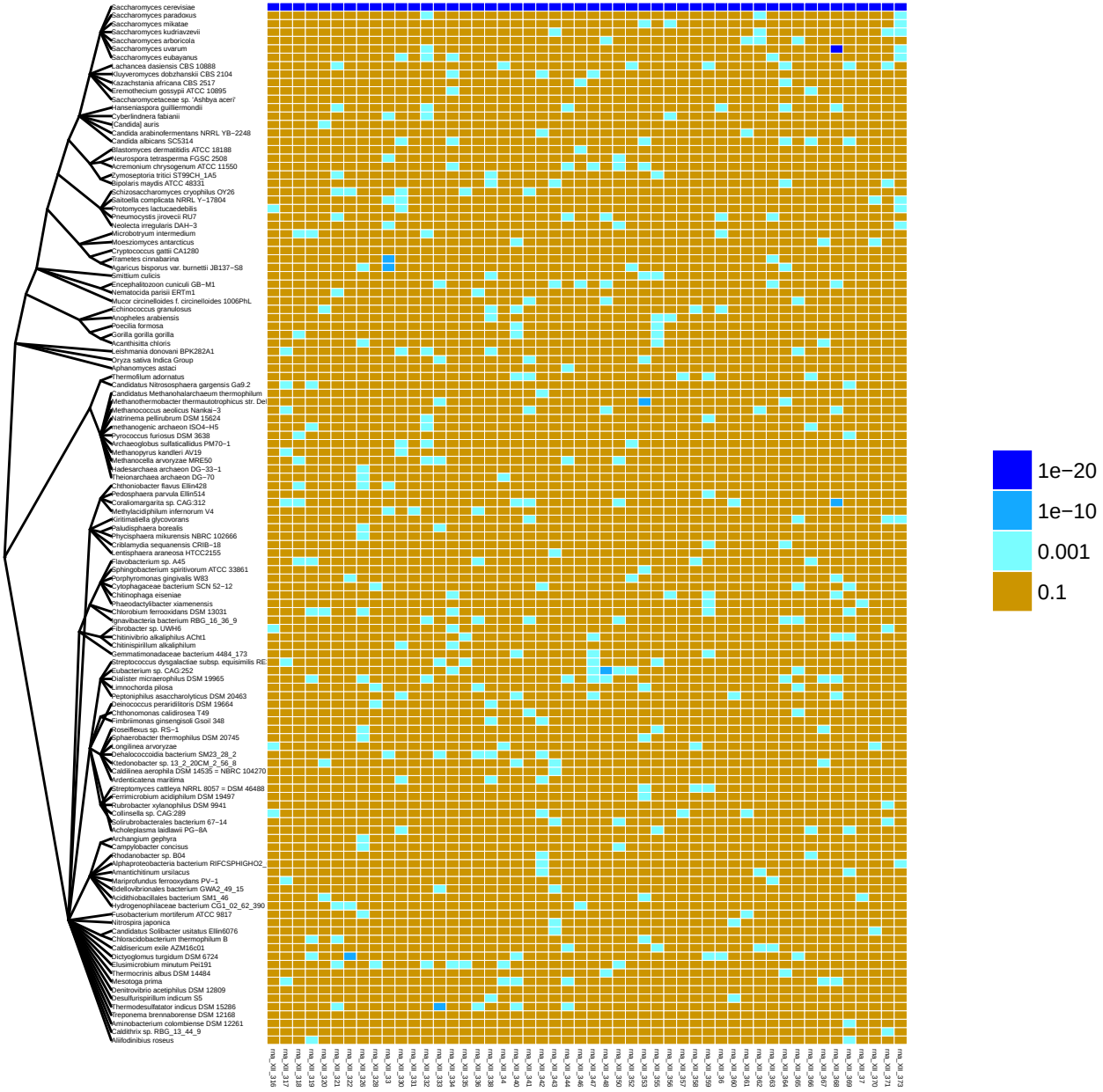

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
nu_XK_1848
nu_XK_1849
nu_XK_1850
nu_XK_1851
nu_XK_1852
nu_XK_1853
nu_XK_1854
nu_XK_1855
nu_XK_1857
nu_XK_1859
nu_XK_186
nu_XK_1860
nu_XK_1862
nu_XK_1863
nu_XK_1864
nu_XK_1865
nu_XK_1866
nu_XK_1868
nu_XK_187
nu_XK_1873
nu_XK_1875
nu_XK_1876
nu_XK_1877
nu_XK_1878
nu_XK_1880
nu_XK_1882
nu_XK_1883
nu_XK_1884
nu_XK_1885
nu_XK_1886
nu_XK_1887
nu_XK_189
nu_XK_1890
nu_XK_1891
nu_XK_1893
nu_XK_1894
nu_XK_1895
nu_XK_1896
nu_XK_1899
nu_XK_19
nu_XK_190
nu_XK_1901
nu_XK_1903
nu_XK_1904
nu_XK_1905
nu_XK_1906
nu_XK_1907
nu_XK_1909
nu_XK_191
nu_XK_1910
nu_XK_1911
nu_XK_1912
1e−20
1e−10
0.001
0.1

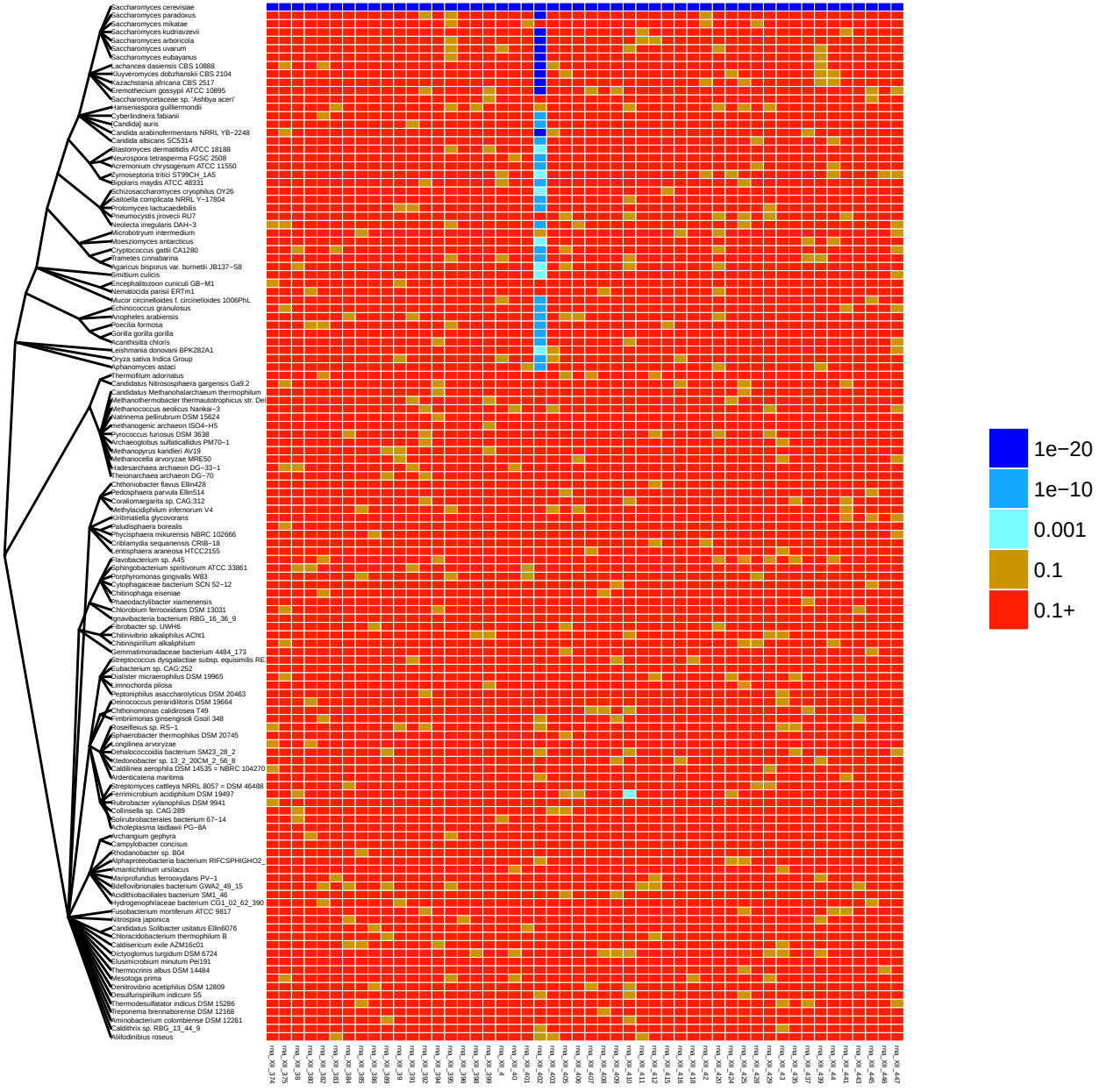

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1

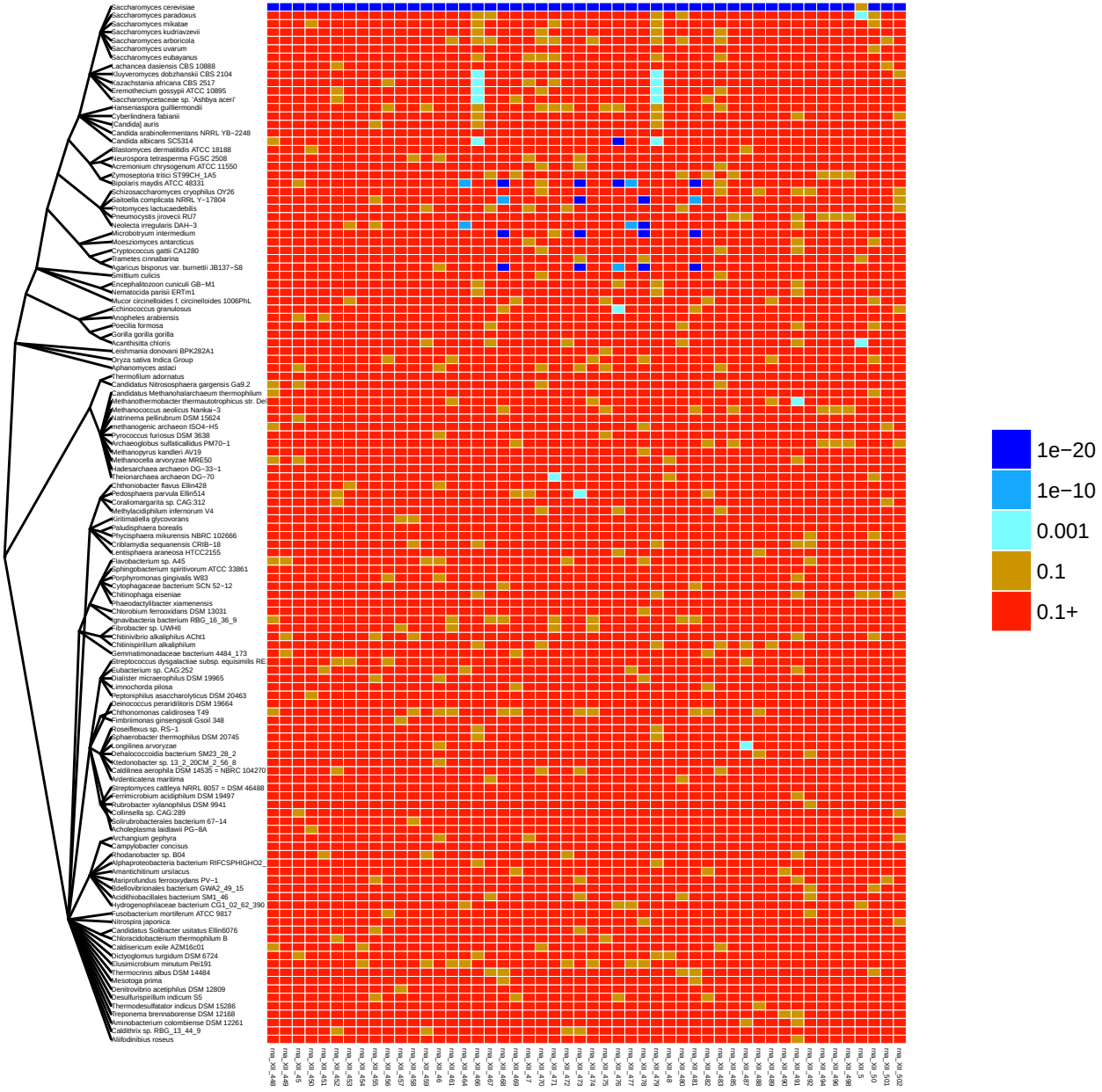

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_X6_1971
ma_X6_1972
ma_X6_1973
ma_X6_1975
ma_X6_1976
ma_X6_1978
ma_X6_1979
ma_X6_198
ma_X6_1982
ma_X6_1983
ma_X6_1984
ma_X6_1988
ma_X6_199
ma_X6_1992
ma_X6_1993
ma_X6_1996
ma_X6_1997
ma_X6_1998
ma_X6_2
ma_X6_20
ma_X6_2000
ma_X6_2002
ma_X6_2006
ma_X6_2007
ma_X6_2008
ma_X6_2009
ma_X6_2010
ma_X6_2011
ma_X6_2012
ma_X6_2013
ma_X6_2015
ma_X6_2017
ma_X6_2018
ma_X6_202
ma_X6_2020
ma_X6_2021
ma_X6_2023
ma_X6_2024
ma_X6_2025
ma_X6_2026
ma_X6_2029
ma_X6_203
ma_X6_2031
ma_X6_2032
ma_X6_2033
ma_X6_2034
ma_X6_2035
ma_X6_2036
ma_X6_2037
ma_X6_2038
1e−20
1e−10
0.001
0.1
0.1+

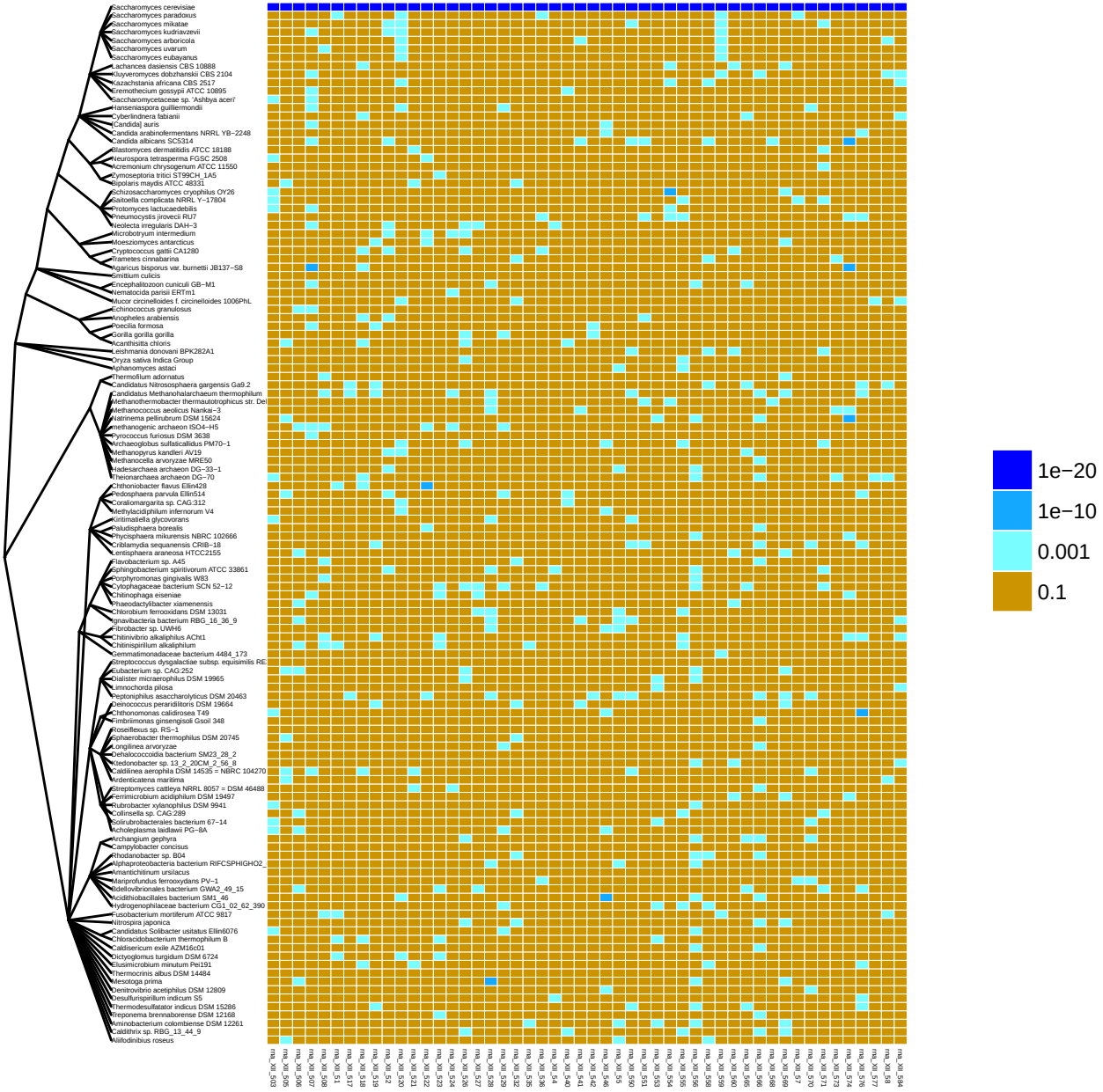

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thaumarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X0_209
ma_X0_204
ma_X0_200
ma_X0_201
ma_X0_202
ma_X0_205
ma_X0_21
ma_X0_210
ma_X0_211
ma_X0_212
ma_X0_213
ma_X0_214
ma_X0_215
ma_X0_216
ma_X0_217
ma_X0_218
ma_X0_219
ma_X0_22
ma_X0_220
ma_X0_221
ma_X0_222
ma_X0_223
ma_X0_224
ma_X0_225
ma_X0_226
ma_X0_227
ma_X0_228
ma_X0_23
ma_X0_230
ma_X0_231
ma_X0_232
ma_X0_233
ma_X0_234
ma_X0_235
ma_X0_236
ma_X0_237
ma_X0_238
ma_X0_239
ma_X0_24
ma_X0_240
ma_X0_241
ma_X0_242
ma_X0_243
ma_X0_245
ma_X0_246
ma_X0_247
ma_X0_248
ma_X0_249
ma_X0_25
ma_X0_250
1e−20
1e−10
0.001
0.1
0.1+

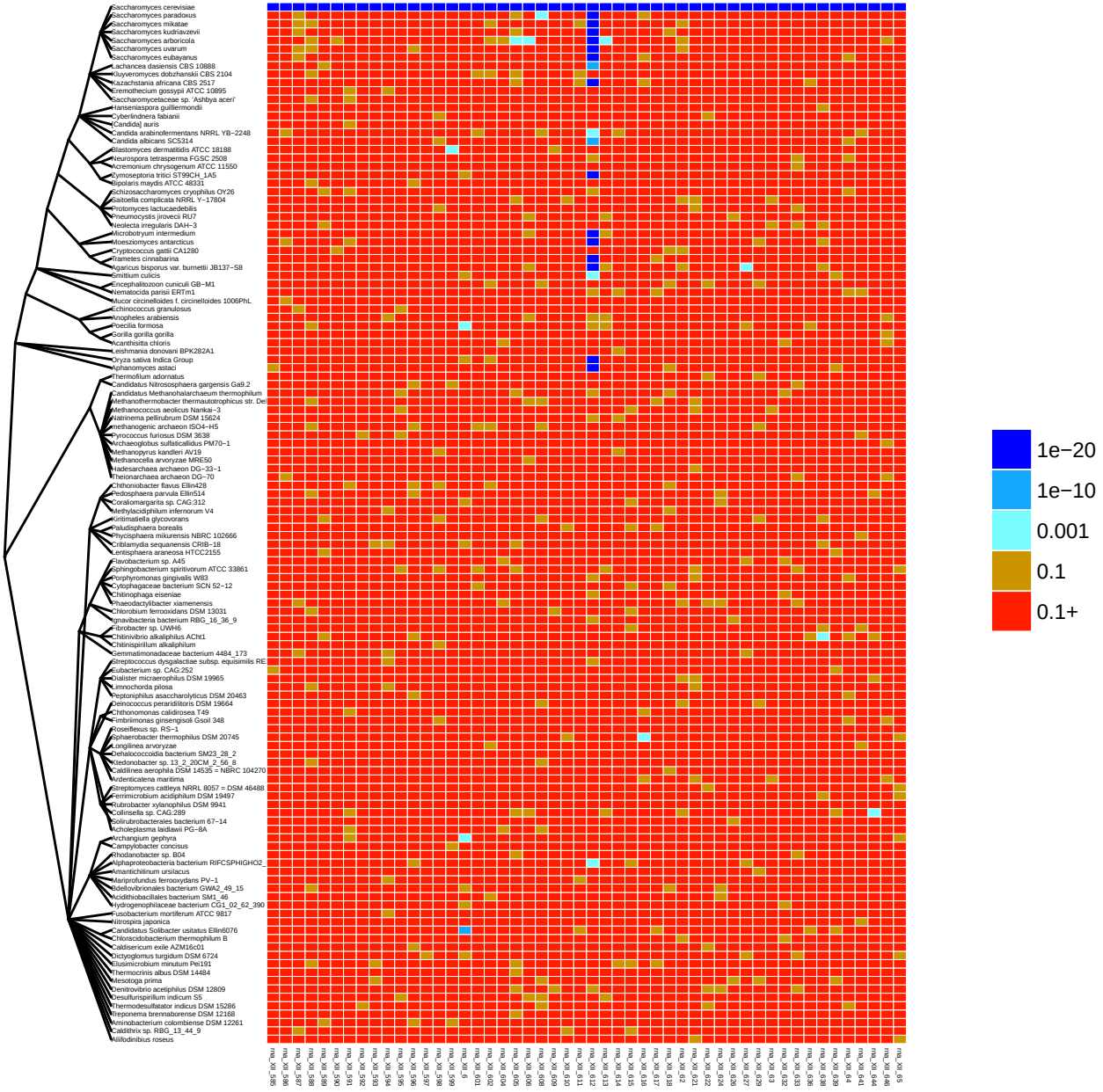

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_X6_251
ma_X6_252
ma_X6_253
ma_X6_254
ma_X6_259
ma_X6_26
ma_X6_260
ma_X6_261
ma_X6_262
ma_X6_263
ma_X6_264
ma_X6_265
ma_X6_267
ma_X6_269
ma_X6_271
ma_X6_273
ma_X6_274
ma_X6_276
ma_X6_277
ma_X6_278
ma_X6_279
ma_X6_28
ma_X6_281
ma_X6_282
ma_X6_283
ma_X6_284
ma_X6_286
ma_X6_289
ma_X6_29
ma_X6_291
ma_X6_293
ma_X6_297
ma_X6_299
ma_X6_30
ma_X6_300
ma_X6_301
ma_X6_302
ma_X6_303
ma_X6_304
ma_X6_305
ma_X6_306
ma_X6_307
ma_X6_308
ma_X6_309
ma_X6_31
ma_X6_310
ma_X6_311
ma_X6_313
ma_X6_314
ma_X6_315
1e−20
1e−10
0.001
0.1

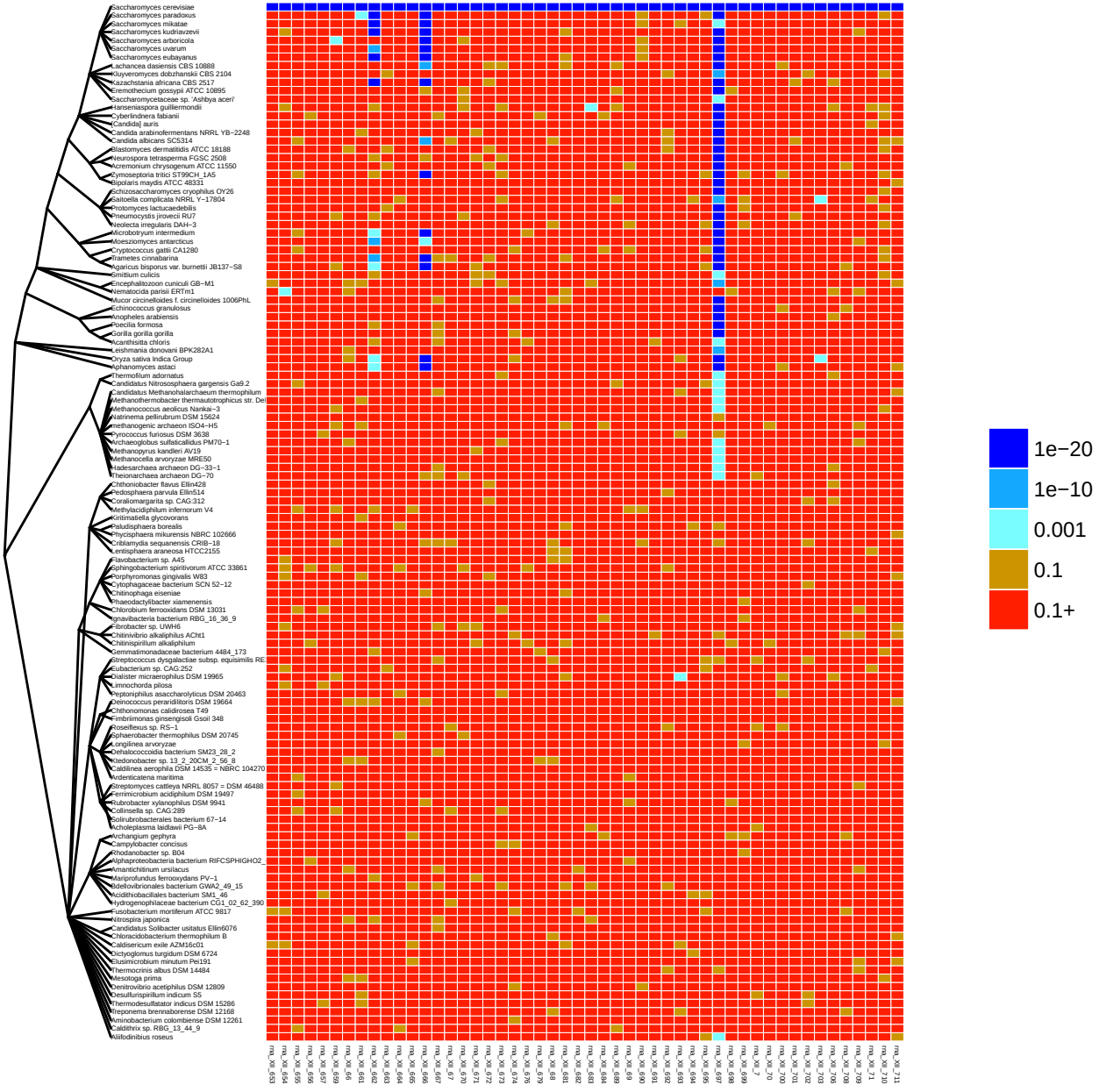

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X6_316
ma_X6_317
ma_X6_318
ma_X6_319
ma_X6_320
ma_X6_321
ma_X6_322
ma_X6_325
ma_X6_326
ma_X6_328
ma_X6_33
ma_X6_330
ma_X6_331
ma_X6_332
ma_X6_333
ma_X6_334
ma_X6_335
ma_X6_336
ma_X6_338
ma_X6_34
ma_X6_340
ma_X6_341
ma_X6_342
ma_X6_343
ma_X6_344
ma_X6_346
ma_X6_347
ma_X6_348
ma_X6_350
ma_X6_352
ma_X6_353
ma_X6_355
ma_X6_356
ma_X6_357
ma_X6_358
ma_X6_359
ma_X6_36
ma_X6_360
ma_X6_361
ma_X6_362
ma_X6_363
ma_X6_364
ma_X6_365
ma_X6_366
ma_X6_367
ma_X6_368
ma_X6_369
ma_X6_37
ma_X6_370
ma_X6_371
ma_X6_373
1e−20
1e−10
0.001
0.1

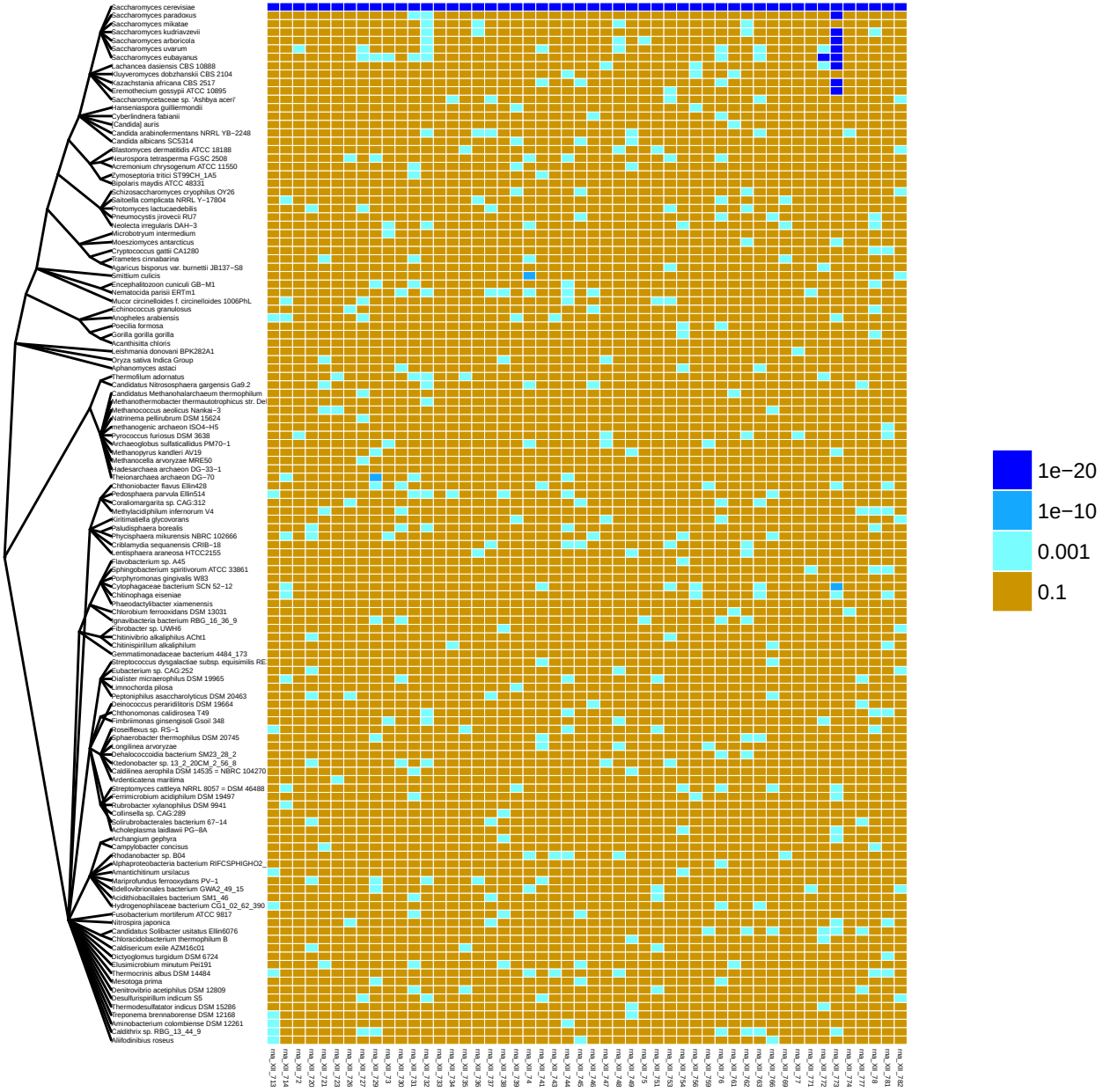

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mx_X6_374
mx_X6_375
mx_X6_379
mx_X6_380
mx_X6_382
mx_X6_383
mx_X6_384
mx_X6_385
mx_X6_386
mx_X6_389
mx_X6_39
mx_X6_391
mx_X6_392
mx_X6_394
mx_X6_395
mx_X6_396
mx_X6_398
mx_X6_399
mx_X6_4
mx_X6_40
mx_X6_401
mx_X6_402
mx_X6_403
mx_X6_405
mx_X6_406
mx_X6_407
mx_X6_408
mx_X6_409
mx_X6_410
mx_X6_411
mx_X6_412
mx_X6_415
mx_X6_416
mx_X6_418
mx_X6_42
mx_X6_420
mx_X6_424
mx_X6_425
mx_X6_428
mx_X6_429
mx_X6_43
mx_X6_435
mx_X6_437
mx_X6_439
mx_X6_44
mx_X6_441
mx_X6_443
mx_X6_445
mx_X6_446
mx_X6_447
1e−20
1e−10
0.001
0.1
0.1+

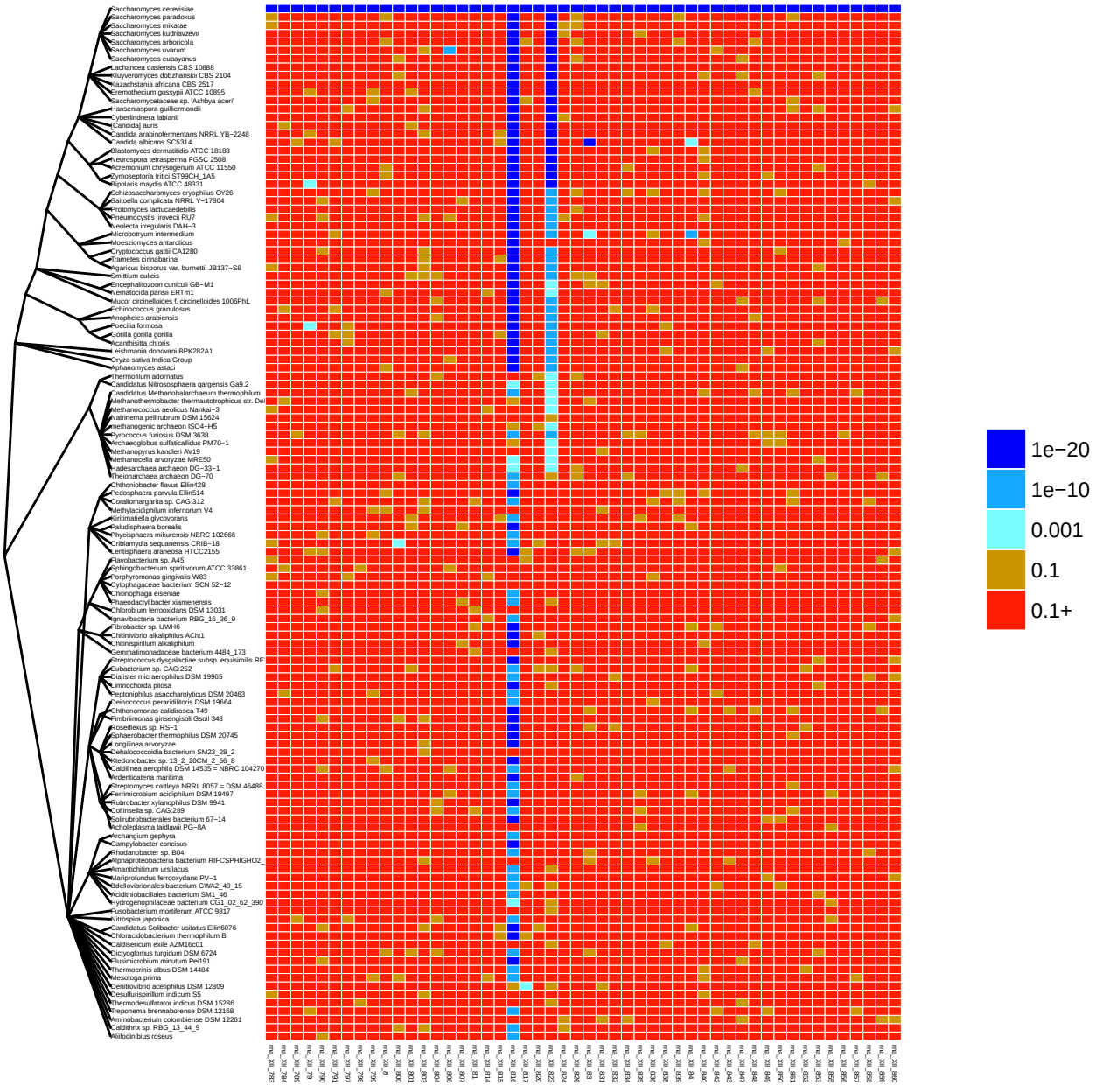

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_X6_448
mu_X6_449
mu_X6_45
mu_X6_450
mu_X6_451
mu_X6_452
mu_X6_453
mu_X6_454
mu_X6_455
mu_X6_456
mu_X6_457
mu_X6_458
mu_X6_459
mu_X6_46
mu_X6_461
mu_X6_464
mu_X6_466
mu_X6_467
mu_X6_468
mu_X6_469
mu_X6_47
mu_X6_470
mu_X6_471
mu_X6_472
mu_X6_473
mu_X6_474
mu_X6_475
mu_X6_476
mu_X6_477
mu_X6_478
mu_X6_479
mu_X6_48
mu_X6_480
mu_X6_481
mu_X6_482
mu_X6_483
mu_X6_485
mu_X6_487
mu_X6_488
mu_X6_489
mu_X6_490
mu_X6_491
mu_X6_492
mu_X6_494
mu_X6_496
mu_X6_498
mu_X6_5
mu_X6_50
mu_X6_501
mu_X6_502
1e−20
1e−10
0.001
0.1
0.1+

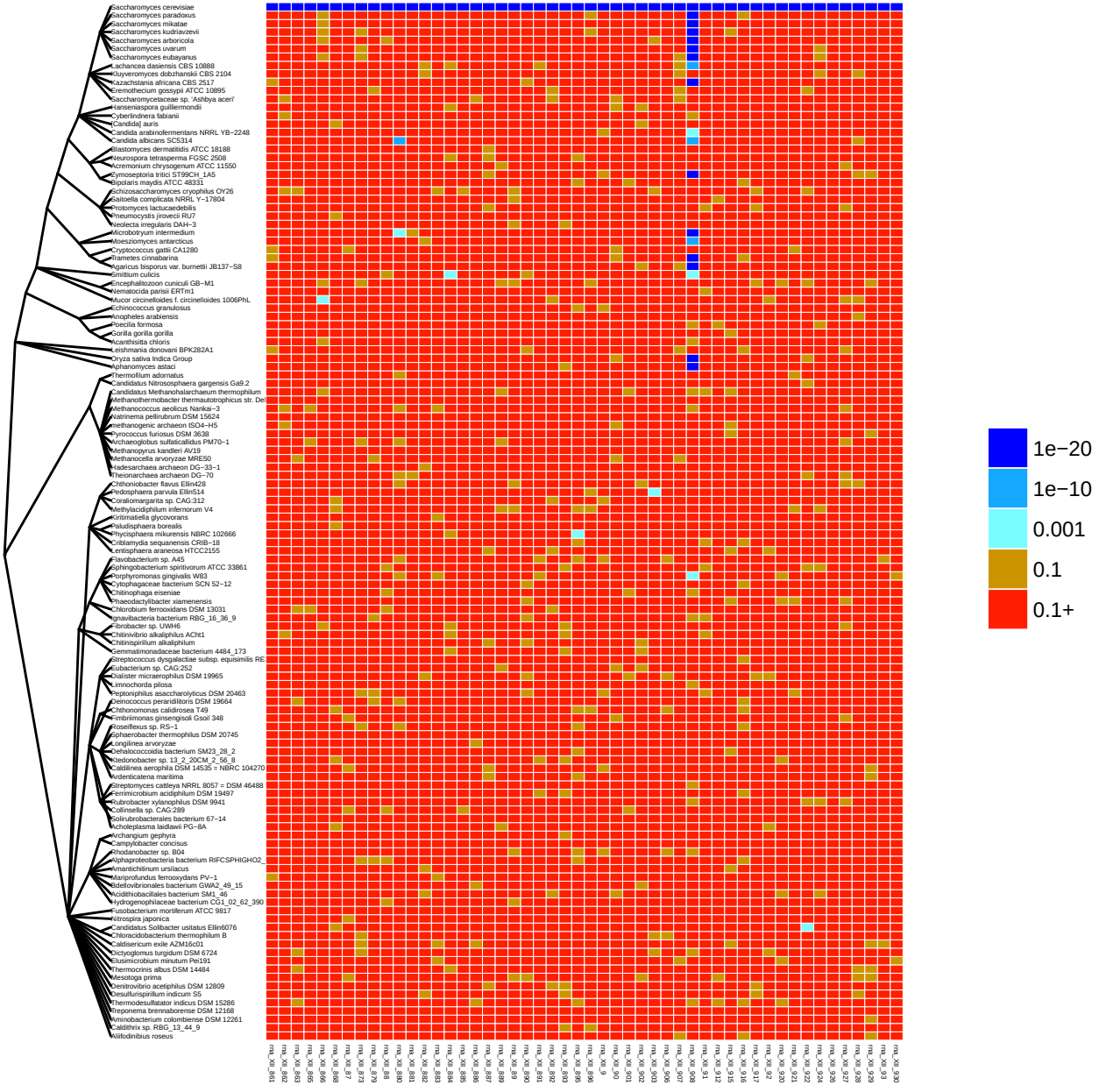

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aeseziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. K8
Candidatus Nitrosopumilus salaria BD31
Candidatus Nitrosotalea devanaterra Nd1
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis N4
Candidatus Nitrosotenuis cloacamonas ACT3
Candidatus Nitrosotenuis chungbukensis MY2
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY11
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY13
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY14
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY15
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY16
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY17
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY18
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY19
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY20
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY21
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY22
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY23
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY24
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY25
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY26
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY27
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY28
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY29
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY30
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY31
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY32
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY33
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY34
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY35
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY36
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY37
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY38
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY39
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY40
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY41
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY42
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY43
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY44
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY45
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY46
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY47
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY48
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY49
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY50
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY51
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY52
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY53
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY54
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY55
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY56
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY57
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY58
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY59
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY60
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY61
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY62
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY63
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY64
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY65
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY66
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY67
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY68
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY69
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY70
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY71
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY72
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY73
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY74
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY75
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY76
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY77
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY78
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY79
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY80
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY81
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY82
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY83
Candidatus Nitrosotenuis Cluster 1.1 Candidatus Nitrosotenuis Cluster 1.1 sp. MY84
1e−20
1e−10
0.001
0.1

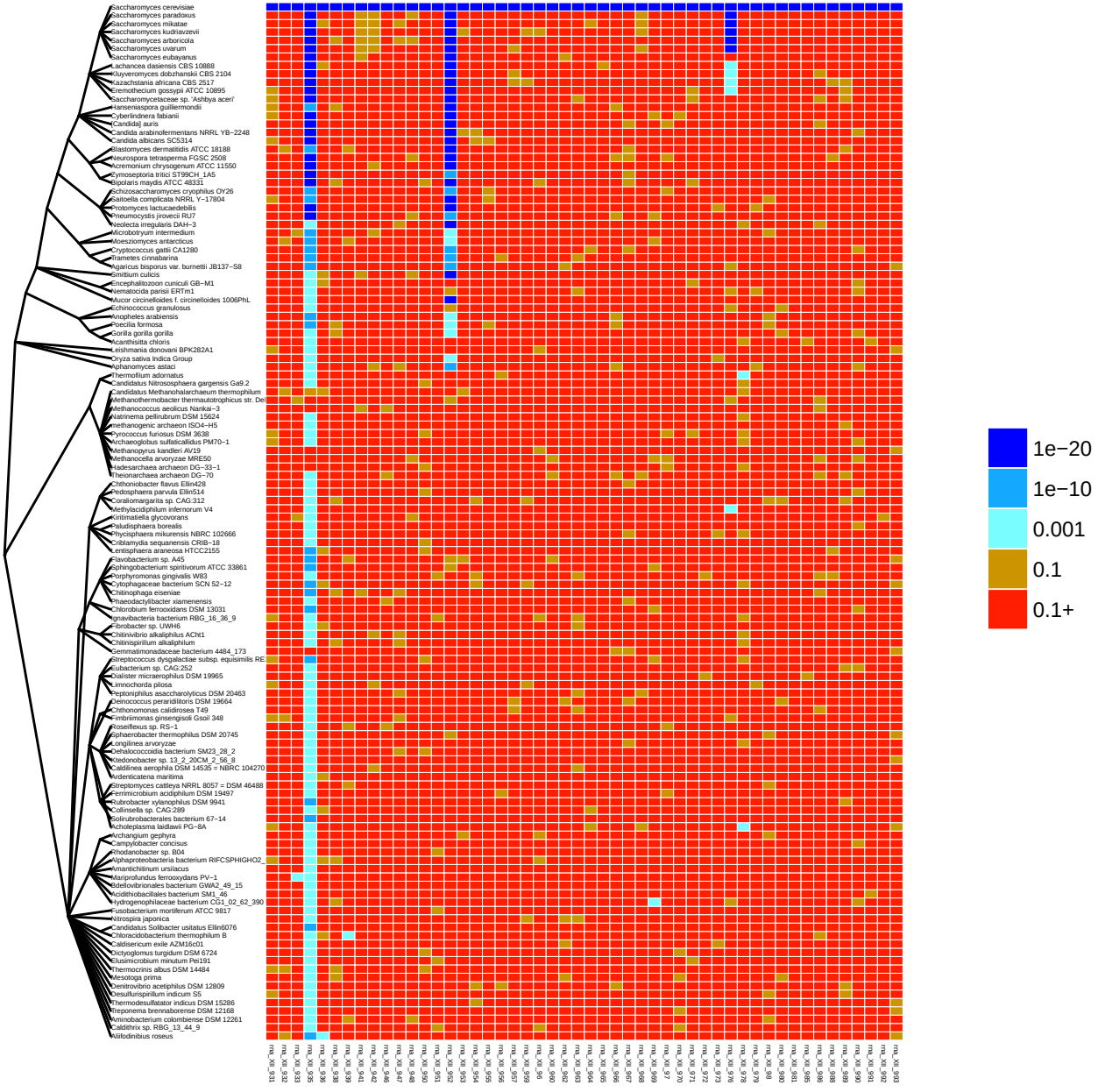

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mu_X0_585
mu_X0_586
mu_X0_587
mu_X0_588
mu_X0_589
mu_X0_590
mu_X0_591
mu_X0_592
mu_X0_593
mu_X0_594
mu_X0_595
mu_X0_596
mu_X0_597
mu_X0_598
mu_X0_599
mu_X0_6
mu_X0_601
mu_X0_602
mu_X0_604
mu_X0_605
mu_X0_606
mu_X0_608
mu_X0_609
mu_X0_610
mu_X0_611
mu_X0_612
mu_X0_613
mu_X0_614
mu_X0_615
mu_X0_616
mu_X0_617
mu_X0_618
mu_X0_62
mu_X0_621
mu_X0_622
mu_X0_624
mu_X0_626
mu_X0_627
mu_X0_629
mu_X0_63
mu_X0_632
mu_X0_633
mu_X0_636
mu_X0_638
mu_X0_639
mu_X0_64
mu_X0_641
mu_X0_644
mu_X0_646
mu_X0_65
1e−20
1e−10
0.001
0.1
0.1+

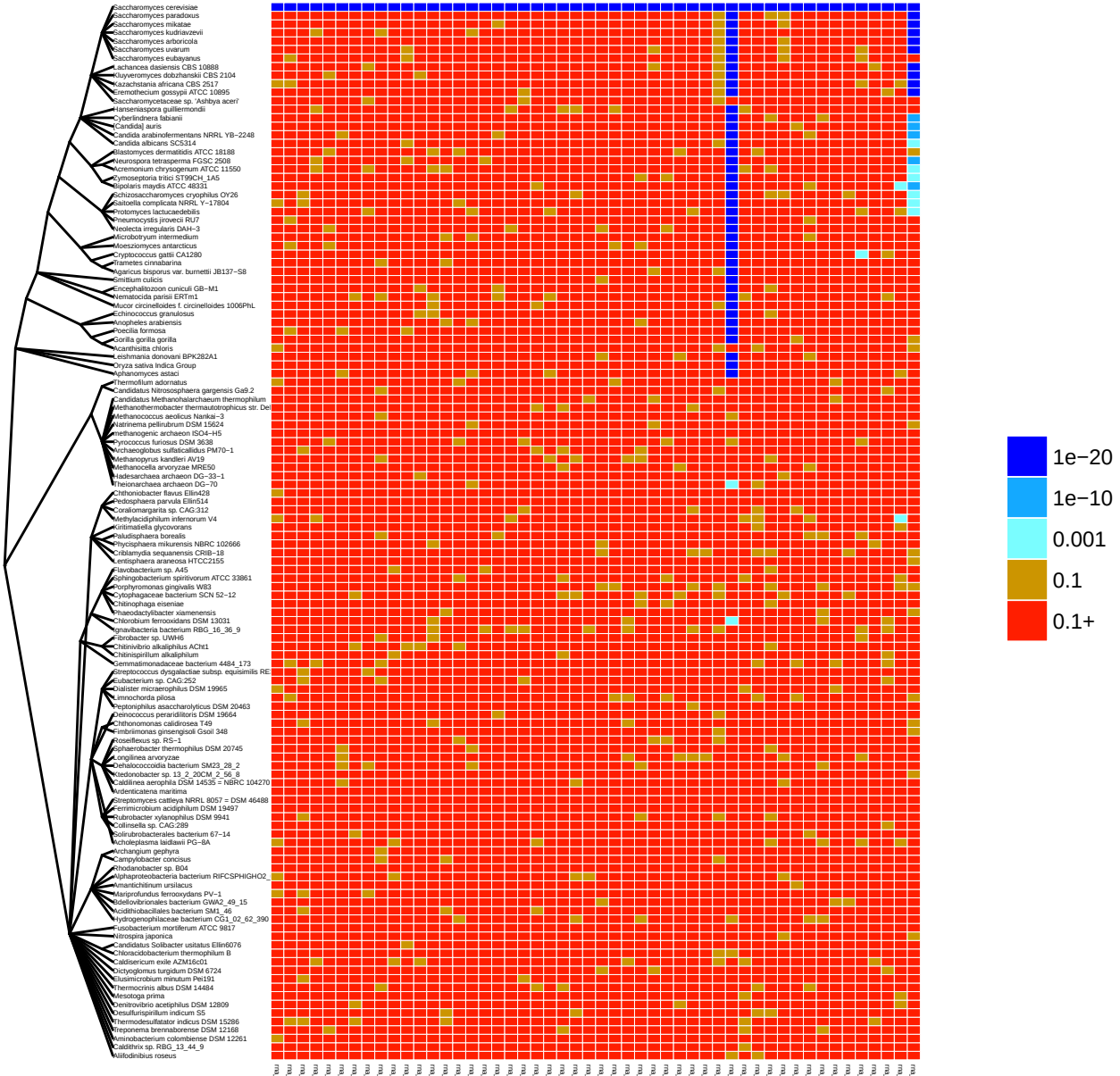

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_JK_653
ma_JK_654
ma_JK_655
ma_JK_656
ma_JK_657
ma_JK_659
ma_JK_66
ma_JK_661
ma_JK_662
ma_JK_663
ma_JK_664
ma_JK_665
ma_JK_666
ma_JK_667
ma_JK_67
ma_JK_670
ma_JK_671
ma_JK_672
ma_JK_673
ma_JK_674
ma_JK_676
ma_JK_679
ma_JK_68
ma_JK_681
ma_JK_682
ma_JK_683
ma_JK_684
ma_JK_689
ma_JK_69
ma_JK_690
ma_JK_691
ma_JK_692
ma_JK_693
ma_JK_694
ma_JK_695
ma_JK_697
ma_JK_698
ma_JK_699
ma_JK_7
ma_JK_70
ma_JK_700
ma_JK_701
ma_JK_702
ma_JK_703
ma_JK_706
ma_JK_708
ma_JK_709
ma_JK_71
ma_JK_710
ma_JK_711
1e−20
1e−10
0.001
0.1
0.1+

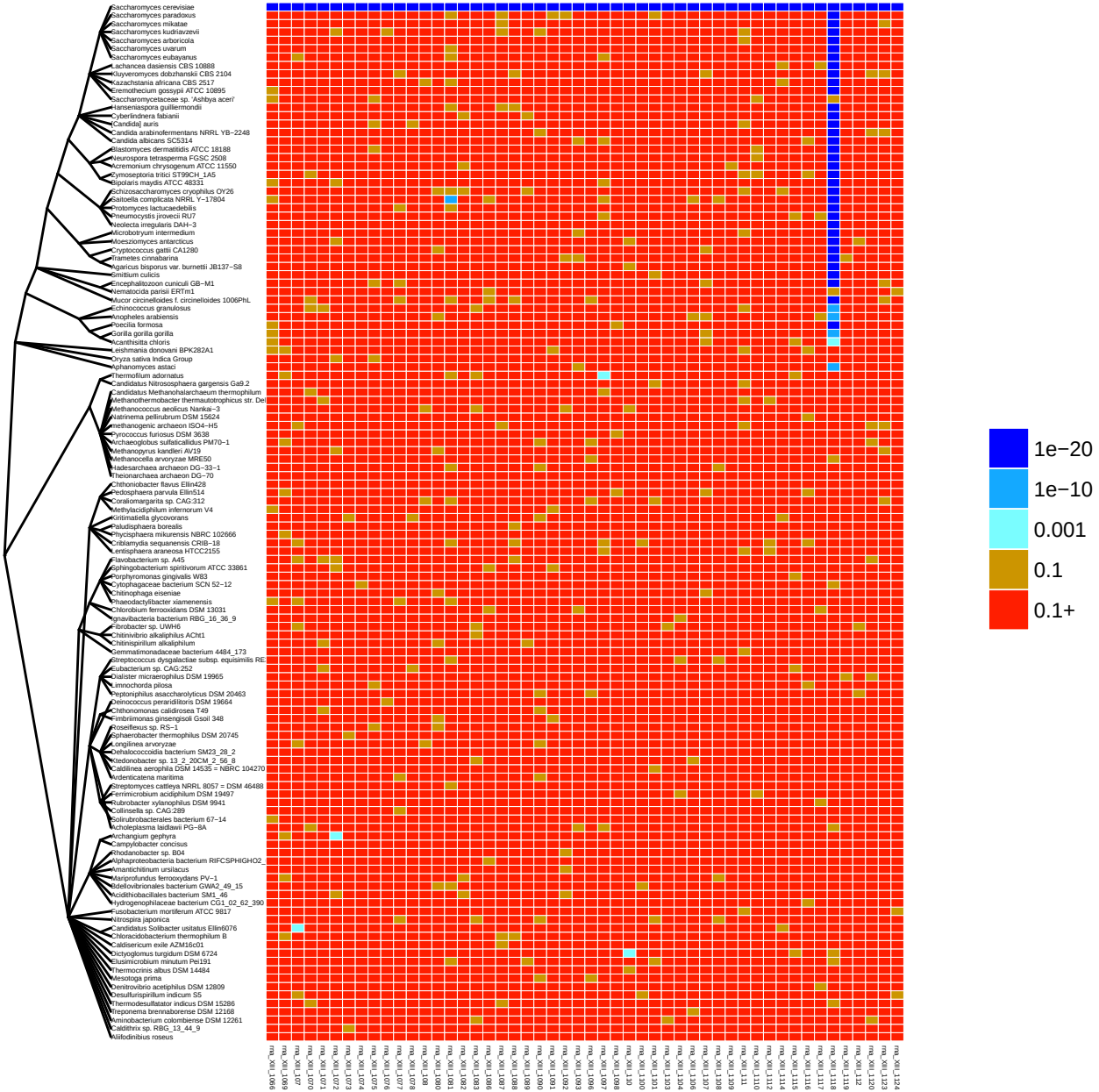

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is76
Nitrosomonas sp. Is77
Nitrosomonas sp. Is78
Nitrosomonas sp. Is79
Nitrosomonas sp. Is80
Nitrosomonas sp. Is81
Nitrosomonas sp. Is82
Nitrosomonas sp. Is83
Nitrosomonas sp. Is84
Nitrosomonas sp. Is85
Nitrosomonas sp. Is86
Nitrosomonas sp. Is87
Nitrosomonas sp. Is88
Nitrosomonas sp. Is89
Nitrosomonas sp. Is90
Nitrosomonas sp. Is91
Nitrosomonas sp. Is92
Nitrosomonas sp. Is93
Nitrosomonas sp. Is94
Nitrosomonas sp. Is95
Nitrosomonas sp. Is96
Nitrosomonas sp. Is97
Nitrosomonas sp. Is98
Nitrosomonas sp. Is99
Nitrosomonas sp. Is100
Nitrosomonas sp. Is101
Nitrosomonas sp. Is102
1e−20
1e−10
0.001
0.1

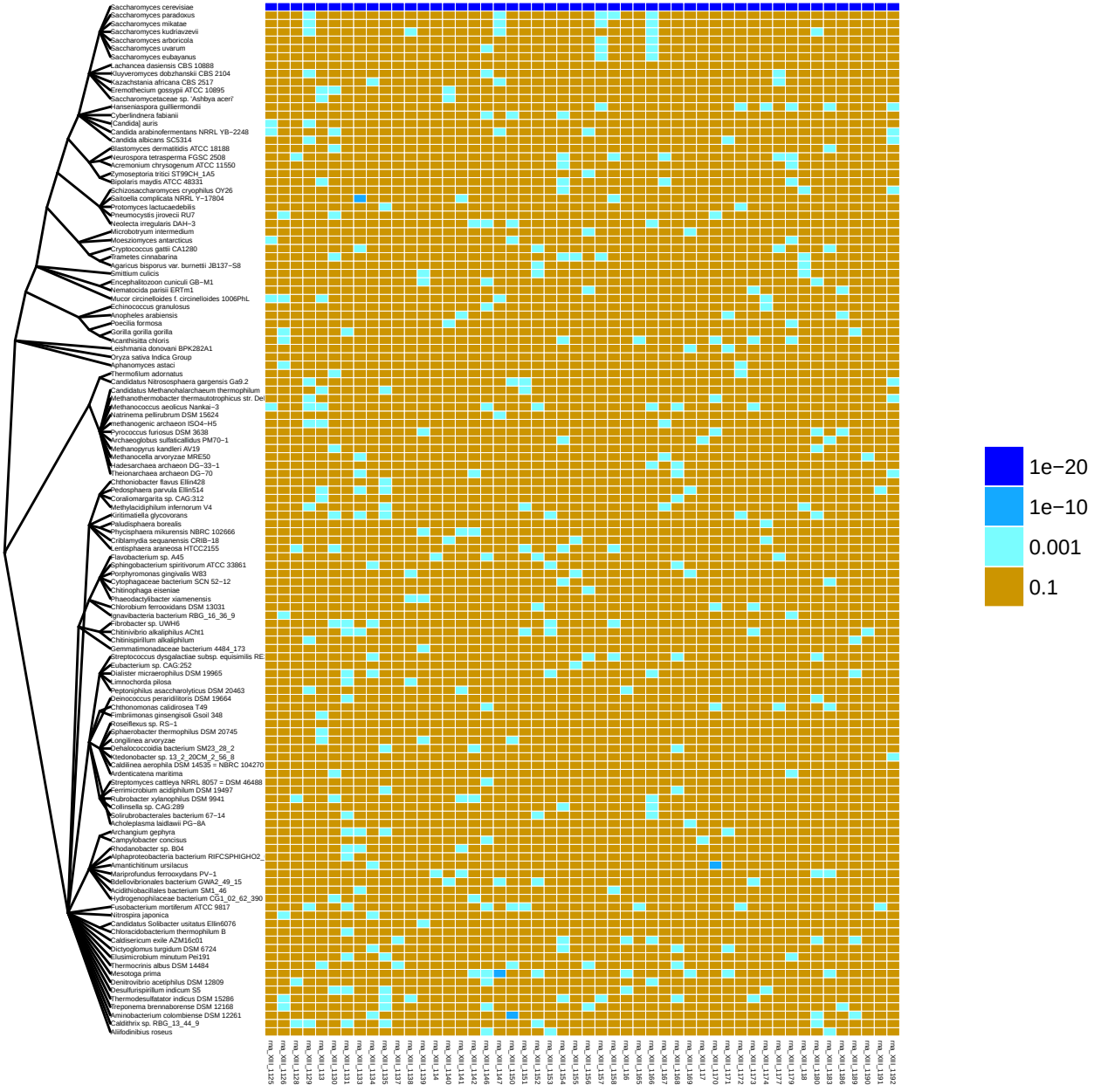

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Kuenenia stuttgartiensis RBG_13_44_9
Nitrosopumilus maritimus SCM1
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonas
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis sp. R4
Candidatus Nitrosotenuis sp. R7
Candidatus Nitrosotenuis sp. R8
Candidatus Nitrosotenuis sp. R9
Candidatus Nitrosotenuis sp. R10
Candidatus Nitrosotenuis sp. R11
Candidatus Nitrosotenuis sp. R12
Candidatus Nitrosotenuis sp. R13
Candidatus Nitrosotenuis sp. R14
Candidatus Nitrosotenuis sp. R15
Candidatus Nitrosotenuis sp. R16
Candidatus Nitrosotenuis sp. R17
Candidatus Nitrosotenuis sp. R18
Candidatus Nitrosotenuis sp. R19
Candidatus Nitrosotenuis sp. R20
Candidatus Nitrosotenuis sp. R21
Candidatus Nitrosotenuis sp. R22
Candidatus Nitrosotenuis sp. R23
Candidatus Nitrosotenuis sp. R24
Candidatus Nitrosotenuis sp. R25
Candidatus Nitrosotenuis sp. R26
Candidatus Nitrosotenuis sp. R27
Candidatus Nitrosotenuis sp. R28
Candidatus Nitrosotenuis sp. R29
Candidatus Nitrosotenuis sp. R30
Candidatus Nitrosotenuis sp. R31
Candidatus Nitrosotenuis sp. R32
Candidatus Nitrosotenuis sp. R33
Candidatus Nitrosotenuis sp. R34
Candidatus Nitrosotenuis sp. R35
Candidatus Nitrosotenuis sp. R36
Candidatus Nitrosotenuis sp. R37
Candidatus Nitrosotenuis sp. R38
Candidatus Nitrosotenuis sp. R39
Candidatus Nitrosotenuis sp. R40
Candidatus Nitrosotenuis sp. R41
Candidatus Nitrosotenuis sp. R42
Candidatus Nitrosotenuis sp. R43
Candidatus Nitrosotenuis sp. R44
Candidatus Nitrosotenuis sp. R45
Candidatus Nitrosotenuis sp. R46
Candidatus Nitrosotenuis sp. R47
Candidatus Nitrosotenuis sp. R48
Candidatus Nitrosotenuis sp. R49
Candidatus Nitrosotenuis sp. R50
Candidatus Nitrosotenuis sp. R51
Candidatus Nitrosotenuis sp. R52
Candidatus Nitrosotenuis sp. R53
Candidatus Nitrosotenuis sp. R54
Candidatus Nitrosotenuis sp. R55
Candidatus Nitrosotenuis sp. R56
Candidatus Nitrosotenuis sp. R57
Candidatus Nitrosotenuis sp. R58
Candidatus Nitrosotenuis sp. R59
Candidatus Nitrosotenuis sp. R60
1e−20
1e−10
0.001
0.1
0.1+

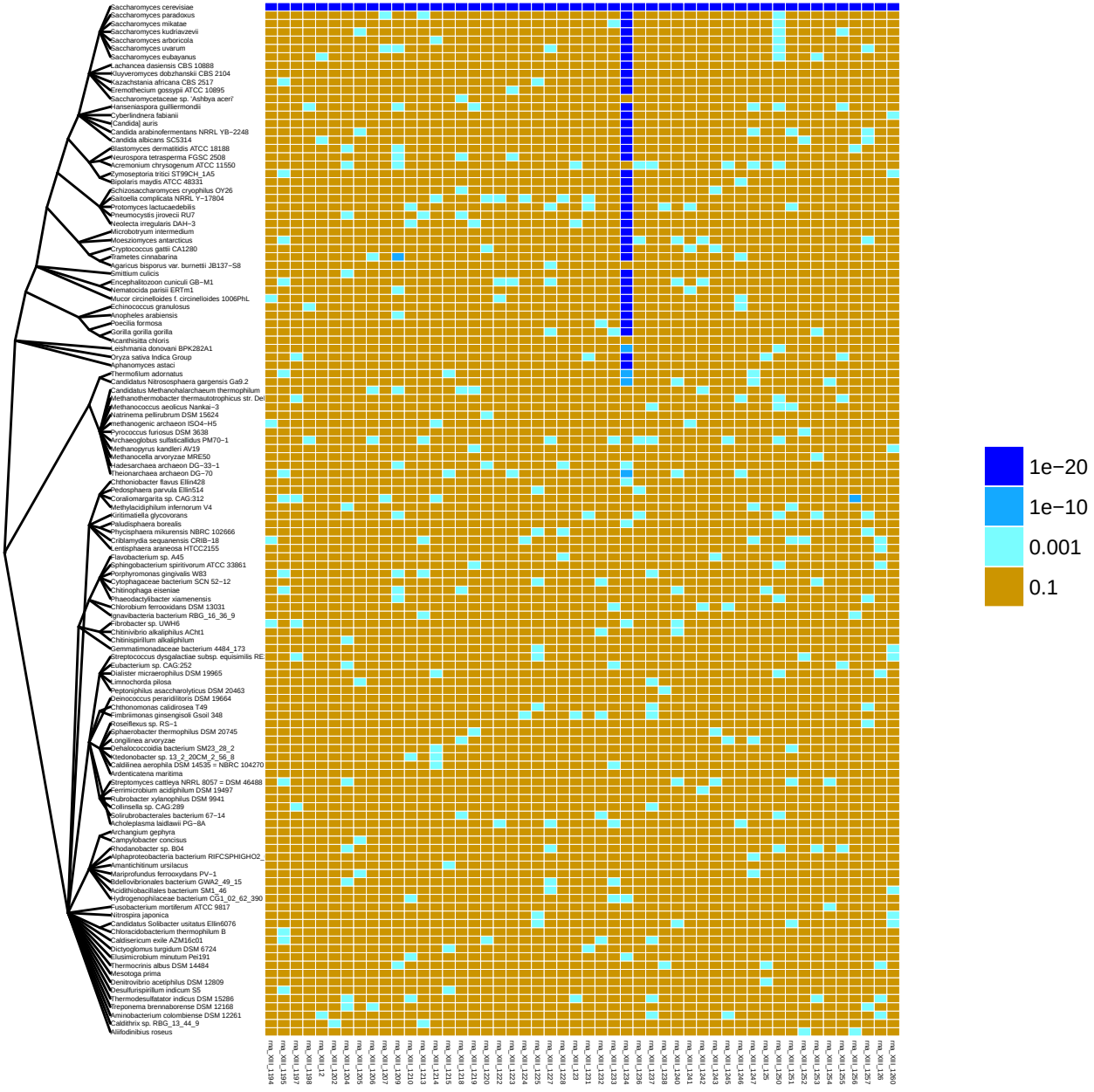

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Kinetoplastibacterium crithidiae
Alkalilimnicola ehrlichii MLHE−1
Halorhodospira halophila SL1
Halorhodospira halochloris
Halorhodospira halophila
Halorhodospira halochloris
Halorhodospira halophila
Halorhodospira halochloris
Halorhodospira halophila

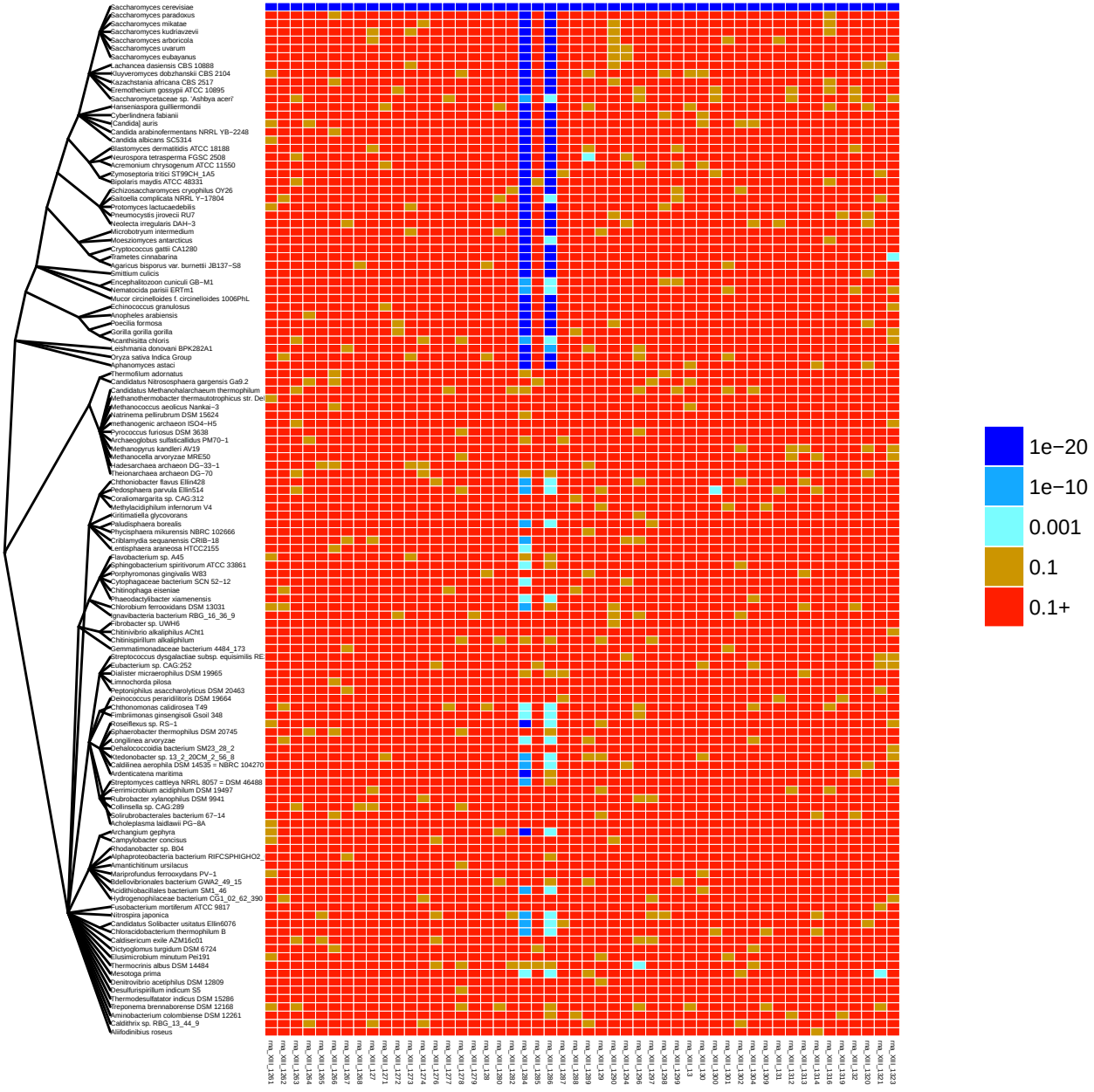

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niifodinibius roseus
mu_XK_931
mu_XK_932
mu_XK_933
mu_XK_935
mu_XK_936
mu_XK_938
mu_XK_939
mu_XK_941
mu_XK_942
mu_XK_946
mu_XK_947
mu_XK_948
mu_XK_950
mu_XK_951
mu_XK_952
mu_XK_953
mu_XK_954
mu_XK_955
mu_XK_956
mu_XK_957
mu_XK_959
mu_XK_960
mu_XK_961
mu_XK_962
mu_XK_963
mu_XK_964
mu_XK_965
mu_XK_966
mu_XK_967
mu_XK_968
mu_XK_969
mu_XK_97
mu_XK_970
mu_XK_971
mu_XK_972
mu_XK_973
mu_XK_976
mu_XK_978
mu_XK_979
mu_XK_98
mu_XK_980
mu_XK_981
mu_XK_985
mu_XK_986
mu_XK_988
mu_XK_989
mu_XK_990
mu_XK_991
mu_XK_992
mu_XK_993
1e−20
1e−10
0.001
0.1
0.1+

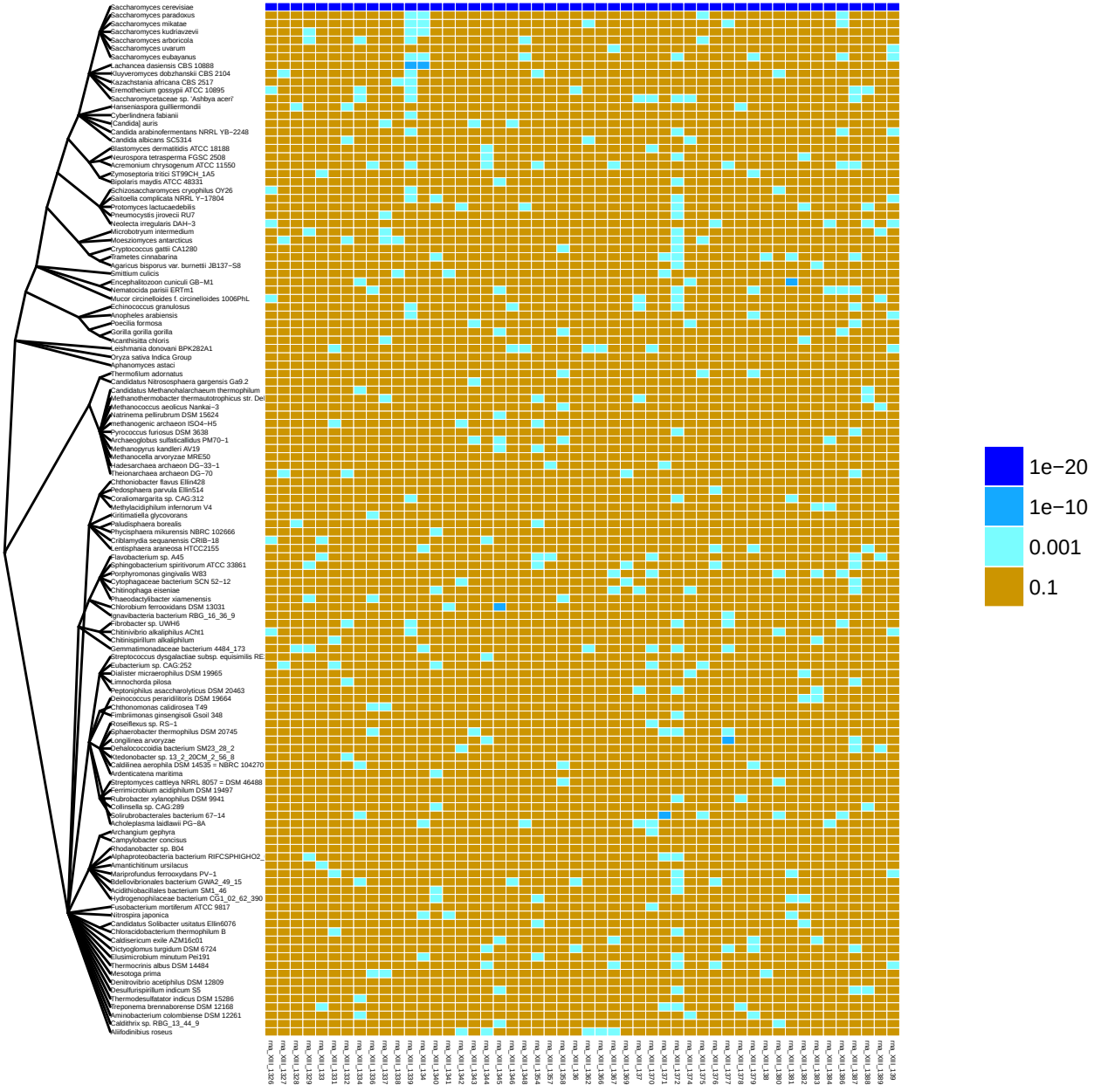

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_X0_996
mu_X0_998
mu_X0_999
mu_X0_1
mu_X0_10
mu_X0_1000
mu_X0_1001
mu_X0_1002
mu_X0_1006
mu_X0_101
mu_X0_1010
mu_X0_1012
mu_X0_1014
mu_X0_1016
mu_X0_1017
mu_X0_1018
mu_X0_1019
mu_X0_1020
mu_X0_1021
mu_X0_1022
mu_X0_1023
mu_X0_1024
mu_X0_1026
mu_X0_1027
mu_X0_1028
mu_X0_1029
mu_X0_103
mu_X0_1030
mu_X0_1031
mu_X0_1032
mu_X0_1035
mu_X0_1036
mu_X0_1037
mu_X0_1039
mu_X0_1040
mu_X0_1041
mu_X0_1044
mu_X0_1045
mu_X0_1046
mu_X0_1047
mu_X0_1049
mu_X0_1050
mu_X0_1051
mu_X0_1052
mu_X0_1053
mu_X0_1054
mu_X0_1057
mu_X0_106
mu_X0_1060
mu_X0_1064
1e−20
1e−10
0.001
0.1
0.1+

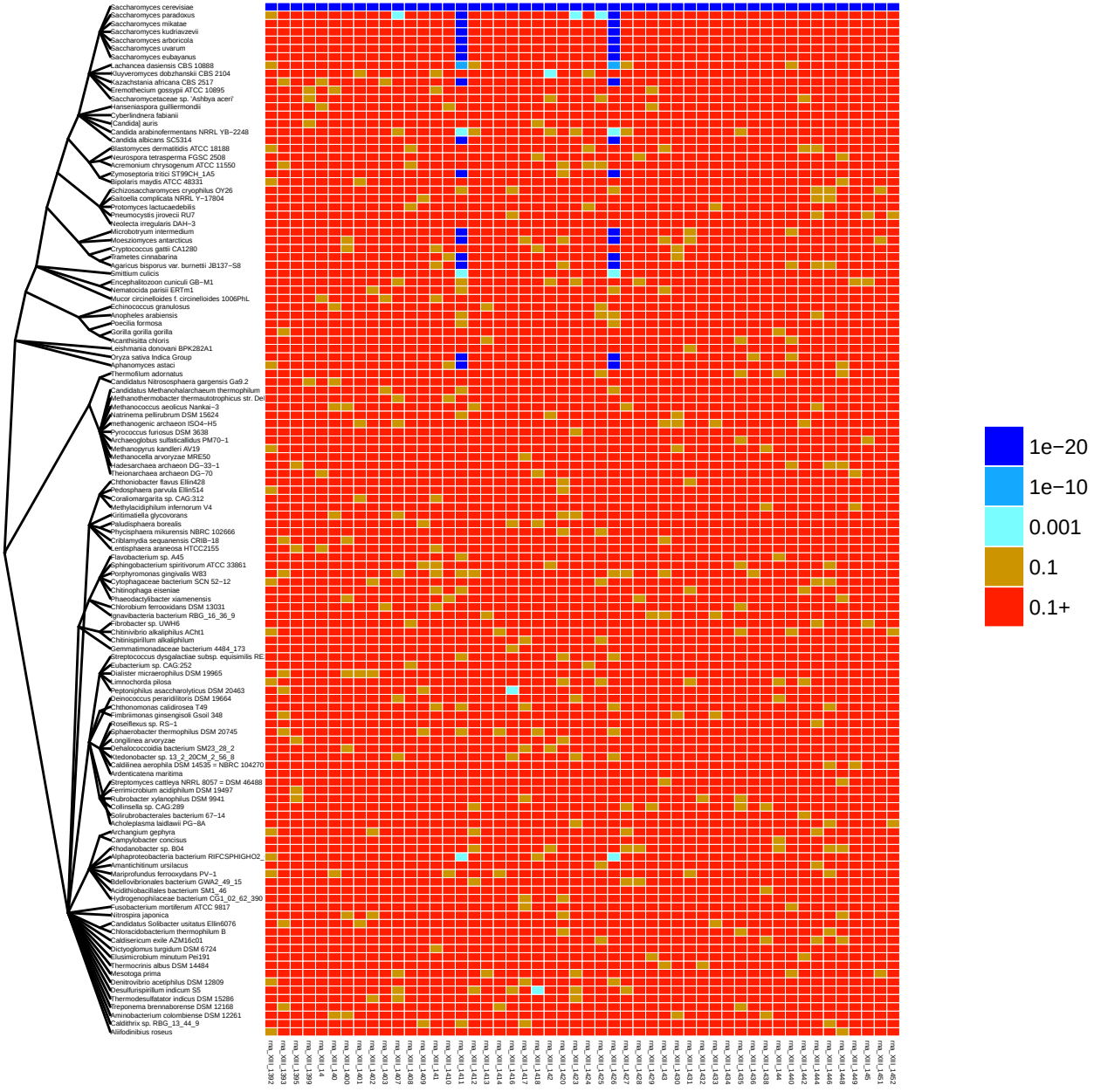

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thetionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

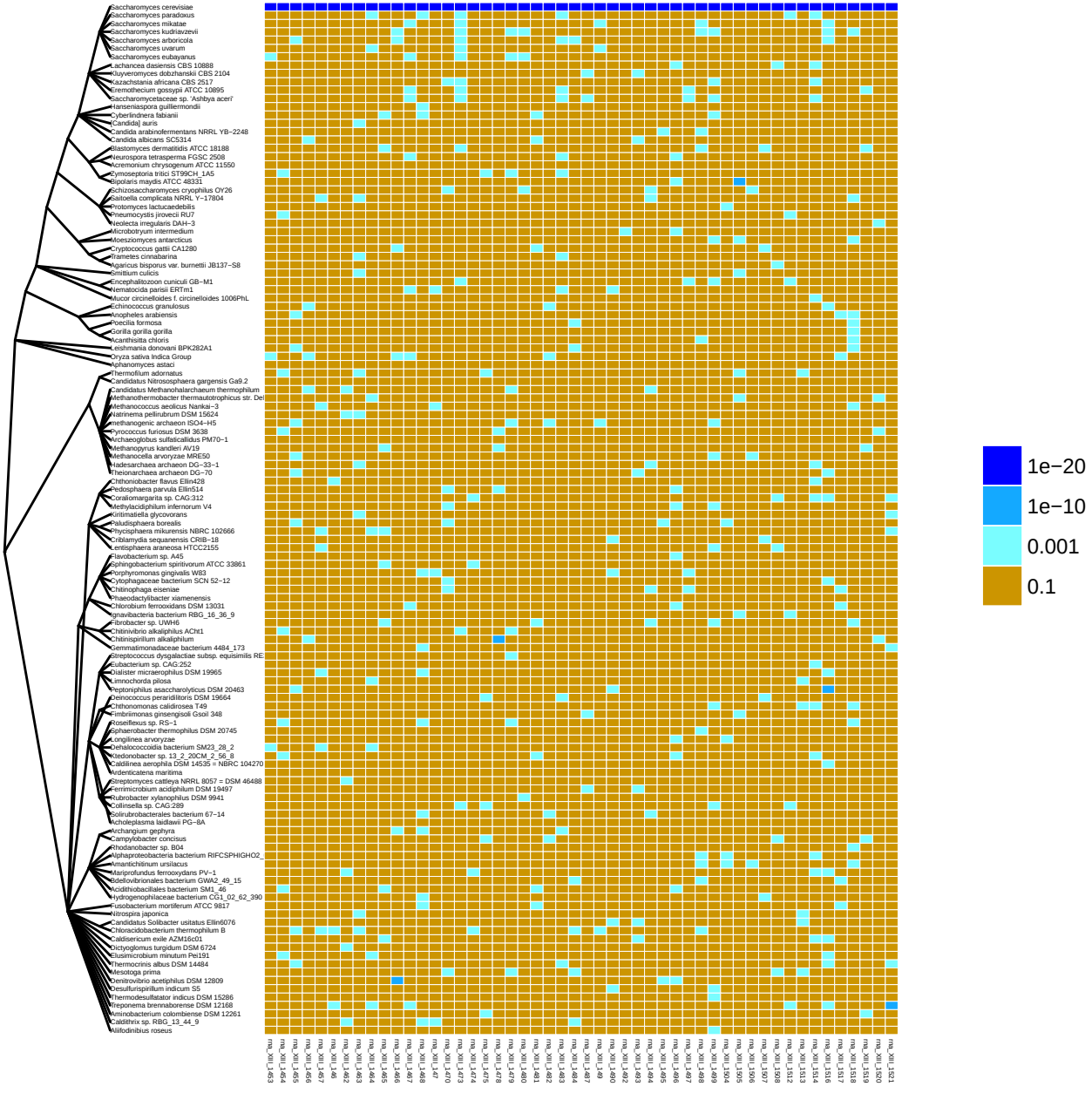

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignifodinibius roseus
rna_X0_L125
rna_X0_L126
rna_X0_L128
rna_X0_L129
rna_X0_L13
rna_X0_L130
rna_X0_L131
rna_X0_L133
rna_X0_L134
rna_X0_L135
rna_X0_L137
rna_X0_L138
rna_X0_L139
rna_X0_L14
rna_X0_L140
rna_X0_L141
rna_X0_L142
rna_X0_L146
rna_X0_L147
rna_X0_L150
rna_X0_L151
rna_X0_L152
rna_X0_L153
rna_X0_L154
rna_X0_L155
rna_X0_L156
rna_X0_L157
rna_X0_L158
rna_X0_L16
rna_X0_L165
rna_X0_L166
rna_X0_L167
rna_X0_L168
rna_X0_L169
rna_X0_L17
rna_X0_L170
rna_X0_L171
rna_X0_L172
rna_X0_L173
rna_X0_L174
rna_X0_L177
rna_X0_L179
rna_X0_L18
rna_X0_L180
rna_X0_L183
rna_X0_L186
rna_X0_L189
rna_X0_L190
rna_X0_L191
rna_X0_L192
1e−20
1e−10
0.001
0.1

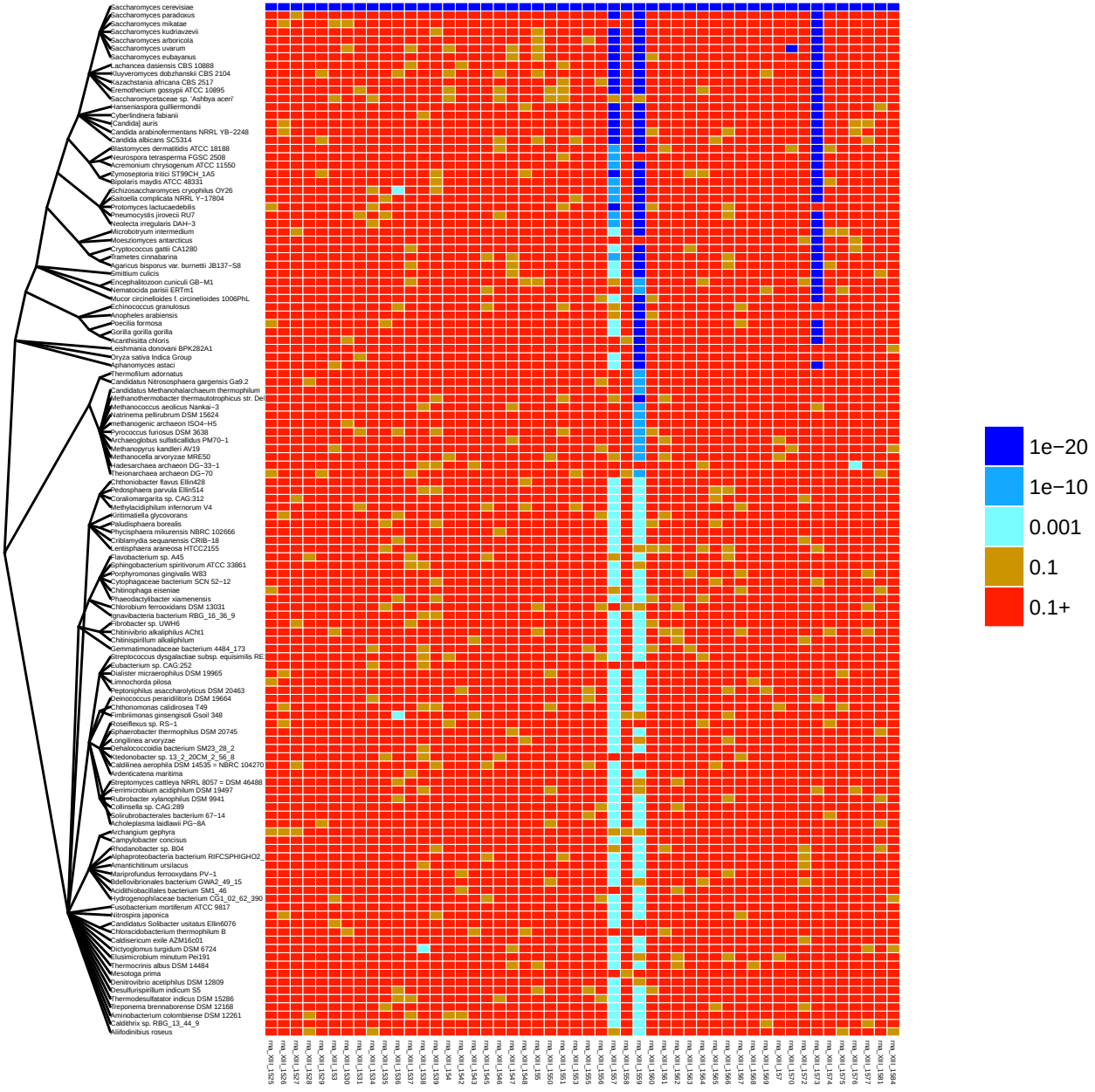

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseszioimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_001_1194
ma_001_1195
ma_001_1197
ma_001_1198
ma_001_12
ma_001_1202
ma_001_1204
ma_001_1205
ma_001_1206
ma_001_1207
ma_001_1209
ma_001_1210
ma_001_1213
ma_001_1214
ma_001_1215
ma_001_1218
ma_001_1219
ma_001_1220
ma_001_1222
ma_001_1223
ma_001_1224
ma_001_1225
ma_001_1227
ma_001_1228
ma_001_123
ma_001_1231
ma_001_1232
ma_001_1233
ma_001_1234
ma_001_1236
ma_001_1237
ma_001_1238
ma_001_1240
ma_001_1241
ma_001_1242
ma_001_1243
ma_001_1245
ma_001_1246
ma_001_1247
ma_001_125
ma_001_1250
ma_001_1251
ma_001_1252
ma_001_1253
ma_001_1254
ma_001_1255
ma_001_1256
ma_001_1257
ma_001_126
ma_001_1260
1e−20
1e−10
0.001
0.1

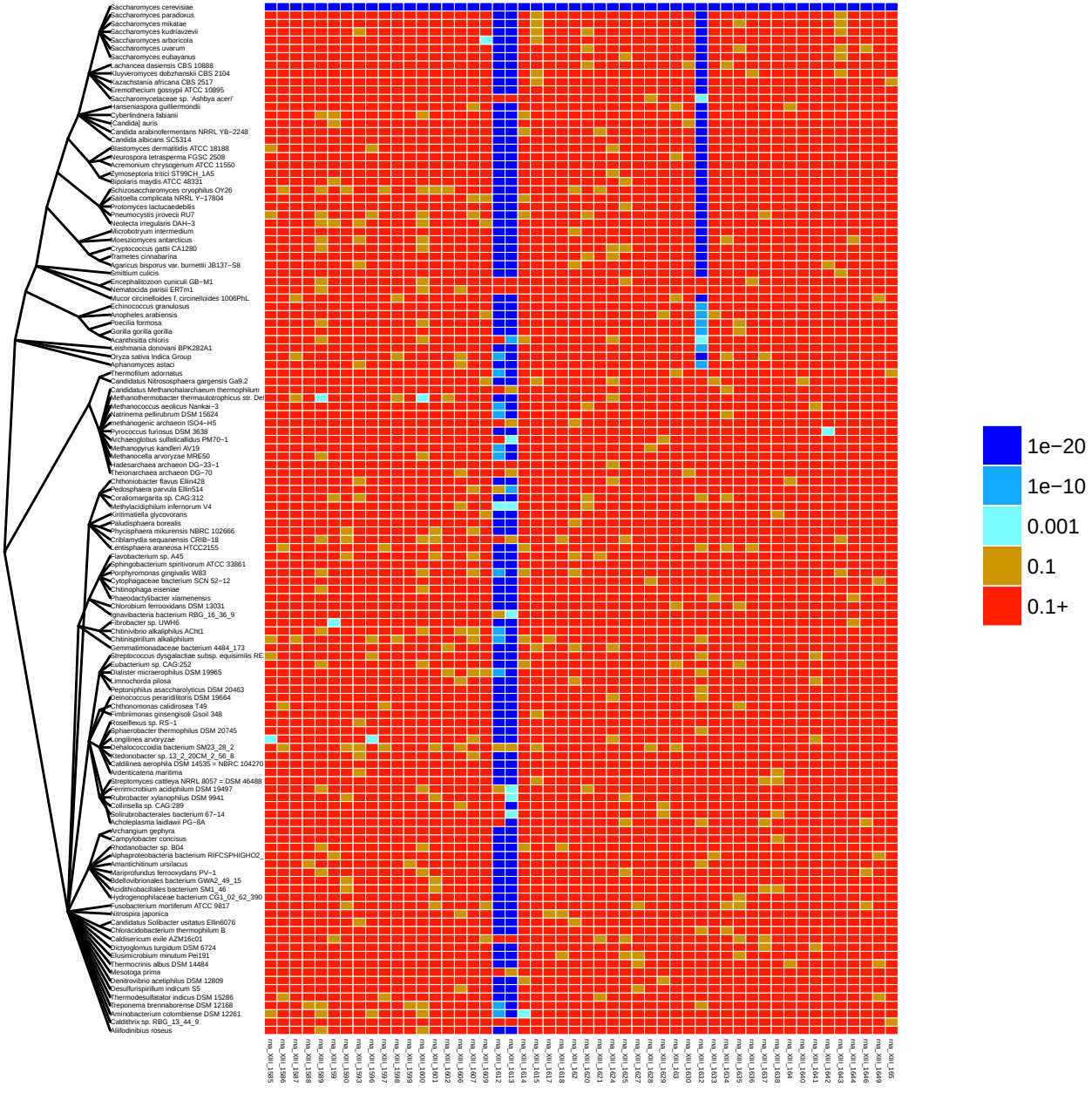

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
ma_X0_L01
ma_X0_L02
ma_X0_L03
ma_X0_L04
ma_X0_L05
ma_X0_L06
ma_X0_L07
ma_X0_L08
ma_X0_L27
ma_X0_L271
ma_X0_L272
ma_X0_L273
ma_X0_L274
ma_X0_L276
ma_X0_L277
ma_X0_L278
ma_X0_L279
ma_X0_L28
ma_X0_L280
ma_X0_L282
ma_X0_L284
ma_X0_L285
ma_X0_L286
ma_X0_L287
ma_X0_L288
ma_X0_L289
ma_X0_L29
ma_X0_L290
ma_X0_L294
ma_X0_L296
ma_X0_L297
ma_X0_L298
ma_X0_L299
ma_X0_L3
ma_X0_L30
ma_X0_L300
ma_X0_L301
ma_X0_L302
ma_X0_L304
ma_X0_L309
ma_X0_L31
ma_X0_L312
ma_X0_L313
ma_X0_L314
ma_X0_L316
ma_X0_L319
ma_X0_L32
ma_X0_L320
ma_X0_L321
ma_X0_L323
1e−20
1e−10
0.001
0.1
0.1+

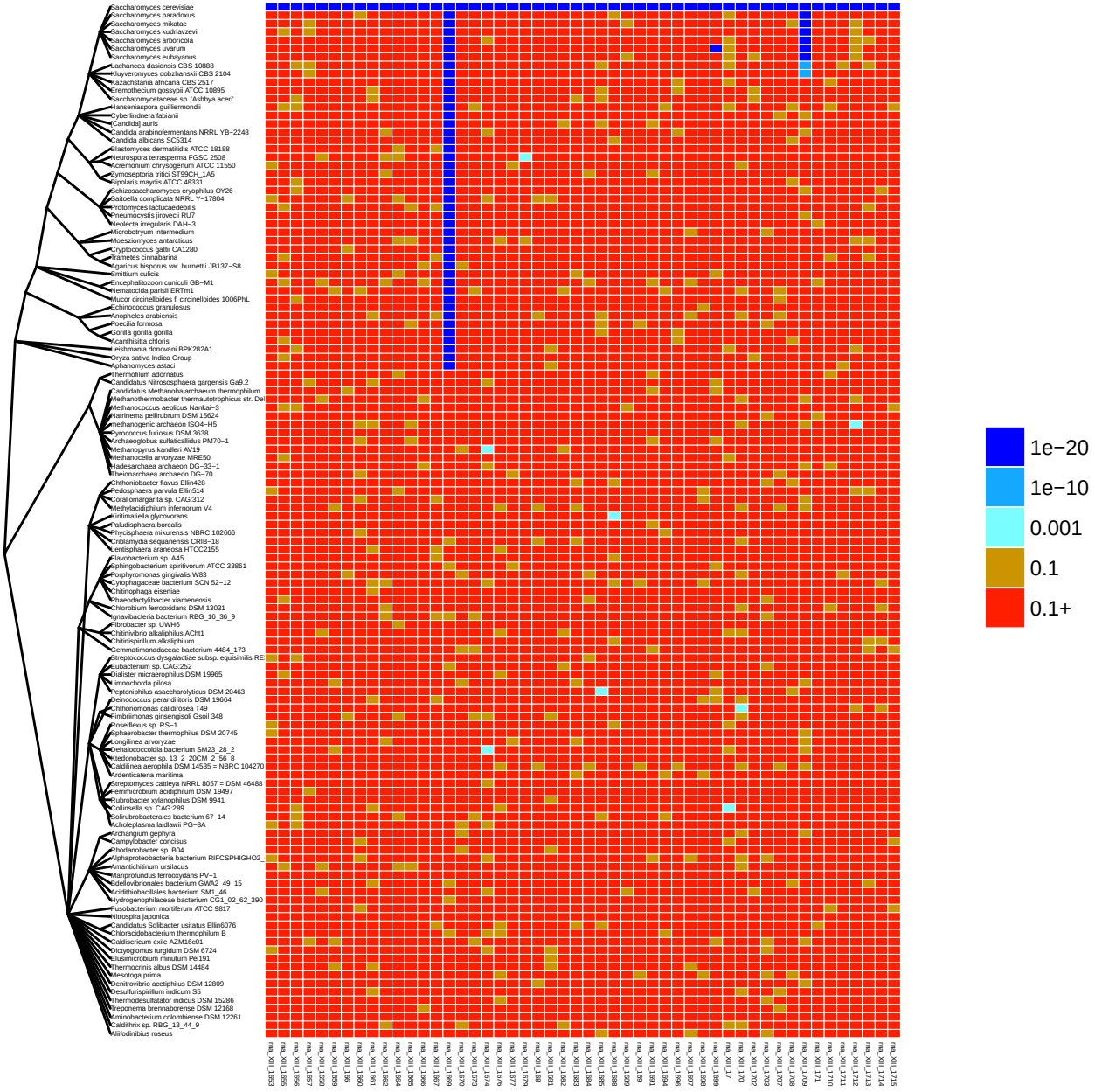

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1

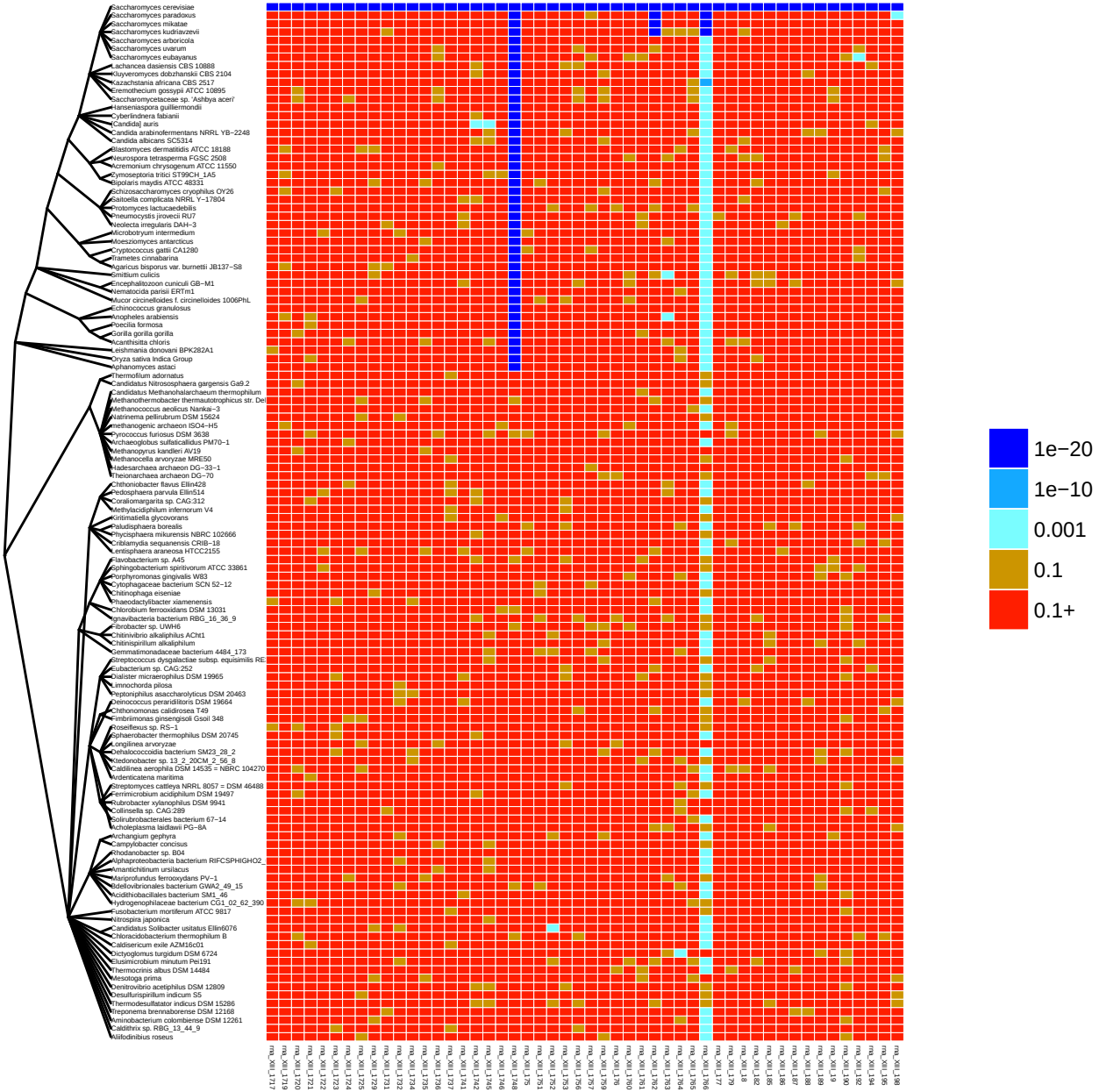

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans DSM 18814
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_OG_1392
ma_OG_1393
ma_OG_1395
ma_OG_1399
ma_OG_14
ma_OG_140
ma_OG_1400
ma_OG_1401
ma_OG_1402
ma_OG_1403
ma_OG_1407
ma_OG_1408
ma_OG_1409
ma_OG_141
ma_OG_1410
ma_OG_1411
ma_OG_1412
ma_OG_1413
ma_OG_1414
ma_OG_1416
ma_OG_1417
ma_OG_1419
ma_OG_142
ma_OG_1420
ma_OG_1423
ma_OG_1424
ma_OG_1425
ma_OG_1426
ma_OG_1427
ma_OG_1428
ma_OG_1429
ma_OG_143
ma_OG_1430
ma_OG_1431
ma_OG_1432
ma_OG_1433
ma_OG_1434
ma_OG_1435
ma_OG_1436
ma_OG_1438
ma_OG_144
ma_OG_1440
ma_OG_1442
ma_OG_1444
ma_OG_1446
ma_OG_1448
ma_OG_1449
ma_OG_145
ma_OG_1451
ma_OG_1452
1e−20
1e−10
0.001
0.1
0.1+

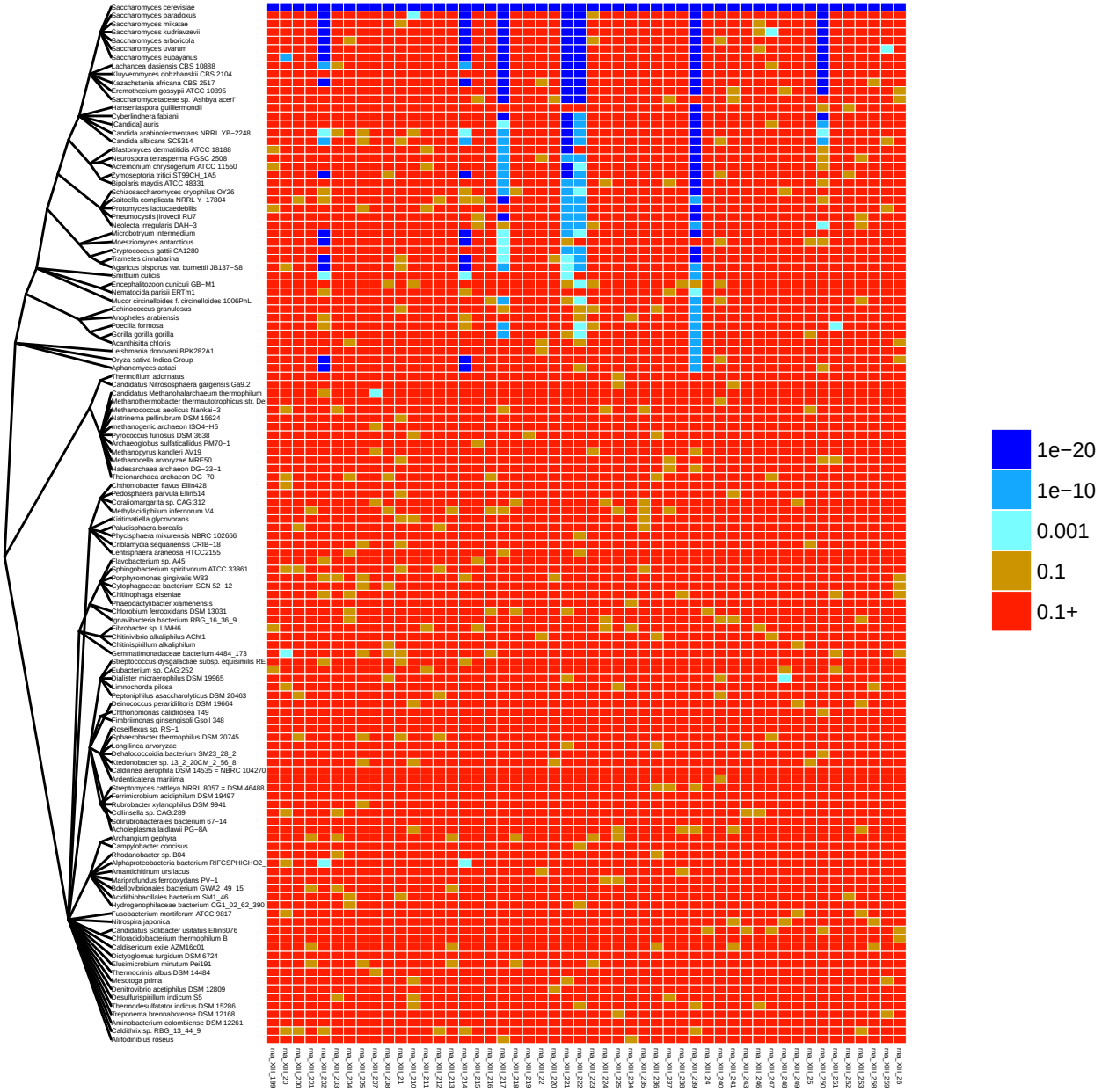

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_00_1453
mu_00_1454
mu_00_1455
mu_00_1456
mu_00_1457
mu_00_1462
mu_00_1463
mu_00_1464
mu_00_1465
mu_00_1466
mu_00_1467
mu_00_1468
mu_00_1470
mu_00_1473
mu_00_1474
mu_00_1475
mu_00_1478
mu_00_1479
mu_00_1480
mu_00_1481
mu_00_1482
mu_00_1483
mu_00_1484
mu_00_1487
mu_00_1488
mu_00_1490
mu_00_1492
mu_00_1493
mu_00_1494
mu_00_1495
mu_00_1496
mu_00_1497
mu_00_1498
mu_00_1499
mu_00_1504
mu_00_1505
mu_00_1506
mu_00_1507
mu_00_1508
mu_00_1512
mu_00_1513
mu_00_1514
mu_00_1516
mu_00_1517
mu_00_1518
mu_00_1519
mu_00_1520
mu_00_1521
1e−20
1e−10
0.001
0.1

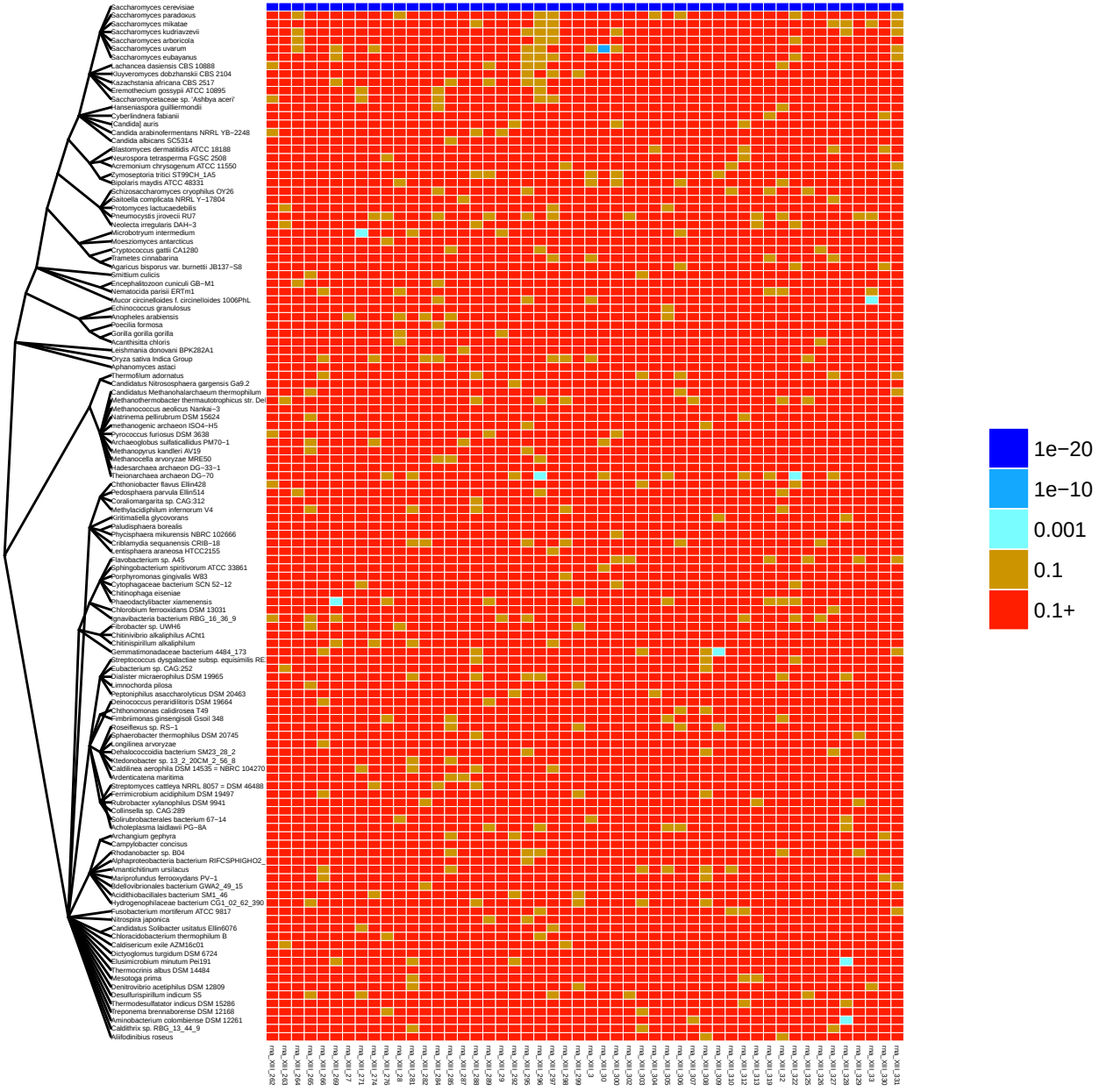

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

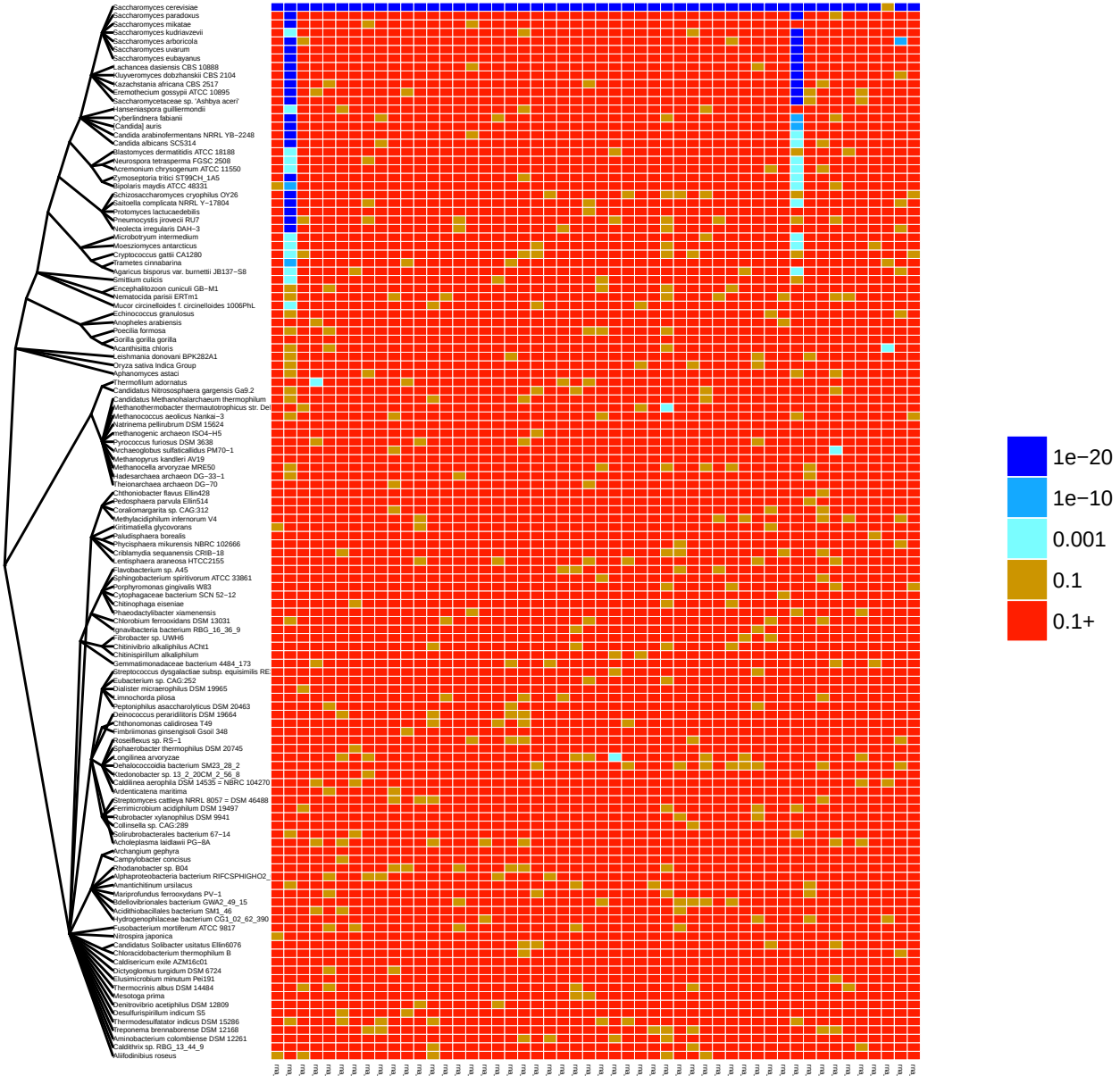

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XR_L985
ma_XR_L986
ma_XR_L987
ma_XR_L988
ma_XR_L989
ma_XR_L990
ma_XR_L993
ma_XR_L996
ma_XR_L997
ma_XR_L998
ma_XR_L999
ma_XR_L600
ma_XR_L601
ma_XR_L602
ma_XR_L606
ma_XR_L607
ma_XR_L609
ma_XR_L612
ma_XR_L613
ma_XR_L614
ma_XR_L615
ma_XR_L617
ma_XR_L618
ma_XR_L619
ma_XR_L62
ma_XR_L620
ma_XR_L621
ma_XR_L624
ma_XR_L625
ma_XR_L627
ma_XR_L628
ma_XR_L629
ma_XR_L63
ma_XR_L630
ma_XR_L632
ma_XR_L633
ma_XR_L634
ma_XR_L635
ma_XR_L636
ma_XR_L637
ma_XR_L638
ma_XR_L64
ma_XR_L940
ma_XR_L941
ma_XR_L942
ma_XR_L943
ma_XR_L944
ma_XR_L946
ma_XR_L949
ma_XR_L95
1e−20
1e−10
0.001
0.1
0.1+

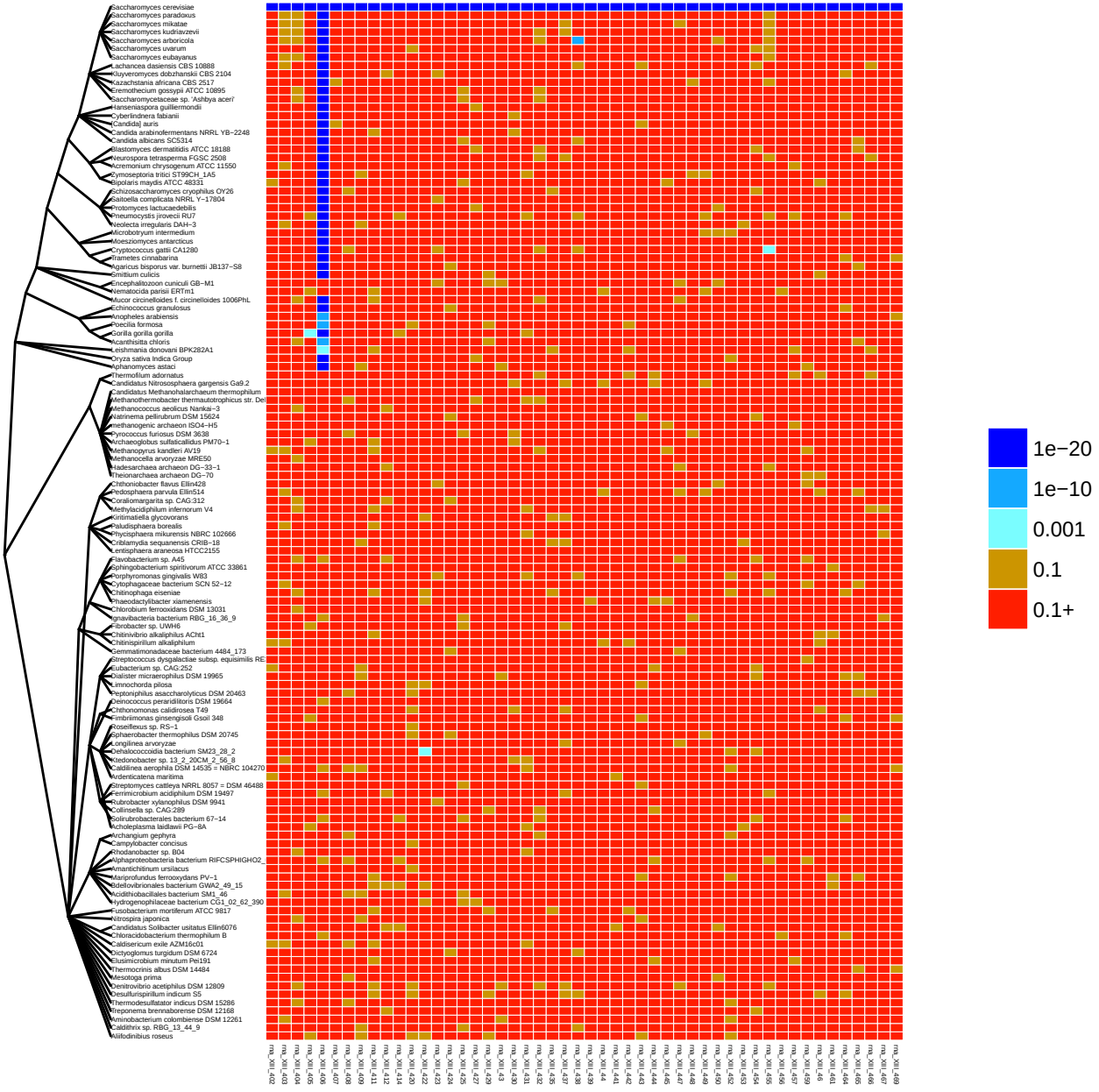

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermotilium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_XK_L653
mu_XK_L655
mu_XK_L656
mu_XK_L657
mu_XK_L658
mu_XK_L659
mu_XK_L660
mu_XK_L661
mu_XK_L662
mu_XK_L664
mu_XK_L665
mu_XK_L666
mu_XK_L667
mu_XK_L669
mu_XK_L670
mu_XK_L673
mu_XK_L674
mu_XK_L676
mu_XK_L677
mu_XK_L679
mu_XK_L680
mu_XK_L681
mu_XK_L682
mu_XK_L683
mu_XK_L684
mu_XK_L685
mu_XK_L688
mu_XK_L689
mu_XK_L690
mu_XK_L691
mu_XK_L694
mu_XK_L696
mu_XK_L697
mu_XK_L698
mu_XK_L699
mu_XK_L17
mu_XK_L170
mu_XK_L702
mu_XK_L703
mu_XK_L707
mu_XK_L708
mu_XK_L709
mu_XK_L710
mu_XK_L711
mu_XK_L712
mu_XK_L713
mu_XK_L714
mu_XK_L715
1e−20
1e−10
0.001
0.1
0.1+

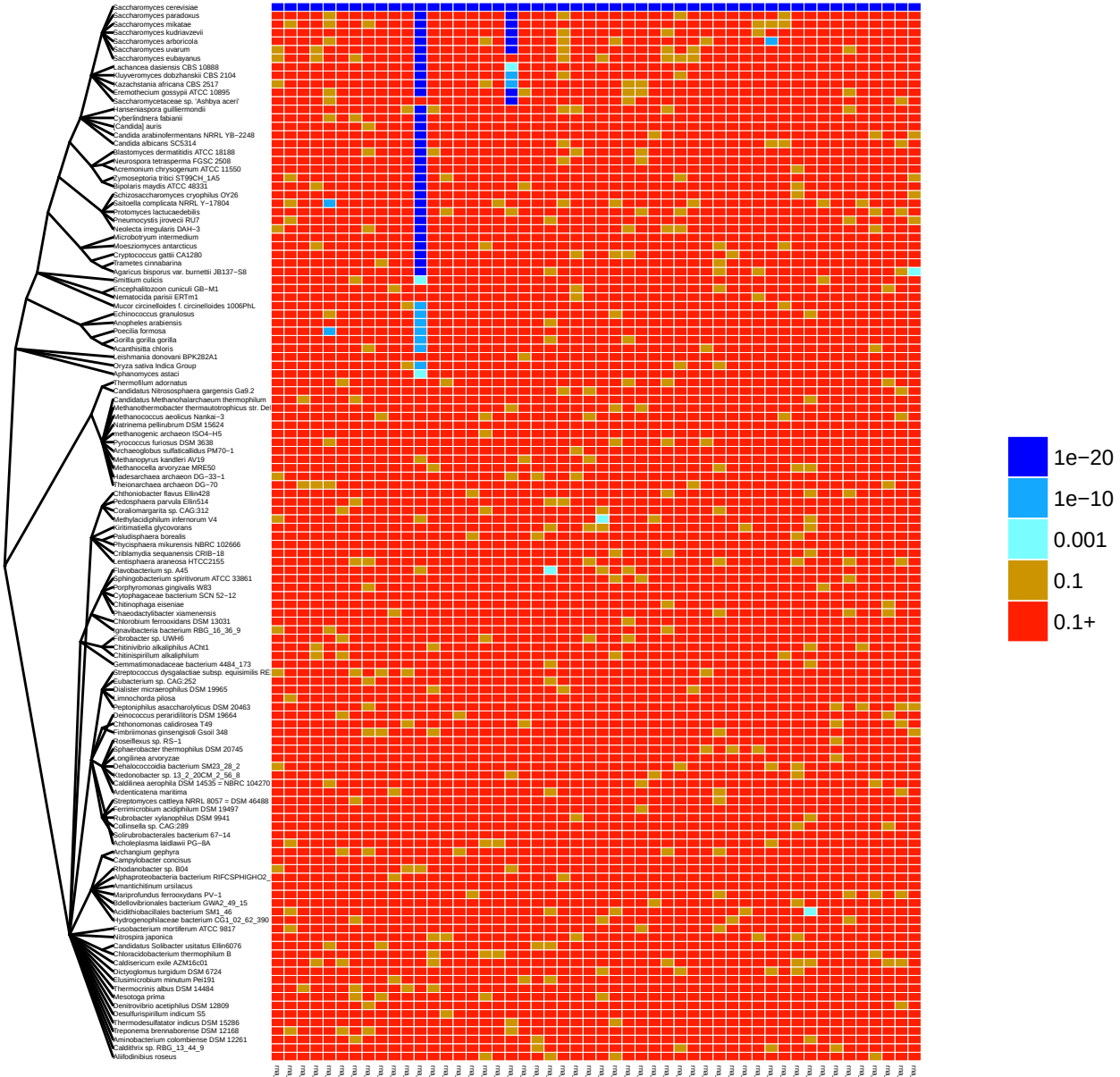

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_X0_1717
ma_X0_1719
ma_X0_1720
ma_X0_1721
ma_X0_1722
ma_X0_1723
ma_X0_1724
ma_X0_1725
ma_X0_1729
ma_X0_1731
ma_X0_1732
ma_X0_1734
ma_X0_1735
ma_X0_1736
ma_X0_1737
ma_X0_1741
ma_X0_1742
ma_X0_1745
ma_X0_1746
ma_X0_1748
ma_X0_175
ma_X0_1751
ma_X0_1752
ma_X0_1753
ma_X0_1756
ma_X0_1757
ma_X0_1759
ma_X0_176
ma_X0_1760
ma_X0_1761
ma_X0_1762
ma_X0_1763
ma_X0_1764
ma_X0_1765
ma_X0_1766
ma_X0_177
ma_X0_179
ma_X0_18
ma_X0_182
ma_X0_185
ma_X0_186
ma_X0_187
ma_X0_188
ma_X0_189
ma_X0_19
ma_X0_190
ma_X0_192
ma_X0_194
ma_X0_195
ma_X0_198
1e−20
1e−10
0.001
0.1
0.1+

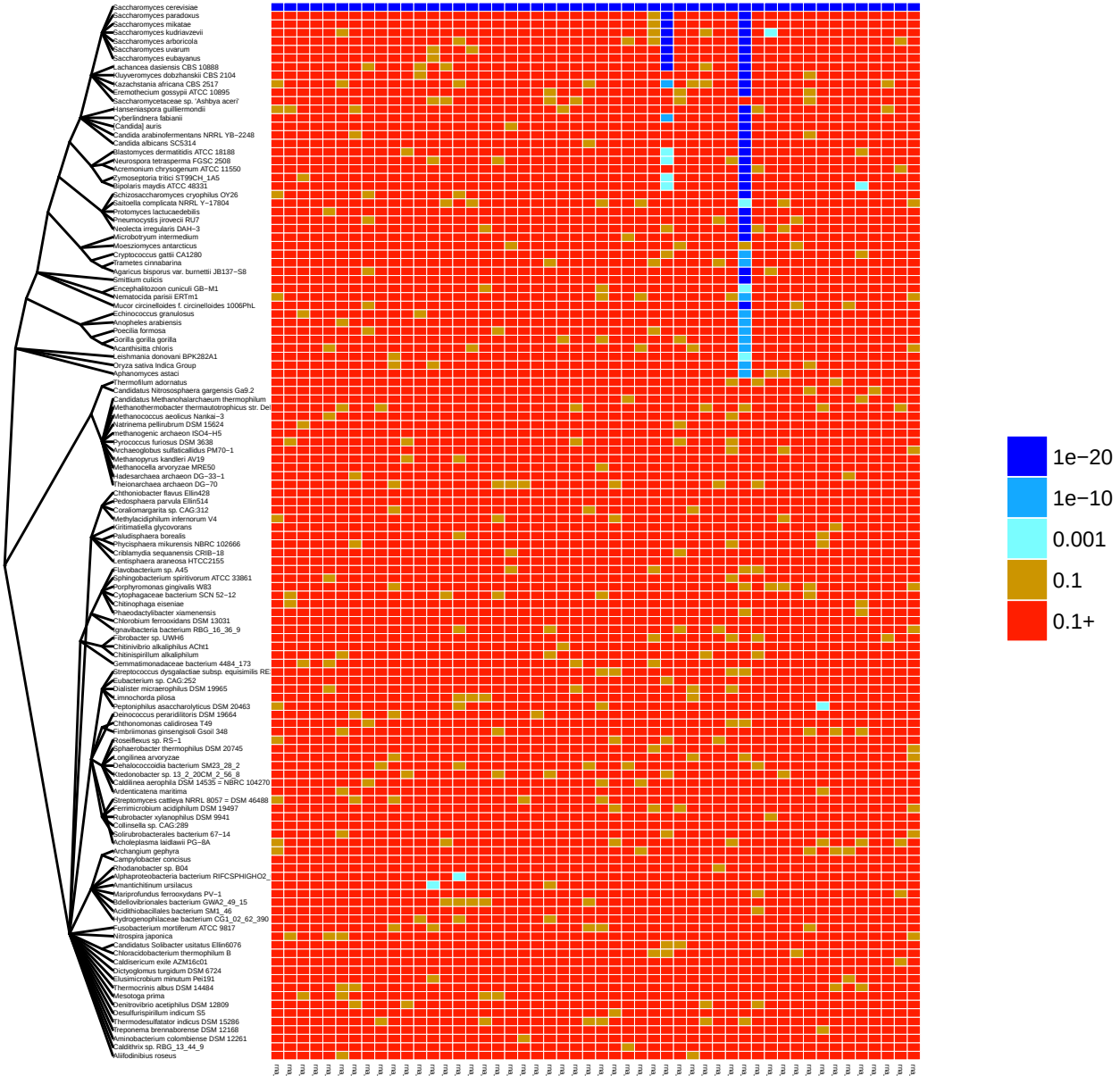

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseszioimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

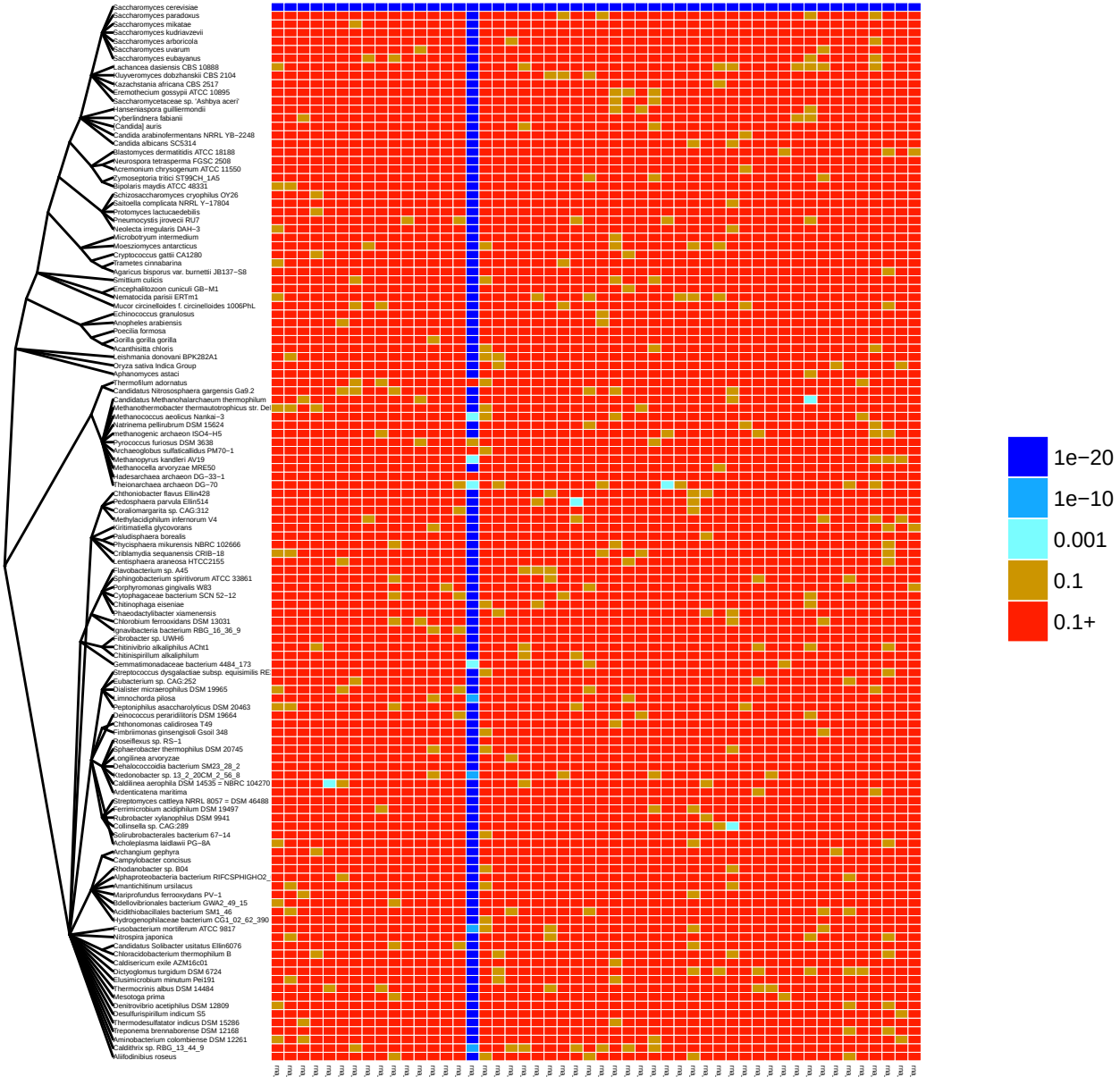

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_X01_262
ma_X01_263
ma_X01_264
ma_X01_265
ma_X01_266
ma_X01_269
ma_X01_27
ma_X01_271
ma_X01_274
ma_X01_276
ma_X01_28
ma_X01_281
ma_X01_282
ma_X01_284
ma_X01_285
ma_X01_287
ma_X01_288
ma_X01_289
ma_X01_29
ma_X01_292
ma_X01_295
ma_X01_296
ma_X01_297
ma_X01_298
ma_X01_299
ma_X01_3
ma_X01_30
ma_X01_300
ma_X01_302
ma_X01_303
ma_X01_304
ma_X01_305
ma_X01_306
ma_X01_307
ma_X01_308
ma_X01_309
ma_X01_310
ma_X01_312
ma_X01_313
ma_X01_319
ma_X01_32
ma_X01_322
ma_X01_325
ma_X01_326
ma_X01_327
ma_X01_328
ma_X01_329
ma_X01_33
ma_X01_330
ma_X01_331
1e−20
1e−10
0.001
0.1
0.1+

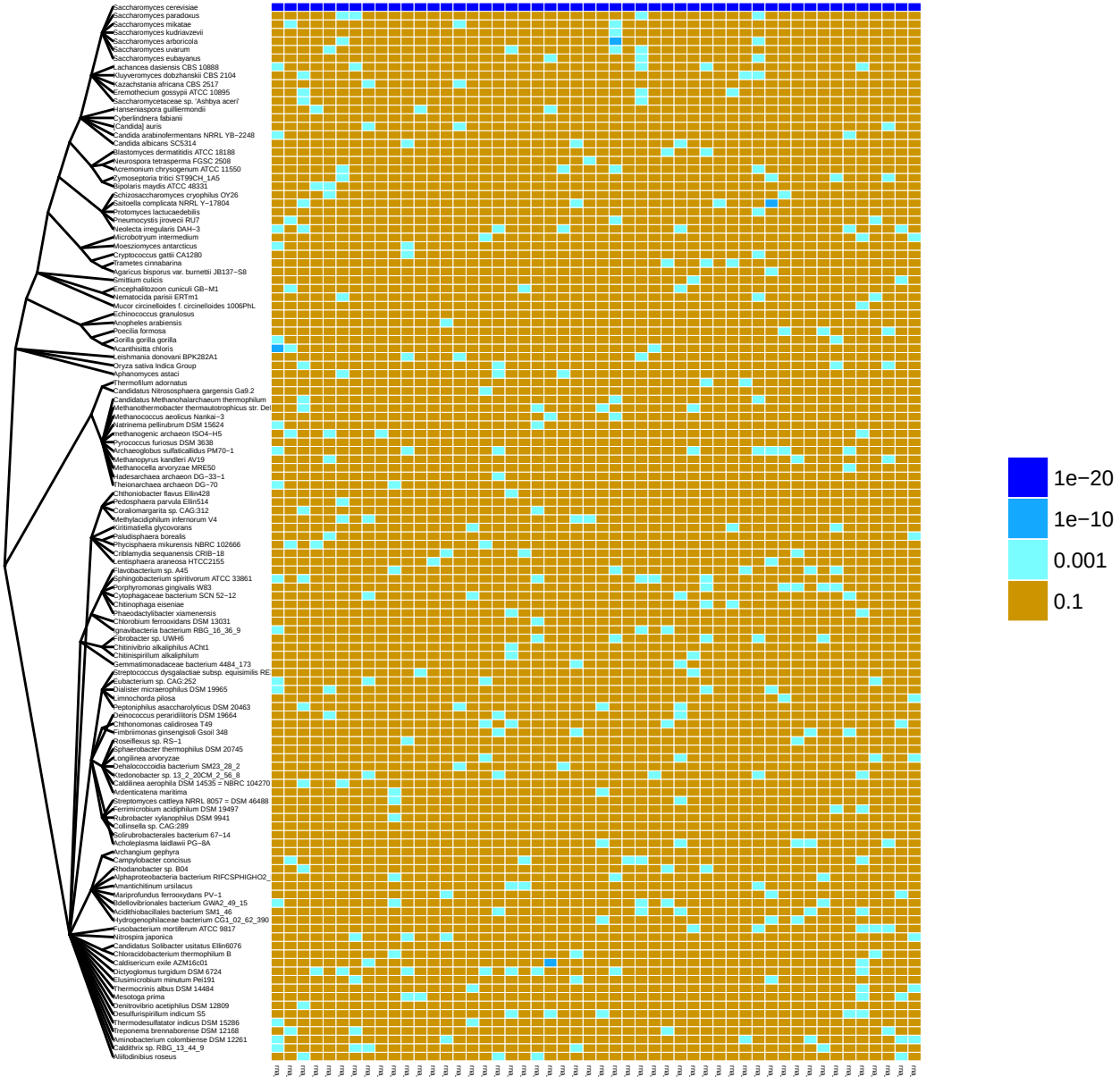

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niilofodinibius roseus
nu_XX_320
nu_XX_336
nu_XX_339
nu_XX_34
nu_XX_340
nu_XX_342
nu_XX_343
nu_XX_344
nu_XX_345
nu_XX_346
nu_XX_347
nu_XX_348
nu_XX_349
nu_XX_35
nu_XX_350
nu_XX_351
nu_XX_352
nu_XX_357
nu_XX_358
nu_XX_359
nu_XX_360
nu_XX_361
nu_XX_362
nu_XX_363
nu_XX_364
nu_XX_366
nu_XX_367
nu_XX_368
nu_XX_369
nu_XX_370
nu_XX_371
nu_XX_372
nu_XX_374
nu_XX_375
nu_XX_377
nu_XX_378
nu_XX_379
nu_XX_380
nu_XX_381
nu_XX_383
nu_XX_384
nu_XX_386
nu_XX_387
nu_XX_388
nu_XX_394
nu_XX_396
nu_XX_398
nu_XX_4
nu_XX_40
nu_XX_400
1e−20
1e−10
0.001
0.1
0.1+

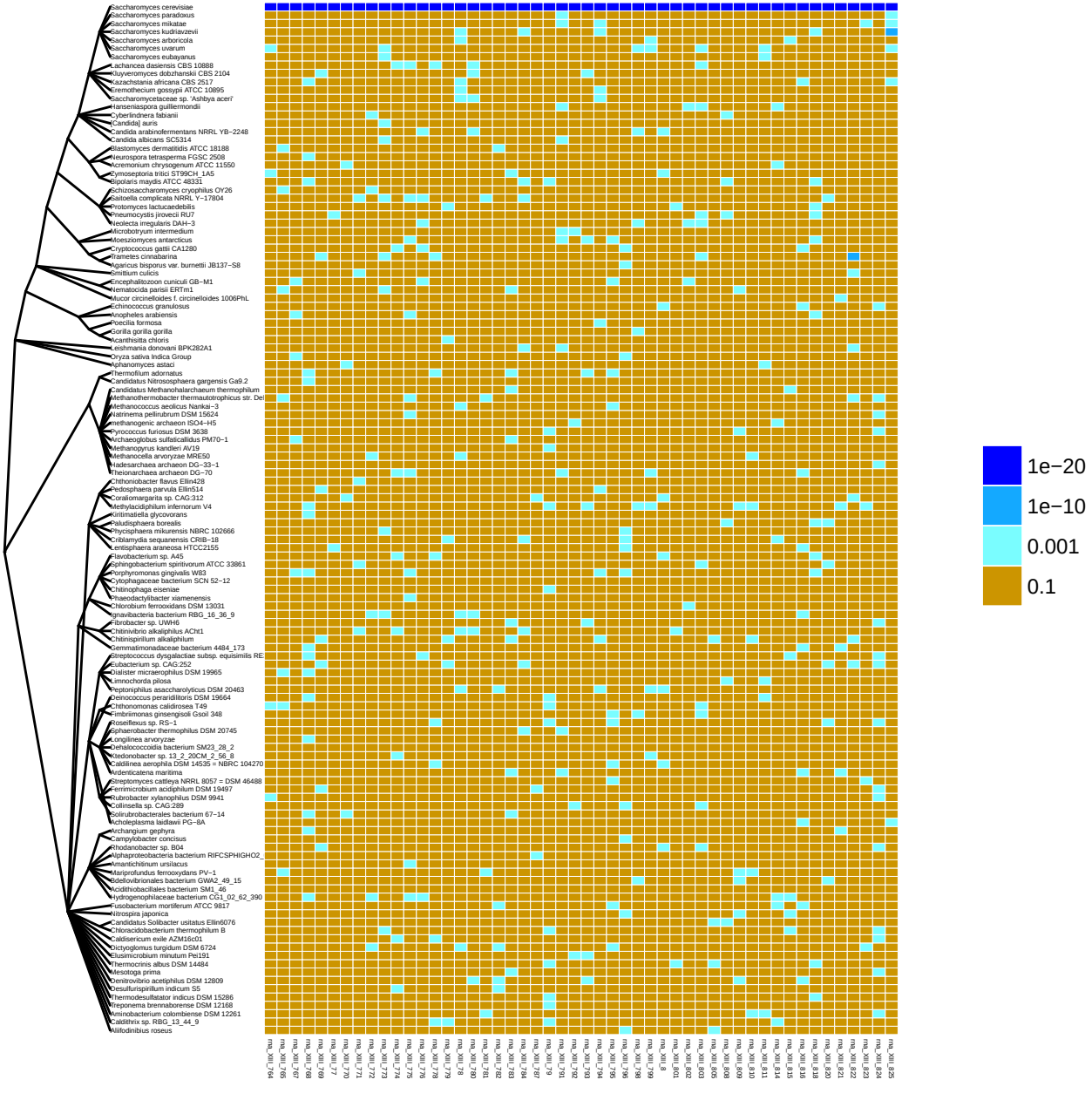

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_301_402
mu_301_403
mu_301_404
mu_301_405
mu_301_406
mu_301_407
mu_301_408
mu_301_409
mu_301_411
mu_301_412
mu_301_414
mu_301_420
mu_301_422
mu_301_423
mu_301_424
mu_301_425
mu_301_427
mu_301_429
mu_301_43
mu_301_430
mu_301_431
mu_301_432
mu_301_435
mu_301_437
mu_301_438
mu_301_439
mu_301_44
mu_301_441
mu_301_442
mu_301_443
mu_301_444
mu_301_445
mu_301_447
mu_301_448
mu_301_449
mu_301_450
mu_301_452
mu_301_453
mu_301_454
mu_301_455
mu_301_456
mu_301_457
mu_301_459
mu_301_461
mu_301_464
mu_301_465
mu_301_466
mu_301_467
mu_301_469
1e−20
1e−10
0.001
0.1
0.1+

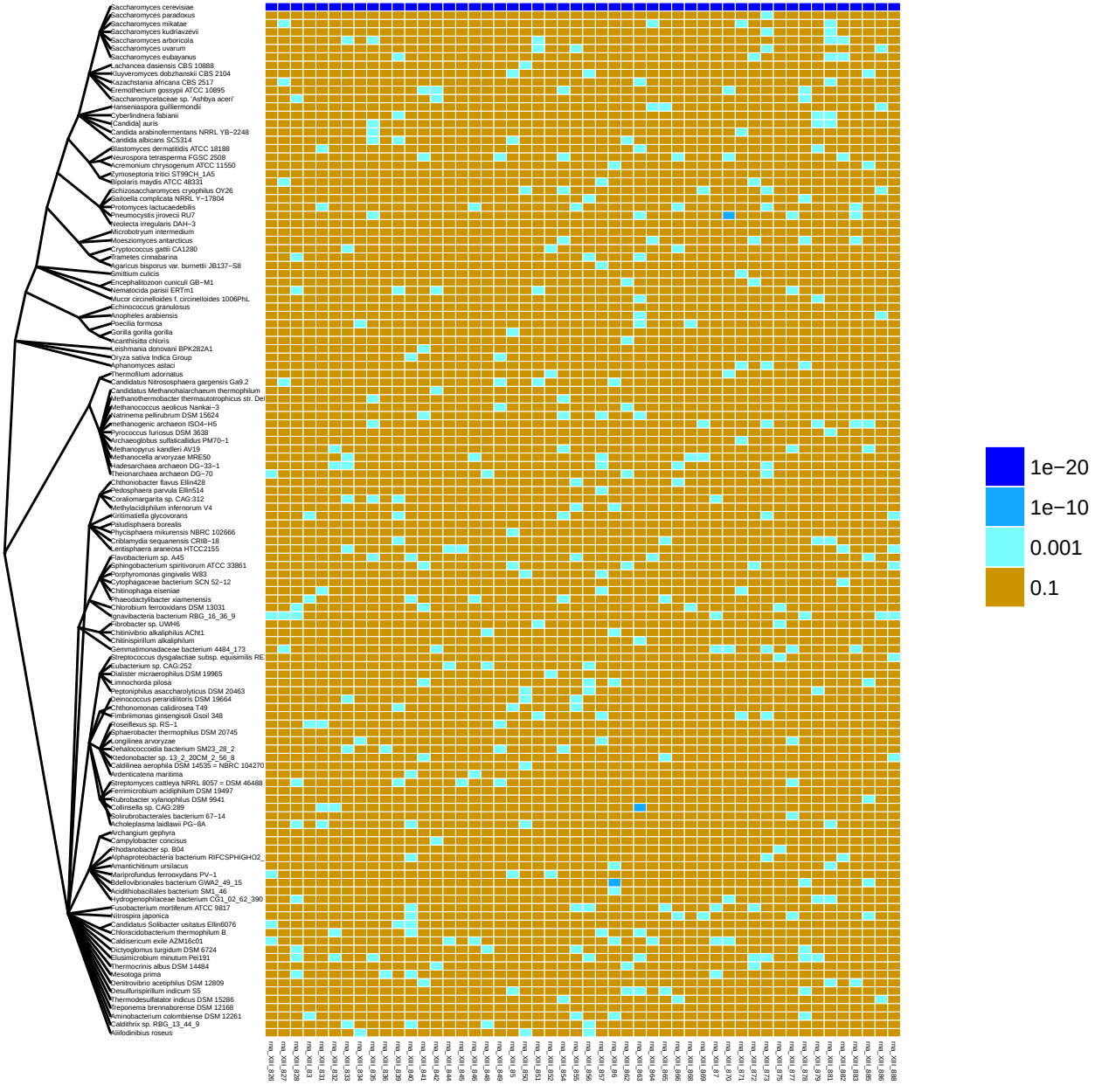

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thetionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_JOK_471
mu_JOK_472
mu_JOK_473
mu_JOK_474
mu_JOK_477
mu_JOK_478
mu_JOK_48
mu_JOK_481
mu_JOK_484
mu_JOK_485
mu_JOK_486
mu_JOK_488
mu_JOK_489
mu_JOK_49
mu_JOK_490
mu_JOK_491
mu_JOK_495
mu_JOK_496
mu_JOK_498
mu_JOK_50
mu_JOK_500
mu_JOK_501
mu_JOK_503
mu_JOK_504
mu_JOK_506
mu_JOK_511
mu_JOK_513
mu_JOK_514
mu_JOK_516
mu_JOK_519
mu_JOK_520
mu_JOK_521
mu_JOK_522
mu_JOK_527
mu_JOK_53
mu_JOK_531
mu_JOK_536
mu_JOK_537
mu_JOK_539
mu_JOK_541
mu_JOK_543
mu_JOK_546
mu_JOK_547
mu_JOK_548
mu_JOK_549
mu_JOK_550
mu_JOK_551
mu_JOK_552
mu_JOK_553
mu_JOK_554
1e−20
1e−10
0.001
0.1
0.1+

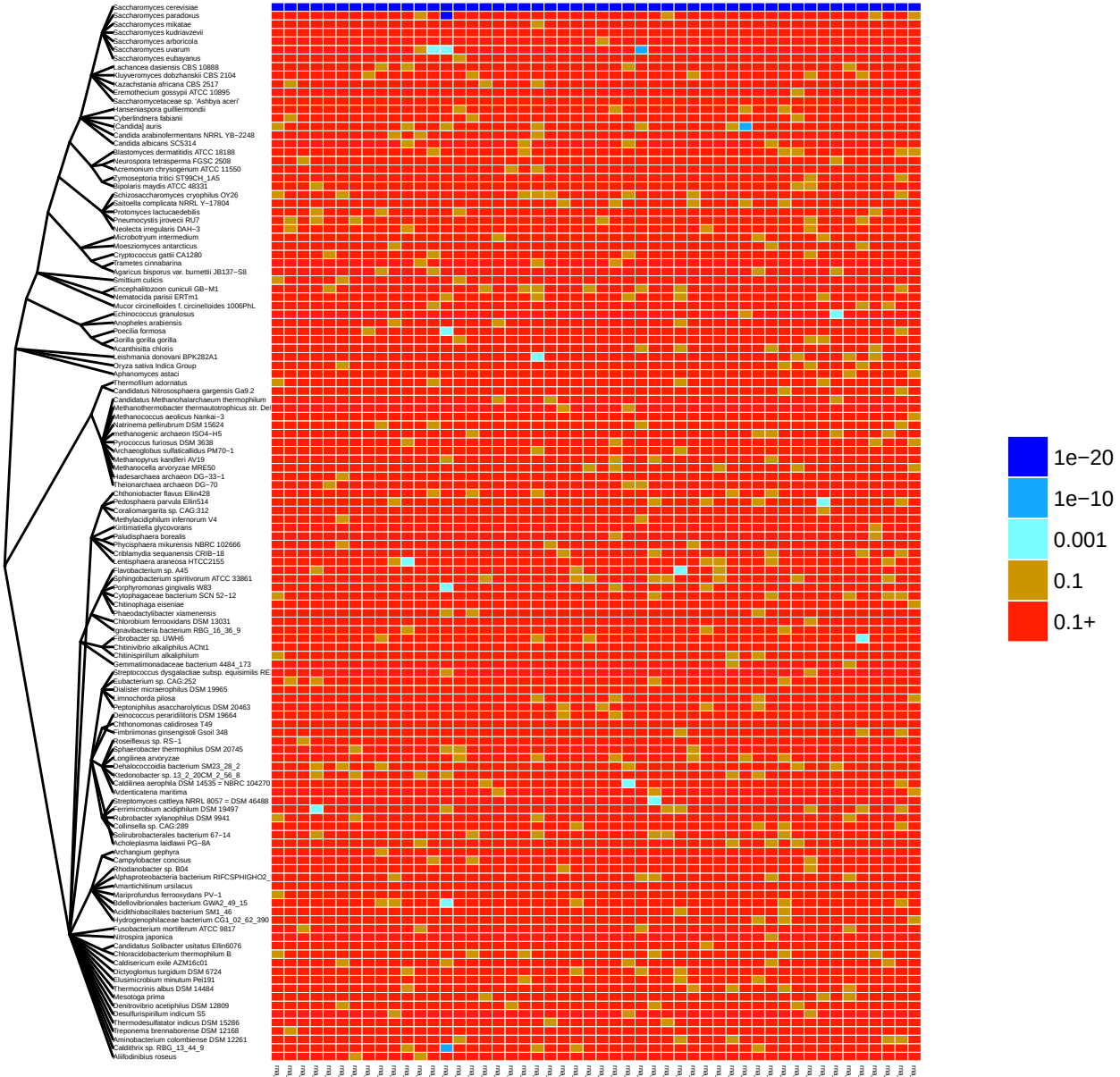

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszómyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
mu_KK_595
mu_KK_596
mu_KK_597
mu_KK_598
mu_KK_599
mu_KK_560
mu_KK_561
mu_KK_562
mu_KK_563
mu_KK_566
mu_KK_567
mu_KK_568
mu_KK_569
mu_KK_570
mu_KK_572
mu_KK_573
mu_KK_579
mu_KK_58
mu_KK_581
mu_KK_587
mu_KK_589
mu_KK_59
mu_KK_592
mu_KK_595
mu_KK_597
mu_KK_598
mu_KK_6
mu_KK_600
mu_KK_601
mu_KK_602
mu_KK_603
mu_KK_604
mu_KK_605
mu_KK_607
mu_KK_609
mu_KK_61
mu_KK_610
mu_KK_611
mu_KK_614
mu_KK_616
mu_KK_618
mu_KK_621
mu_KK_624
mu_KK_625
mu_KK_626
mu_KK_627
mu_KK_628
mu_KK_630
mu_KK_631
mu_KK_632
1e−20
1e−10
0.001
0.1
0.1+

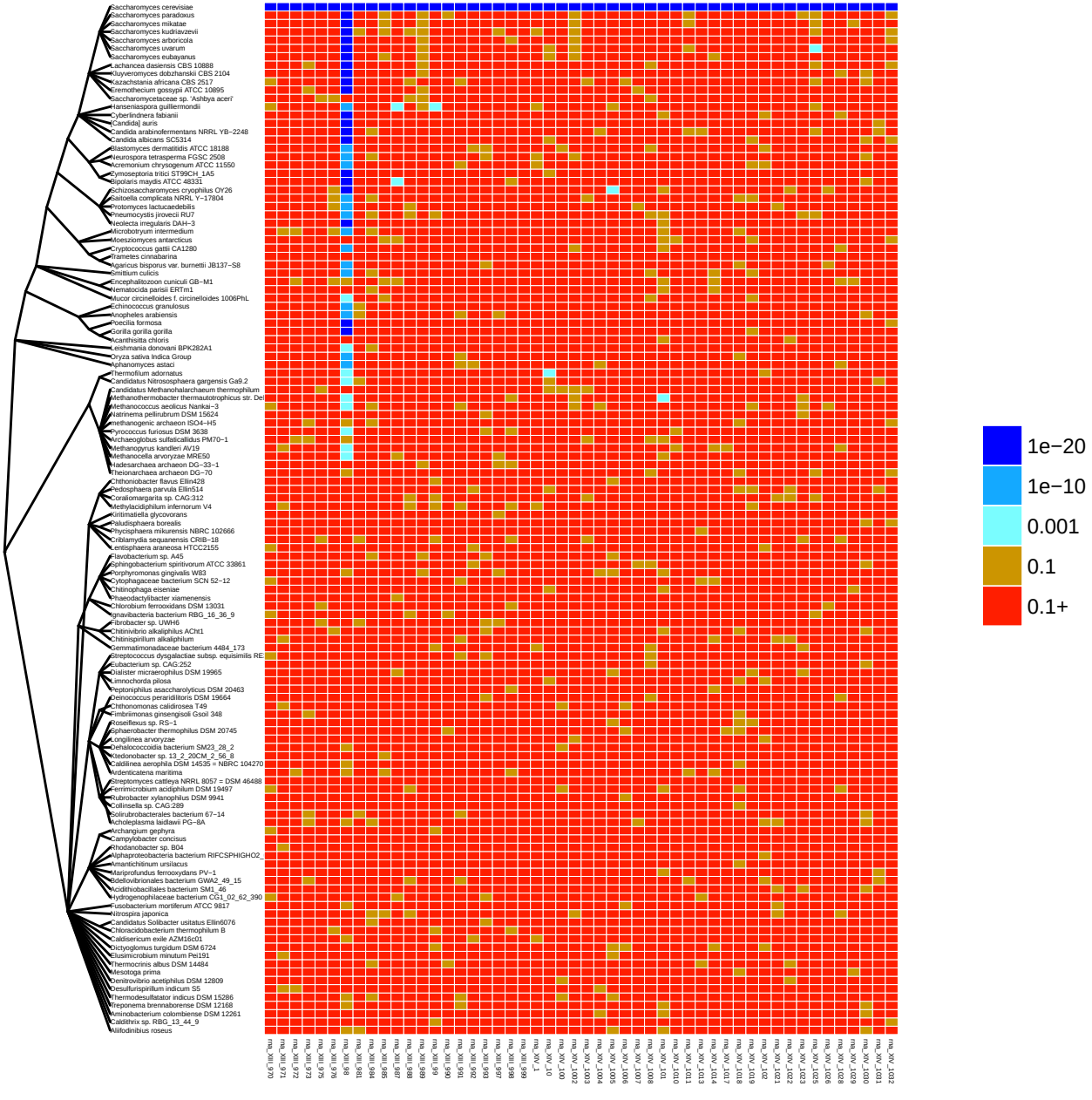

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ru_XK_G_03
ru_XK_G_04
ru_XK_G_05
ru_XK_G_06
ru_XK_G_07
ru_XK_G_08
ru_XK_G_09
ru_XK_G_14
ru_XK_G_43
ru_XK_G_46
ru_XK_G_47
ru_XK_G_48
ru_XK_G_49
ru_XK_G_50
ru_XK_G_53
ru_XK_G_54
ru_XK_G_55
ru_XK_G_56
ru_XK_G_57
ru_XK_G_58
ru_XK_G_59
ru_XK_G_60
ru_XK_G_61
ru_XK_G_62
ru_XK_G_63
ru_XK_G_64
ru_XK_G_65
ru_XK_G_66
ru_XK_G_67
ru_XK_G_70
ru_XK_G_72
ru_XK_G_74
ru_XK_G_75
ru_XK_G_76
ru_XK_G_77
ru_XK_G_78
ru_XK_G_79
ru_XK_G_80
ru_XK_G_81
ru_XK_G_82
ru_XK_G_83
ru_XK_G_84
ru_XK_G_85
ru_XK_G_86
ru_XK_G_87
ru_XK_G_88
ru_XK_G_89
ru_XK_G_90
ru_XK_G_91
ru_XK_G_92
ru_XK_G_93
1e−20
1e−10
0.001
0.1
0.1+

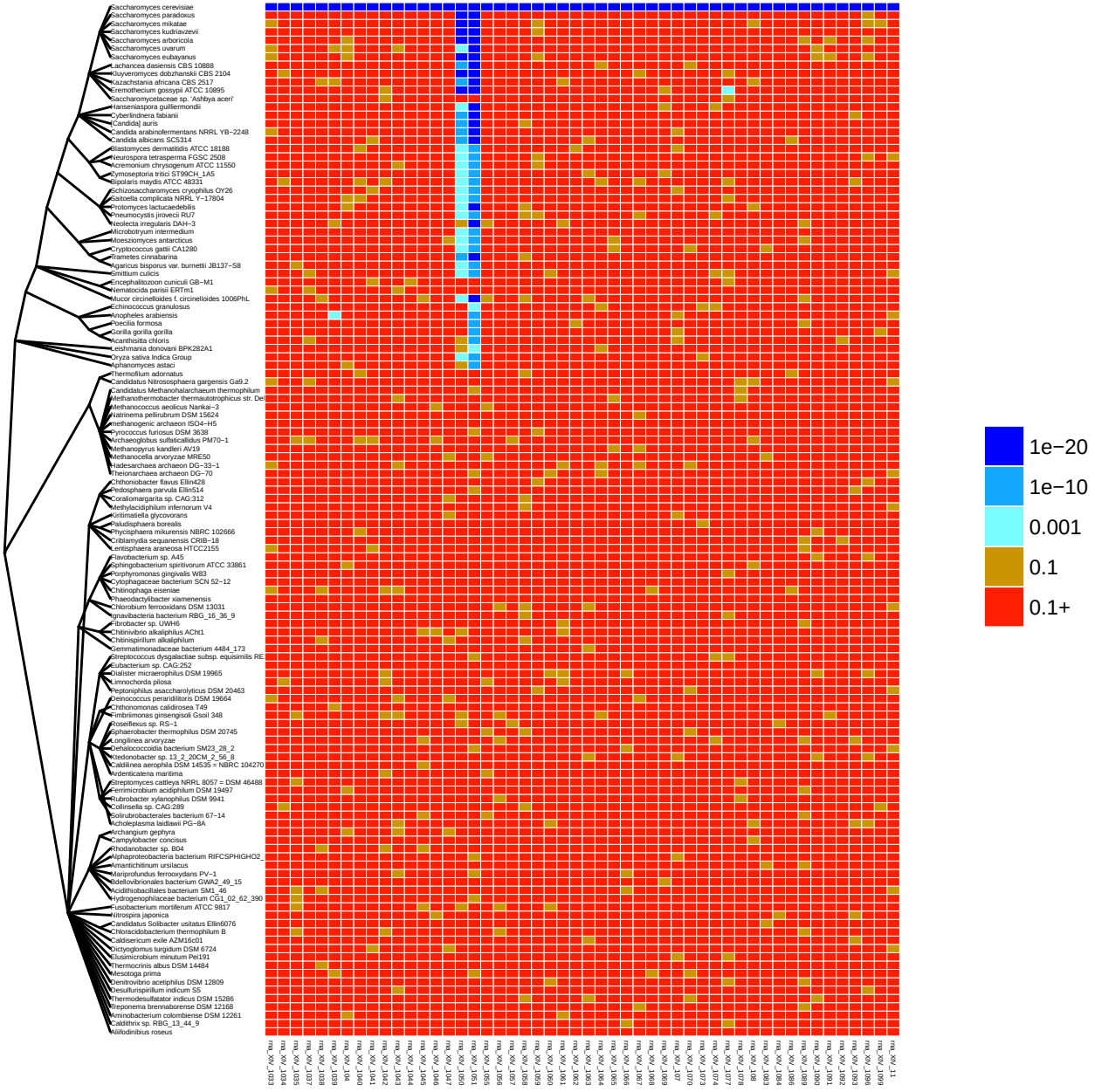

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1

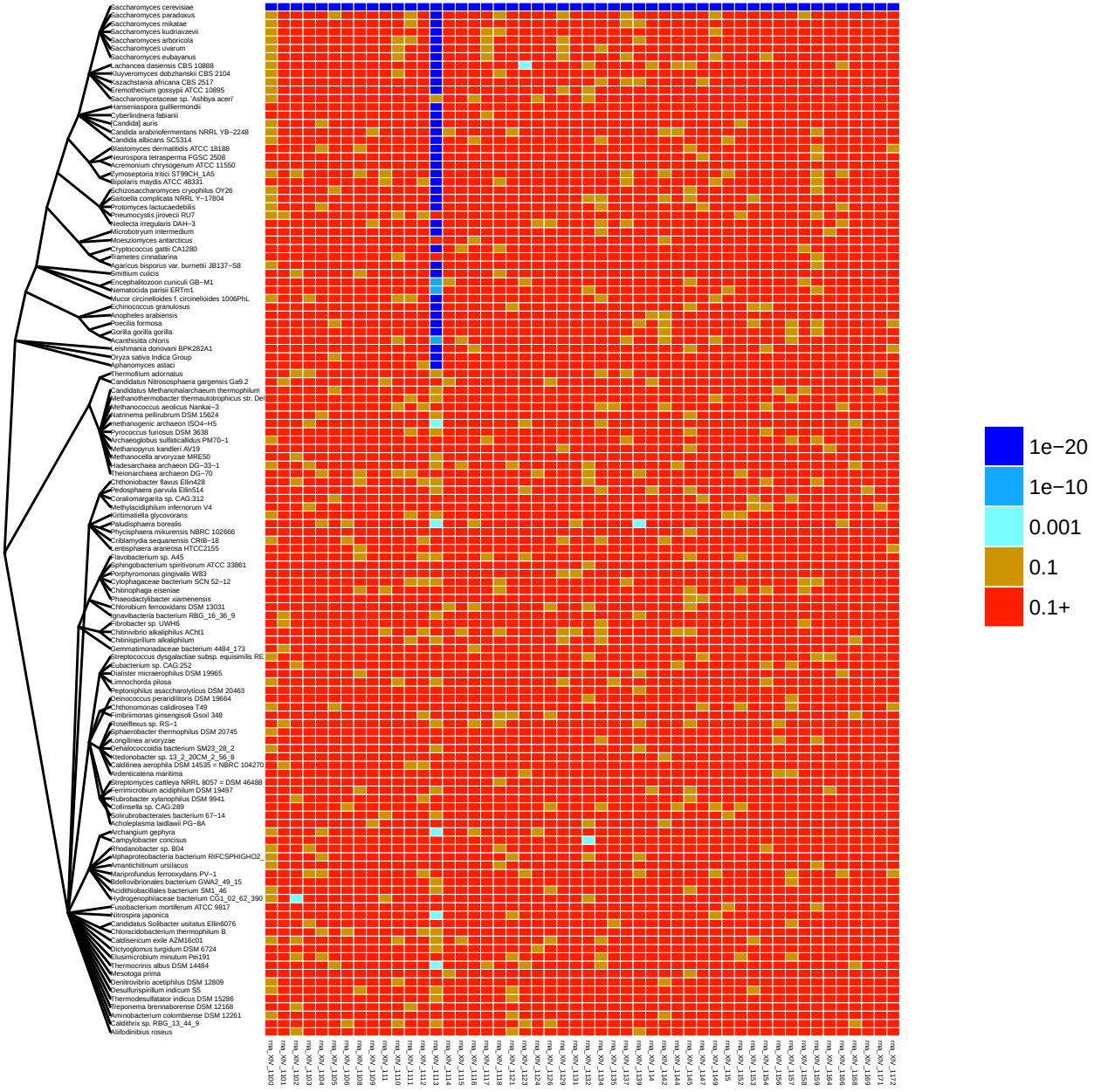

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1

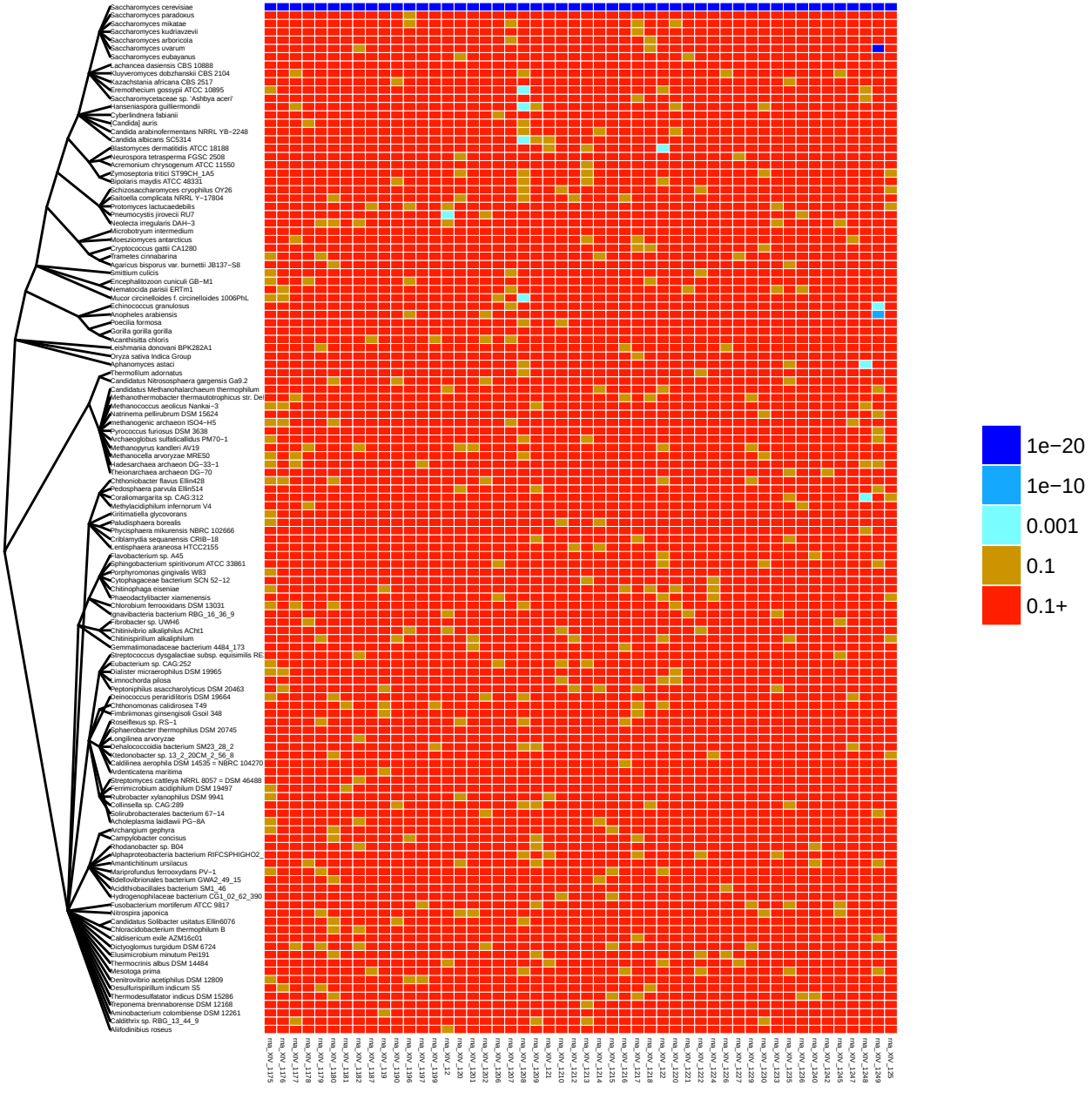

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignifodinibius roseus
mu_IOK_8_126
mu_IOK_8_127
mu_IOK_8_128
mu_IOK_8_13
mu_IOK_8_131
mu_IOK_8_132
mu_IOK_8_133
mu_IOK_8_134
mu_IOK_8_135
mu_IOK_8_136
mu_IOK_8_140
mu_IOK_8_141
mu_IOK_8_142
mu_IOK_8_144
mu_IOK_8_145
mu_IOK_8_146
mu_IOK_8_148
mu_IOK_8_149
mu_IOK_8_15
mu_IOK_8_150
mu_IOK_8_151
mu_IOK_8_152
mu_IOK_8_154
mu_IOK_8_155
mu_IOK_8_156
mu_IOK_8_157
mu_IOK_8_159
mu_IOK_8_162
mu_IOK_8_163
mu_IOK_8_164
mu_IOK_8_165
mu_IOK_8_166
mu_IOK_8_168
mu_IOK_8_169
mu_IOK_8_170
mu_IOK_8_171
mu_IOK_8_172
mu_IOK_8_174
mu_IOK_8_175
mu_IOK_8_177
mu_IOK_8_178
mu_IOK_8_179
mu_IOK_8_181
mu_IOK_8_182
mu_IOK_8_183
mu_IOK_8_185
mu_IOK_8_186
mu_IOK_8_188
1e−20
1e−10
0.001
0.1

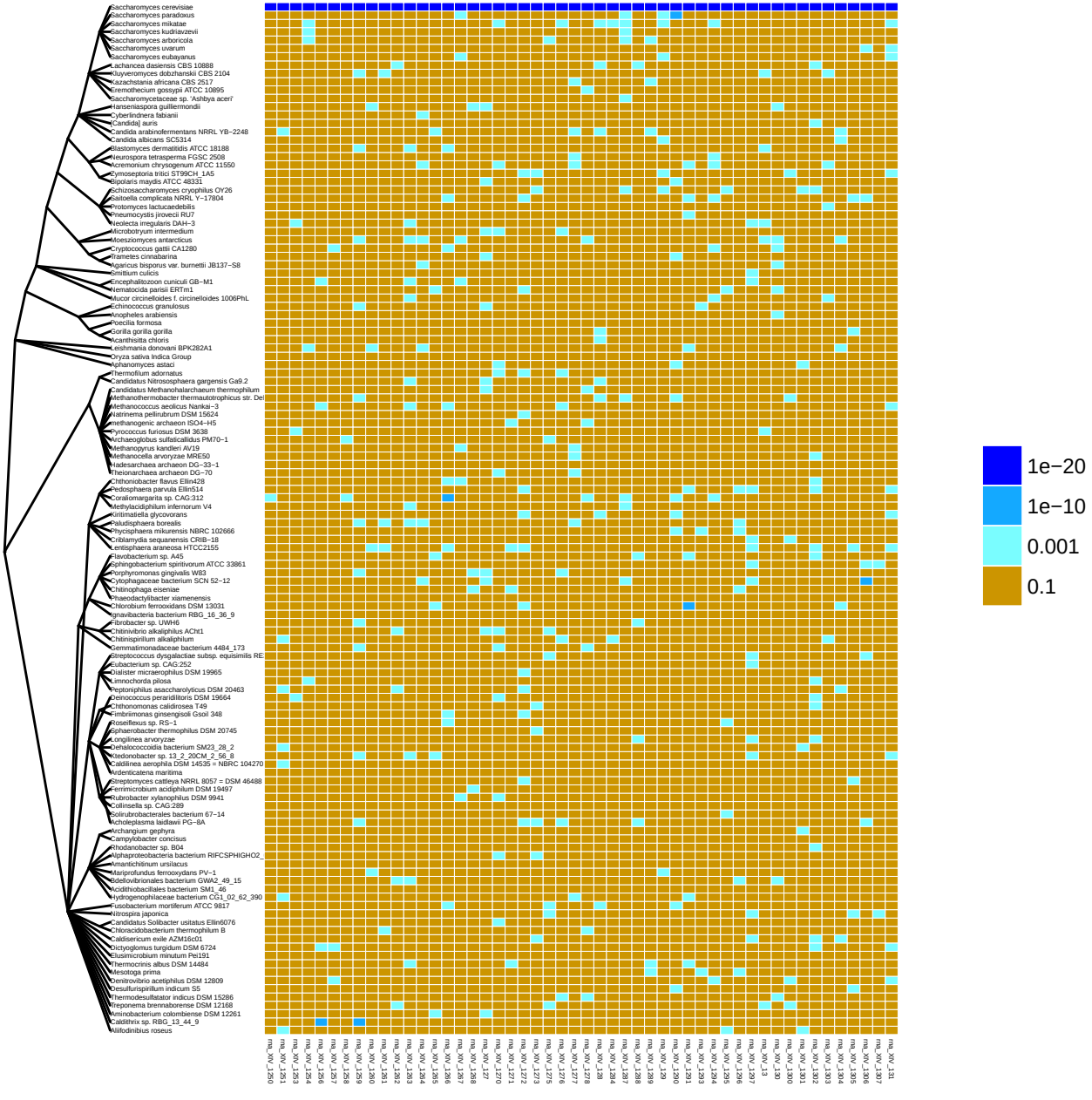

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

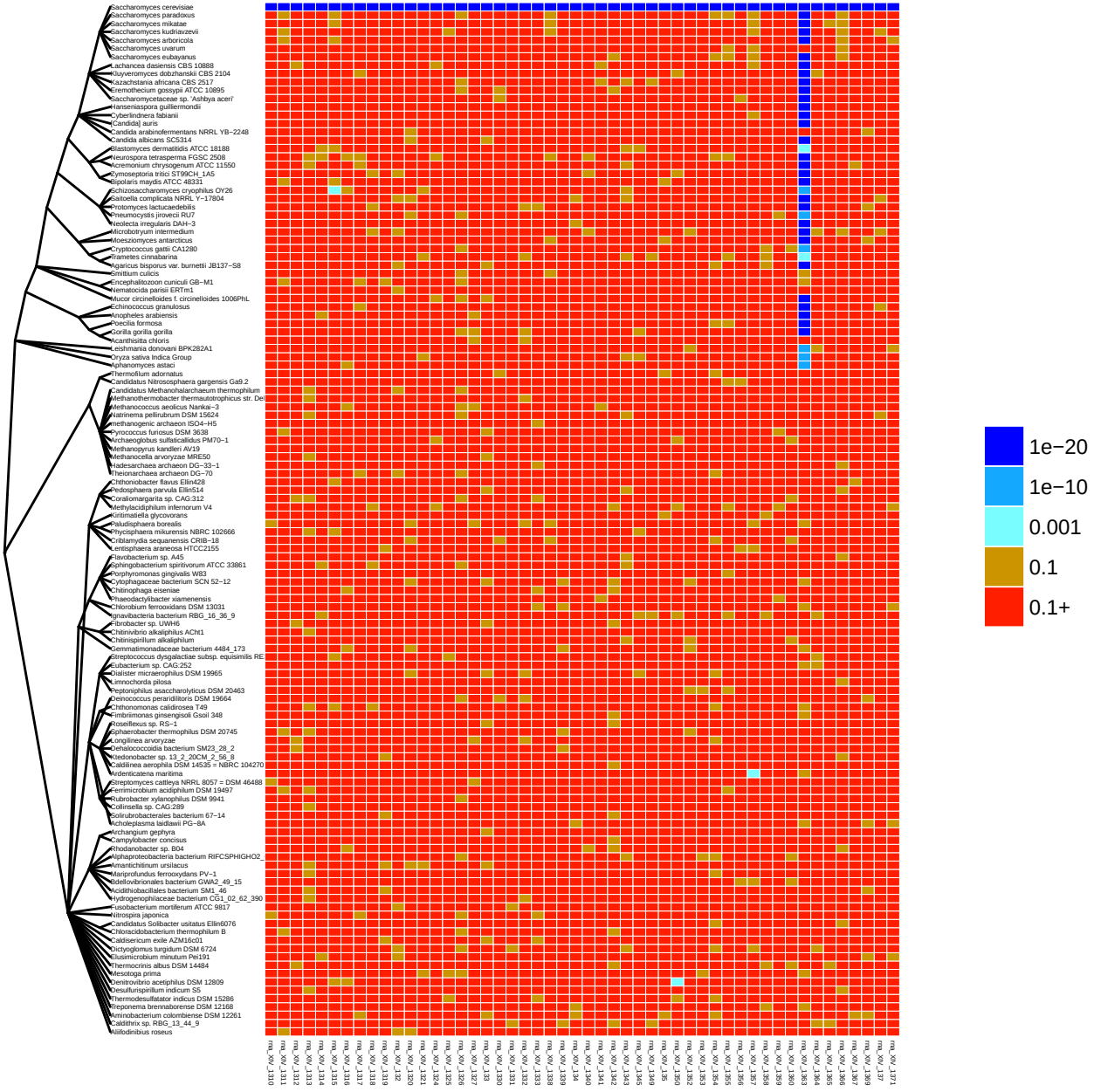

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_XX_1_970
mu_XX_1_971
mu_XX_1_972
mu_XX_1_973
mu_XX_1_975
mu_XX_1_976
mu_XX_1_978
mu_XX_1_946
mu_XX_1_955
mu_XX_1_987
mu_XX_1_988
mu_XX_1_989
mu_XX_1_990
mu_XX_1_991
mu_XX_1_992
mu_XX_1_993
mu_XX_1_997
mu_XX_1_998
mu_XX_1_999
mu_XX_1_1
mu_XX_1_10
mu_XX_1_100
mu_XX_1_1000
mu_XX_1_1002
mu_XX_1_1003
mu_XX_1_1004
mu_XX_1_1005
mu_XX_1_1006
mu_XX_1_1007
mu_XX_1_1008
mu_XX_1_101
mu_XX_1_1010
mu_XX_1_1011
mu_XX_1_1013
mu_XX_1_1014
mu_XX_1_1017
mu_XX_1_1018
mu_XX_1_1019
mu_XX_1_120
mu_XX_1_1021
mu_XX_1_1022
mu_XX_1_1023
mu_XX_1_1025
mu_XX_1_1026
mu_XX_1_1028
mu_XX_1_1029
mu_XX_1_1030
mu_XX_1_1031
mu_XX_1_1032
1e−20
1e−10
0.001
0.1
0.1+

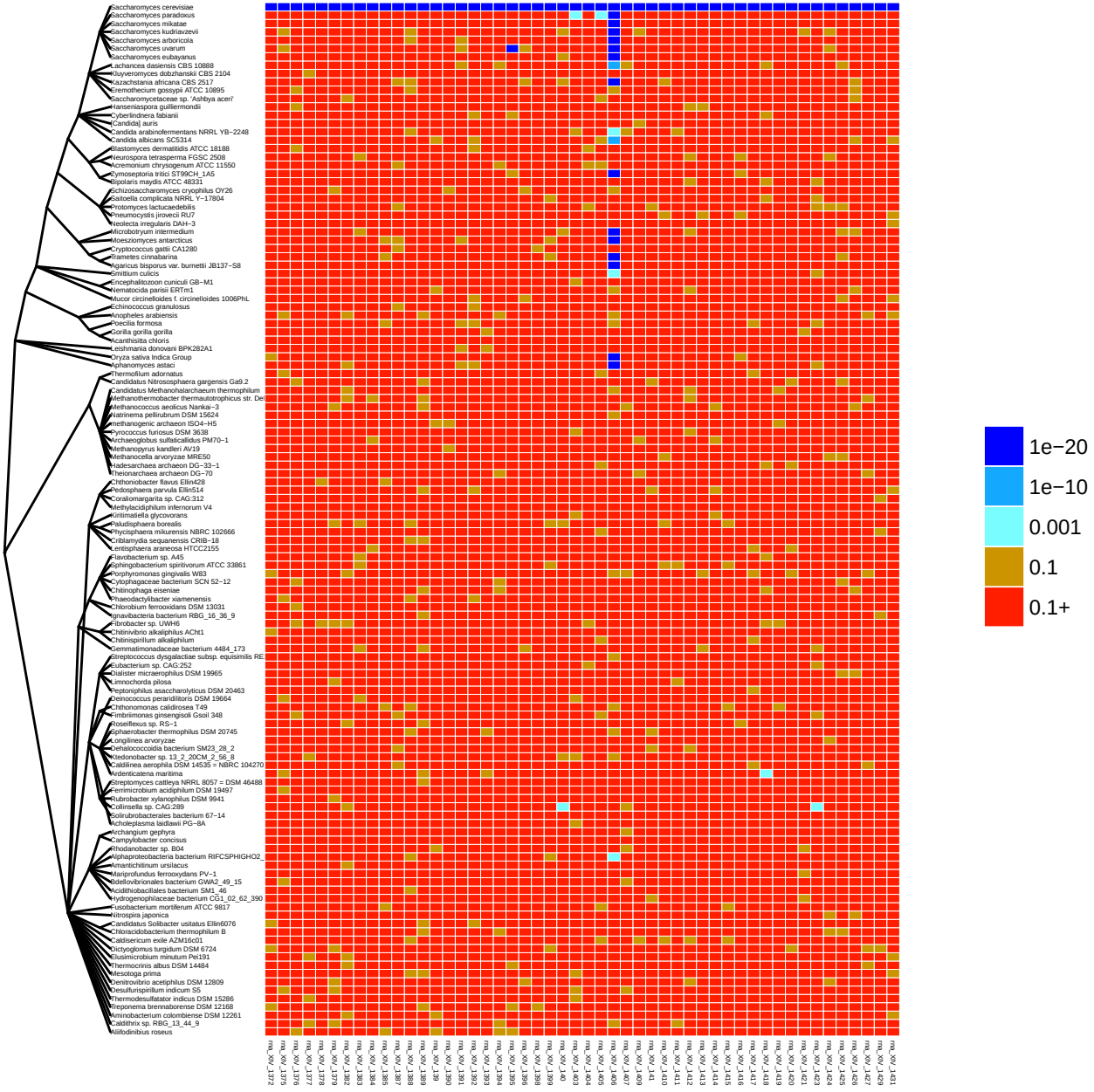

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XX_1033
ma_XX_1034
ma_XX_1035
ma_XX_1037
ma_XX_1038
ma_XX_1039
ma_XX_104
ma_XX_1040
ma_XX_1041
ma_XX_1042
ma_XX_1043
ma_XX_1044
ma_XX_1045
ma_XX_1046
ma_XX_1047
ma_XX_1050
ma_XX_1051
ma_XX_1055
ma_XX_1056
ma_XX_1057
ma_XX_1058
ma_XX_1059
ma_XX_1060
ma_XX_1061
ma_XX_1062
ma_XX_1063
ma_XX_1064
ma_XX_1065
ma_XX_1066
ma_XX_1067
ma_XX_1068
ma_XX_1069
ma_XX_107
ma_XX_1070
ma_XX_1073
ma_XX_1074
ma_XX_1077
ma_XX_1078
ma_XX_108
ma_XX_1083
ma_XX_1084
ma_XX_1086
ma_XX_1089
ma_XX_1090
ma_XX_1091
ma_XX_1092
ma_XX_1093
ma_XX_1096
ma_XX_1099
ma_XX_11
1e−20
1e−10
0.001
0.1
0.1+

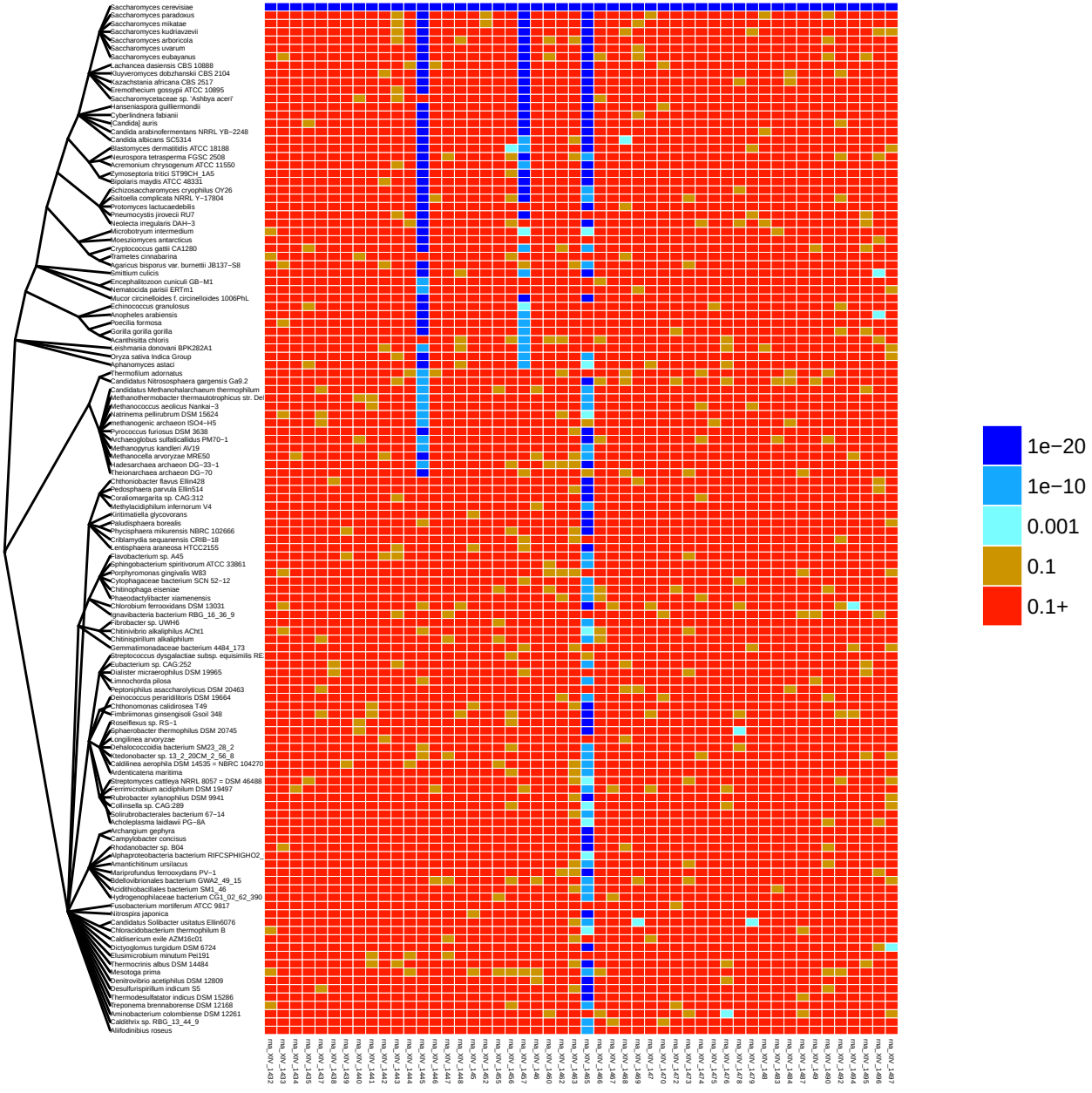

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Sporisorium reilianum SRZ2
Ustilago maydis 521
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9557
Malassezia yamatoensis CBS 9555
Malassezia japonica CBS 9557
Malassezia brasiliensis CBS 9555
ma_00_1100
ma_00_1101
ma_00_1102
ma_00_1103
ma_00_1104
ma_00_1105
ma_00_1106
ma_00_1108
ma_00_1109
ma_00_1111
ma_00_1110
ma_00_1112
ma_00_1113
ma_00_1114
ma_00_1115
ma_00_1116
ma_00_1117
ma_00_1118
ma_00_1121
ma_00_1123
ma_00_1124
ma_00_1126
ma_00_1129
ma_00_1131
ma_00_1132
ma_00_1134
ma_00_1135
ma_00_1137
ma_00_1139
ma_00_1144
ma_00_1142
ma_00_1145
ma_00_1147
ma_00_1149
ma_00_1152
ma_00_1153
ma_00_1154
ma_00_1156
ma_00_1157
ma_00_1158
ma_00_1159
ma_00_1164
ma_00_1166
ma_00_1168
ma_00_1169
ma_00_1171
ma_00_1172
1e−20
1e−10
0.001
0.1
0.1+

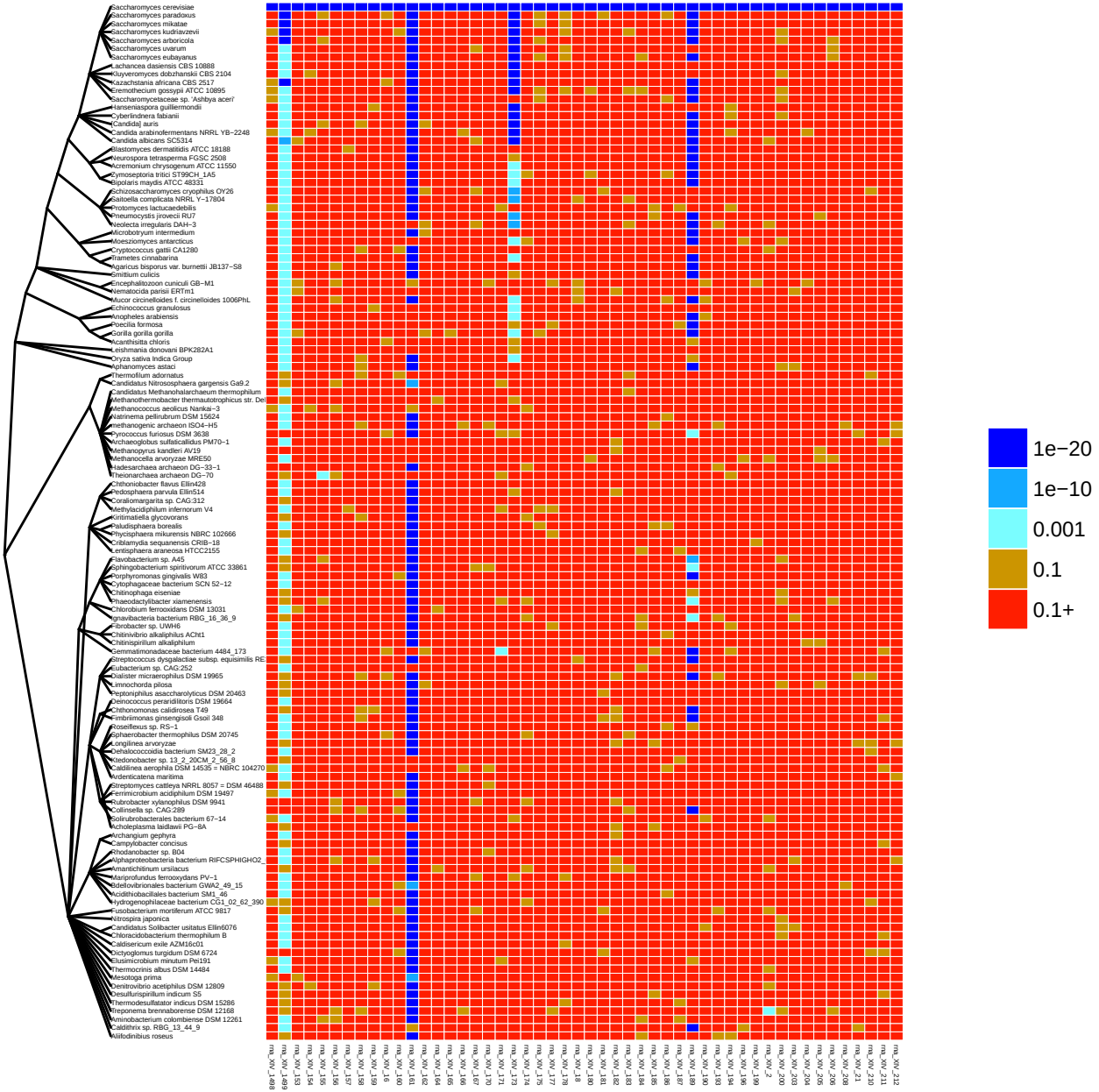

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
ma_XV_1175
ma_XV_1176
ma_XV_1177
ma_XV_1178
ma_XV_1179
ma_XV_1180
ma_XV_1181
ma_XV_1182
ma_XV_1187
ma_XV_119
ma_XV_1190
ma_XV_1196
ma_XV_1197
ma_XV_1199
ma_XV_12
ma_XV_120
ma_XV_1201
ma_XV_1202
ma_XV_1206
ma_XV_1207
ma_XV_1208
ma_XV_1209
ma_XV_121
ma_XV_1210
ma_XV_1212
ma_XV_1213
ma_XV_1214
ma_XV_1215
ma_XV_1216
ma_XV_1217
ma_XV_1218
ma_XV_122
ma_XV_1220
ma_XV_1221
ma_XV_1222
ma_XV_1224
ma_XV_1226
ma_XV_1227
ma_XV_1229
ma_XV_1230
ma_XV_1233
ma_XV_1235
ma_XV_1236
ma_XV_1240
ma_XV_1242
ma_XV_1245
ma_XV_1247
ma_XV_1248
ma_XV_1249
ma_XV_125
1e−20
1e−10
0.001
0.1
0.1+

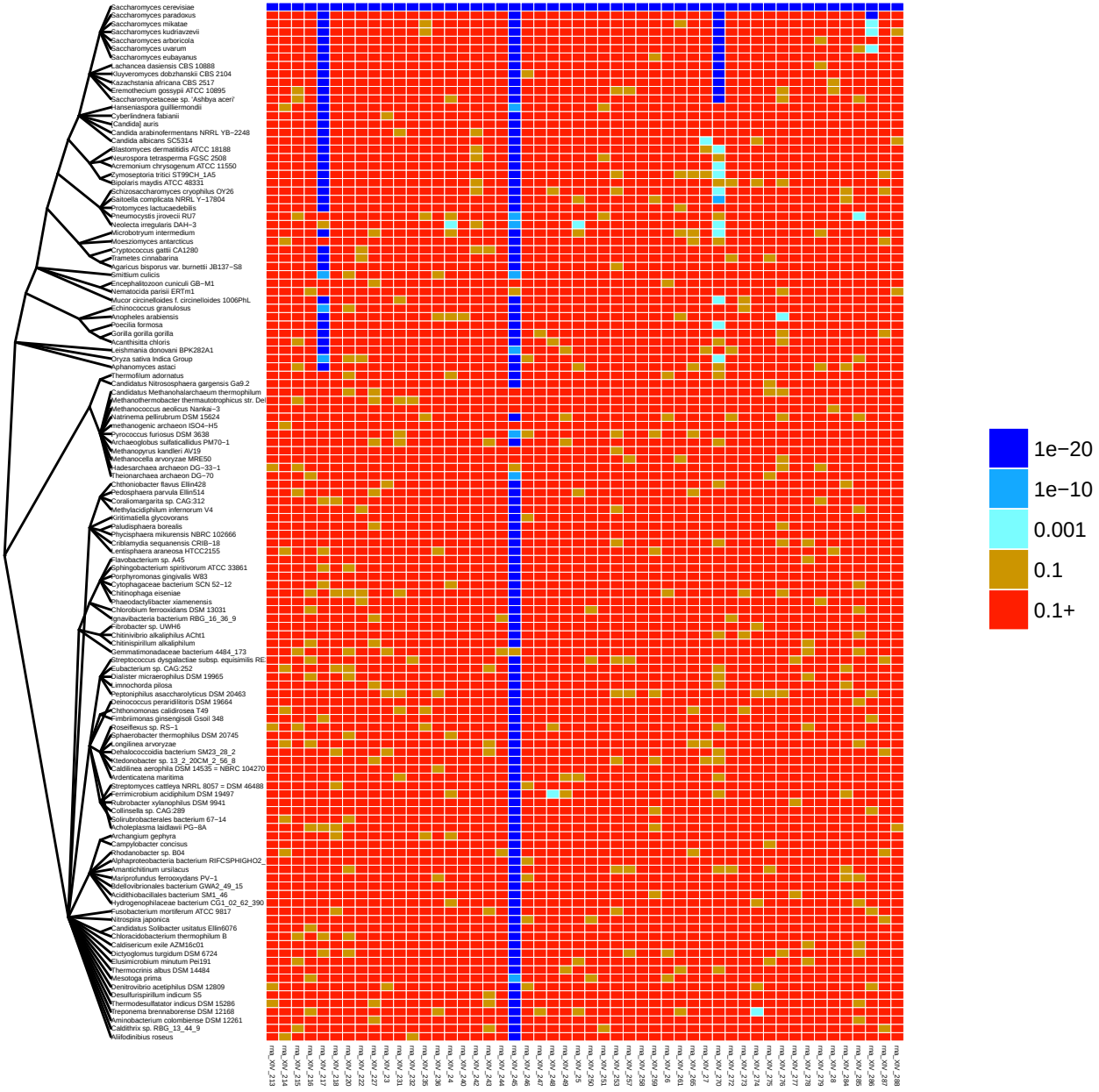

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_00_1250
ma_00_1251
ma_00_1253
ma_00_1254
ma_00_1256
ma_00_1257
ma_00_1258
ma_00_1259
ma_00_1260
ma_00_1261
ma_00_1262
ma_00_1263
ma_00_1264
ma_00_1265
ma_00_1266
ma_00_1267
ma_00_1268
ma_00_1127
ma_00_1270
ma_00_1271
ma_00_1272
ma_00_1273
ma_00_1275
ma_00_1276
ma_00_1277
ma_00_1278
ma_00_1279
ma_00_128
ma_00_1284
ma_00_1287
ma_00_1288
ma_00_1289
ma_00_129
ma_00_1290
ma_00_1291
ma_00_1293
ma_00_1294
ma_00_1295
ma_00_1296
ma_00_1297
ma_00_13
ma_00_130
ma_00_1300
ma_00_1301
ma_00_1302
ma_00_1303
ma_00_1304
ma_00_1305
ma_00_1306
ma_00_1307
ma_00_131
1e−20
1e−10
0.001
0.1

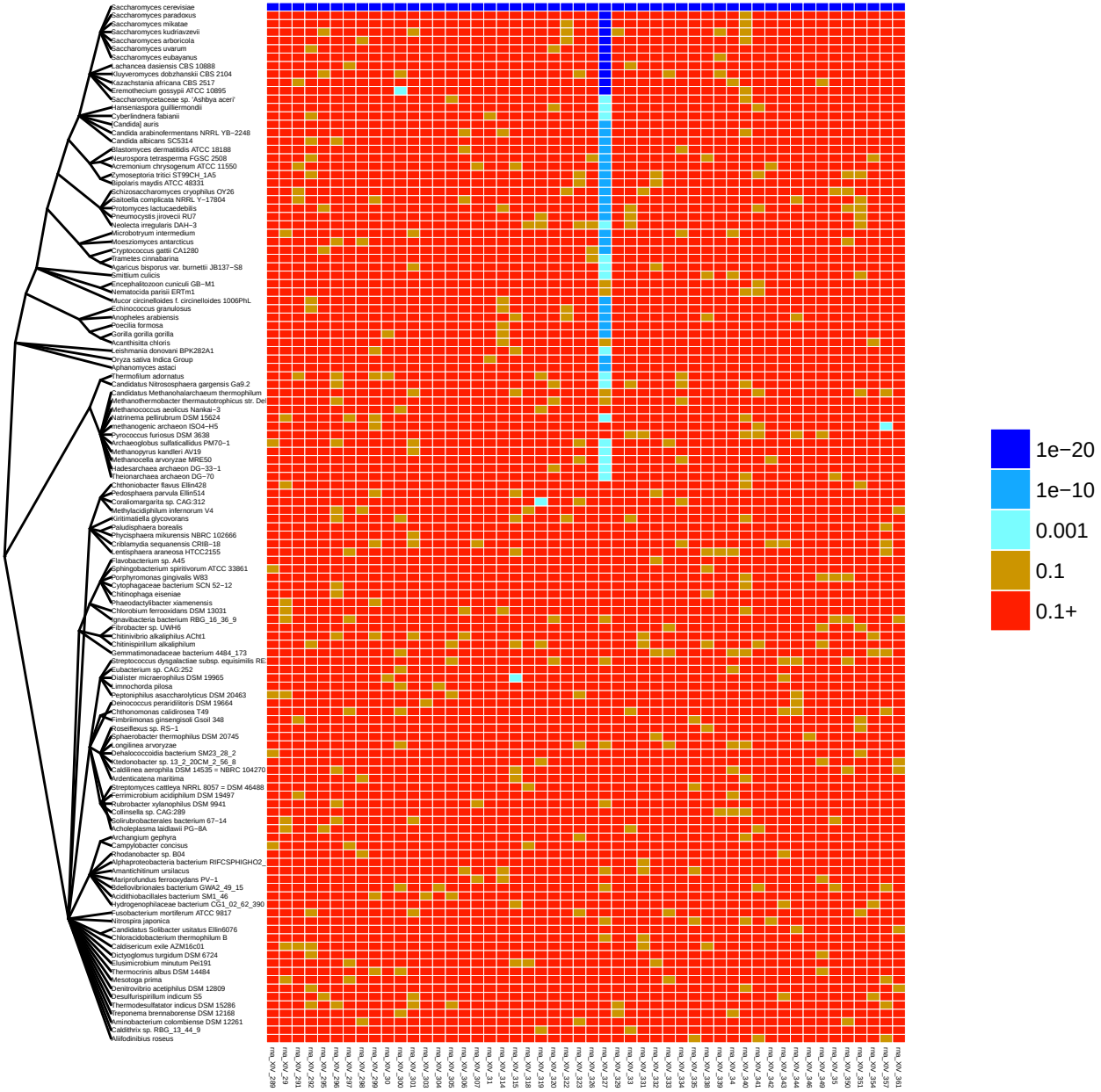

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_XV_1310
ma_XV_1311
ma_XV_1312
ma_XV_1313
ma_XV_1314
ma_XV_1315
ma_XV_1316
ma_XV_1317
ma_XV_1318
ma_XV_1319
ma_XV_132
ma_XV_1320
ma_XV_1321
ma_XV_1324
ma_XV_1325
ma_XV_1326
ma_XV_1327
ma_XV_133
ma_XV_1330
ma_XV_1331
ma_XV_1332
ma_XV_1333
ma_XV_1338
ma_XV_1339
ma_XV_134
ma_XV_1340
ma_XV_1341
ma_XV_1342
ma_XV_1343
ma_XV_1345
ma_XV_1349
ma_XV_135
ma_XV_1350
ma_XV_1352
ma_XV_1353
ma_XV_1354
ma_XV_1355
ma_XV_1356
ma_XV_1357
ma_XV_1358
ma_XV_1359
ma_XV_1360
ma_XV_1363
ma_XV_1364
ma_XV_1365
ma_XV_1366
ma_XV_1367
ma_XV_1369
ma_XV_137
ma_XV_1371
1e−20
1e−10
0.001
0.1
0.1+

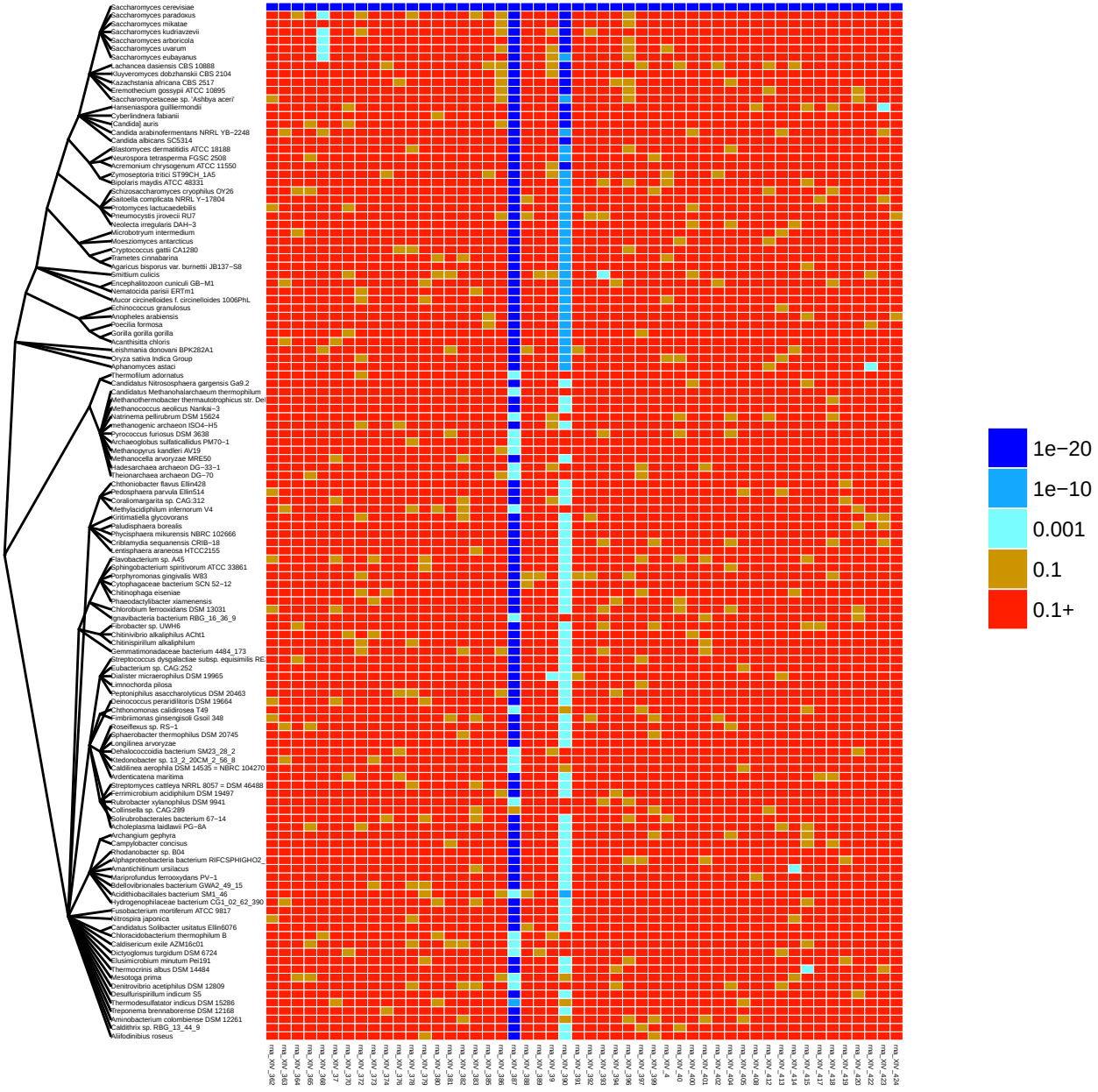

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
ma_XV_1372
ma_XV_1375
ma_XV_1376
ma_XV_1377
ma_XV_1378
ma_XV_1379
ma_XV_1382
ma_XV_1383
ma_XV_1384
ma_XV_1385
ma_XV_1387
ma_XV_1388
ma_XV_1389
ma_XV_1390
ma_XV_139
ma_XV_1391
ma_XV_1392
ma_XV_1393
ma_XV_1394
ma_XV_1395
ma_XV_1396
ma_XV_1398
ma_XV_1399
ma_XV_140
ma_XV_1403
ma_XV_1404
ma_XV_1405
ma_XV_1406
ma_XV_1407
ma_XV_1409
ma_XV_141
ma_XV_1410
ma_XV_1411
ma_XV_1412
ma_XV_1413
ma_XV_1414
ma_XV_1415
ma_XV_1416
ma_XV_1417
ma_XV_1418
ma_XV_1419
ma_XV_1420
ma_XV_1421
ma_XV_1423
ma_XV_1424
ma_XV_1425
ma_XV_1426
ma_XV_1427
ma_XV_1429
ma_XV_1431
1e−20
1e−10
0.001
0.1
0.1+

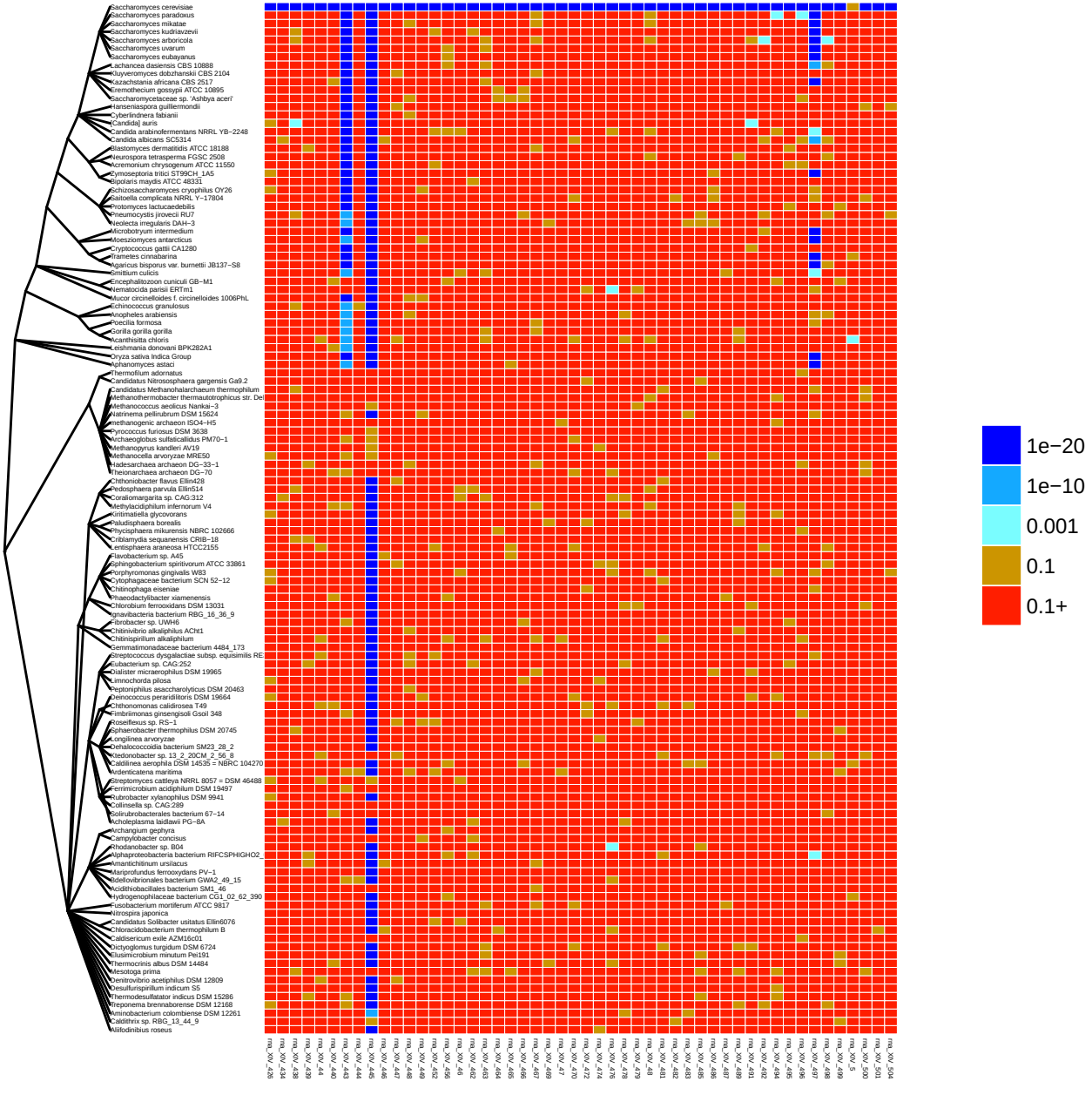

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XV_1422
ma_XV_1433
ma_XV_1434
ma_XV_1435
ma_XV_1437
ma_XV_1438
ma_XV_1439
ma_XV_1440
ma_XV_1441
ma_XV_1442
ma_XV_1443
ma_XV_1444
ma_XV_1445
ma_XV_1446
ma_XV_1447
ma_XV_1448
ma_XV_145
ma_XV_1452
ma_XV_1455
ma_XV_1456
ma_XV_1457
ma_XV_146
ma_XV_1460
ma_XV_1462
ma_XV_1463
ma_XV_1465
ma_XV_1466
ma_XV_1467
ma_XV_1468
ma_XV_1469
ma_XV_147
ma_XV_1470
ma_XV_1472
ma_XV_1473
ma_XV_1474
ma_XV_1475
ma_XV_1476
ma_XV_1478
ma_XV_1479
ma_XV_148
ma_XV_1483
ma_XV_1484
ma_XV_1487
ma_XV_149
ma_XV_1490
ma_XV_1492
ma_XV_1494
ma_XV_1495
ma_XV_1496
ma_XV_1497
1e−20
1e−10
0.001
0.1
0.1+

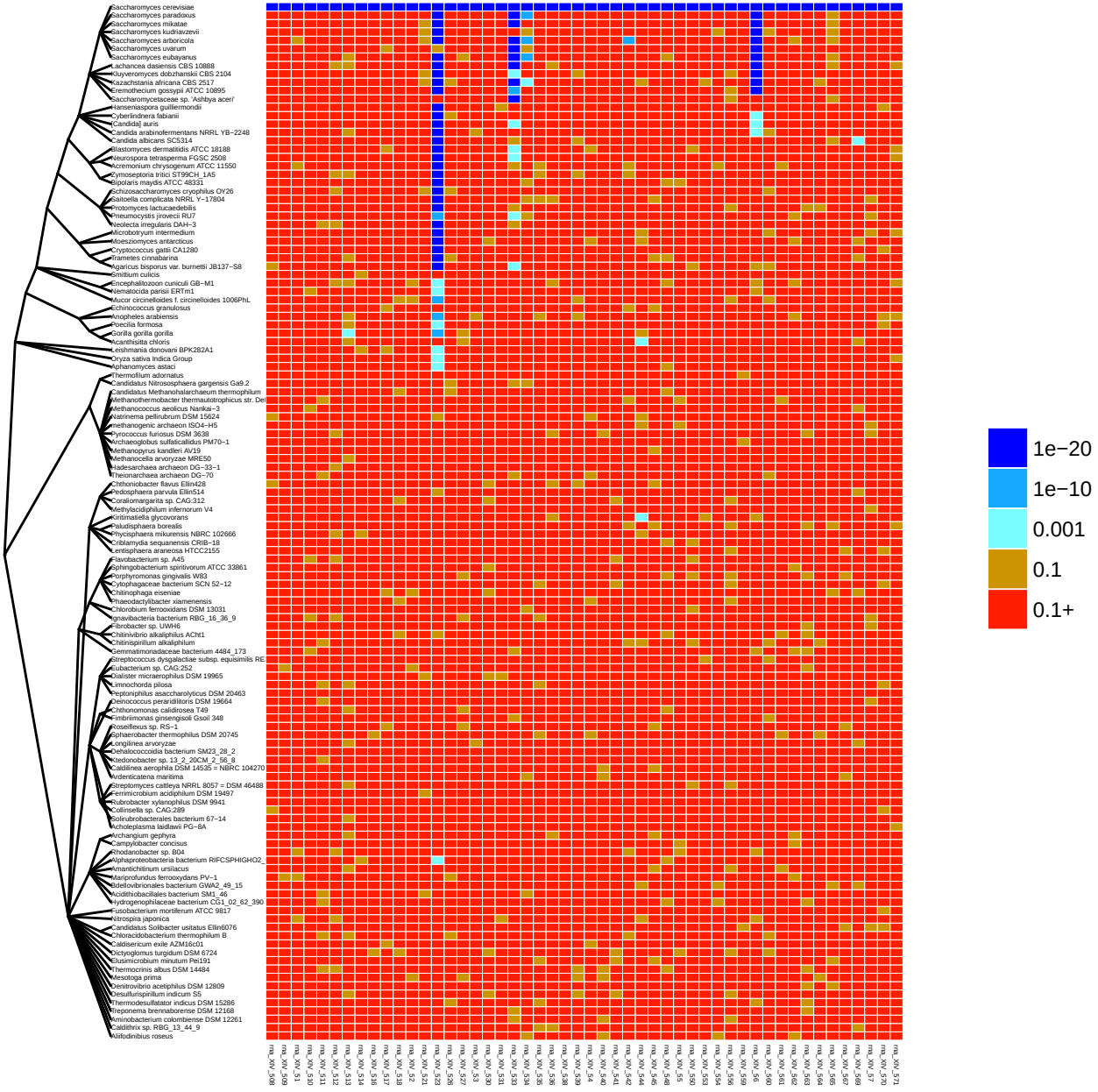

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_00_1_459
ma_00_1_53
ma_00_1_54
ma_00_1_55
ma_00_1_56
ma_00_1_57
ma_00_1_58
ma_00_1_59
ma_00_1_16
ma_00_1_60
ma_00_1_61
ma_00_1_62
ma_00_1_64
ma_00_1_65
ma_00_1_66
ma_00_1_67
ma_00_1_70
ma_00_1_71
ma_00_1_73
ma_00_1_74
ma_00_1_75
ma_00_1_77
ma_00_1_78
ma_00_1_18
ma_00_1_80
ma_00_1_81
ma_00_1_82
ma_00_1_83
ma_00_1_84
ma_00_1_85
ma_00_1_86
ma_00_1_87
ma_00_1_89
ma_00_1_90
ma_00_1_93
ma_00_1_94
ma_00_1_96
ma_00_1_99
ma_00_2
ma_00_200
ma_00_203
ma_00_204
ma_00_205
ma_00_206
ma_00_208
ma_00_21
ma_00_210
ma_00_211
ma_00_212
1e−20
1e−10
0.001
0.1
0.1+

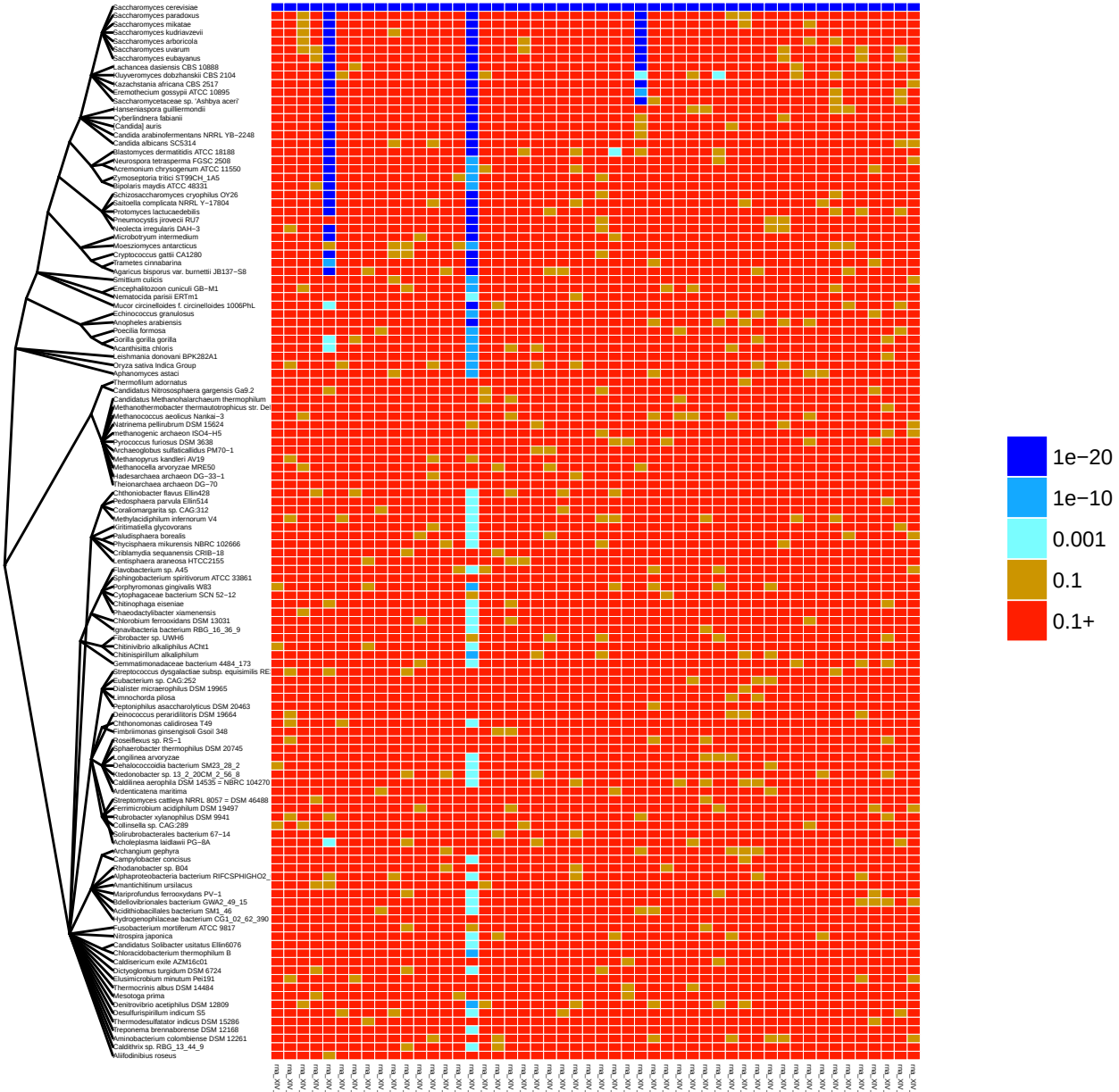

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_XX_213
ma_XX_214
ma_XX_215
ma_XX_216
ma_XX_217
ma_XX_218
ma_XX_220
ma_XX_222
ma_XX_227
ma_XX_23
ma_XX_231
ma_XX_232
ma_XX_235
ma_XX_236
ma_XX_24
ma_XX_240
ma_XX_242
ma_XX_243
ma_XX_244
ma_XX_245
ma_XX_246
ma_XX_247
ma_XX_248
ma_XX_249
ma_XX_25
ma_XX_250
ma_XX_251
ma_XX_253
ma_XX_257
ma_XX_258
ma_XX_259
ma_XX_26
ma_XX_261
ma_XX_265
ma_XX_27
ma_XX_270
ma_XX_272
ma_XX_273
ma_XX_274
ma_XX_275
ma_XX_276
ma_XX_277
ma_XX_278
ma_XX_279
ma_XX_28
ma_XX_284
ma_XX_285
ma_XX_286
ma_XX_287
ma_XX_288
1e−20
1e−10
0.001
0.1
0.1+

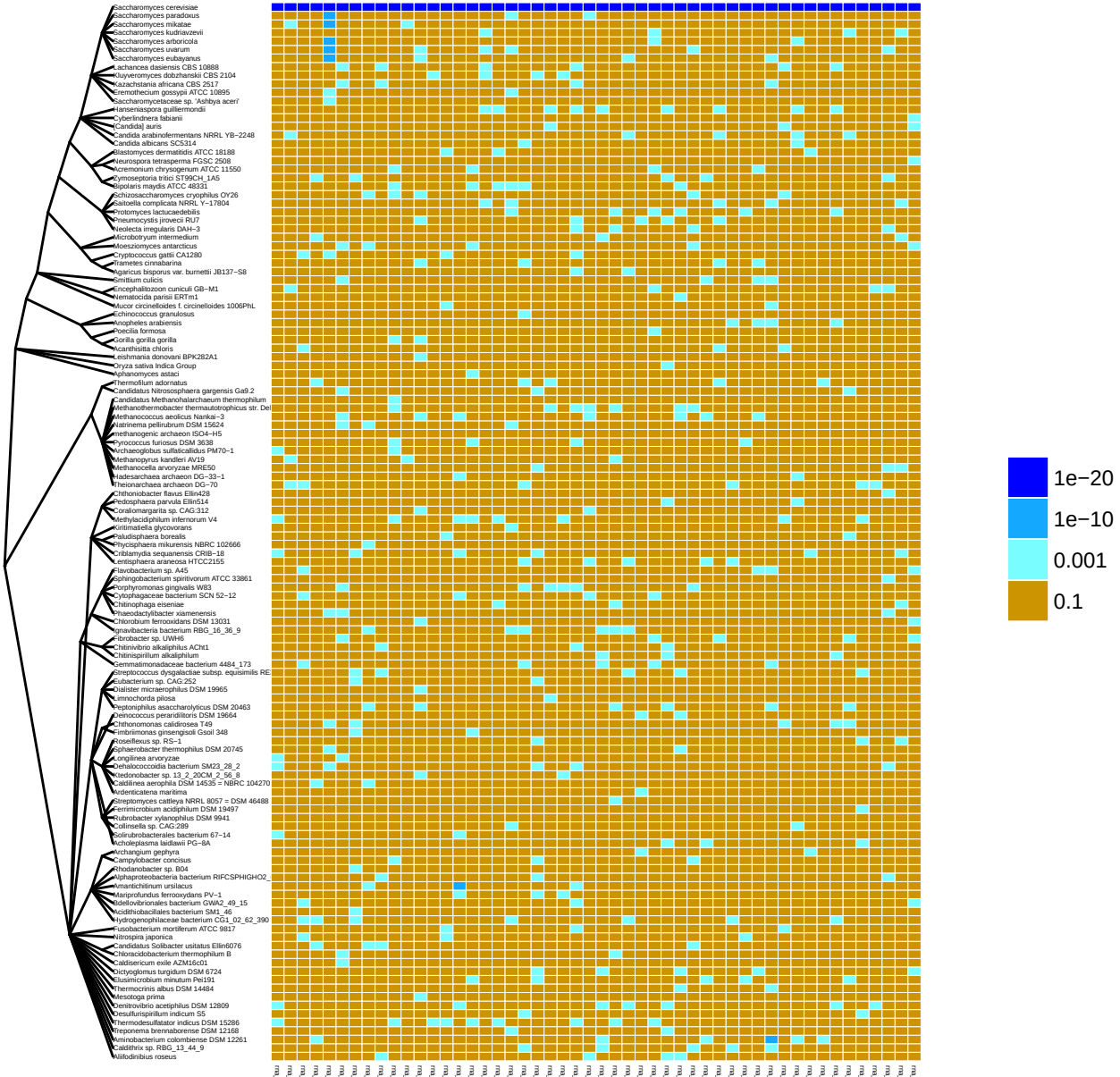

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Nitrosopumilus sp. RBG_13_44_9
Nitrosopumilus roseus
1e−20
1e−10
0.001
0.1
0.1+

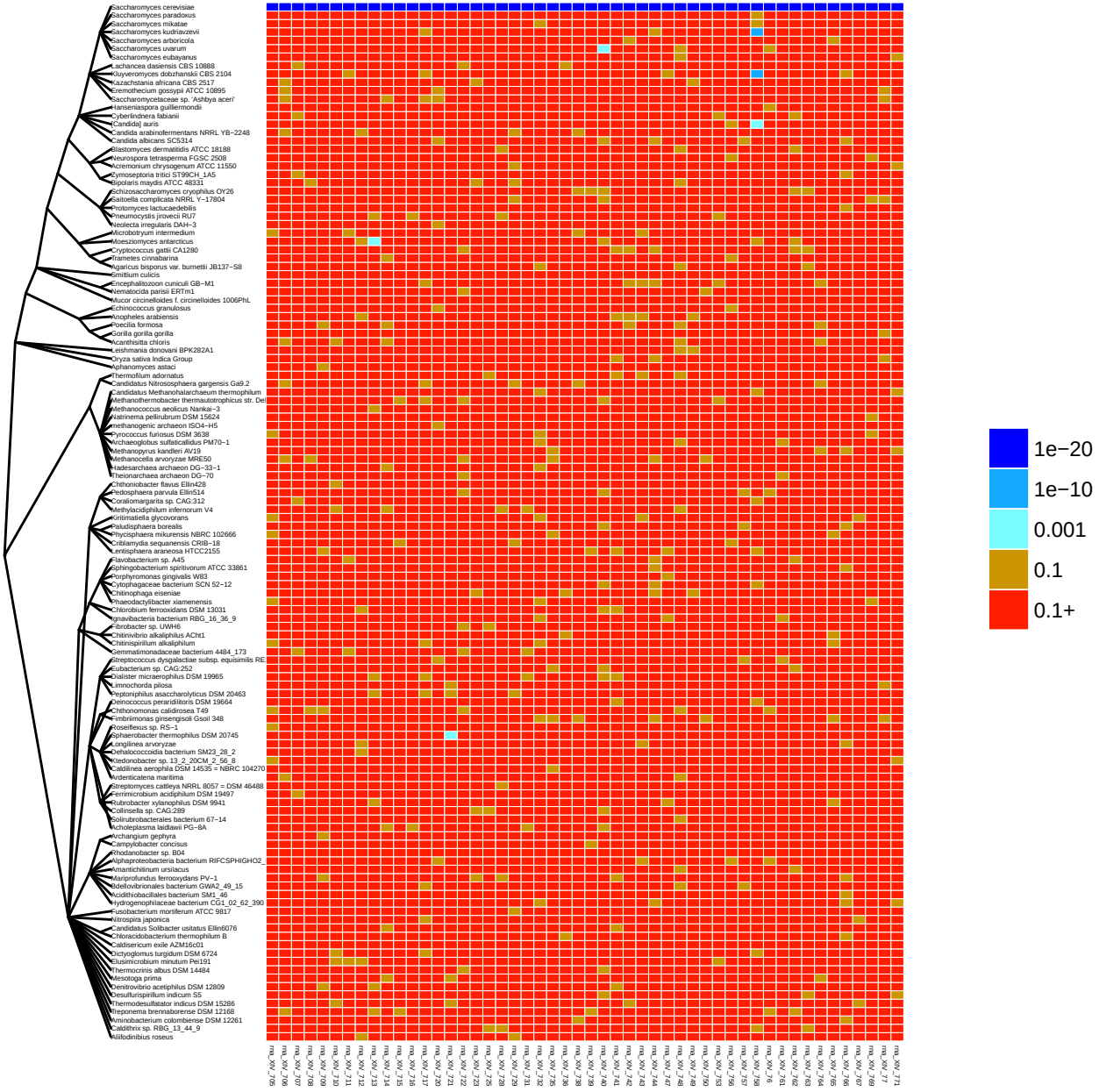

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_XX_362
ma_XX_363
ma_XX_364
ma_XX_365
ma_XX_368
ma_XX_37
ma_XX_370
ma_XX_372
ma_XX_373
ma_XX_374
ma_XX_376
ma_XX_378
ma_XX_379
ma_XX_380
ma_XX_381
ma_XX_382
ma_XX_383
ma_XX_385
ma_XX_386
ma_XX_387
ma_XX_388
ma_XX_389
ma_XX_39
ma_XX_390
ma_XX_391
ma_XX_392
ma_XX_393
ma_XX_394
ma_XX_396
ma_XX_397
ma_XX_399
ma_XX_4
ma_XX_40
ma_XX_400
ma_XX_401
ma_XX_402
ma_XX_404
ma_XX_405
ma_XX_408
ma_XX_412
ma_XX_413
ma_XX_414
ma_XX_415
ma_XX_417
ma_XX_418
ma_XX_419
ma_XX_420
ma_XX_422
ma_XX_423
ma_XX_424
1e−20
1e−10
0.001
0.1
0.1+

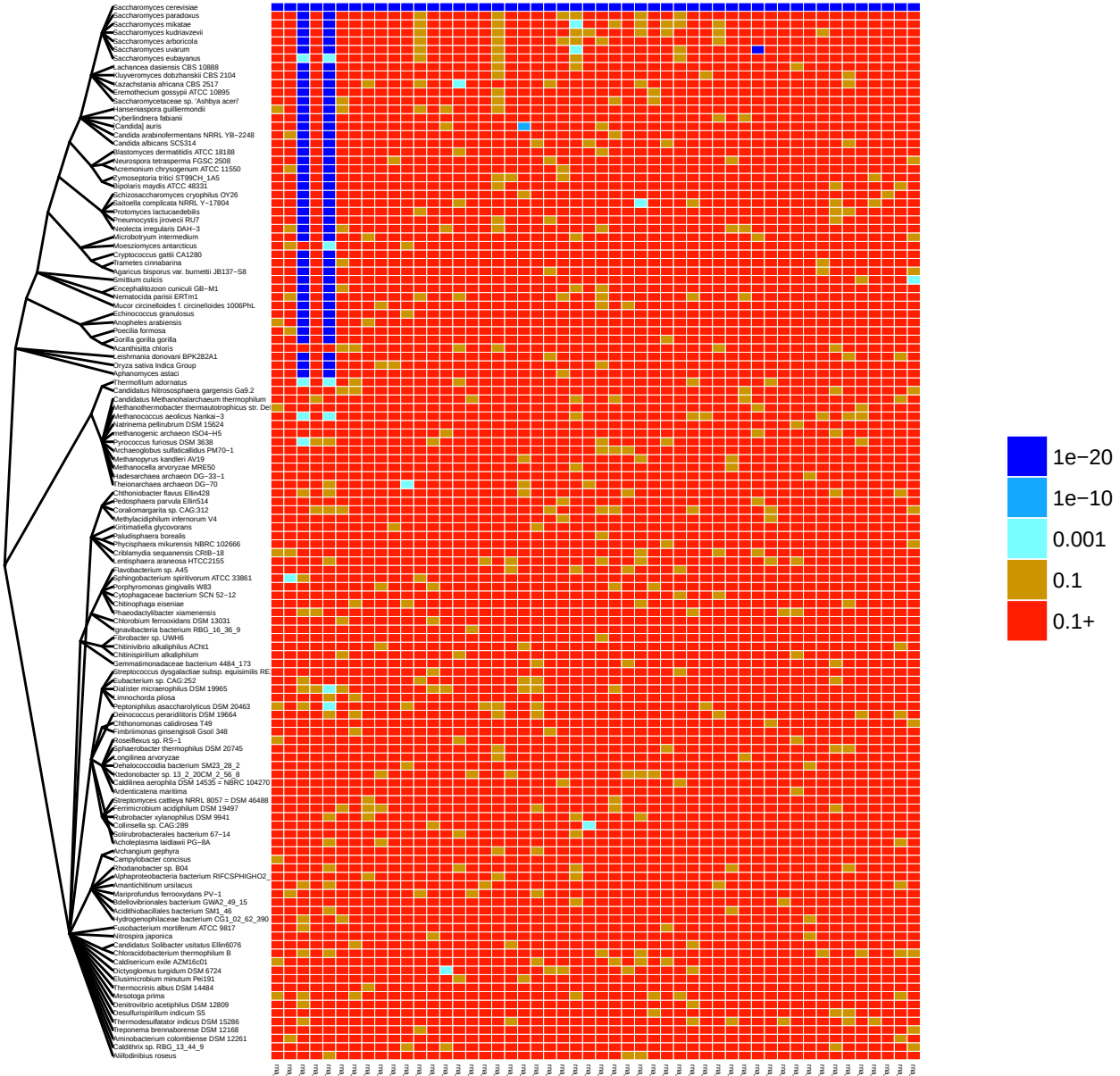

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
mu_00_7_26
mu_00_7_34
mu_00_7_38
mu_00_7_39
mu_00_7_44
mu_00_7_440
mu_00_7_443
mu_00_7_444
mu_00_7_445
mu_00_7_446
mu_00_7_447
mu_00_7_448
mu_00_7_449
mu_00_7_452
mu_00_7_456
mu_00_7_461
mu_00_7_462
mu_00_7_463
mu_00_7_464
mu_00_7_465
mu_00_7_466
mu_00_7_467
mu_00_7_469
mu_00_7_47
mu_00_7_470
mu_00_7_472
mu_00_7_474
mu_00_7_476
mu_00_7_478
mu_00_7_479
mu_00_7_48
mu_00_7_481
mu_00_7_482
mu_00_7_483
mu_00_7_485
mu_00_7_486
mu_00_7_487
mu_00_7_489
mu_00_7_491
mu_00_7_492
mu_00_7_494
mu_00_7_495
mu_00_7_496
mu_00_7_497
mu_00_7_498
mu_00_7_499
mu_00_7_5
mu_00_7_500
mu_00_7_501
mu_00_7_504
1e−20
1e−10
0.001
0.1
0.1+

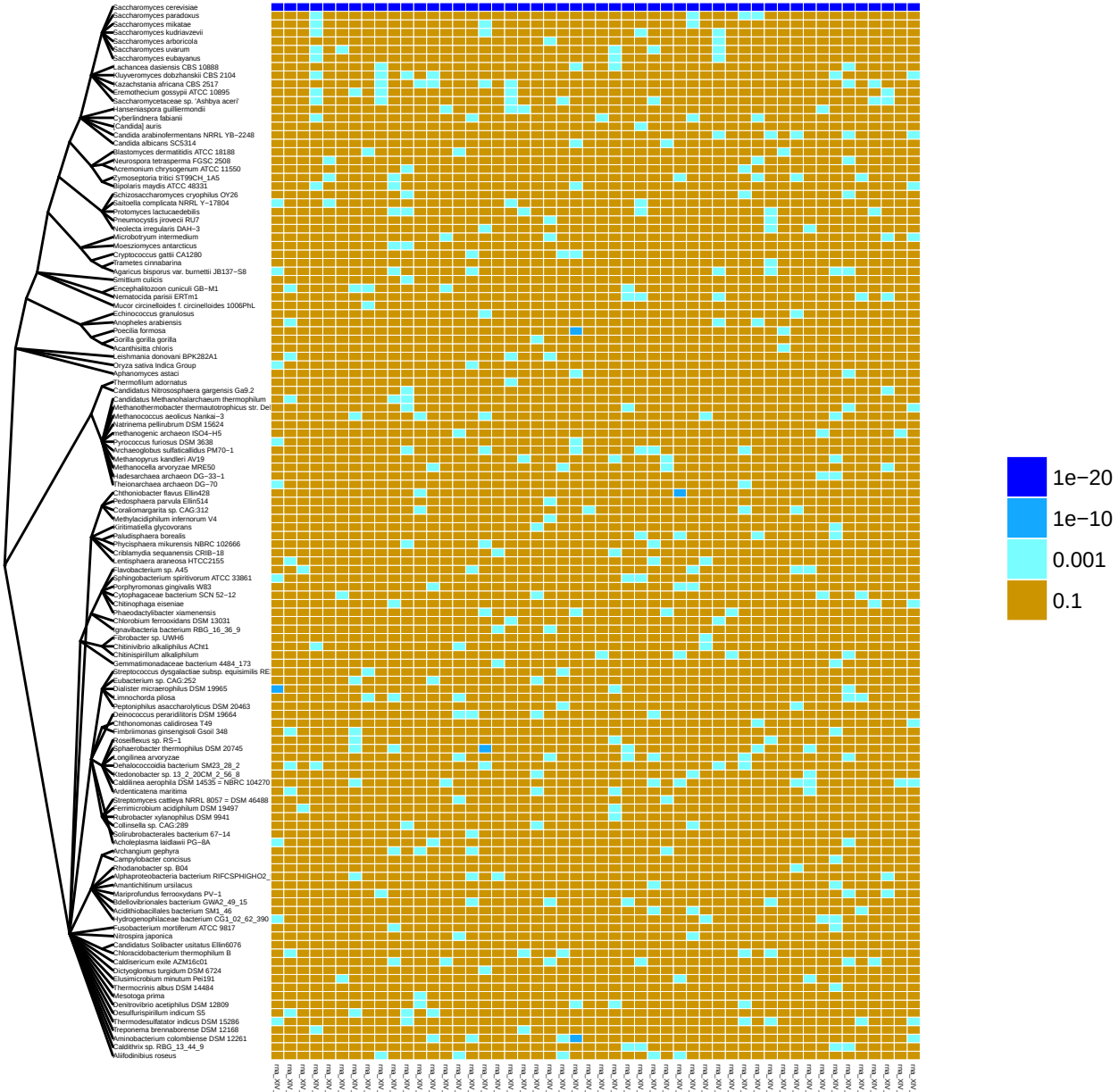

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
ma_OV_508
ma_OV_509
ma_OV_51
ma_OV_510
ma_OV_511
ma_OV_512
ma_OV_513
ma_OV_514
ma_OV_516
ma_OV_517
ma_OV_518
ma_OV_52
ma_OV_521
ma_OV_523
ma_OV_526
ma_OV_527
ma_OV_53
ma_OV_530
ma_OV_531
ma_OV_533
ma_OV_534
ma_OV_535
ma_OV_536
ma_OV_538
ma_OV_539
ma_OV_54
ma_OV_540
ma_OV_541
ma_OV_542
ma_OV_544
ma_OV_545
ma_OV_548
ma_OV_55
ma_OV_550
ma_OV_553
ma_OV_554
ma_OV_556
ma_OV_559
ma_OV_56
ma_OV_560
ma_OV_561
ma_OV_562
ma_OV_563
ma_OV_564
ma_OV_565
ma_OV_567
ma_OV_569
ma_OV_57
ma_OV_570
ma_OV_571
1e−20
1e−10
0.001
0.1
0.1+

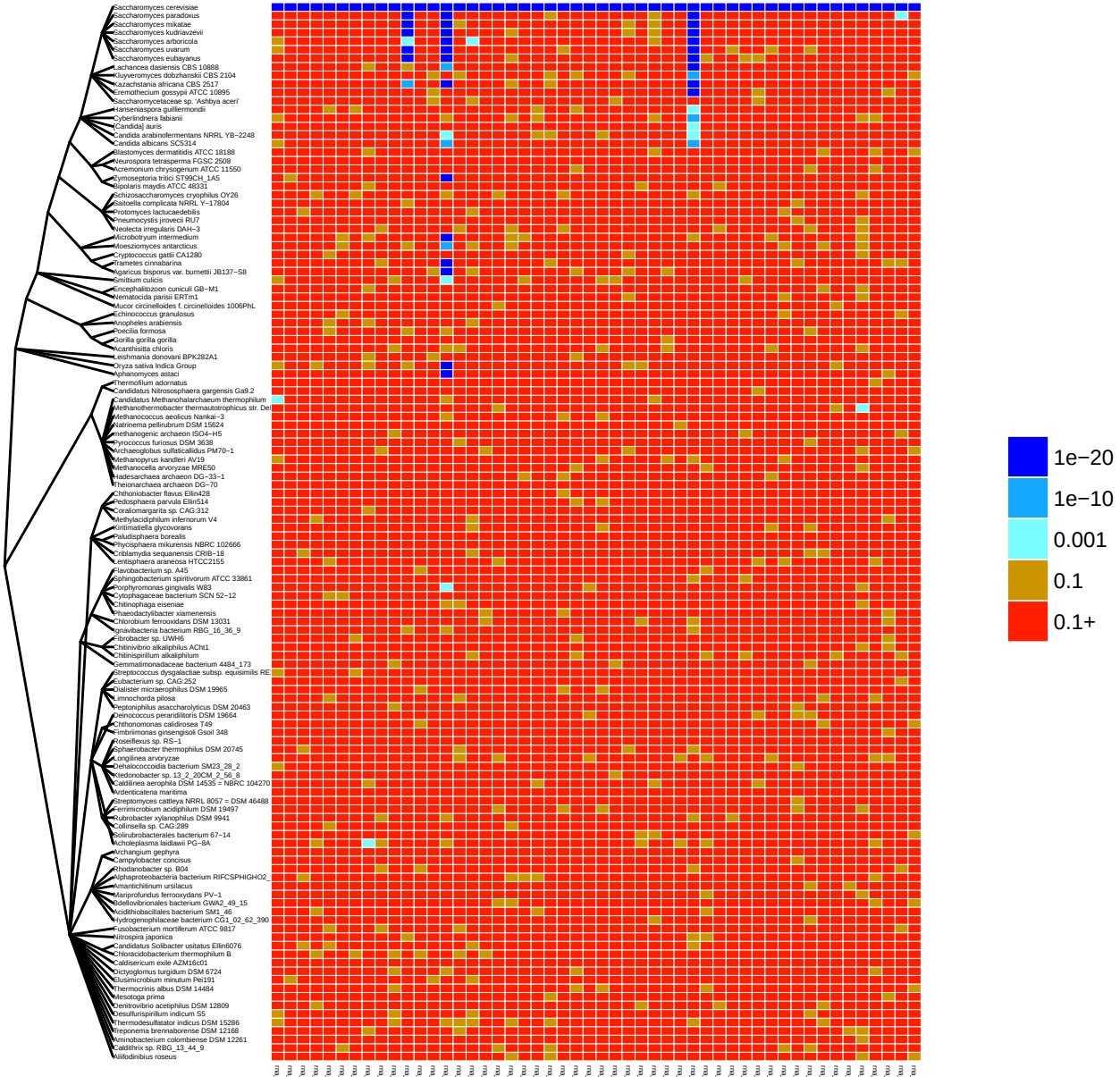

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribrilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_OO_572
ma_OO_574
ma_OO_577
ma_OO_578
ma_OO_579
ma_OO_58
ma_OO_580
ma_OO_581
ma_OO_582
ma_OO_586
ma_OO_587
ma_OO_588
ma_OO_589
ma_OO_59
ma_OO_590
ma_OO_591
ma_OO_593
ma_OO_595
ma_OO_596
ma_OO_597
ma_OO_598
ma_OO_60
ma_OO_601
ma_OO_602
ma_OO_604
ma_OO_607
ma_OO_608
ma_OO_609
ma_OO_61
ma_OO_611
ma_OO_612
ma_OO_613
ma_OO_616
ma_OO_617
ma_OO_618
ma_OO_619
ma_OO_62
ma_OO_620
ma_OO_623
ma_OO_625
ma_OO_626
ma_OO_627
ma_OO_63
ma_OO_631
ma_OO_634
ma_OO_635
ma_OO_636
ma_OO_637
ma_OO_638
ma_OO_640
1e−20
1e−10
0.001
0.1
0.1+

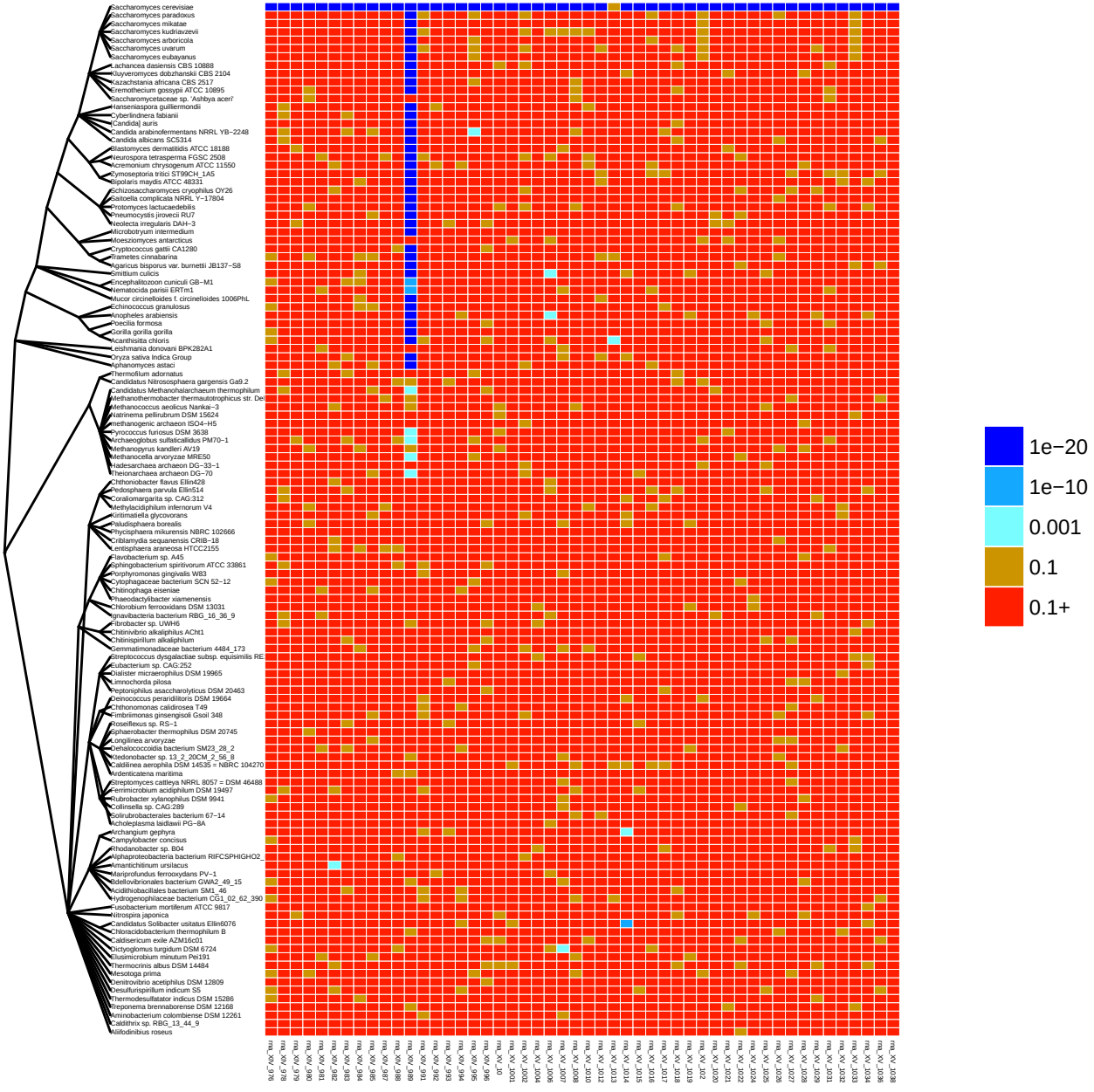

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1

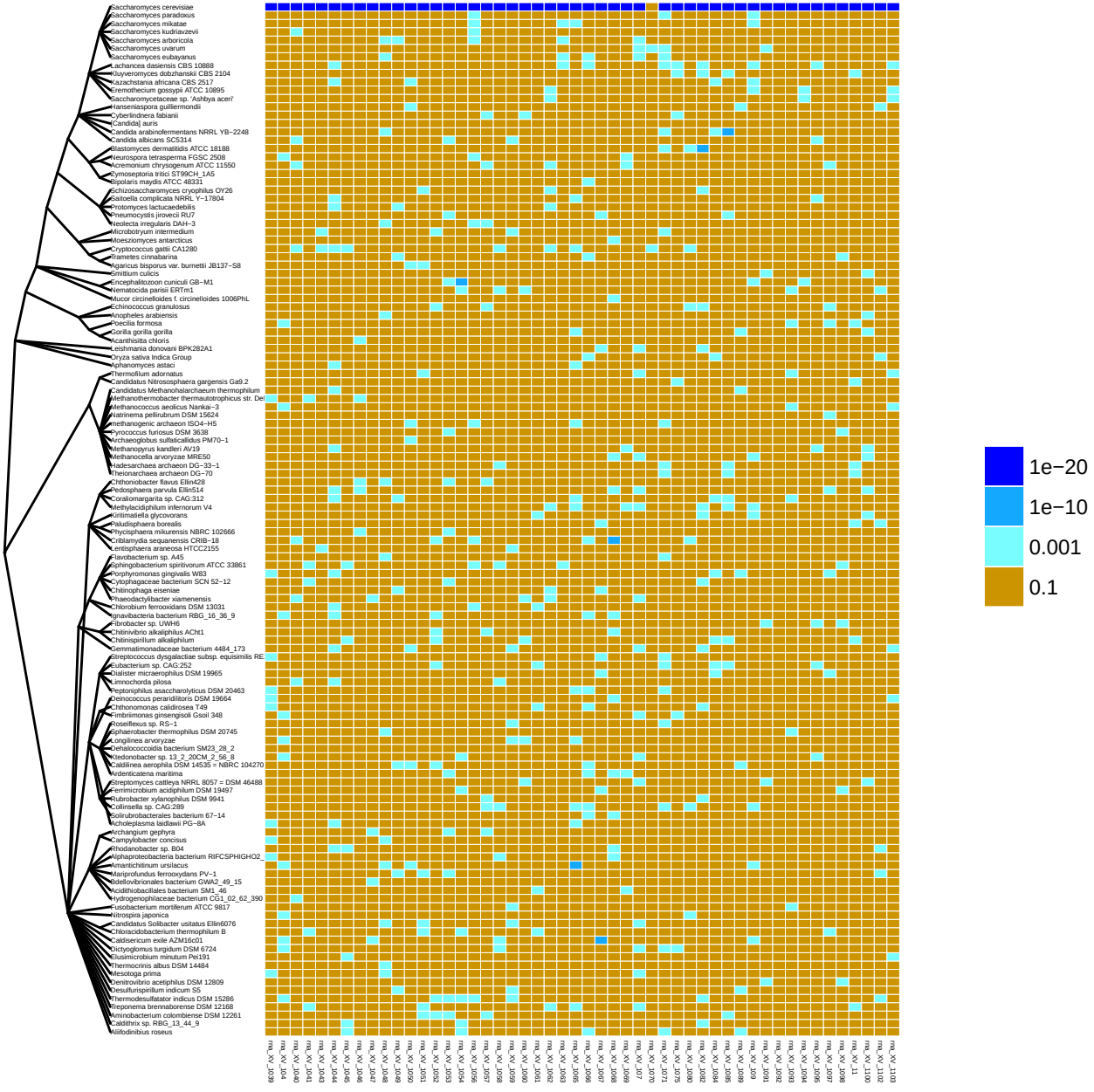

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

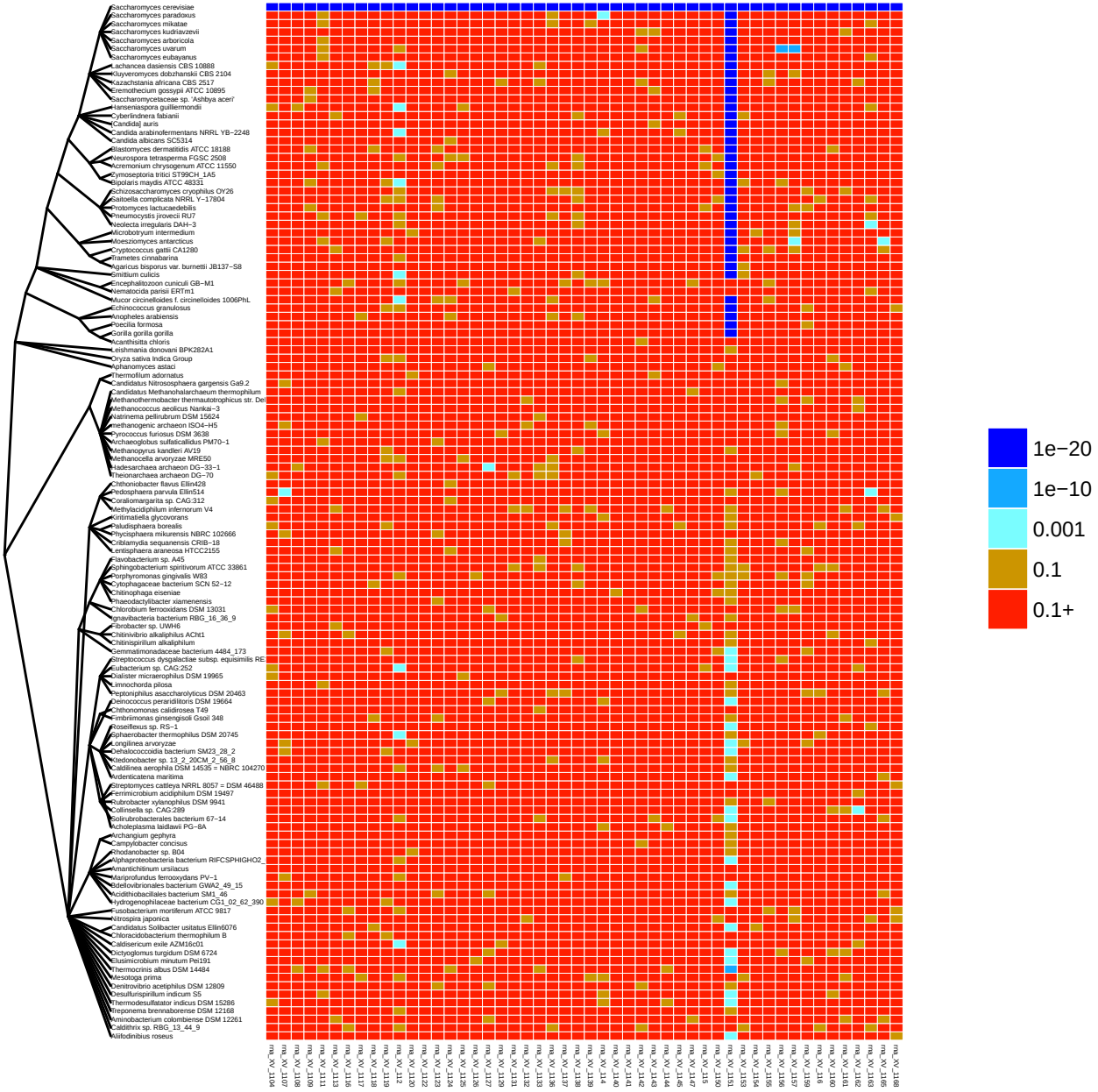

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

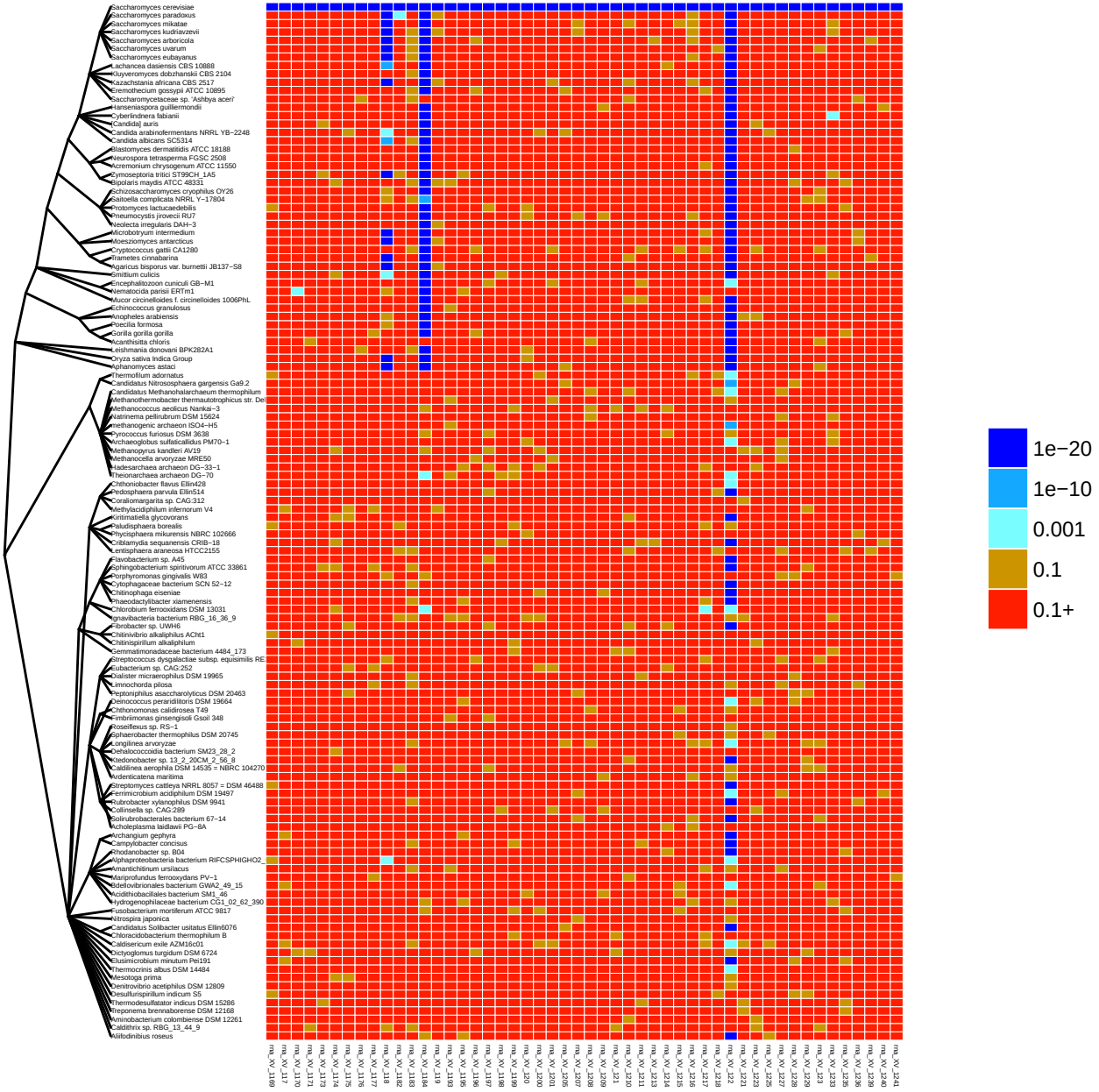

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1

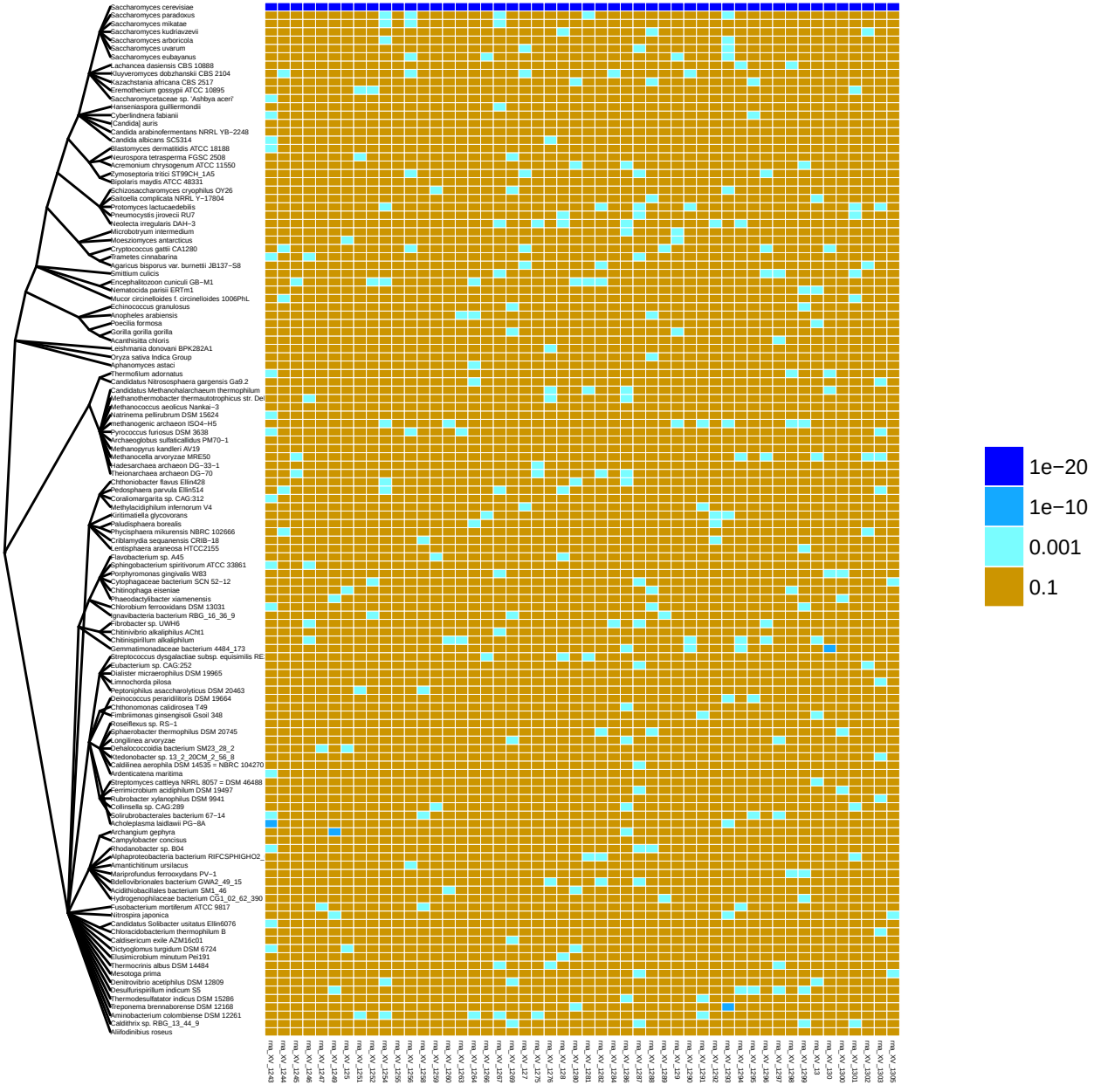

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mu_OX_9_13
mu_OX_9_15
mu_OX_9_17
mu_OX_9_18
mu_OX_9_19
mu_OX_9_2
mu_OX_9_20
mu_OX_9_21
mu_OX_9_23
mu_OX_9_25
mu_OX_9_26
mu_OX_9_27
mu_OX_9_28
mu_OX_9_29
mu_OX_9_3
mu_OX_9_30
mu_OX_9_31
mu_OX_9_34
mu_OX_9_35
mu_OX_9_36
mu_OX_9_37
mu_OX_9_38
mu_OX_9_39
mu_OX_9_40
mu_OX_9_42
mu_OX_9_43
mu_OX_9_44
mu_OX_9_46
mu_OX_9_47
mu_OX_9_48
mu_OX_9_50
mu_OX_9_51
mu_OX_9_53
mu_OX_9_54
mu_OX_9_55
mu_OX_9_56
mu_OX_9_57
mu_OX_9_58
mu_OX_9_59
mu_OX_9_60
mu_OX_9_61
mu_OX_9_62
mu_OX_9_63
mu_OX_9_64
mu_OX_9_65
mu_OX_9_66
mu_OX_9_67
mu_OX_9_68
mu_OX_9_69
mu_OX_9_74
1e−20
1e−10
0.001
0.1
0.1+

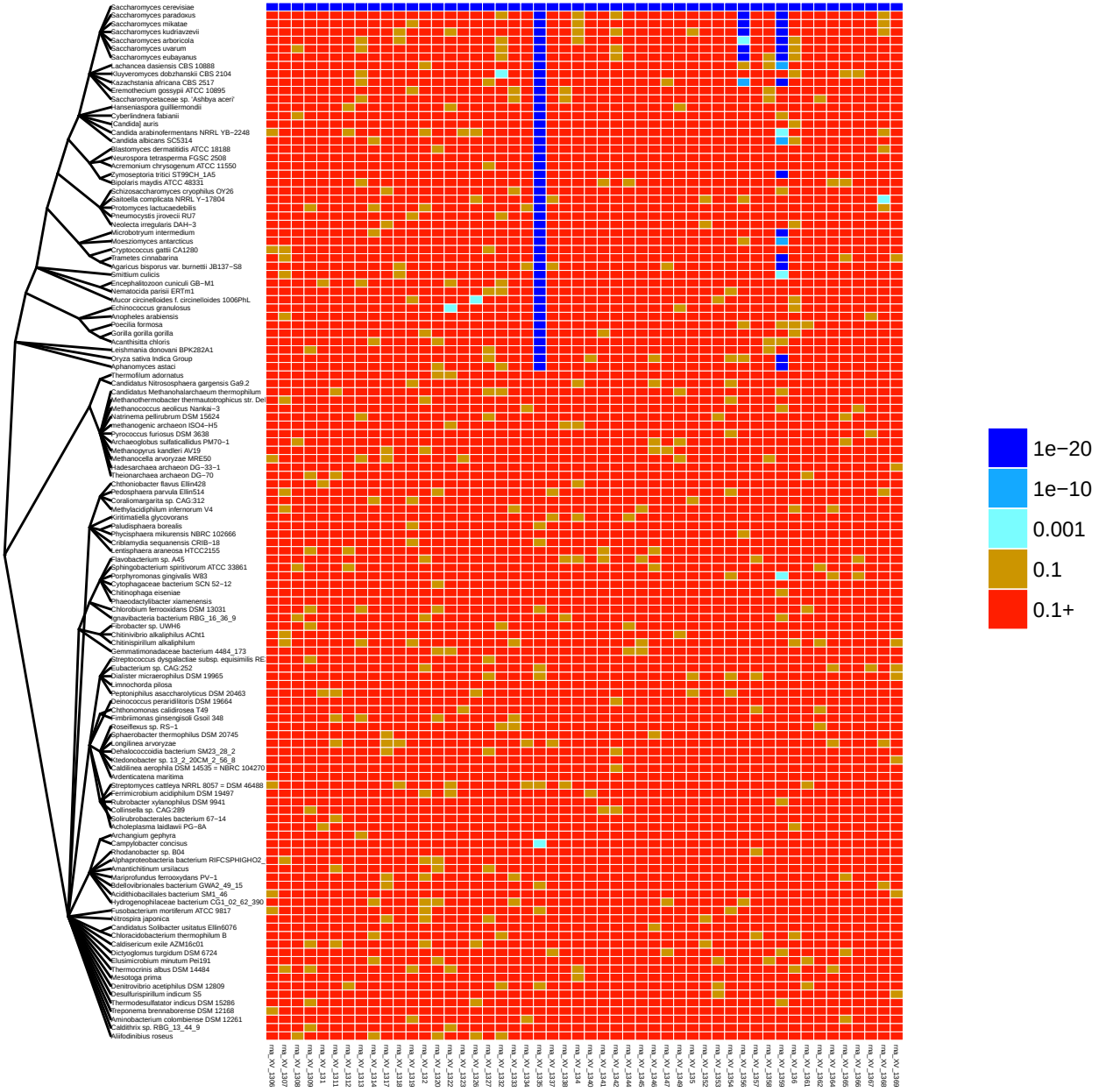

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

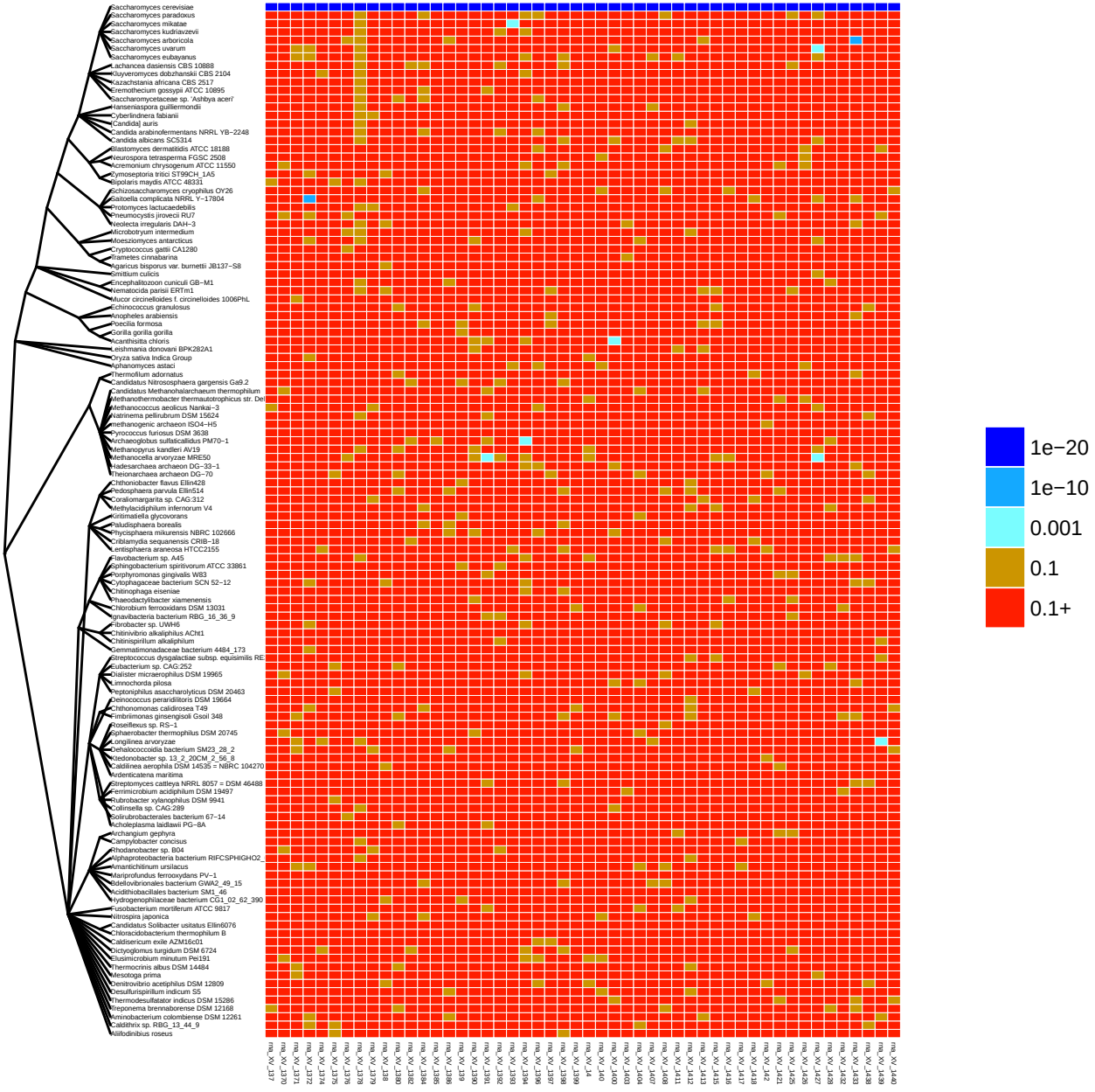

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1

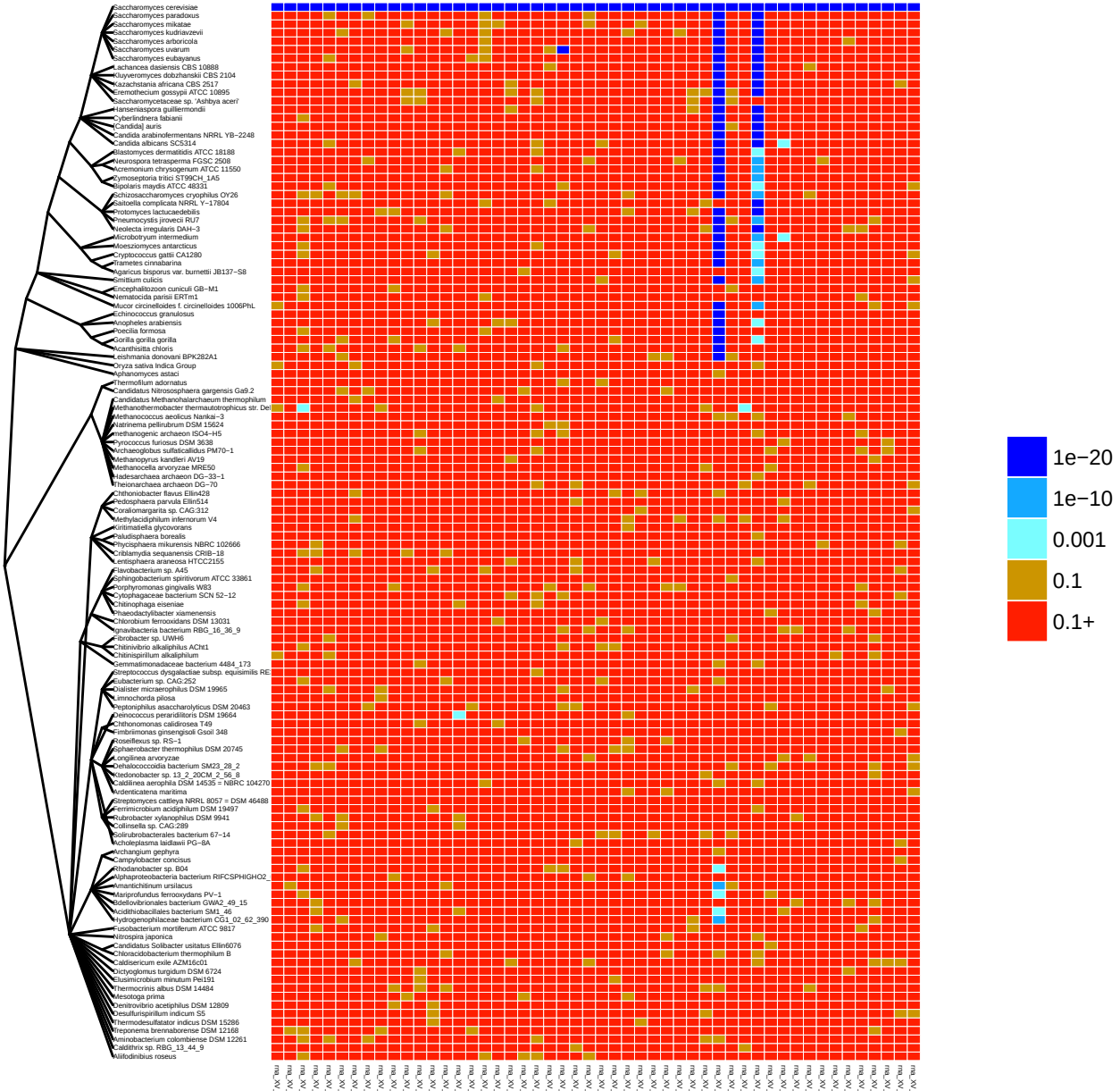

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter versatilis Ellin345
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaboronse DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacillus roseus
ma_XV_1104
ma_XV_1107
ma_XV_1108
ma_XV_1109
ma_XV_1111
ma_XV_1113
ma_XV_1116
ma_XV_1117
ma_XV_1118
ma_XV_1119
ma_XV_112
ma_XV_1120
ma_XV_1122
ma_XV_1123
ma_XV_1124
ma_XV_1125
ma_XV_1126
ma_XV_1127
ma_XV_1129
ma_XV_1131
ma_XV_1132
ma_XV_1133
ma_XV_1136
ma_XV_1137
ma_XV_1138
ma_XV_1139
ma_XV_114
ma_XV_1140
ma_XV_1141
ma_XV_1142
ma_XV_1143
ma_XV_1144
ma_XV_1145
ma_XV_1147
ma_XV_115
ma_XV_1150
ma_XV_1151
ma_XV_1153
ma_XV_1154
ma_XV_1155
ma_XV_1156
ma_XV_1157
ma_XV_1159
ma_XV_116
ma_XV_1160
ma_XV_1161
ma_XV_1162
ma_XV_1163
ma_XV_1165
ma_XV_1168
1e−20
1e−10
0.001
0.1
0.1+

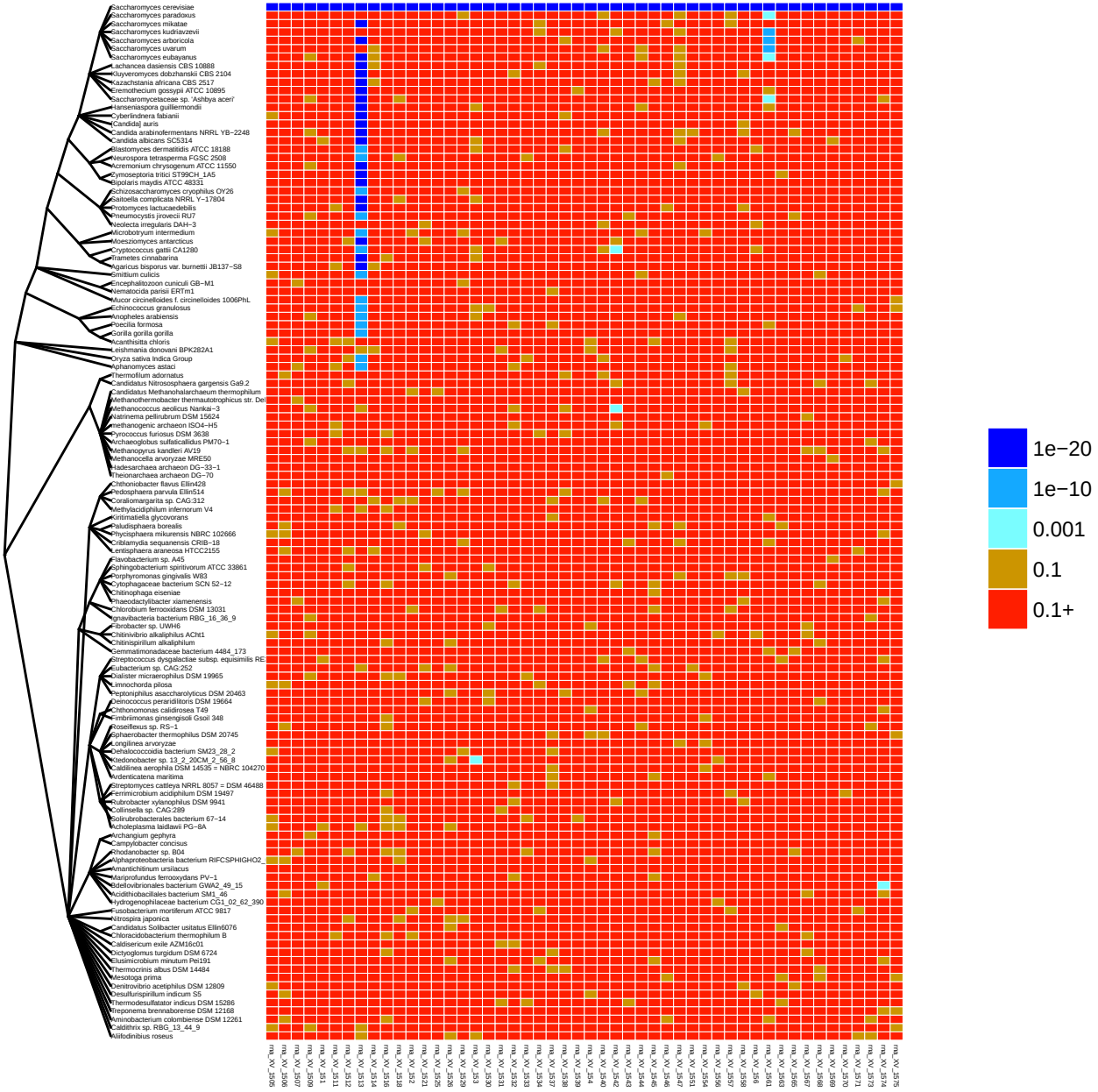

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans DSM 13031
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xenodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosomonas nitrosa
ma_XV_1169
ma_XV_1170
ma_XV_1171
ma_XV_1173
ma_XV_1174
ma_XV_1175
ma_XV_1176
ma_XV_1177
ma_XV_1178
ma_XV_1182
ma_XV_1183
ma_XV_1184
ma_XV_1189
ma_XV_1193
ma_XV_1195
ma_XV_1196
ma_XV_1197
ma_XV_1198
ma_XV_1199
ma_XV_1200
ma_XV_1201
ma_XV_1205
ma_XV_1207
ma_XV_1208
ma_XV_1209
ma_XV_1210
ma_XV_1211
ma_XV_1213
ma_XV_1214
ma_XV_1215
ma_XV_1216
ma_XV_1217
ma_XV_1218
ma_XV_1220
ma_XV_1221
ma_XV_1223
ma_XV_1225
ma_XV_1227
ma_XV_1228
ma_XV_1229
ma_XV_1233
ma_XV_1235
ma_XV_1236
ma_XV_1239
ma_XV_1240
ma_XV_1241
1e−20
1e−10
0.001
0.1
0.1+

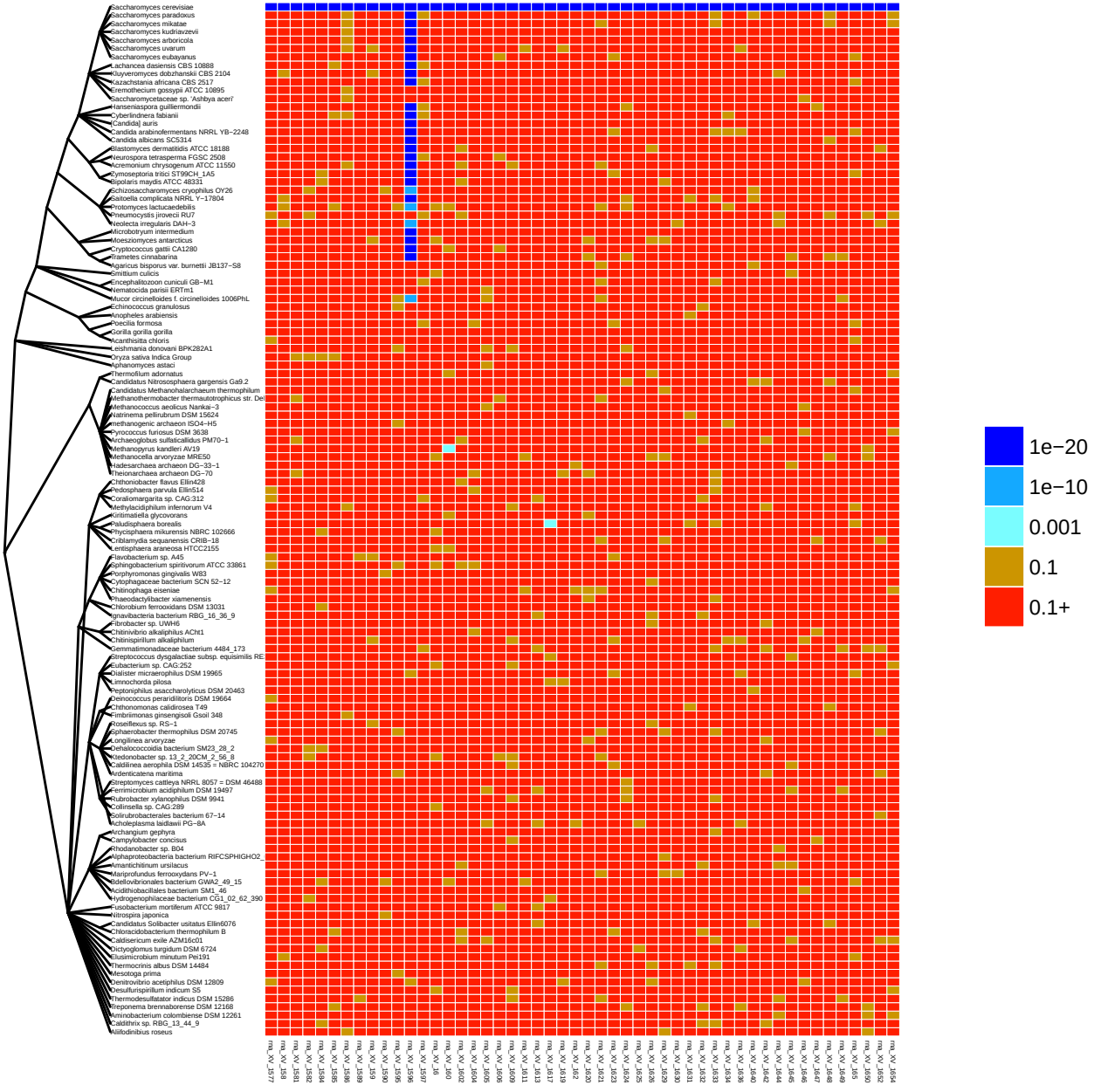

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
mu_XV_1243
mu_XV_1244
mu_XV_1245
mu_XV_1246
mu_XV_1247
mu_XV_1249
mu_XV_1251
mu_XV_1252
mu_XV_1254
mu_XV_1255
mu_XV_1256
mu_XV_1258
mu_XV_1259
mu_XV_1260
mu_XV_1263
mu_XV_1264
mu_XV_1266
mu_XV_1267
mu_XV_1269
mu_XV_1271
mu_XV_1275
mu_XV_1276
mu_XV_1278
mu_XV_1280
mu_XV_1281
mu_XV_1282
mu_XV_1284
mu_XV_1286
mu_XV_1287
mu_XV_1288
mu_XV_1289
mu_XV_1290
mu_XV_1291
mu_XV_1292
mu_XV_1293
mu_XV_1294
mu_XV_1295
mu_XV_1296
mu_XV_1297
mu_XV_1298
mu_XV_1299
mu_XV_13
mu_XV_1300
mu_XV_1301
mu_XV_1302
mu_XV_1303
mu_XV_1305
1e−20
1e−10
0.001
0.1

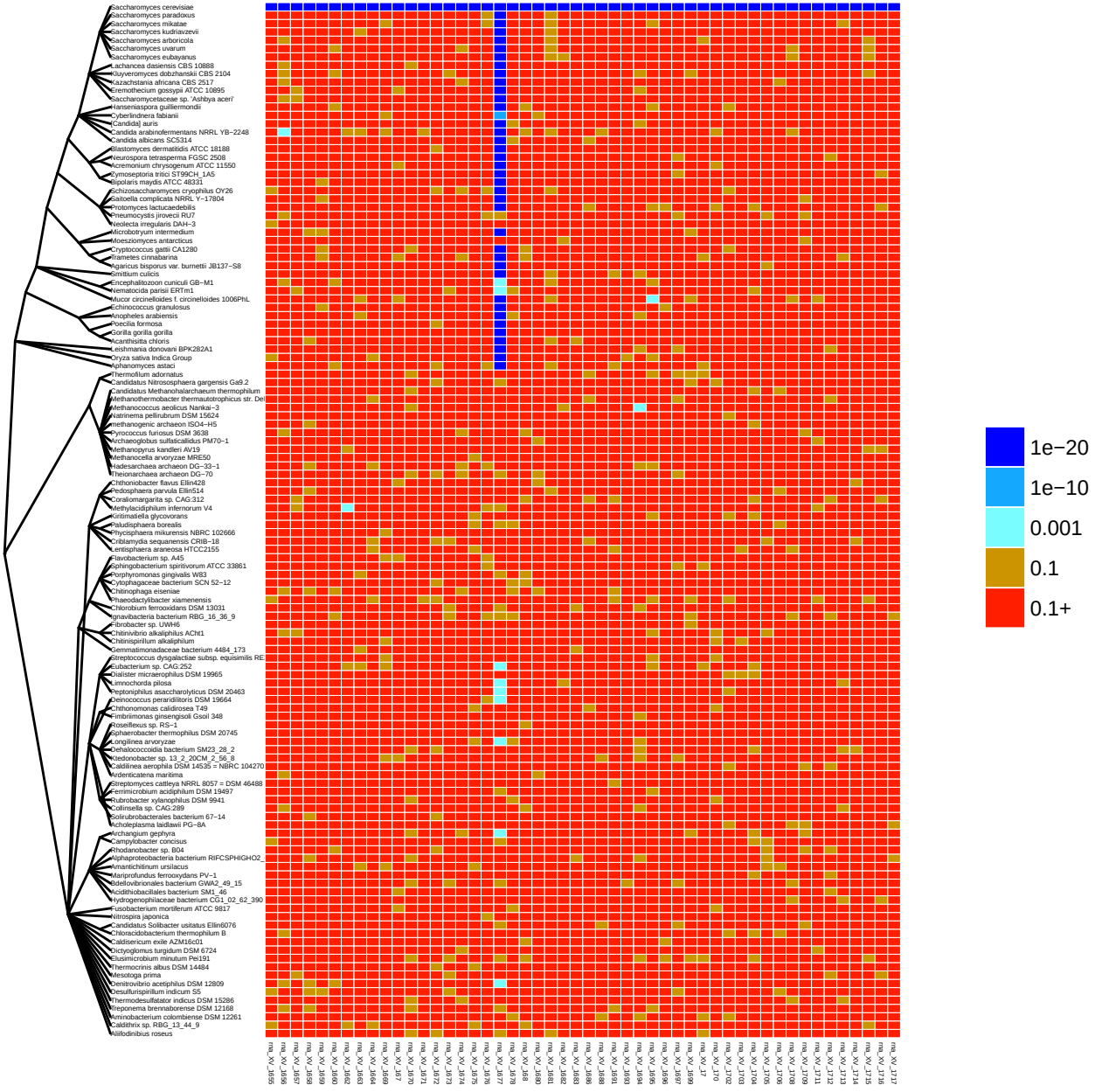

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_XV_1306
ma_XV_1307
ma_XV_1308
ma_XV_1309
ma_XV_1311
ma_XV_1312
ma_XV_1313
ma_XV_1314
ma_XV_1317
ma_XV_1318
ma_XV_1319
ma_XV_132
ma_XV_1320
ma_XV_1322
ma_XV_1323
ma_XV_1326
ma_XV_1327
ma_XV_1332
ma_XV_1333
ma_XV_1334
ma_XV_1335
ma_XV_1337
ma_XV_1338
ma_XV_134
ma_XV_1340
ma_XV_1341
ma_XV_1342
ma_XV_1344
ma_XV_1345
ma_XV_1346
ma_XV_1347
ma_XV_1349
ma_XV_135
ma_XV_1352
ma_XV_1353
ma_XV_1354
ma_XV_1356
ma_XV_1357
ma_XV_1358
ma_XV_1359
ma_XV_136
ma_XV_1361
ma_XV_1362
ma_XV_1364
ma_XV_1365
ma_XV_1366
ma_XV_1367
ma_XV_1368
ma_XV_1369
1e−20
1e−10
0.001
0.1
0.1+

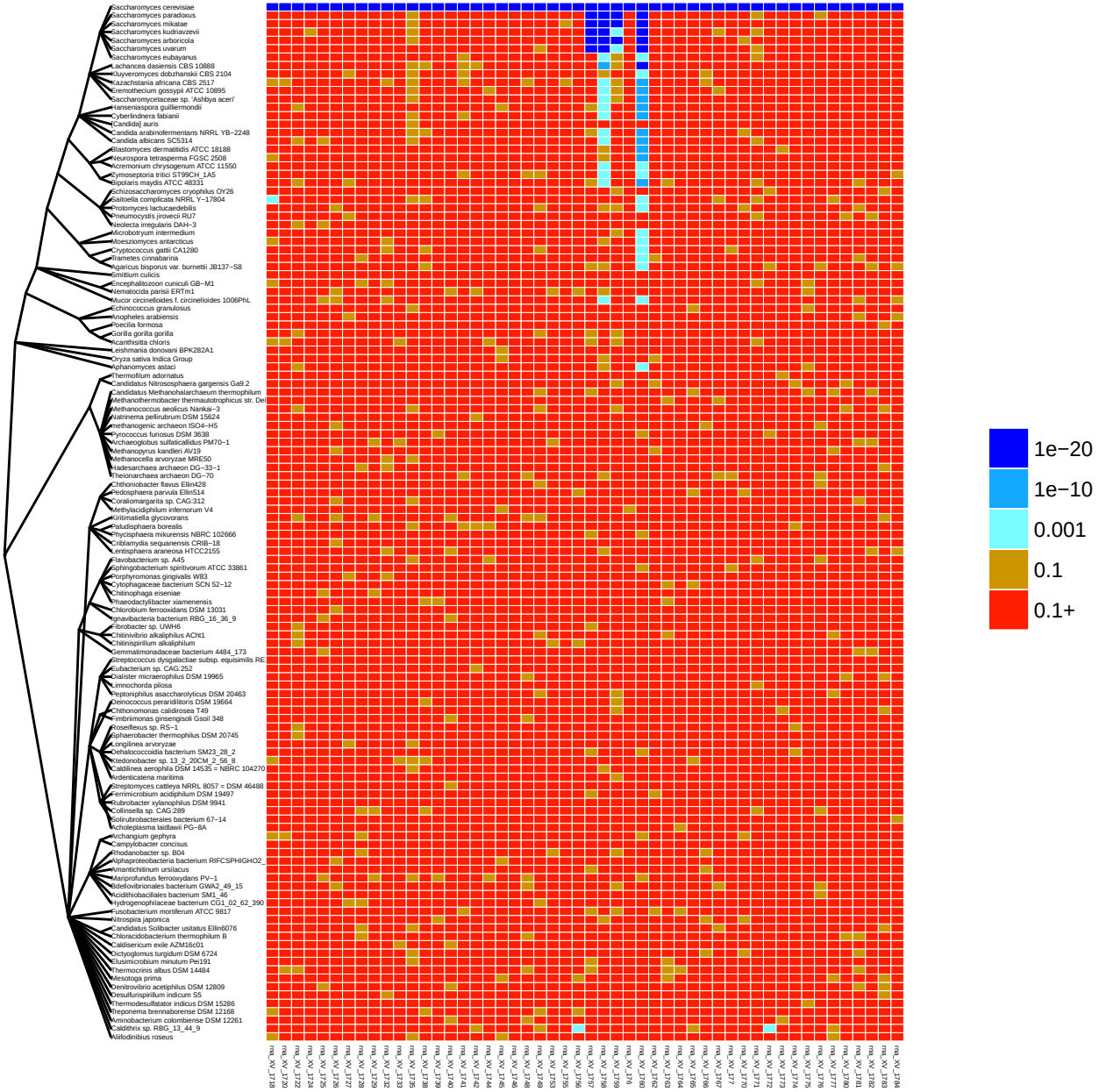

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malpolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_XV_1337
ma_XV_1370
ma_XV_1371
ma_XV_1372
ma_XV_1374
ma_XV_1375
ma_XV_1376
ma_XV_1378
ma_XV_1379
ma_XV_138
ma_XV_1380
ma_XV_1382
ma_XV_1384
ma_XV_1385
ma_XV_1386
ma_XV_139
ma_XV_1390
ma_XV_1391
ma_XV_1392
ma_XV_1393
ma_XV_1394
ma_XV_1396
ma_XV_1397
ma_XV_1398
ma_XV_1399
ma_XV_140
ma_XV_1400
ma_XV_1403
ma_XV_1404
ma_XV_1407
ma_XV_1408
ma_XV_1411
ma_XV_1412
ma_XV_1413
ma_XV_1415
ma_XV_1416
ma_XV_1417
ma_XV_1418
ma_XV_142
ma_XV_1421
ma_XV_1425
ma_XV_1426
ma_XV_1427
ma_XV_1428
ma_XV_1432
ma_XV_1433
ma_XV_1438
ma_XV_1439
ma_XV_1440
1e−20
1e−10
0.001
0.1
0.1+

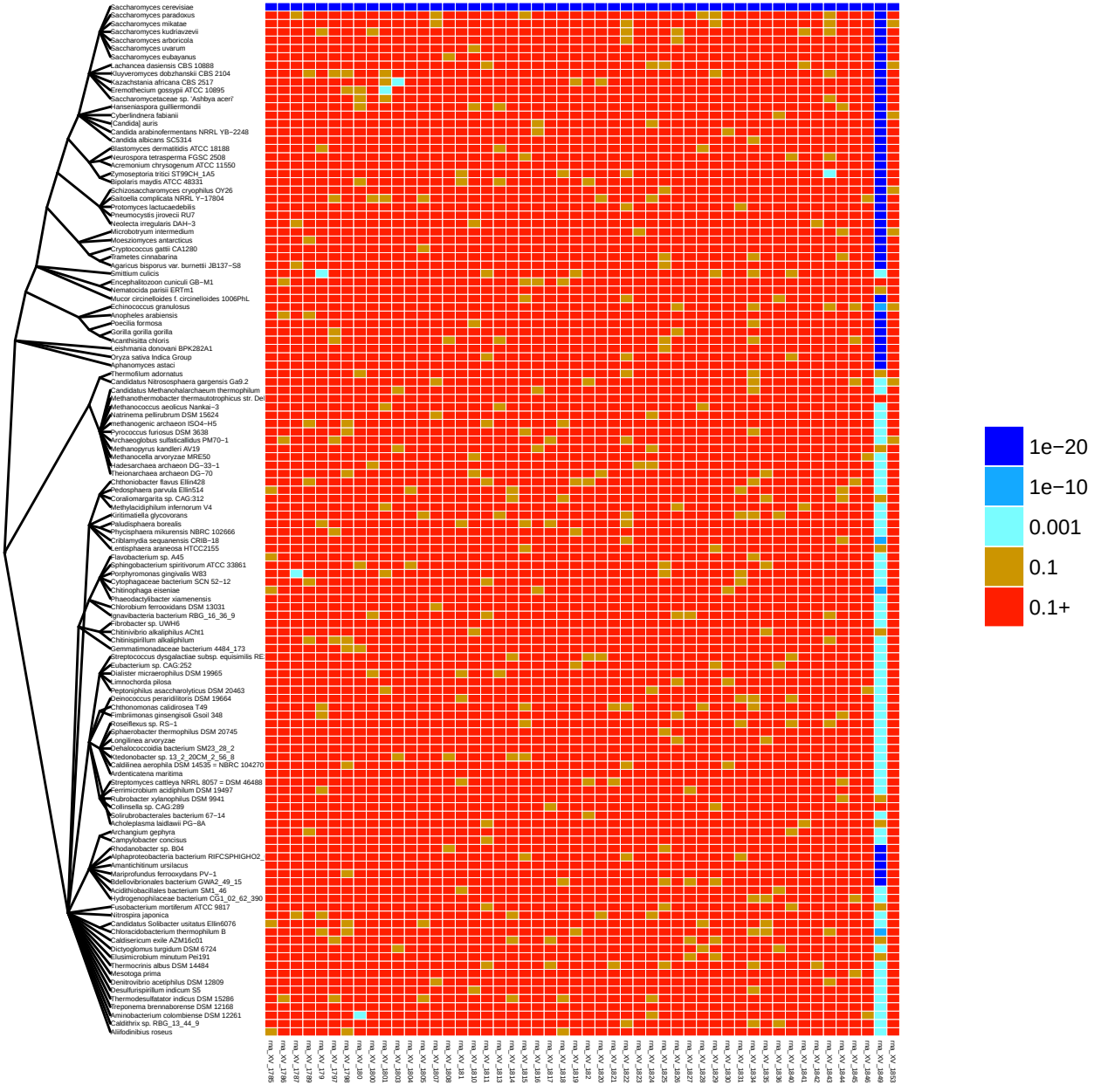

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mu_XV_1441
mu_XV_1442
mu_XV_1443
mu_XV_1444
mu_XV_1445
mu_XV_1446
mu_XV_1448
mu_XV_1449
mu_XV_1450
mu_XV_1451
mu_XV_1453
mu_XV_1454
mu_XV_1455
mu_XV_1456
mu_XV_1457
mu_XV_146
mu_XV_1460
mu_XV_1461
mu_XV_1463
mu_XV_1464
mu_XV_1465
mu_XV_1466
mu_XV_1467
mu_XV_1468
mu_XV_1469
mu_XV_1470
mu_XV_1471
mu_XV_1472
mu_XV_1473
mu_XV_1474
mu_XV_1477
mu_XV_1478
mu_XV_148
mu_XV_1481
mu_XV_1482
mu_XV_1484
mu_XV_1485
mu_XV_1488
mu_XV_1489
mu_XV_149
mu_XV_1493
mu_XV_1494
mu_XV_1495
mu_XV_1496
mu_XV_1497
mu_XV_15
mu_XV_1500
mu_XV_1501
mu_XV_1502
mu_XV_1503
mu_XV_1504
1e−20
1e−10
0.001
0.1
0.1+

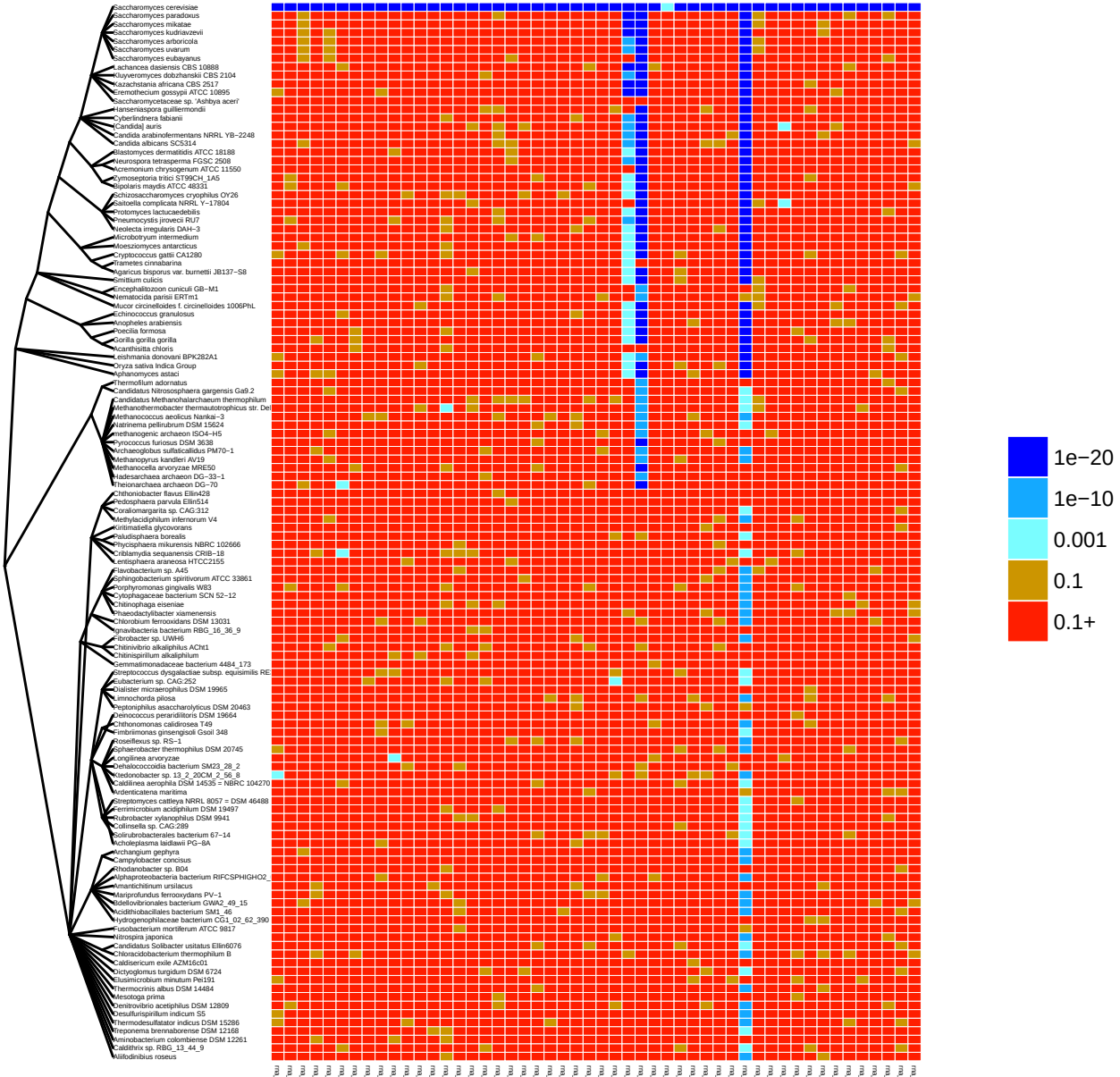

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thetionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_XV_1505
ma_XV_1506
ma_XV_1507
ma_XV_1509
ma_XV_1511
ma_XV_1512
ma_XV_1513
ma_XV_1514
ma_XV_1516
ma_XV_1518
ma_XV_1521
ma_XV_1525
ma_XV_1526
ma_XV_1529
ma_XV_1530
ma_XV_1531
ma_XV_1532
ma_XV_1533
ma_XV_1534
ma_XV_1537
ma_XV_1538
ma_XV_1539
ma_XV_1540
ma_XV_1542
ma_XV_1543
ma_XV_1544
ma_XV_1545
ma_XV_1546
ma_XV_1547
ma_XV_1551
ma_XV_1554
ma_XV_1556
ma_XV_1557
ma_XV_1558
ma_XV_1561
ma_XV_1563
ma_XV_1565
ma_XV_1567
ma_XV_1568
ma_XV_1569
ma_XV_1570
ma_XV_1571
ma_XV_1573
ma_XV_1574
ma_XV_1575
1e−20
1e−10
0.001
0.1
0.1+

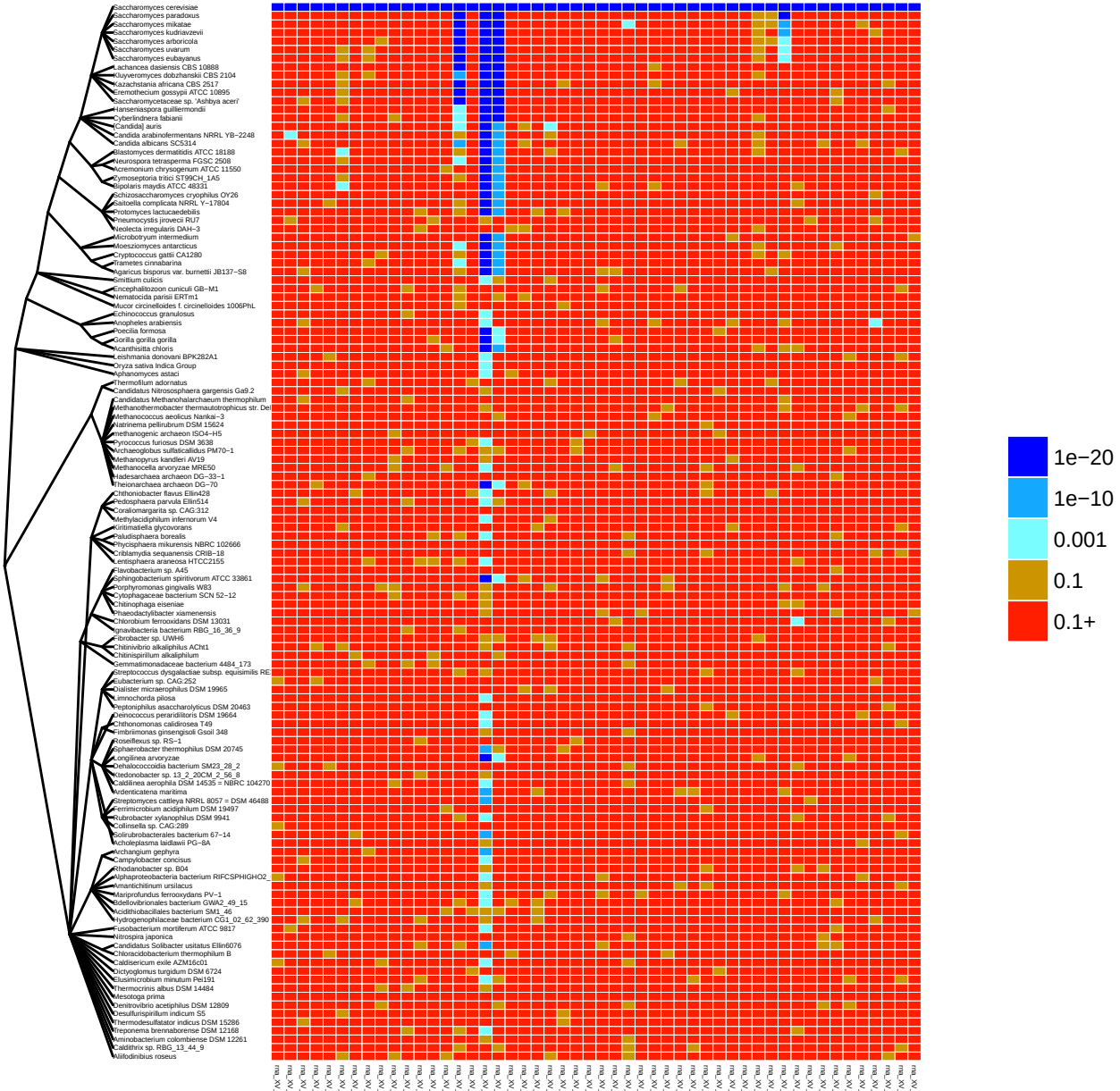

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XV_1577
ma_XV_1578
ma_XV_1581
ma_XV_1582
ma_XV_1584
ma_XV_1585
ma_XV_1586
ma_XV_1589
ma_XV_159
ma_XV_1590
ma_XV_1596
ma_XV_1595
ma_XV_1597
ma_XV_16
ma_XV_1600
ma_XV_1602
ma_XV_1604
ma_XV_1605
ma_XV_1606
ma_XV_1609
ma_XV_1611
ma_XV_1613
ma_XV_1617
ma_XV_1619
ma_XV_162
ma_XV_1620
ma_XV_1621
ma_XV_1623
ma_XV_1624
ma_XV_1625
ma_XV_1626
ma_XV_1629
ma_XV_1630
ma_XV_1631
ma_XV_1632
ma_XV_1633
ma_XV_1634
ma_XV_1636
ma_XV_1640
ma_XV_1642
ma_XV_1644
ma_XV_1645
ma_XV_1646
ma_XV_1647
ma_XV_1648
ma_XV_1649
ma_XV_165
ma_XV_1650
ma_XV_1652
ma_XV_1654
1e−20
1e−10
0.001
0.1
0.1+

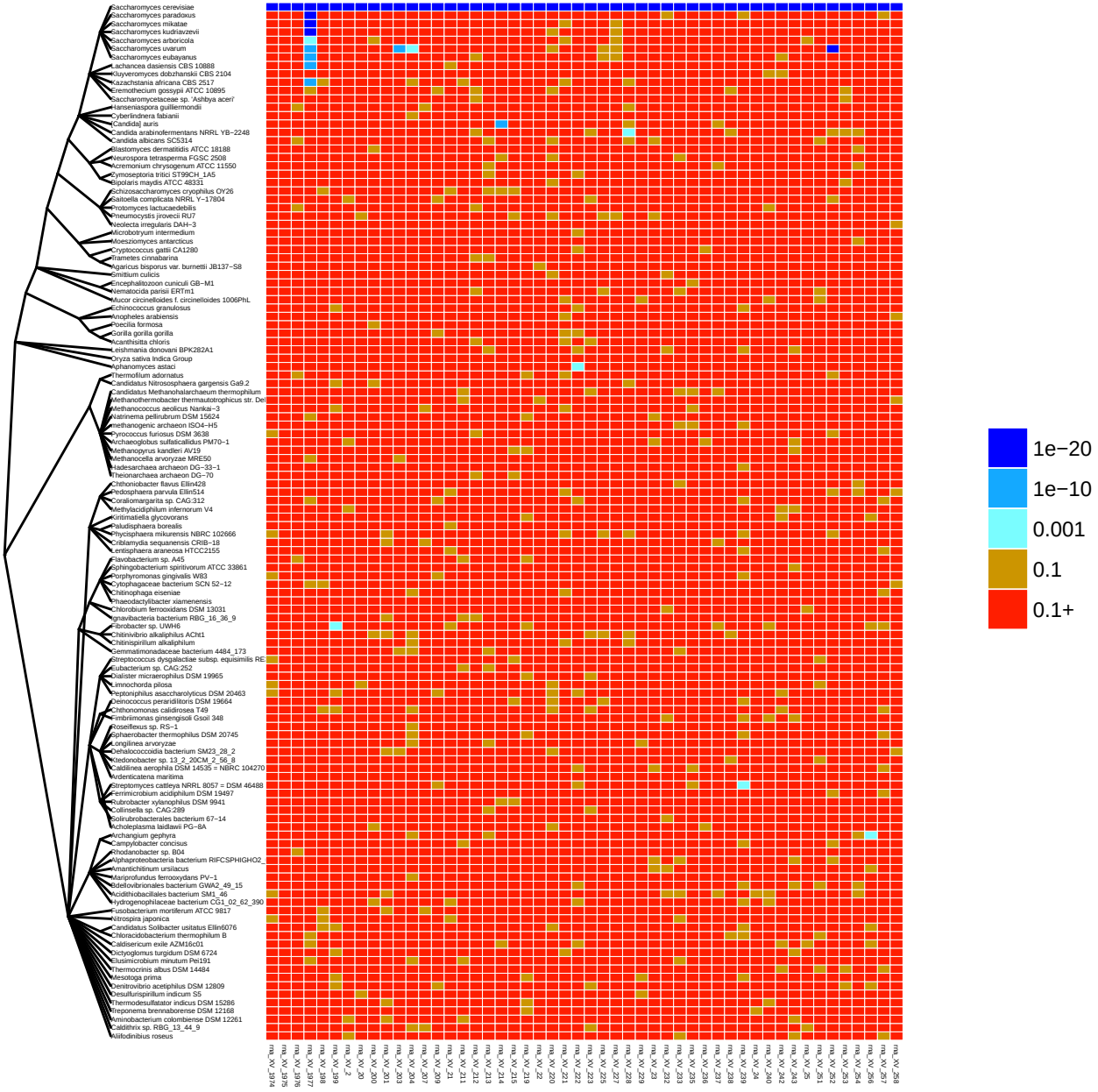

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aoeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrodinibius roseus
ma_XV_1655
ma_XV_1656
ma_XV_1657
ma_XV_1658
ma_XV_1659
ma_XV_1660
ma_XV_1662
ma_XV_1663
ma_XV_1664
ma_XV_1669
ma_XV_1670
ma_XV_1671
ma_XV_1672
ma_XV_1673
ma_XV_1674
ma_XV_1675
ma_XV_1676
ma_XV_1677
ma_XV_1678
ma_XV_1679
ma_XV_1680
ma_XV_1681
ma_XV_1682
ma_XV_1683
ma_XV_1686
ma_XV_1688
ma_XV_1691
ma_XV_1693
ma_XV_1694
ma_XV_1695
ma_XV_1696
ma_XV_1697
ma_XV_1699
ma_XV_17
ma_XV_170
ma_XV_1702
ma_XV_1703
ma_XV_1704
ma_XV_1705
ma_XV_1706
ma_XV_1708
ma_XV_1709
ma_XV_1711
ma_XV_1712
ma_XV_1713
ma_XV_1714
ma_XV_1715
ma_XV_1716
ma_XV_1717
1e−20
1e−10
0.001
0.1
0.1+

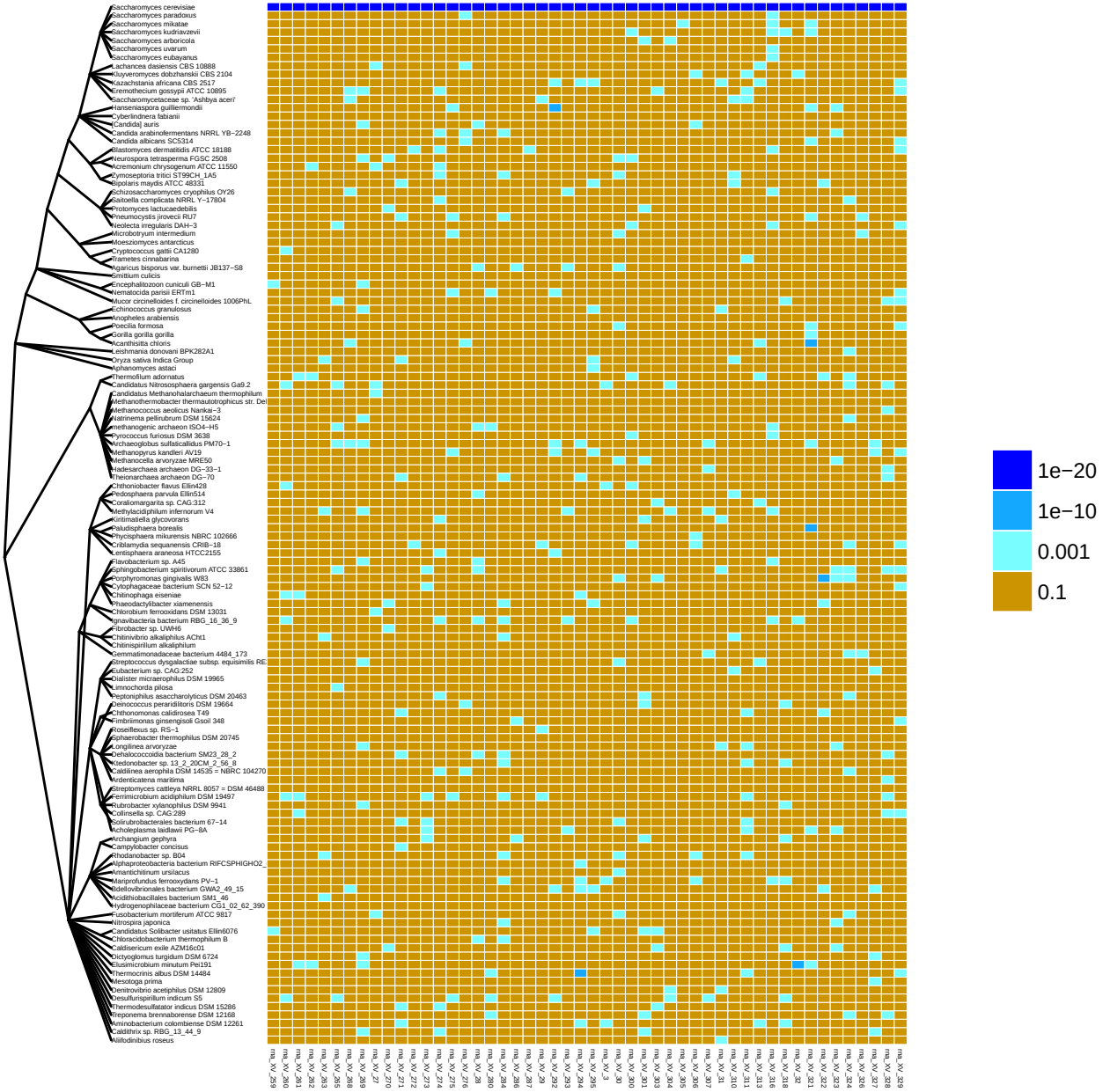

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XV_1718
ma_XV_1720
ma_XV_1722
ma_XV_1724
ma_XV_1725
ma_XV_1726
ma_XV_1727
ma_XV_1728
ma_XV_1729
ma_XV_1732
ma_XV_1733
ma_XV_1735
ma_XV_1738
ma_XV_1739
ma_XV_1740
ma_XV_1741
ma_XV_1742
ma_XV_1744
ma_XV_1745
ma_XV_1746
ma_XV_1748
ma_XV_1749
ma_XV_1753
ma_XV_1755
ma_XV_1756
ma_XV_1757
ma_XV_1758
ma_XV_1759
ma_XV_1761
ma_XV_1760
ma_XV_1762
ma_XV_1763
ma_XV_1764
ma_XV_1765
ma_XV_1766
ma_XV_1767
ma_XV_1770
ma_XV_1771
ma_XV_1772
ma_XV_1773
ma_XV_1774
ma_XV_1775
ma_XV_1776
ma_XV_1777
ma_XV_1780
ma_XV_1781
ma_XV_1782
ma_XV_1783
ma_XV_1784
1e−20
1e−10
0.001
0.1
0.1+

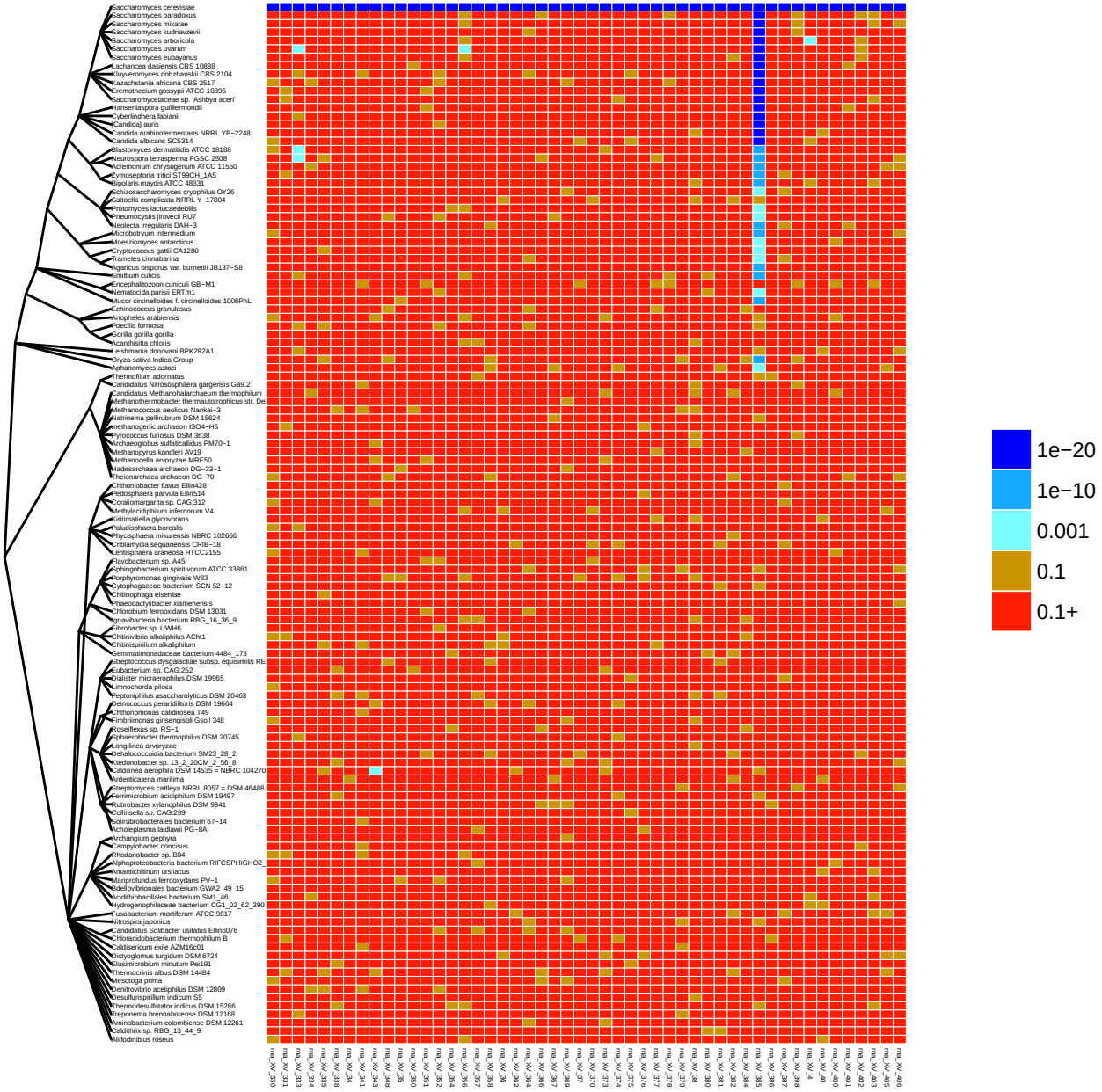

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Methanomarginis sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XV_1785
ma_XV_1786
ma_XV_1787
ma_XV_1789
ma_XV_1797
ma_XV_1798
ma_XV_180
ma_XV_1800
ma_XV_1801
ma_XV_1803
ma_XV_1804
ma_XV_1805
ma_XV_1807
ma_XV_1808
ma_XV_181
ma_XV_1810
ma_XV_1811
ma_XV_1813
ma_XV_1814
ma_XV_1815
ma_XV_1816
ma_XV_1817
ma_XV_1818
ma_XV_1819
ma_XV_182
ma_XV_1820
ma_XV_1821
ma_XV_1822
ma_XV_1823
ma_XV_1824
ma_XV_1825
ma_XV_1826
ma_XV_1827
ma_XV_1828
ma_XV_1829
ma_XV_1830
ma_XV_1831
ma_XV_1834
ma_XV_1835
ma_XV_1836
ma_XV_1840
ma_XV_1841
ma_XV_1842
ma_XV_1843
ma_XV_1844
ma_XV_1845
ma_XV_1846
ma_XV_1849
ma_XV_1853
1e−20
1e−10
0.001
0.1
0.1+

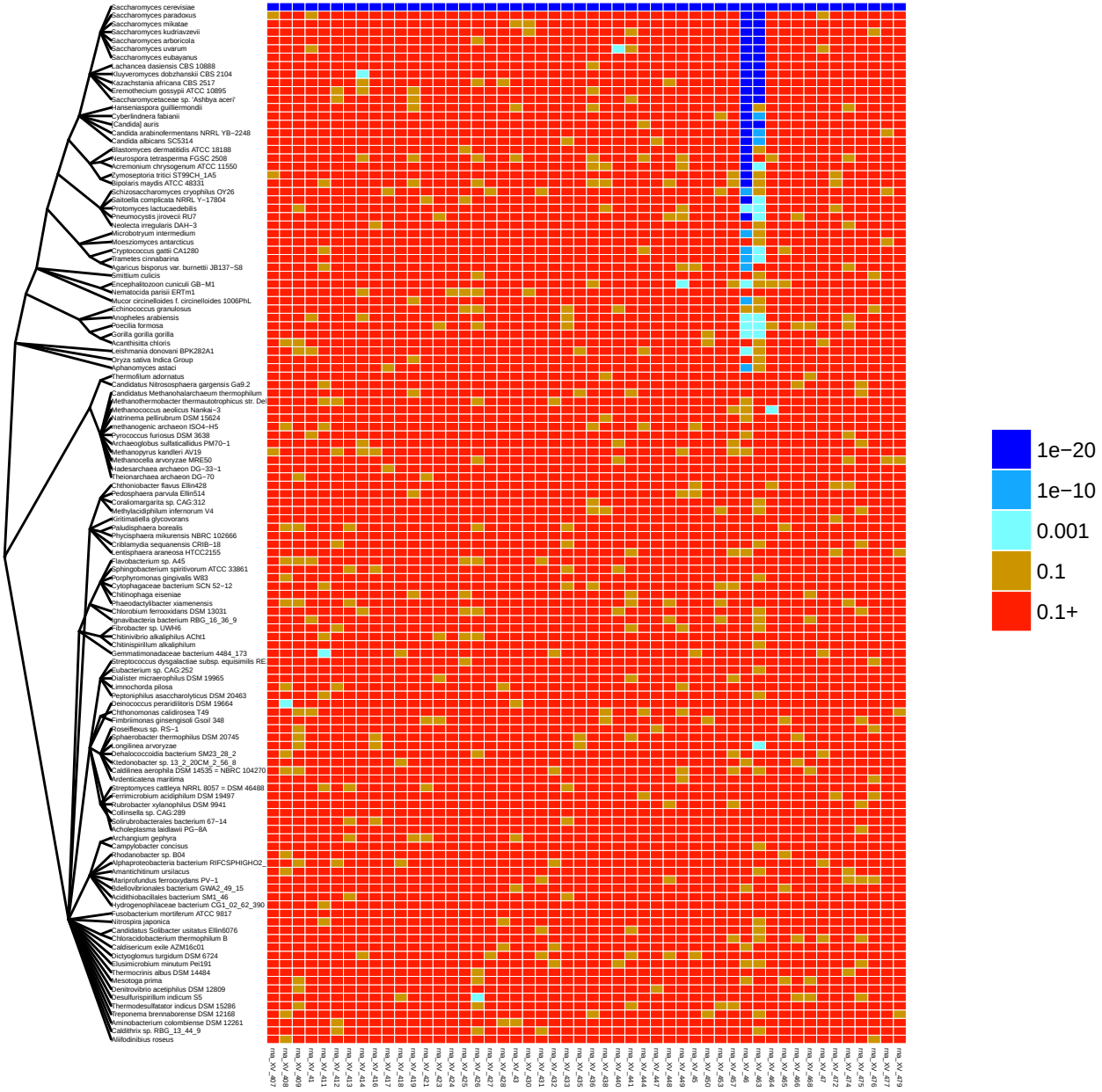

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrofodinibius roseus
mu_XV_1854
mu_XV_1855
mu_XV_1857
mu_XV_1859
mu_XV_1860
mu_XV_1861
mu_XV_1862
mu_XV_1863
mu_XV_1864
mu_XV_1865
mu_XV_1866
mu_XV_1867
mu_XV_1868
mu_XV_1869
mu_XV_1871
mu_XV_1872
mu_XV_1873
mu_XV_1874
mu_XV_1876
mu_XV_1878
mu_XV_1879
mu_XV_1880
mu_XV_1882
mu_XV_1883
mu_XV_1884
mu_XV_1886
mu_XV_1888
mu_XV_1889
mu_XV_1890
mu_XV_1891
mu_XV_1892
mu_XV_1893
mu_XV_1895
mu_XV_1896
mu_XV_1897
mu_XV_1899
mu_XV_19
mu_XV_190
mu_XV_1900
mu_XV_1903
mu_XV_1904
mu_XV_1905
mu_XV_1906
mu_XV_1907
mu_XV_1908
mu_XV_191
mu_XV_1911
mu_XV_1913
mu_XV_1916
1e−20
1e−10
0.001
0.1
0.1+

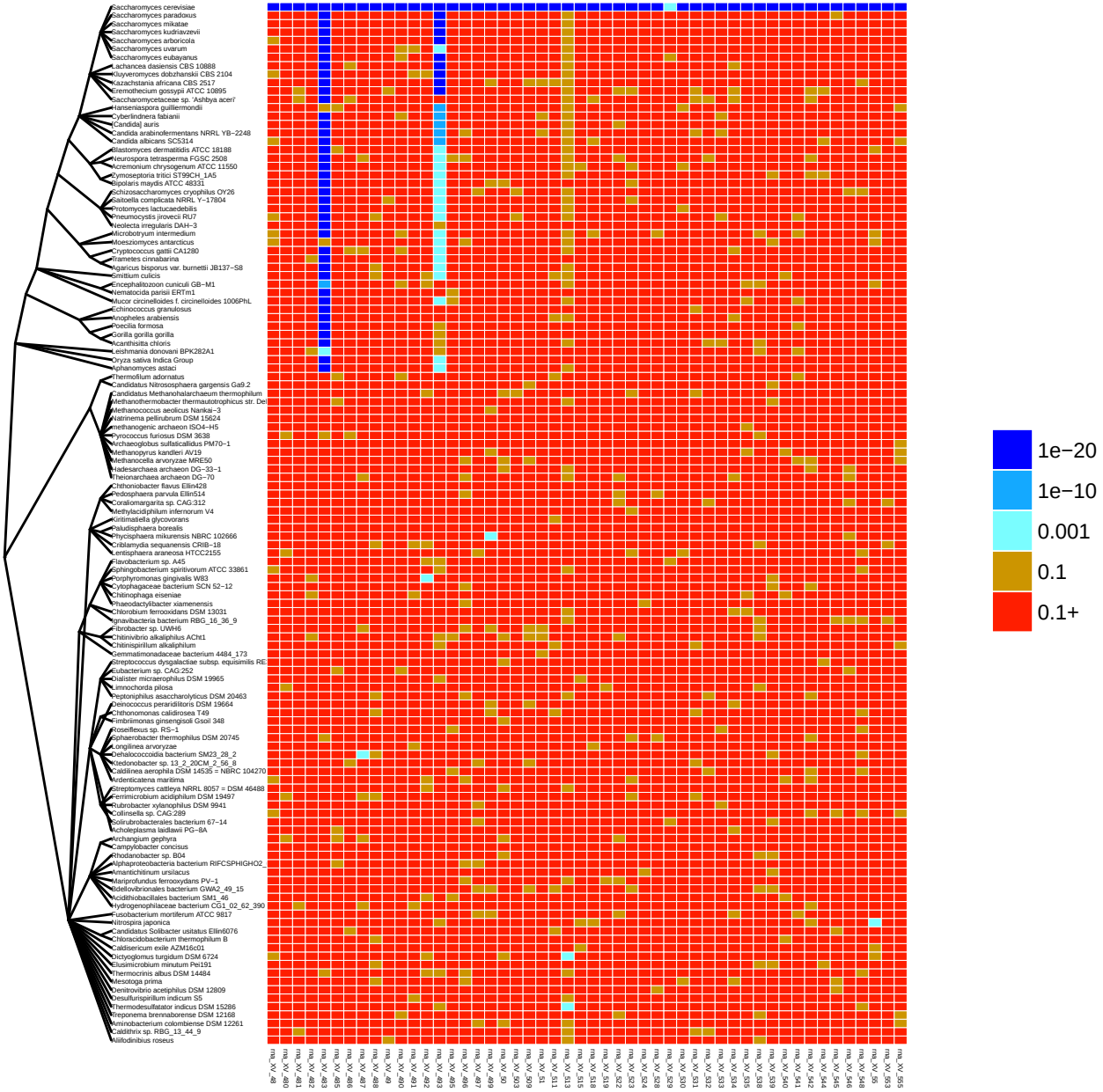

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_XV_1917
ma_XV_1918
ma_XV_1919
ma_XV_192
ma_XV_1920
ma_XV_1922
ma_XV_1923
ma_XV_1926
ma_XV_193
ma_XV_1930
ma_XV_1931
ma_XV_1933
ma_XV_1934
ma_XV_1935
ma_XV_1936
ma_XV_1937
ma_XV_1938
ma_XV_1939
ma_XV_194
ma_XV_1940
ma_XV_1941
ma_XV_1942
ma_XV_1943
ma_XV_1944
ma_XV_1945
ma_XV_1946
ma_XV_1948
ma_XV_1949
ma_XV_195
ma_XV_1952
ma_XV_1953
ma_XV_1955
ma_XV_1956
ma_XV_1958
ma_XV_1959
ma_XV_196
ma_XV_1960
ma_XV_1961
ma_XV_1962
ma_XV_1963
ma_XV_1964
ma_XV_1966
ma_XV_1967
ma_XV_1968
ma_XV_1969
ma_XV_197
ma_XV_1970
ma_XV_1971
ma_XV_1972
ma_XV_1973
1e−20
1e−10
0.001
0.1
0.1+

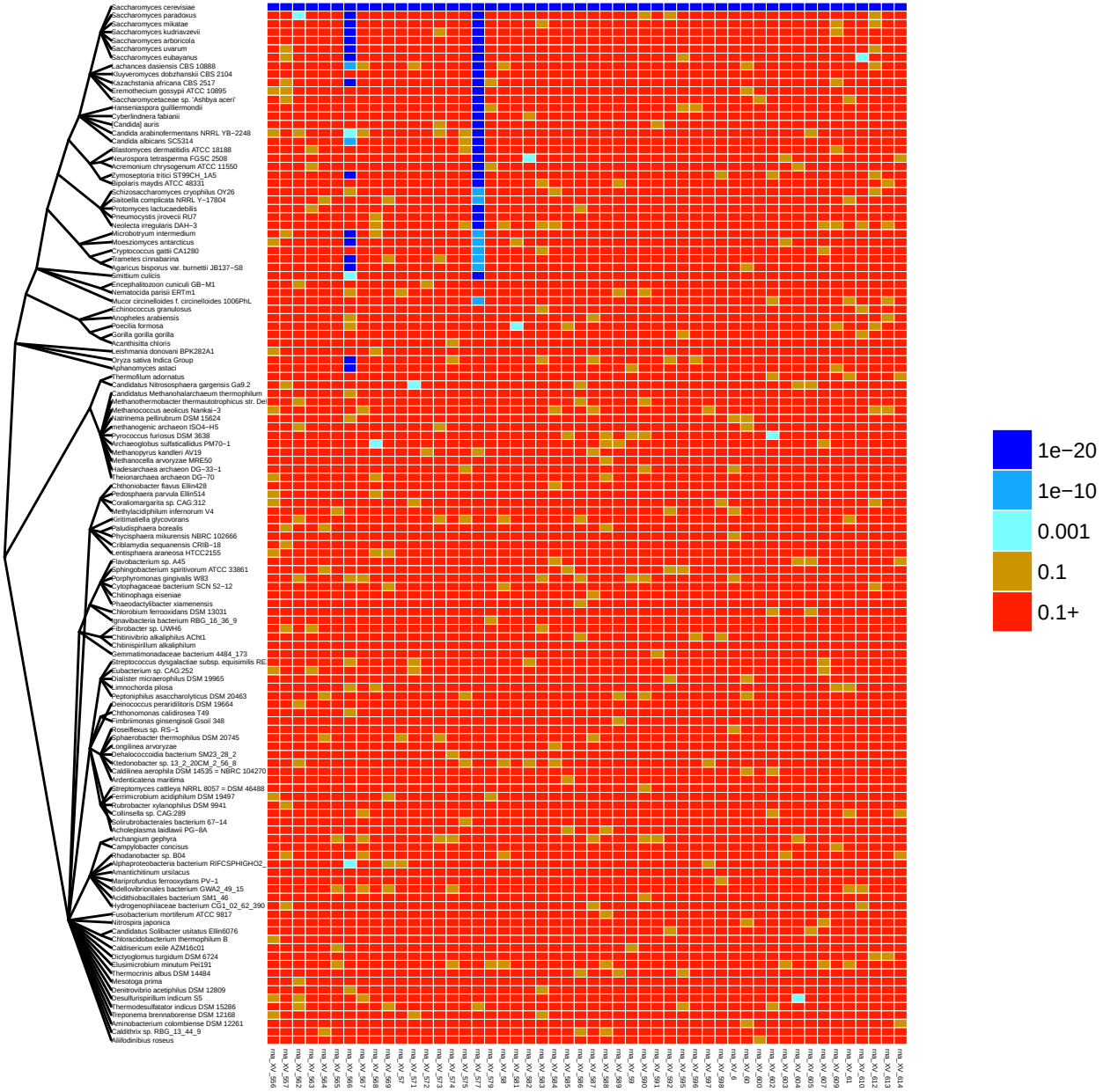

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosomonas nitrosa
Nitrosomonas europaea
Nitrosomonas eutropha
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is75
Nitrosomonas sp. Is77
Nitrosomonas sp. Is78
Nitrosomonas sp. Is76
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is53
Nitrosomonas sp. Is52
Nitrosomonas sp. Is51
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
Nitrosomonas sp. Is36
Nitrosomonas sp. Is35
Nitrosomonas sp. Is34
Nitrosomonas sp. Is33
Nitrosomonas sp. Is32
Nitrosomonas sp. Is31
Nitrosomonas sp. Is30
Nitrosomonas sp. Is29
Nitrosomonas sp. Is28
Nitrosomonas sp. Is27
Nitrosomonas sp. Is26
Nitrosomonas sp. Is25
Nitrosomonas sp. Is24
Nitrosomonas sp. Is23
Nitrosomonas sp. Is22
Nitrosomonas sp. Is21
Nitrosomonas sp. Is20
Nitrosomonas sp. Is19
Nitrosomonas sp. Is18
Nitrosomonas sp. Is17
Nitrosomonas sp. Is16
Nitrosomonas sp. Is15
Nitrosomonas sp. Is14
Nitrosomonas sp. Is13
Nitrosomonas sp. Is12
Nitrosomonas sp. Is11
Nitrosomonas sp. Is10
Nitrosomonas sp. Is9
Nitrosomonas sp. Is8
Nitrosomonas sp. Is7
Nitrosomonas sp. Is6
Nitrosomonas sp. Is5
Nitrosomonas sp. Is4
Nitrosomonas sp. Is3
Nitrosomonas sp. Is2
Nitrosomonas sp. Is1
1e−20
1e−10
0.001
0.1
0.1+

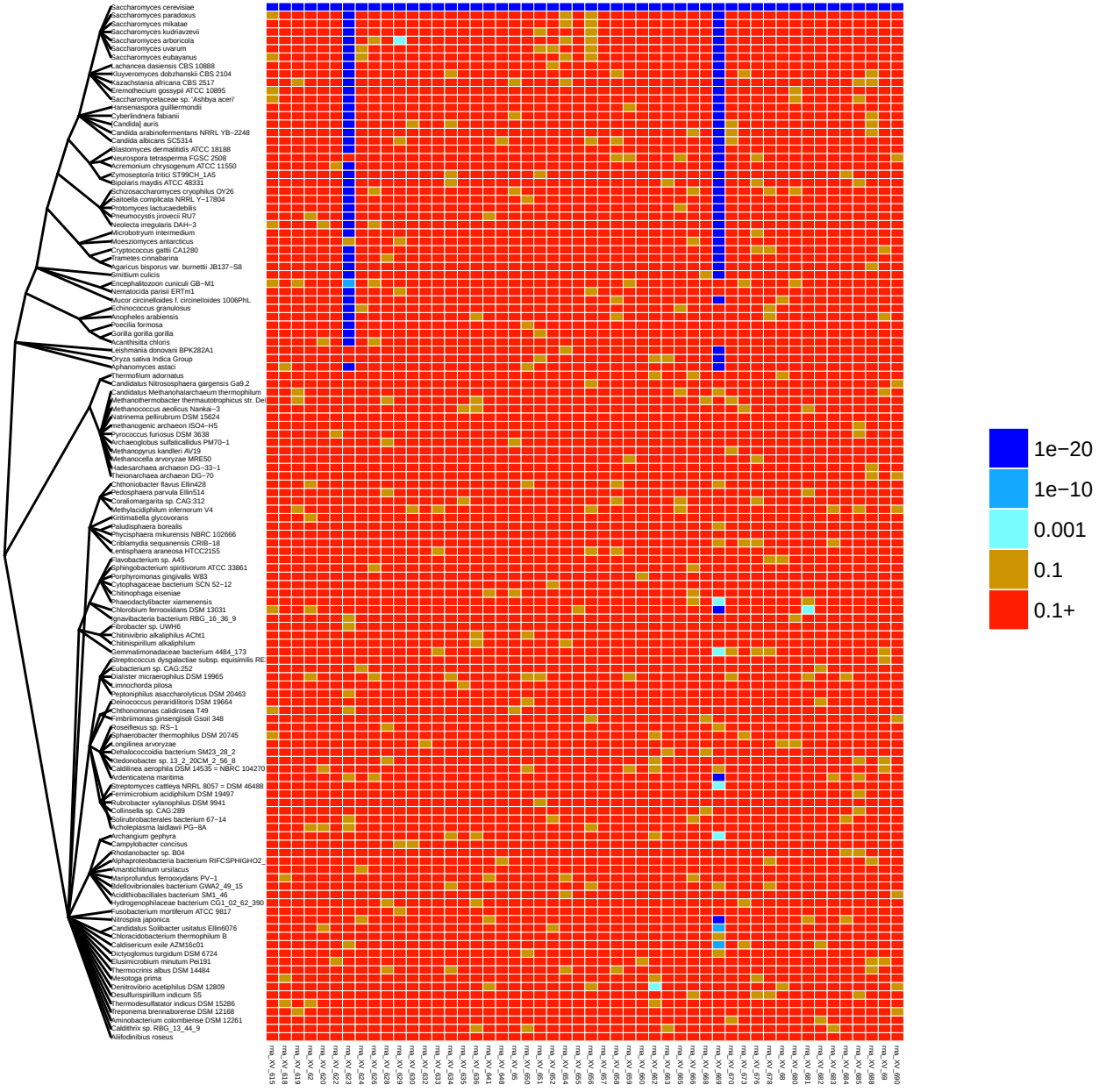

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermia FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanopyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
mu_XV_259
mu_XV_260
mu_XV_261
mu_XV_262
mu_XV_263
mu_XV_265
mu_XV_268
mu_XV_269
mu_XV_27
mu_XV_270
mu_XV_271
mu_XV_272
mu_XV_273
mu_XV_274
mu_XV_275
mu_XV_276
mu_XV_28
mu_XV_280
mu_XV_284
mu_XV_286
mu_XV_287
mu_XV_29
mu_XV_292
mu_XV_293
mu_XV_294
mu_XV_295
mu_XV_3
mu_XV_30
mu_XV_300
mu_XV_301
mu_XV_303
mu_XV_304
mu_XV_305
mu_XV_306
mu_XV_307
mu_XV_31
mu_XV_310
mu_XV_311
mu_XV_313
mu_XV_316
mu_XV_318
mu_XV_32
mu_XV_321
mu_XV_322
mu_XV_323
mu_XV_324
mu_XV_326
mu_XV_327
mu_XV_328
mu_XV_329
1e−20
1e−10
0.001
0.1

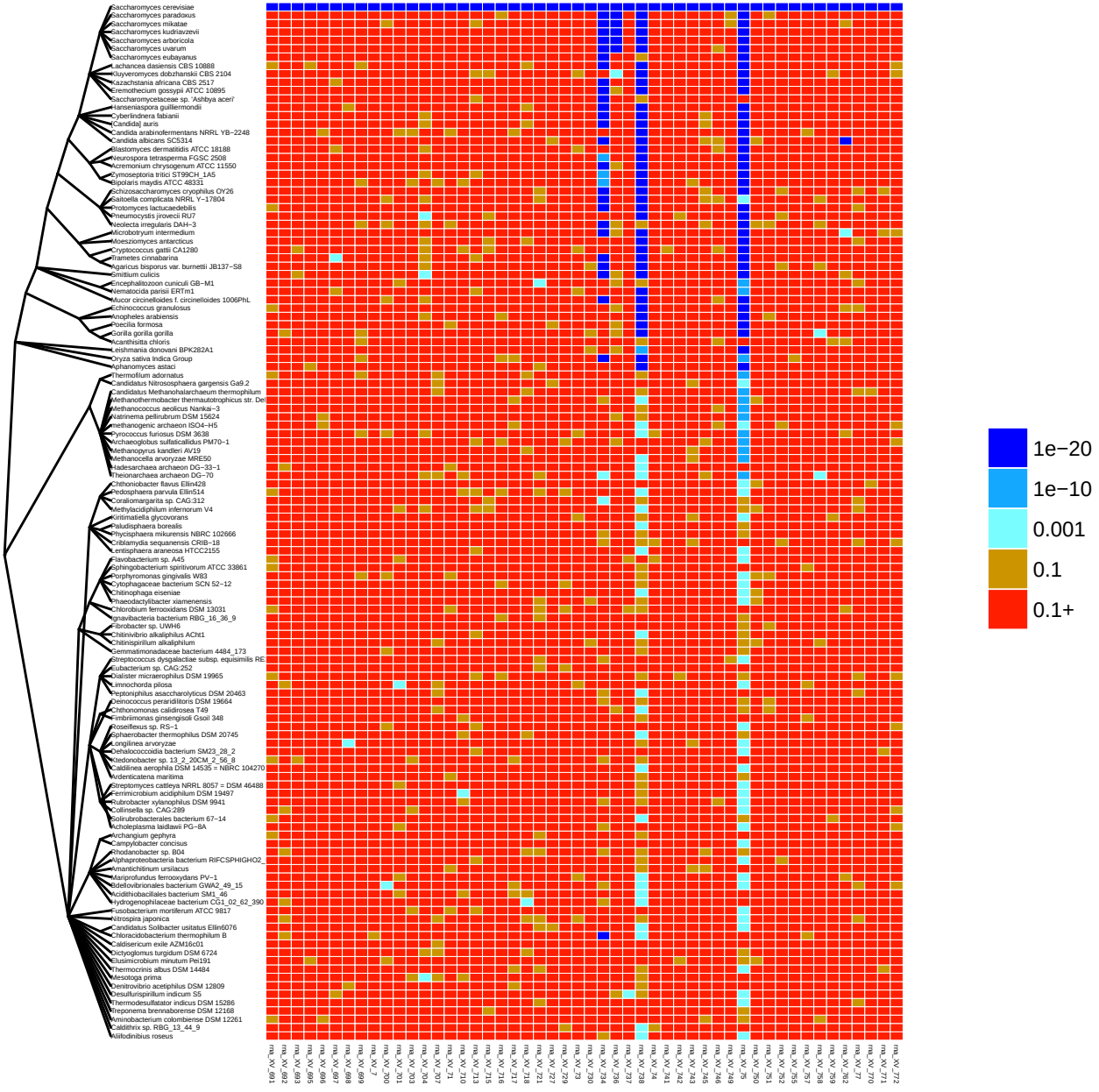

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_XV_330
ma_XV_331
ma_XV_333
ma_XV_334
ma_XV_335
ma_XV_338
ma_XV_34
ma_XV_341
ma_XV_343
ma_XV_348
ma_XV_35
ma_XV_350
ma_XV_351
ma_XV_352
ma_XV_354
ma_XV_356
ma_XV_357
ma_XV_358
ma_XV_36
ma_XV_362
ma_XV_364
ma_XV_366
ma_XV_367
ma_XV_369
ma_XV_37
ma_XV_370
ma_XV_373
ma_XV_374
ma_XV_375
ma_XV_376
ma_XV_377
ma_XV_378
ma_XV_379
ma_XV_38
ma_XV_380
ma_XV_381
ma_XV_382
ma_XV_384
ma_XV_385
ma_XV_386
ma_XV_387
ma_XV_398
ma_XV_4
ma_XV_40
ma_XV_400
ma_XV_401
ma_XV_402
ma_XV_403
ma_XV_405
ma_XV_406
1e−20
1e−10
0.001
0.1
0.1+

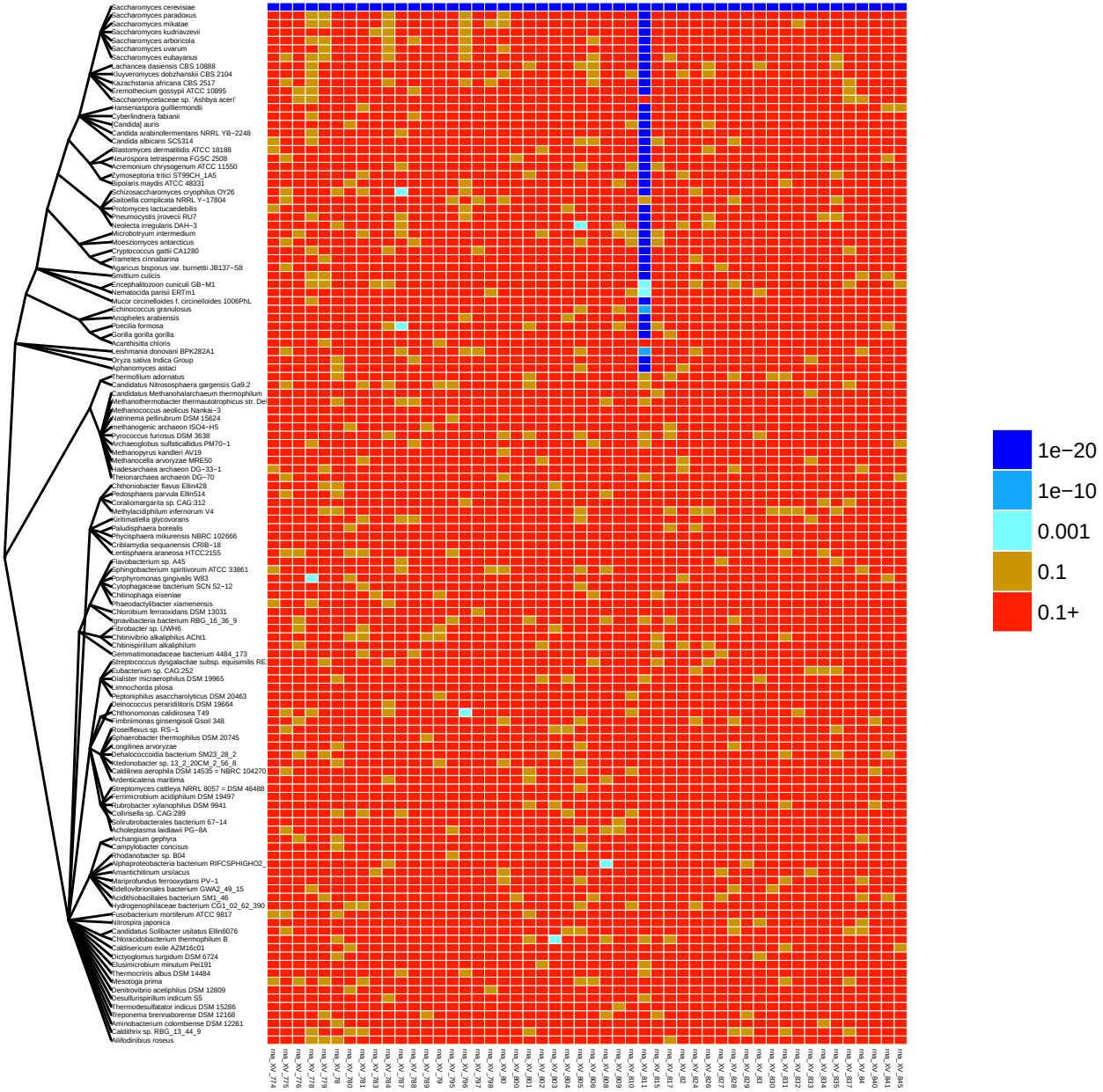

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermotilium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thetionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridiltoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_XV_407
ma_XV_408
ma_XV_409
ma_XV_41
ma_XV_411
ma_XV_412
ma_XV_413
ma_XV_414
ma_XV_416
ma_XV_417
ma_XV_418
ma_XV_419
ma_XV_421
ma_XV_423
ma_XV_424
ma_XV_425
ma_XV_426
ma_XV_427
ma_XV_428
ma_XV_43
ma_XV_430
ma_XV_431
ma_XV_432
ma_XV_433
ma_XV_435
ma_XV_436
ma_XV_438
ma_XV_440
ma_XV_441
ma_XV_444
ma_XV_447
ma_XV_448
ma_XV_449
ma_XV_45
ma_XV_450
ma_XV_453
ma_XV_457
ma_XV_46
ma_XV_463
ma_XV_464
ma_XV_465
ma_XV_466
ma_XV_468
ma_XV_47
ma_XV_472
ma_XV_474
ma_XV_475
ma_XV_476
ma_XV_477
ma_XV_479
1e−20
1e−10
0.001
0.1
0.1+

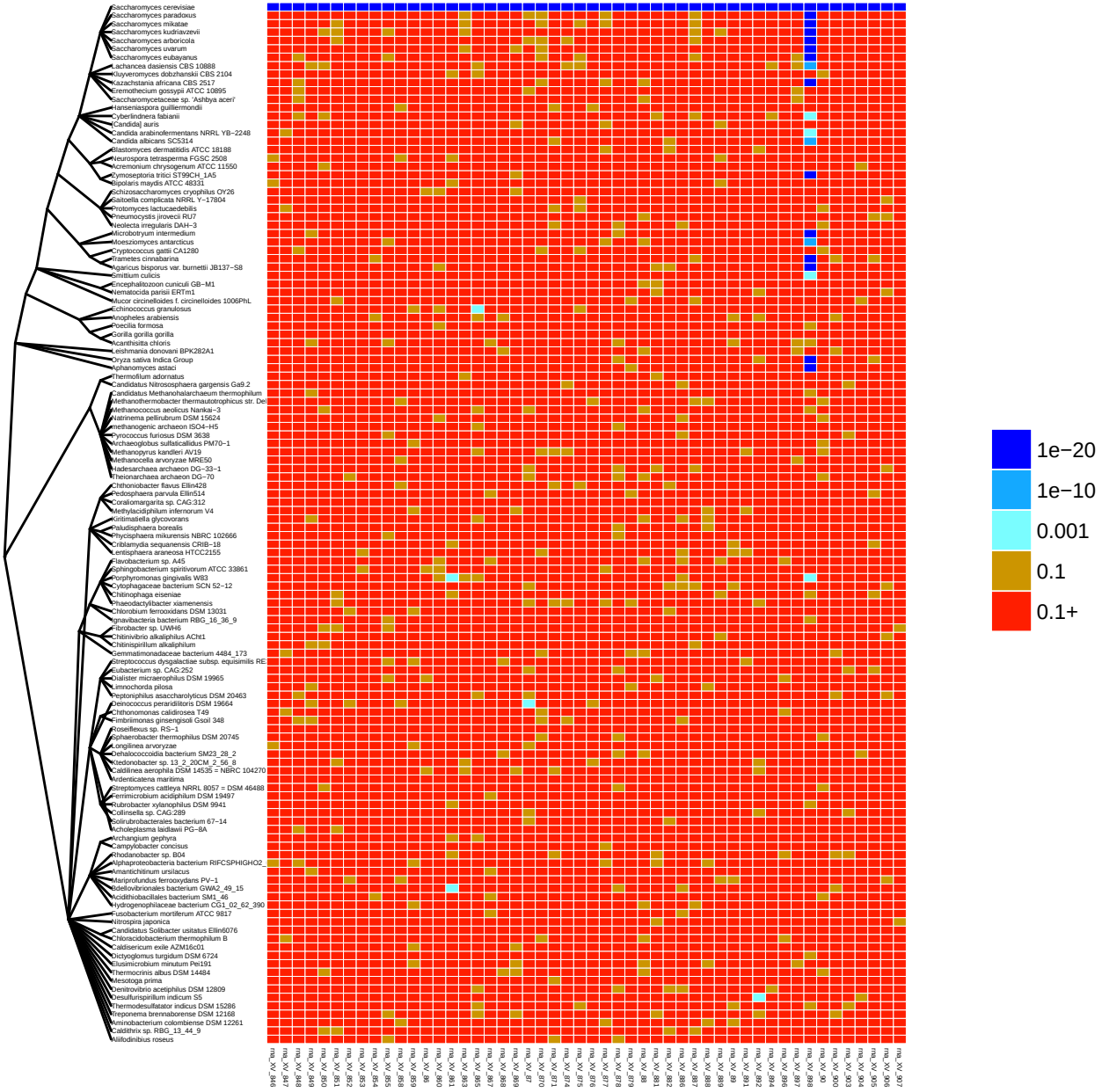

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thetionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_XV_48
ma_XV_480
ma_XV_481
ma_XV_482
ma_XV_483
ma_XV_485
ma_XV_486
ma_XV_487
ma_XV_488
ma_XV_490
ma_XV_491
ma_XV_492
ma_XV_493
ma_XV_495
ma_XV_496
ma_XV_497
ma_XV_499
ma_XV_50
ma_XV_503
ma_XV_509
ma_XV_51
ma_XV_511
ma_XV_513
ma_XV_515
ma_XV_518
ma_XV_519
ma_XV_522
ma_XV_523
ma_XV_524
ma_XV_528
ma_XV_529
ma_XV_530
ma_XV_531
ma_XV_532
ma_XV_533
ma_XV_534
ma_XV_535
ma_XV_538
ma_XV_539
ma_XV_540
ma_XV_541
ma_XV_542
ma_XV_544
ma_XV_545
ma_XV_546
ma_XV_548
ma_XV_56
ma_XV_563
ma_XV_565
1e−20
1e−10
0.001
0.1
0.1+

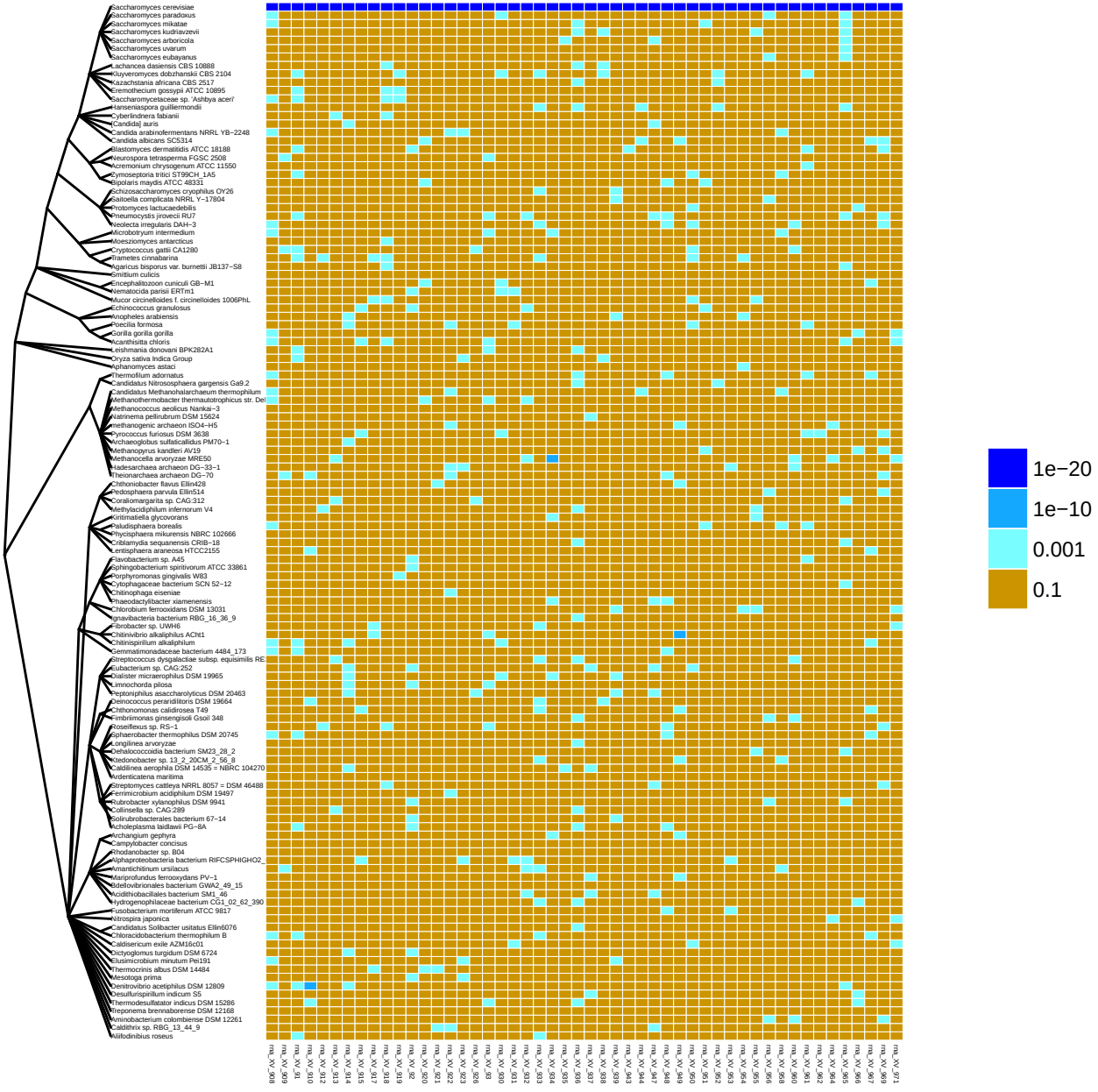

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_XV_586
ma_XV_587
ma_XV_592
ma_XV_593
ma_XV_594
ma_XV_565
ma_XV_566
ma_XV_567
ma_XV_568
ma_XV_569
ma_XV_57
ma_XV_571
ma_XV_572
ma_XV_573
ma_XV_574
ma_XV_575
ma_XV_577
ma_XV_579
ma_XV_58
ma_XV_581
ma_XV_582
ma_XV_583
ma_XV_584
ma_XV_585
ma_XV_586
ma_XV_587
ma_XV_588
ma_XV_589
ma_XV_59
ma_XV_590
ma_XV_591
ma_XV_592
ma_XV_595
ma_XV_596
ma_XV_597
ma_XV_598
ma_XV_6
ma_XV_60
ma_XV_600
ma_XV_602
ma_XV_603
ma_XV_604
ma_XV_605
ma_XV_607
ma_XV_609
ma_XV_61
ma_XV_610
ma_XV_612
ma_XV_613
ma_XV_614
1e−20
1e−10
0.001
0.1
0.1+

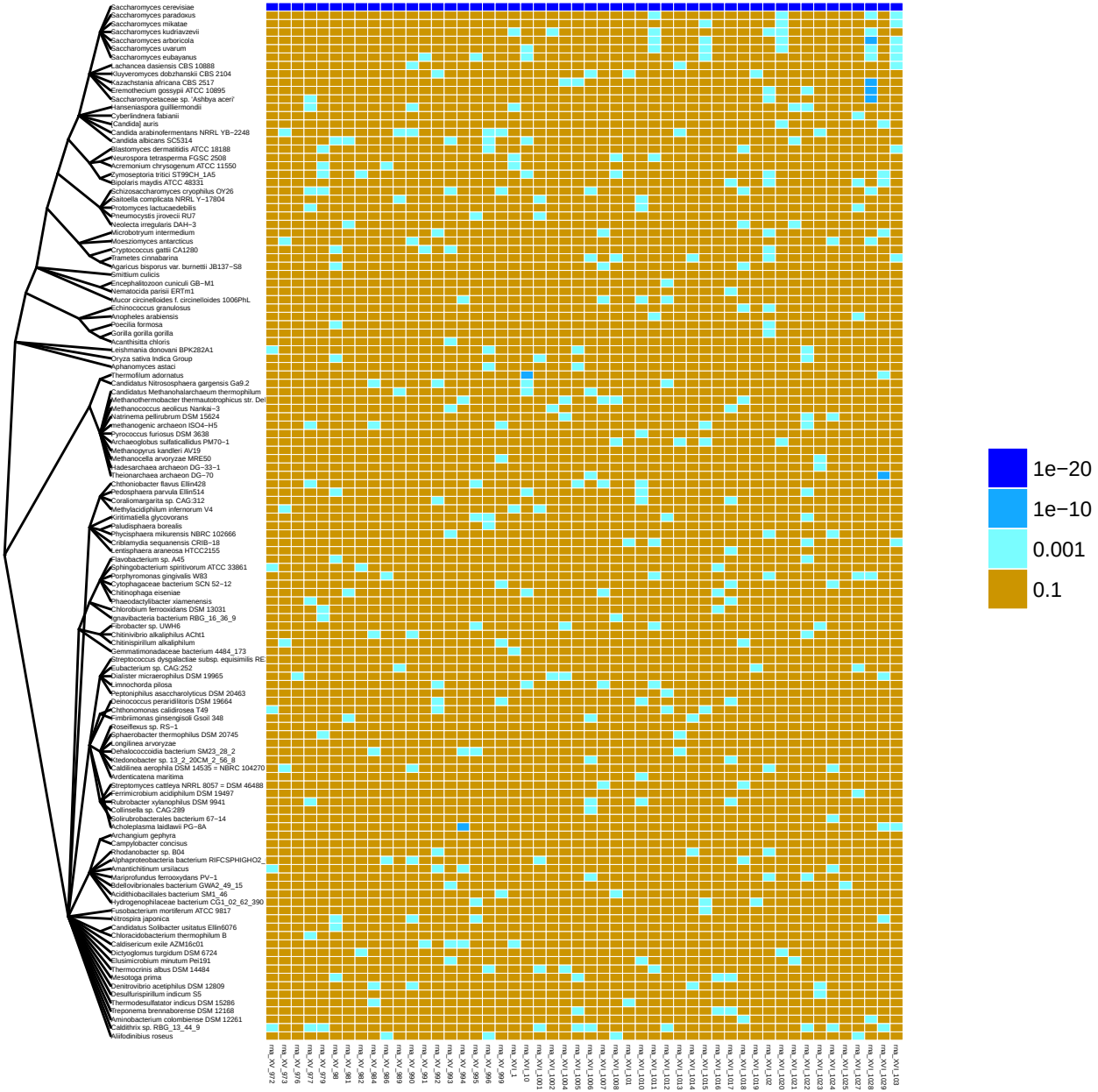

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Sporisorium reilianum SRZ2
Ustilago maydis 521
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia pachydermatis CBS 1879
Malassezia furfur CBS 14141
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia japonica CBS 9557
Malassezia cuniculi CBS 9557
Malassezia nana CBS 9557
Malassezia vespertilionis CBS 9557
Malassezia brasiliensis CBS 9557
Malassezia obtusa CBS 9557
Malassezia pachydermatis CBS 9557
Malassezia furfur CBS 9557
Malassezia restricta CBS 9557
Malassezia slooffiae CBS 9557
Malassezia dermatis CBS 9557

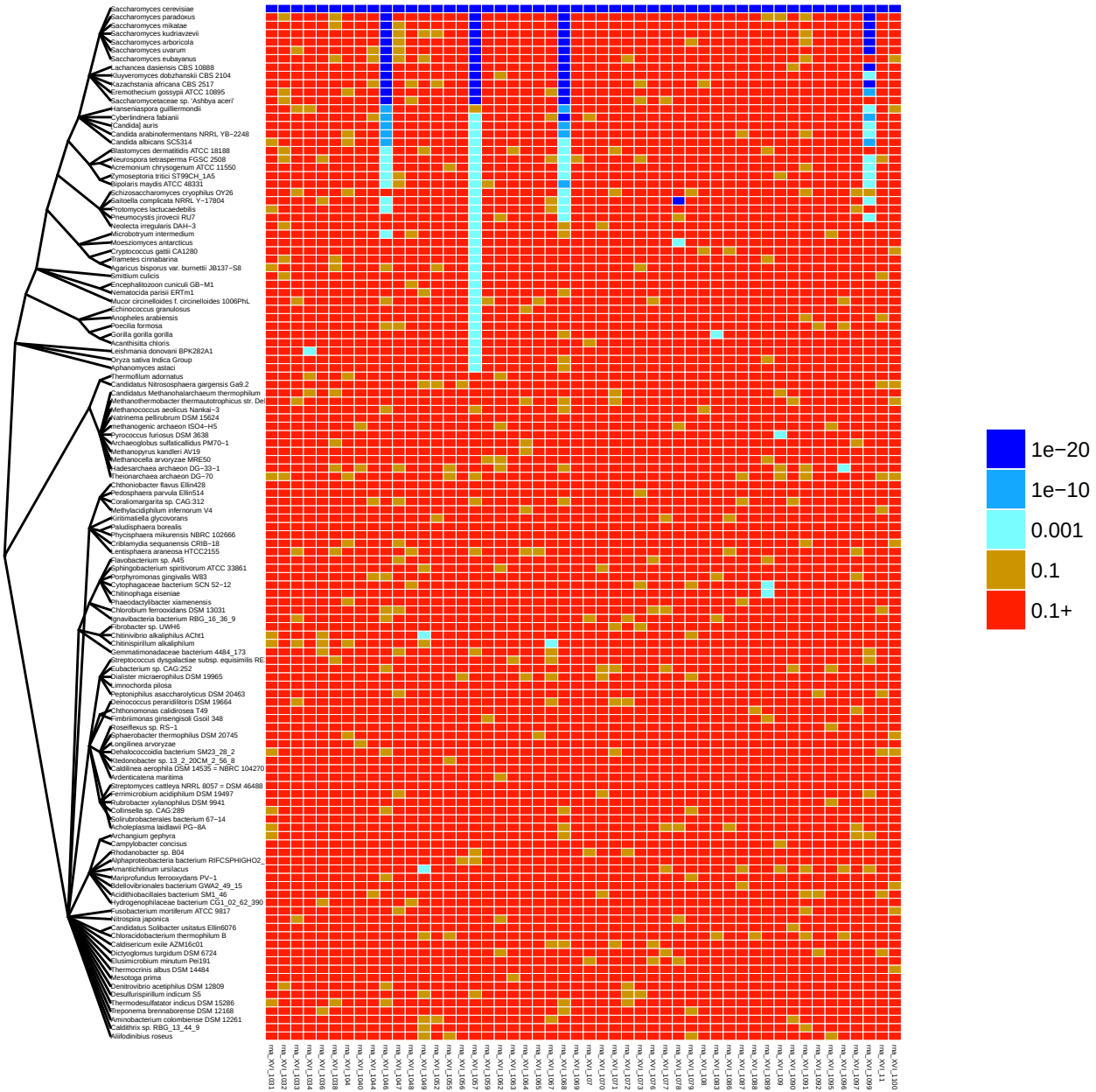

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_XV_681
ma_XV_692
ma_XV_693
ma_XV_695
ma_XV_696
ma_XV_697
ma_XV_698
ma_XV_699
ma_XV_7
ma_XV_700
ma_XV_701
ma_XV_703
ma_XV_704
ma_XV_707
ma_XV_71
ma_XV_710
ma_XV_713
ma_XV_715
ma_XV_716
ma_XV_717
ma_XV_718
ma_XV_721
ma_XV_727
ma_XV_729
ma_XV_73
ma_XV_730
ma_XV_734
ma_XV_736
ma_XV_737
ma_XV_738
ma_XV_74
ma_XV_741
ma_XV_742
ma_XV_743
ma_XV_745
ma_XV_746
ma_XV_749
ma_XV_75
ma_XV_750
ma_XV_751
ma_XV_752
ma_XV_755
ma_XV_757
ma_XV_758
ma_XV_759
ma_XV_762
ma_XV_77
ma_XV_770
ma_XV_771
ma_XV_772
1e−20
1e−10
0.001
0.1
0.1+

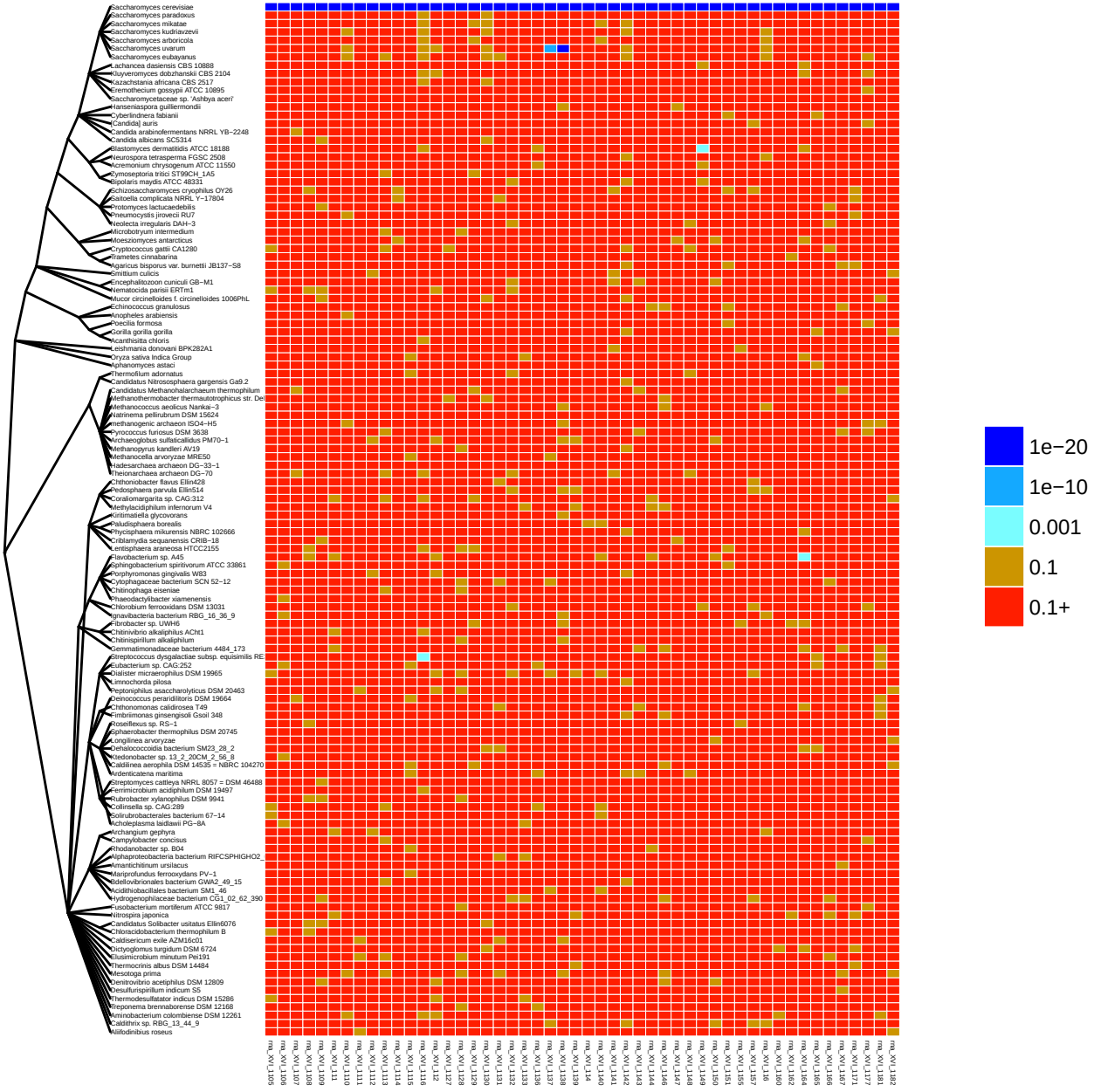

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans DSM 18814
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
ma_XV_774
ma_XV_775
ma_XV_776
ma_XV_778
ma_XV_779
ma_XV_78
ma_XV_780
ma_XV_781
ma_XV_783
ma_XV_784
ma_XV_787
ma_XV_788
ma_XV_789
ma_XV_79
ma_XV_795
ma_XV_796
ma_XV_797
ma_XV_798
ma_XV_80
ma_XV_800
ma_XV_801
ma_XV_802
ma_XV_803
ma_XV_804
ma_XV_805
ma_XV_806
ma_XV_808
ma_XV_809
ma_XV_810
ma_XV_811
ma_XV_815
ma_XV_817
ma_XV_82
ma_XV_824
ma_XV_826
ma_XV_827
ma_XV_828
ma_XV_829
ma_XV_83
ma_XV_830
ma_XV_831
ma_XV_832
ma_XV_833
ma_XV_834
ma_XV_835
ma_XV_837
ma_XV_84
ma_XV_840
ma_XV_841
ma_XV_845
1e−20
1e−10
0.001
0.1
0.1+

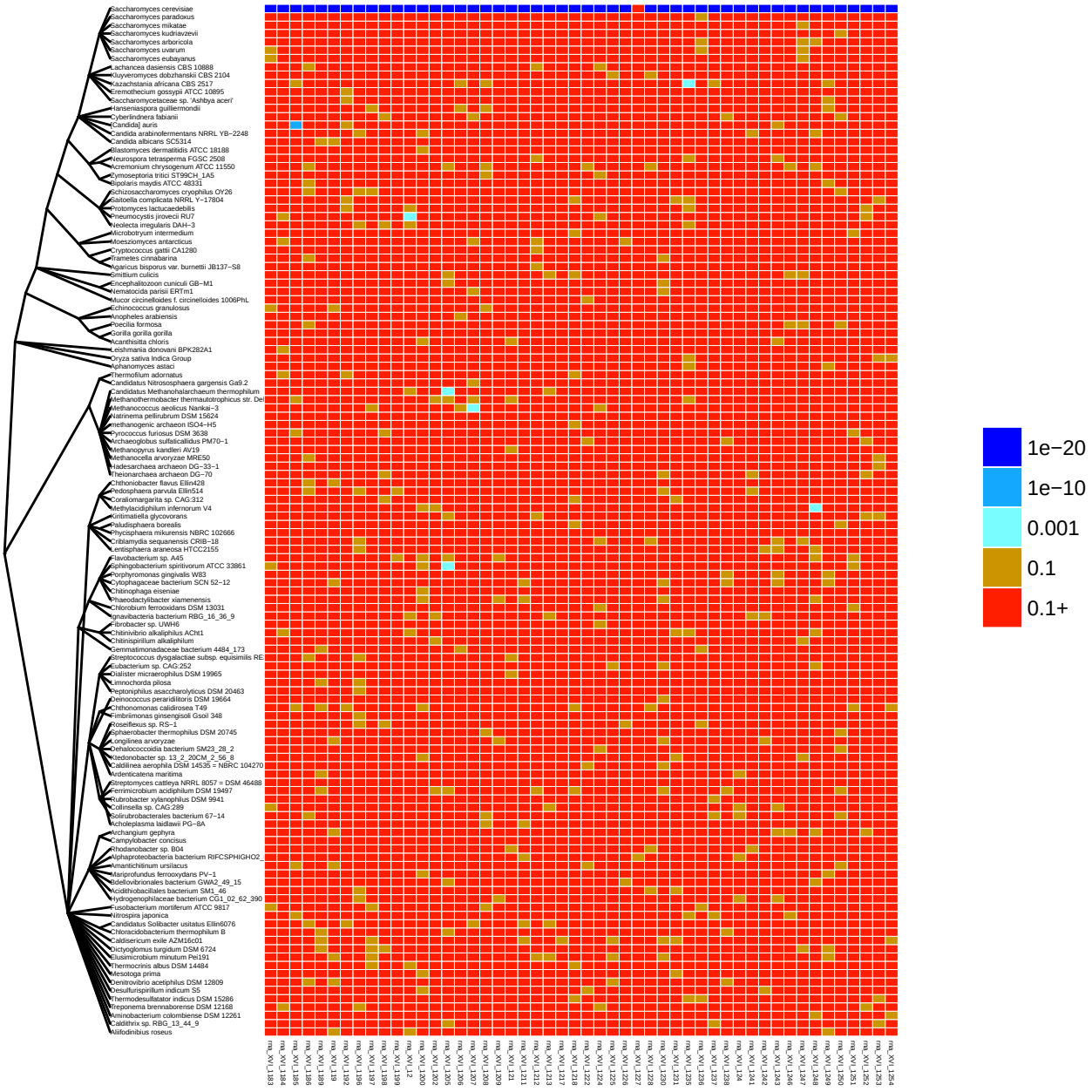

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XV_846
ma_XV_847
ma_XV_848
ma_XV_849
ma_XV_850
ma_XV_851
ma_XV_852
ma_XV_853
ma_XV_854
ma_XV_855
ma_XV_858
ma_XV_859
ma_XV_86
ma_XV_860
ma_XV_861
ma_XV_863
ma_XV_865
ma_XV_867
ma_XV_868
ma_XV_869
ma_XV_87
ma_XV_870
ma_XV_871
ma_XV_874
ma_XV_875
ma_XV_876
ma_XV_877
ma_XV_878
ma_XV_879
ma_XV_88
ma_XV_881
ma_XV_882
ma_XV_886
ma_XV_887
ma_XV_888
ma_XV_889
ma_XV_89
ma_XV_891
ma_XV_892
ma_XV_894
ma_XV_896
ma_XV_897
ma_XV_898
ma_XV_90
ma_XV_900
ma_XV_903
ma_XV_904
ma_XV_905
ma_XV_906
ma_XV_907
1e−20
1e−10
0.001
0.1
0.1+

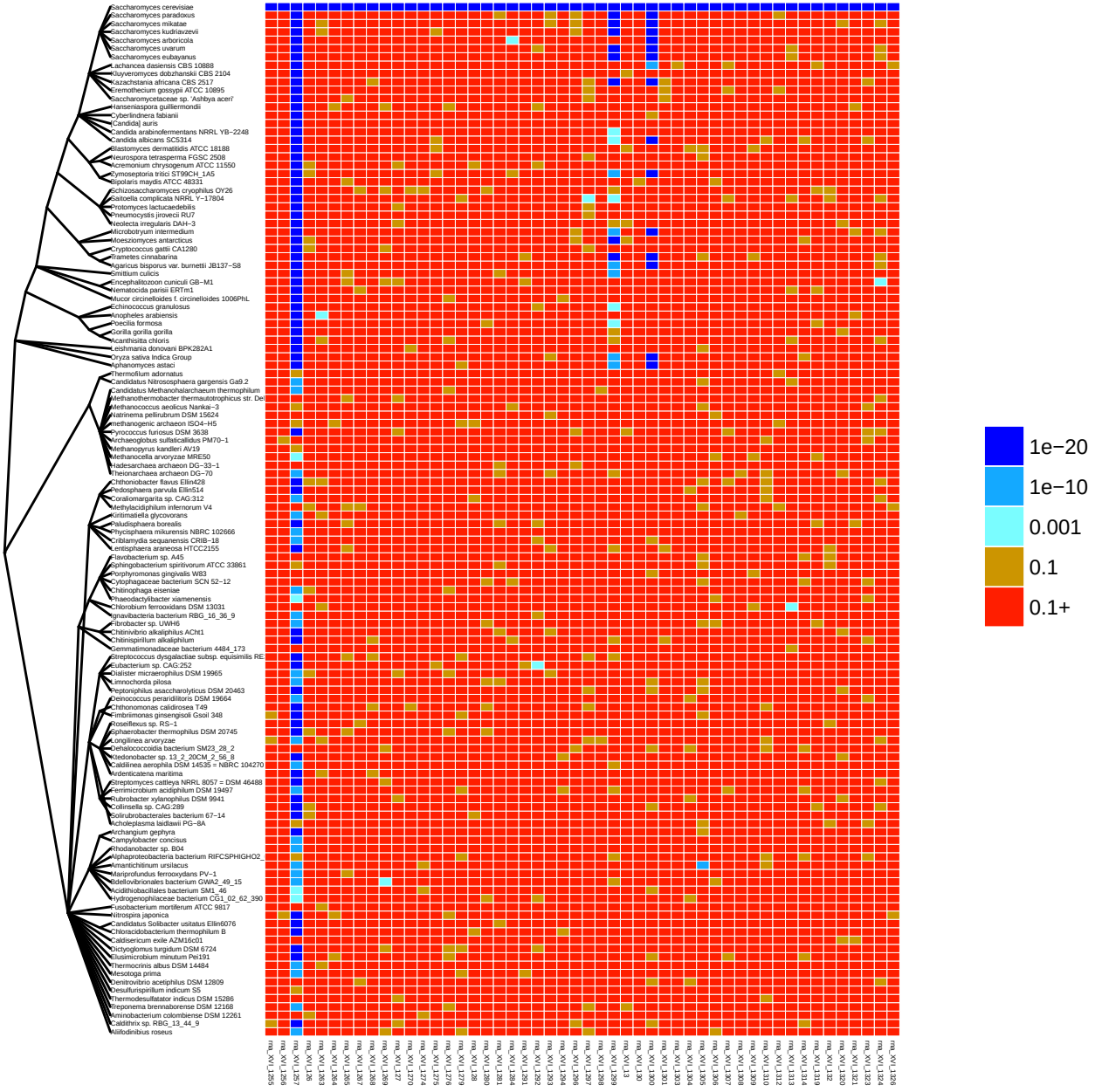

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XV_908
ma_XV_909
ma_XV_911
ma_XV_910
ma_XV_912
ma_XV_913
ma_XV_914
ma_XV_915
ma_XV_917
ma_XV_918
ma_XV_919
ma_XV_920
ma_XV_921
ma_XV_922
ma_XV_923
ma_XV_926
ma_XV_931
ma_XV_930
ma_XV_931
ma_XV_932
ma_XV_933
ma_XV_934
ma_XV_935
ma_XV_936
ma_XV_937
ma_XV_938
ma_XV_939
ma_XV_943
ma_XV_944
ma_XV_947
ma_XV_948
ma_XV_949
ma_XV_950
ma_XV_951
ma_XV_952
ma_XV_953
ma_XV_954
ma_XV_955
ma_XV_956
ma_XV_958
ma_XV_960
ma_XV_961
ma_XV_962
ma_XV_964
ma_XV_965
ma_XV_966
ma_XV_967
ma_XV_969
ma_XV_971
1e−20
1e−10
0.001
0.1

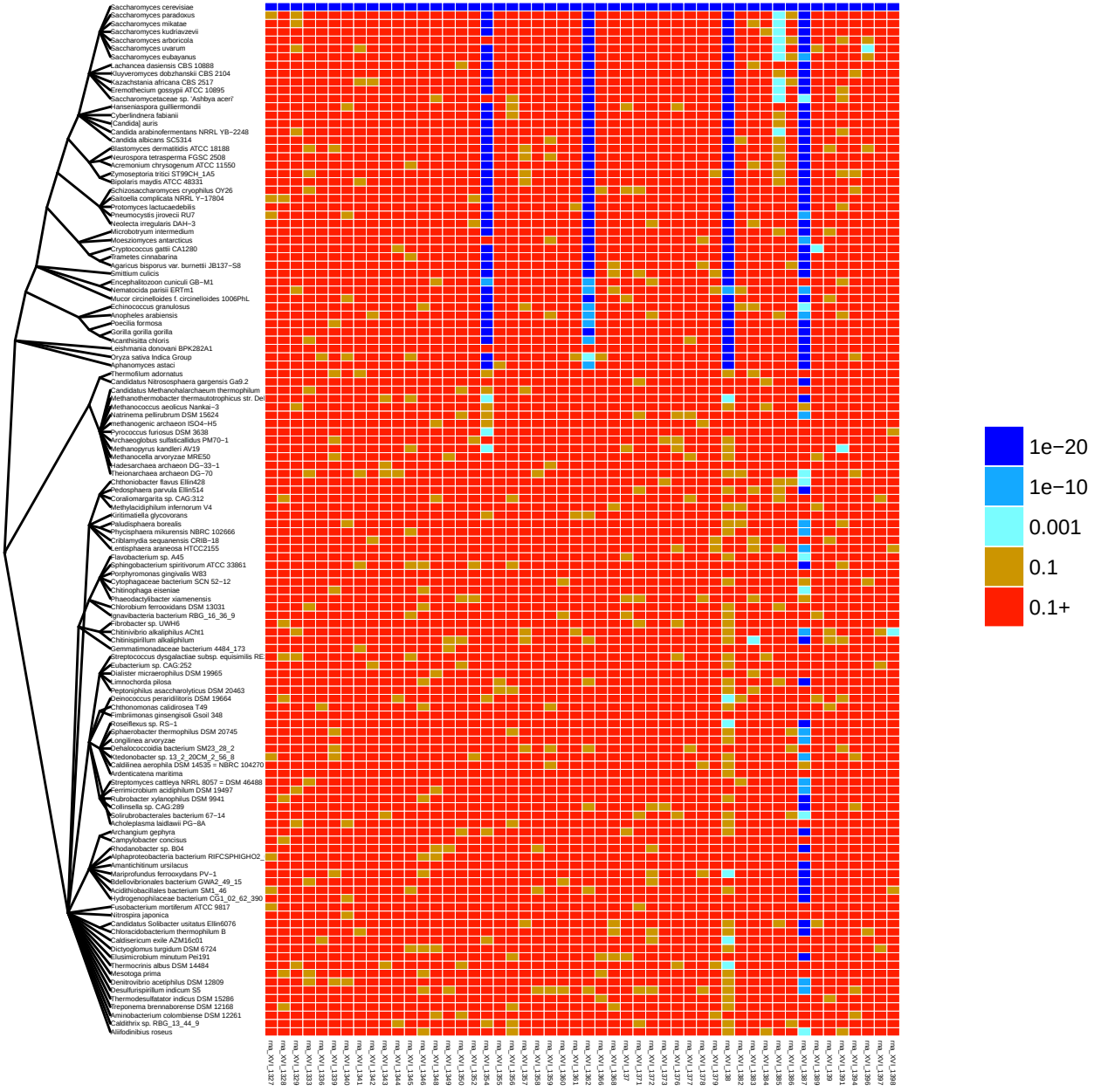

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Rhycsphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_XV_972
ma_XV_973
ma_XV_976
ma_XV_977
ma_XV_979
ma_XV_98
ma_XV_981
ma_XV_982
ma_XV_984
ma_XV_986
ma_XV_989
ma_XV_990
ma_XV_991
ma_XV_992
ma_XV_993
ma_XV_994
ma_XV_995
ma_XV_996
ma_XV_999
ma_XV_1
ma_XV_10
ma_XV_1001
ma_XV_1002
ma_XV_1004
ma_XV_1005
ma_XV_1006
ma_XV_1007
ma_XV_1008
ma_XV_101
ma_XV_1010
ma_XV_1011
ma_XV_1012
ma_XV_1013
ma_XV_1014
ma_XV_1015
ma_XV_1016
ma_XV_1017
ma_XV_1018
ma_XV_1019
ma_XV_102
ma_XV_1020
ma_XV_1021
ma_XV_1022
ma_XV_1023
ma_XV_1024
ma_XV_1025
ma_XV_1027
ma_XV_1028
ma_XV_1029
ma_XV_103
1e−20
1e−10
0.001
0.1

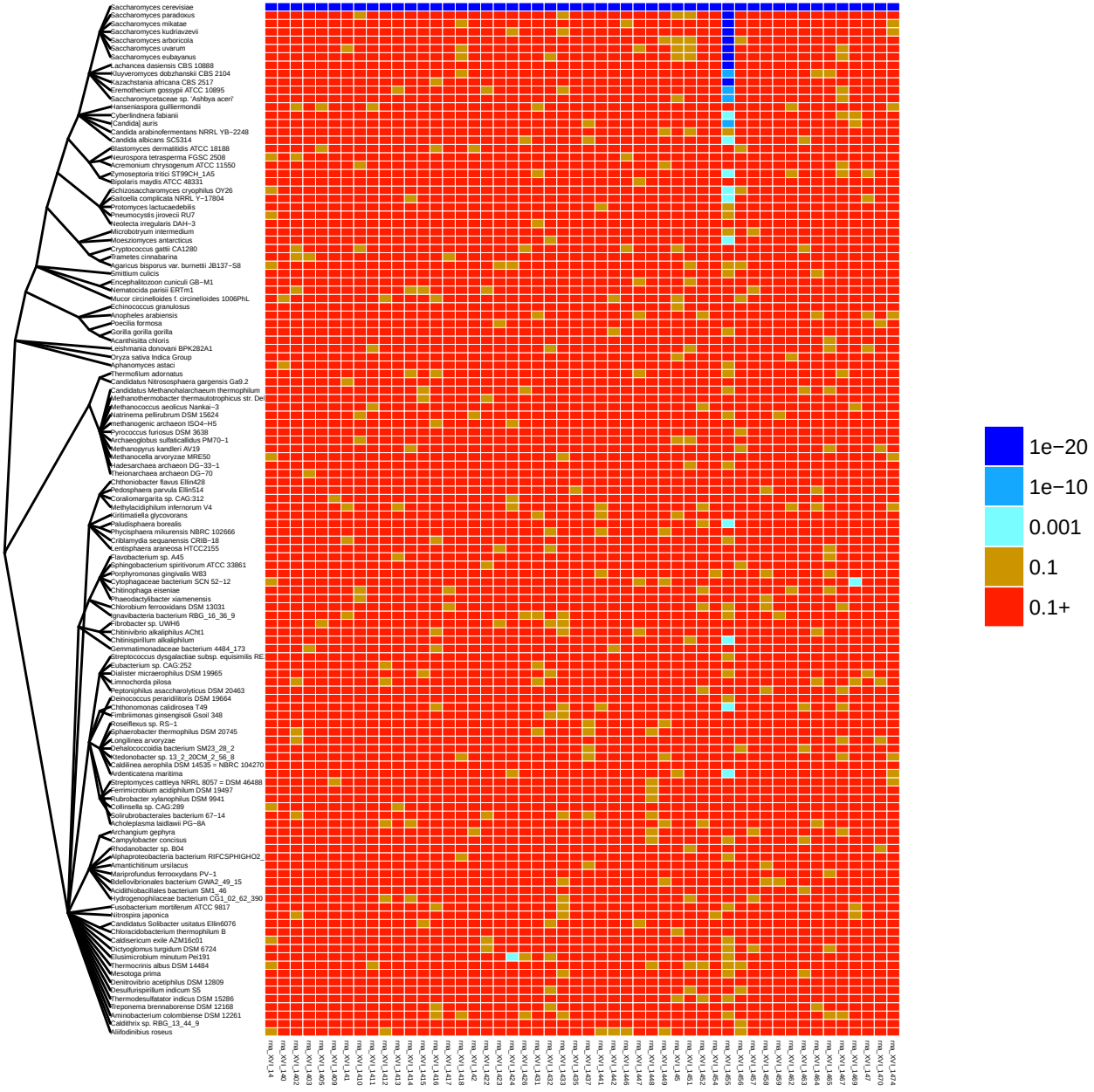

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thaumarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

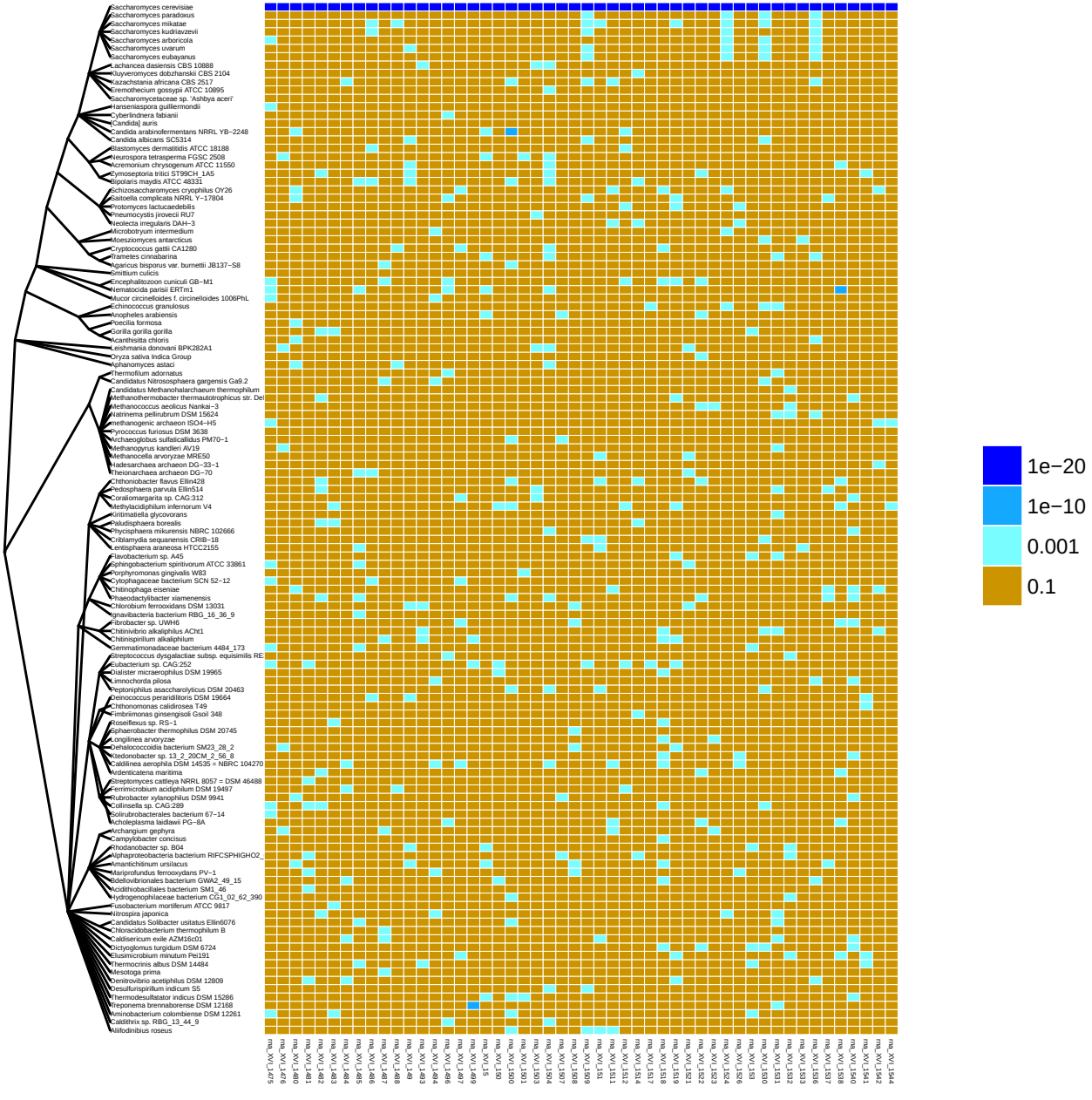

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
rna_XV_1105
rna_XV_1106
rna_XV_1107
rna_XV_1108
rna_XV_1109
rna_XV_1111
rna_XV_1110
rna_XV_1111
rna_XV_1112
rna_XV_1113
rna_XV_1114
rna_XV_1115
rna_XV_1116
rna_XV_1112
rna_XV_1127
rna_XV_1128
rna_XV_1129
rna_XV_1130
rna_XV_1131
rna_XV_1132
rna_XV_1133
rna_XV_1136
rna_XV_1137
rna_XV_1138
rna_XV_1139
rna_XV_114
rna_XV_1140
rna_XV_1141
rna_XV_1142
rna_XV_1143
rna_XV_1144
rna_XV_1146
rna_XV_1147
rna_XV_1148
rna_XV_1149
rna_XV_1150
rna_XV_1151
rna_XV_1155
rna_XV_1157
rna_XV_116
rna_XV_1160
rna_XV_1162
rna_XV_1164
rna_XV_1165
rna_XV_1166
rna_XV_1167
rna_XV_1171
rna_XV_1177
rna_XV_1181
rna_XV_1182
1e−20
1e−10
0.001
0.1
0.1+

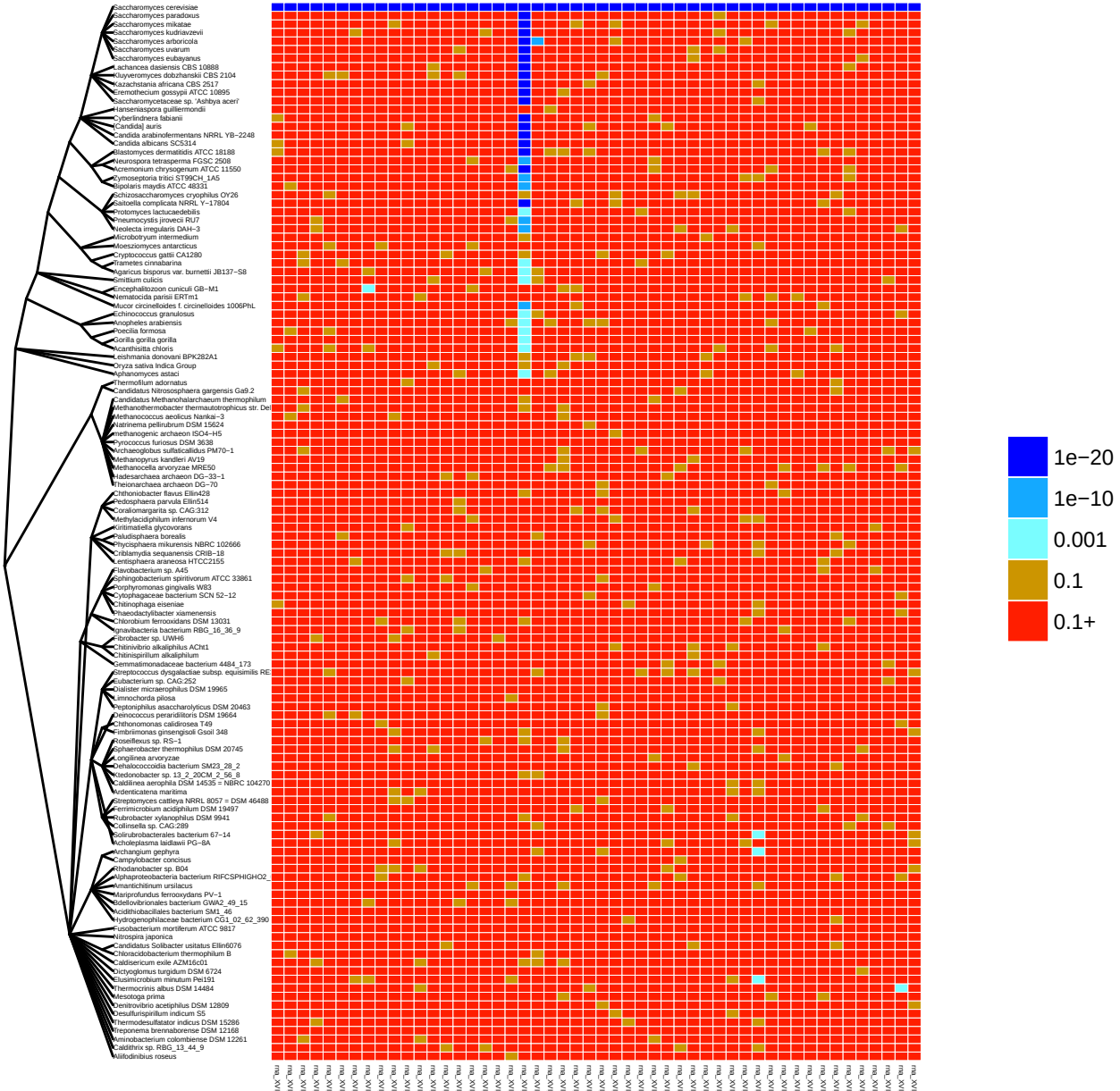

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_XV_1183
ma_XV_1184
ma_XV_1185
ma_XV_1186
ma_XV_1189
ma_XV_119
ma_XV_1192
ma_XV_1196
ma_XV_1197
ma_XV_1198
ma_XV_1199
ma_XV_12
ma_XV_1200
ma_XV_1202
ma_XV_1205
ma_XV_1206
ma_XV_1207
ma_XV_1208
ma_XV_1209
ma_XV_121
ma_XV_1211
ma_XV_1212
ma_XV_1213
ma_XV_1217
ma_XV_1218
ma_XV_1222
ma_XV_1224
ma_XV_1225
ma_XV_1226
ma_XV_1227
ma_XV_1228
ma_XV_1230
ma_XV_1231
ma_XV_1235
ma_XV_1236
ma_XV_1237
ma_XV_1238
ma_XV_124
ma_XV_1241
ma_XV_1242
ma_XV_1243
ma_XV_1246
ma_XV_1247
ma_XV_1248
ma_XV_1249
ma_XV_1250
ma_XV_1251
ma_XV_1252
ma_XV_1253
ma_XV_1254
1e−20
1e−10
0.001
0.1
0.1+

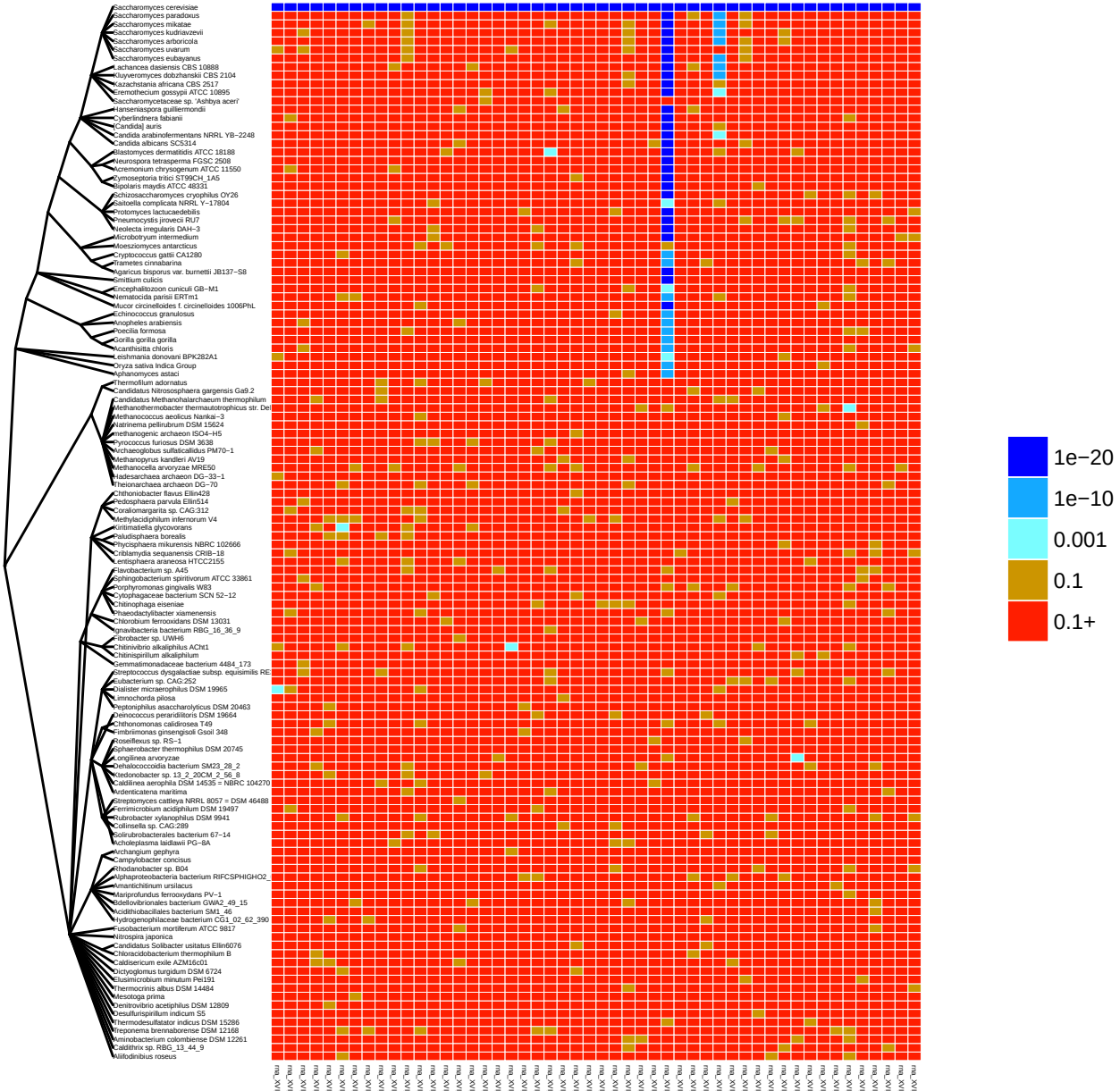

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
ma_XV_1255
ma_XV_1256
ma_XV_1257
ma_XV_126
ma_XV_1263
ma_XV_1264
ma_XV_1265
ma_XV_1267
ma_XV_1268
ma_XV_1269
ma_XV_127
ma_XV_1270
ma_XV_1274
ma_XV_1275
ma_XV_1276
ma_XV_1279
ma_XV_128
ma_XV_1280
ma_XV_1281
ma_XV_1284
ma_XV_1291
ma_XV_1292
ma_XV_1293
ma_XV_1294
ma_XV_1296
ma_XV_1297
ma_XV_1298
ma_XV_1299
ma_XV_13
ma_XV_130
ma_XV_1300
ma_XV_1301
ma_XV_1303
ma_XV_1304
ma_XV_1305
ma_XV_1306
ma_XV_1307
ma_XV_1308
ma_XV_1309
ma_XV_1310
ma_XV_1312
ma_XV_1313
ma_XV_1314
ma_XV_1319
ma_XV_132
ma_XV_1320
ma_XV_1321
ma_XV_1323
ma_XV_1324
ma_XV_1326
1e−20
1e−10
0.001
0.1
0.1+

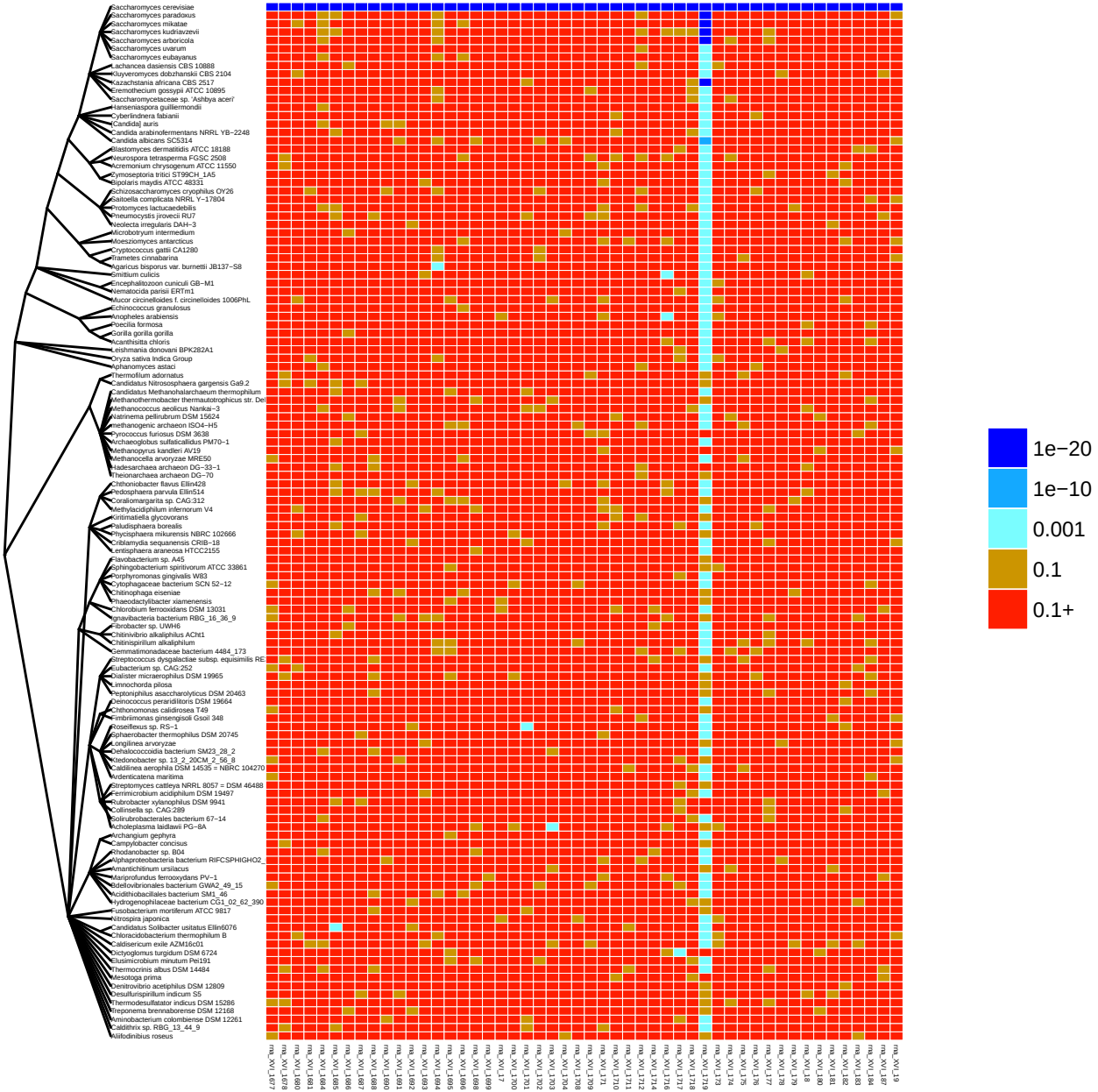

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Methanomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignisphaera aggerensis
1e−20
1e−10
0.001
0.1
0.1+

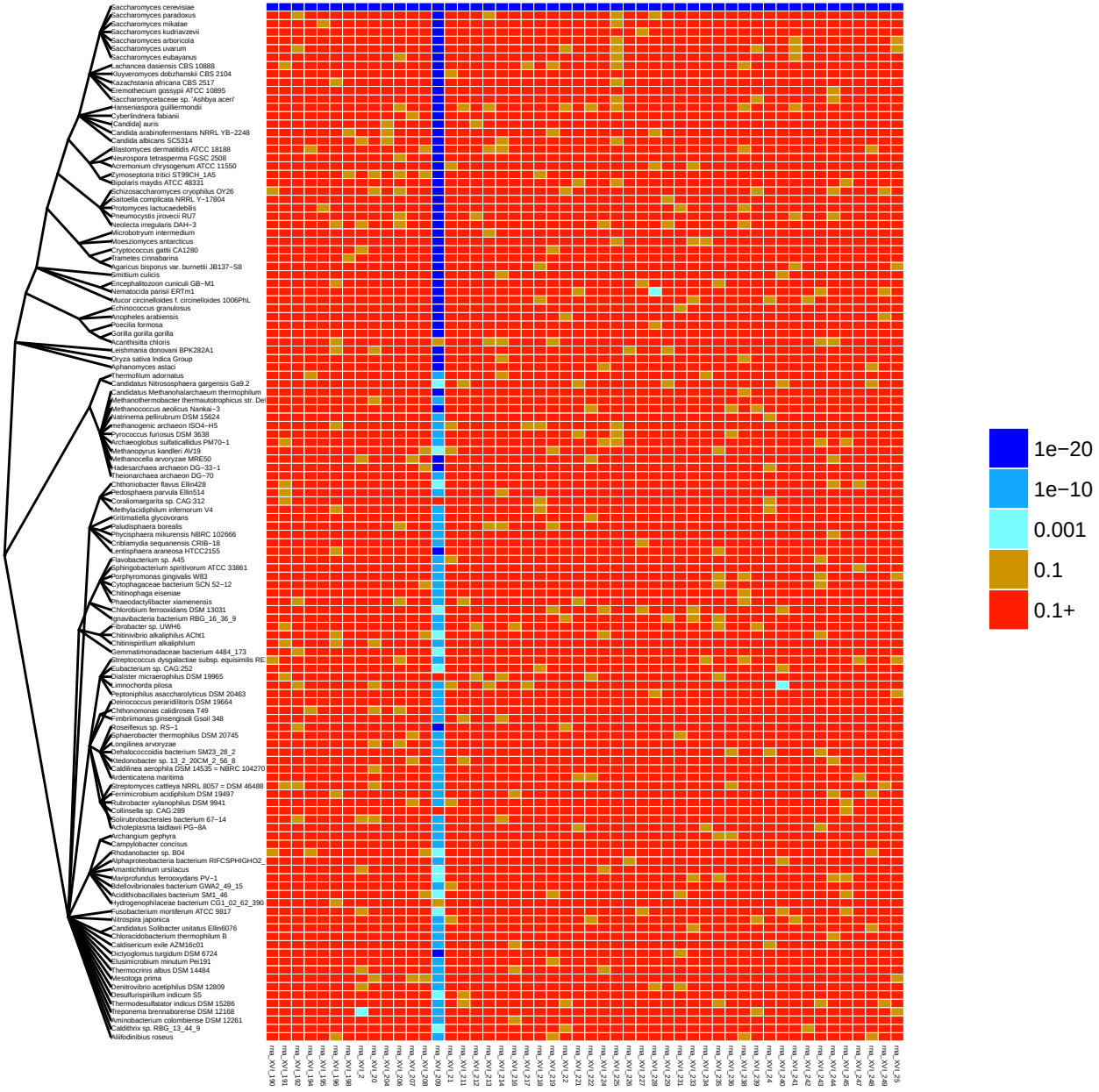

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+
mu_XV_L4
mu_XV_L40
mu_XV_L402
mu_XV_L403
mu_XV_L405
mu_XV_L409
mu_XV_L41
mu_XV_L410
mu_XV_L411
mu_XV_L412
mu_XV_L413
mu_XV_L414
mu_XV_L415
mu_XV_L416
mu_XV_L417
mu_XV_L418
mu_XV_L42
mu_XV_L422
mu_XV_L423
mu_XV_L424
mu_XV_L426
mu_XV_L431
mu_XV_L432
mu_XV_L433
mu_XV_L435
mu_XV_L437
mu_XV_L441
mu_XV_L442
mu_XV_L446
mu_XV_L447
mu_XV_L448
mu_XV_L449
mu_XV_L45
mu_XV_L451
mu_XV_L452
mu_XV_L454
mu_XV_L455
mu_XV_L456
mu_XV_L457
mu_XV_L458
mu_XV_L459
mu_XV_L462
mu_XV_L463
mu_XV_L464
mu_XV_L465
mu_XV_L467
mu_XV_L469
mu_XV_L47
mu_XV_L470
mu_XV_L474

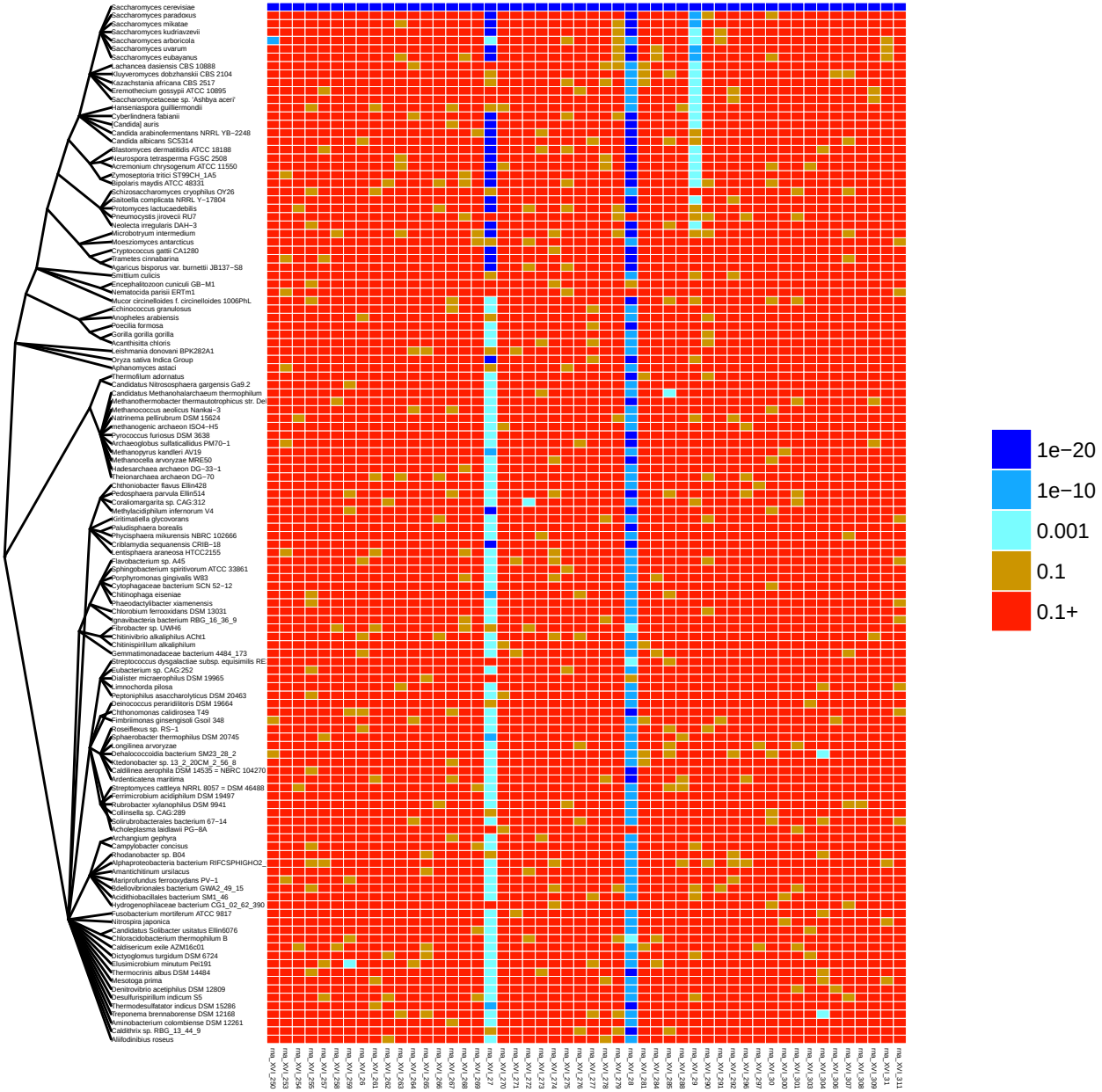

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrosospharaea gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinibius roseus
1e−20
1e−10
0.001
0.1

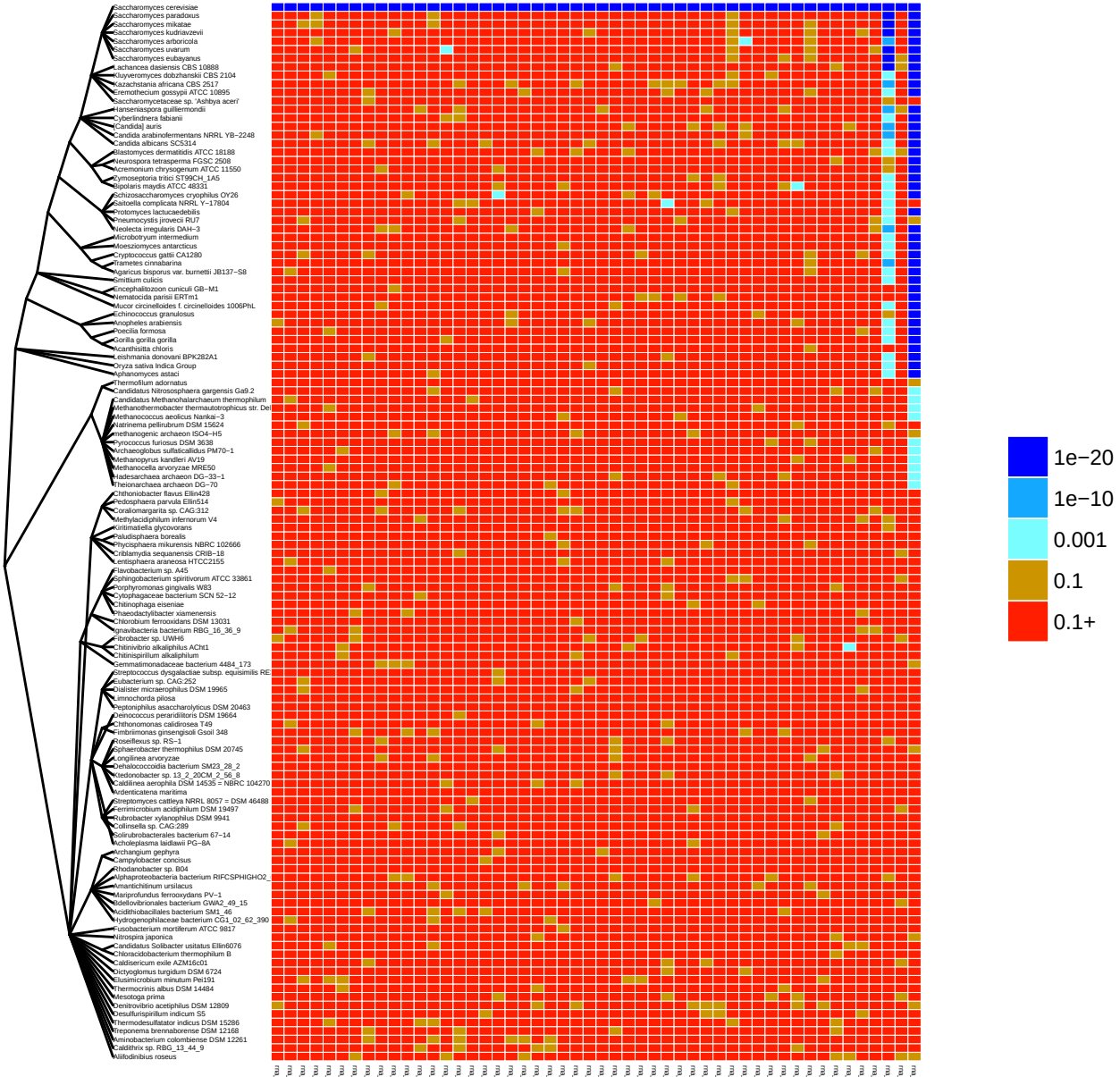

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
ma_XV_1548
ma_XV_1549
ma_XV_1550
ma_XV_1551
ma_XV_1552
ma_XV_1553
ma_XV_1554
ma_XV_1555
ma_XV_1557
ma_XV_1562
ma_XV_1568
ma_XV_1569
ma_XV_1570
ma_XV_1572
ma_XV_1573
ma_XV_1574
ma_XV_1576
ma_XV_1577
ma_XV_1580
ma_XV_1582
ma_XV_1583
ma_XV_1584
ma_XV_1585
ma_XV_1586
ma_XV_1587
ma_XV_1589
ma_XV_1590
ma_XV_1591
ma_XV_1592
ma_XV_1594
ma_XV_1595
ma_XV_1596
ma_XV_1598
ma_XV_1599
ma_XV_1600
ma_XV_1601
ma_XV_1602
ma_XV_1603
ma_XV_1604
ma_XV_1607
ma_XV_1608
ma_XV_1609
ma_XV_1610
ma_XV_1611
ma_XV_1612
ma_XV_1613
1e−20
1e−10
0.001
0.1
0.1+

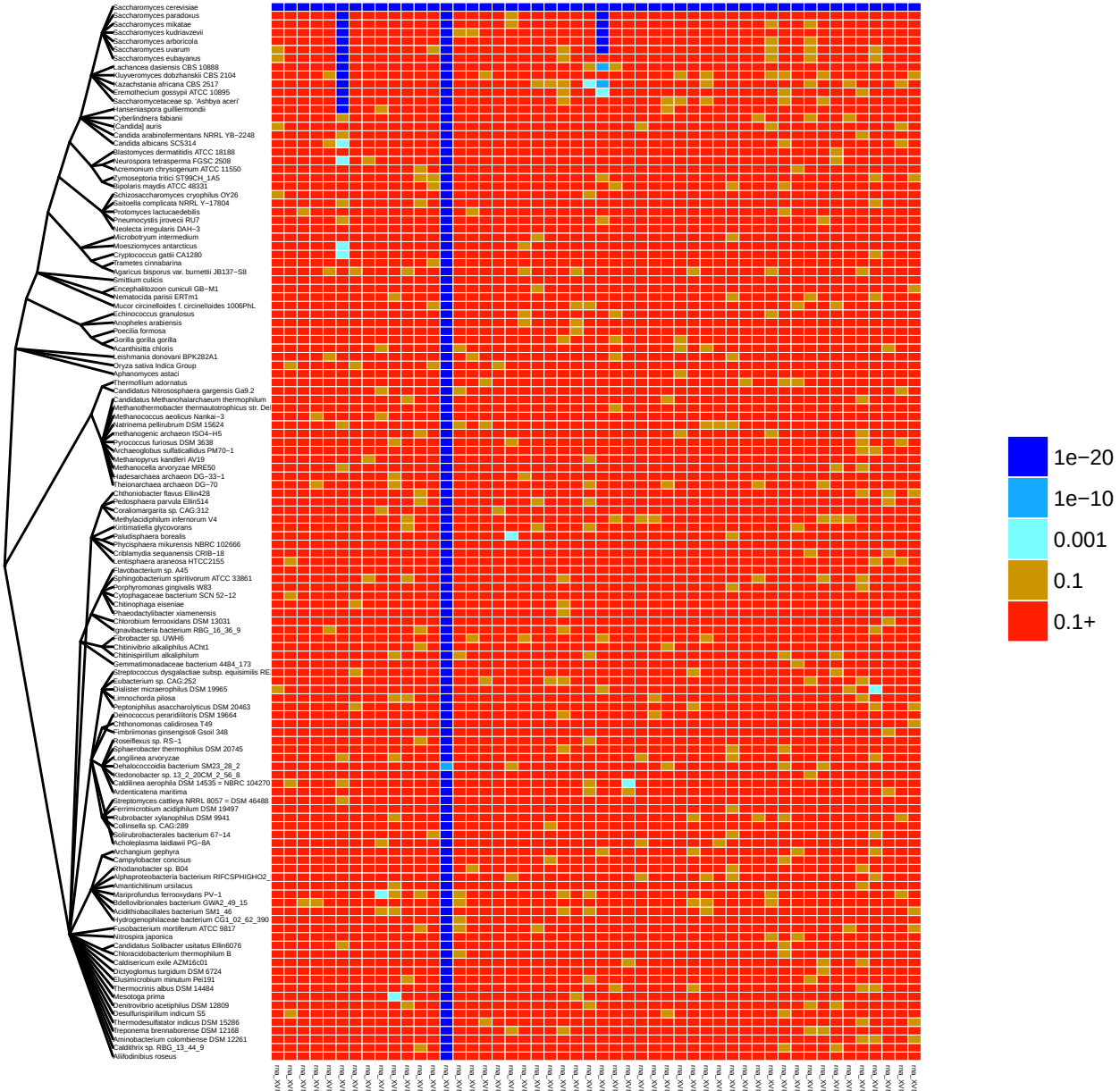

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niilofindinibius roseus
mu_XV_1_814
mu_XV_1_815
mu_XV_1_816
mu_XV_1_817
mu_XV_1_818
mu_XV_1_819
mu_XV_1_82
mu_XV_1_820
mu_XV_1_821
mu_XV_1_822
mu_XV_1_823
mu_XV_1_824
mu_XV_1_825
mu_XV_1_826
mu_XV_1_828
mu_XV_1_829
mu_XV_1_83
mu_XV_1_833
mu_XV_1_834
mu_XV_1_837
mu_XV_1_838
mu_XV_1_840
mu_XV_1_841
mu_XV_1_842
mu_XV_1_844
mu_XV_1_847
mu_XV_1_848
mu_XV_1_85
mu_XV_1_850
mu_XV_1_851
mu_XV_1_852
mu_XV_1_854
mu_XV_1_855
mu_XV_1_858
mu_XV_1_859
mu_XV_1_86
mu_XV_1_860
mu_XV_1_861
mu_XV_1_862
mu_XV_1_863
mu_XV_1_864
mu_XV_1_865
mu_XV_1_866
mu_XV_1_867
mu_XV_1_868
mu_XV_1_869
mu_XV_1_87
mu_XV_1_870
mu_XV_1_871
mu_XV_1_874
mu_XV_1_875
1e−20
1e−10
0.001
0.1
0.1+

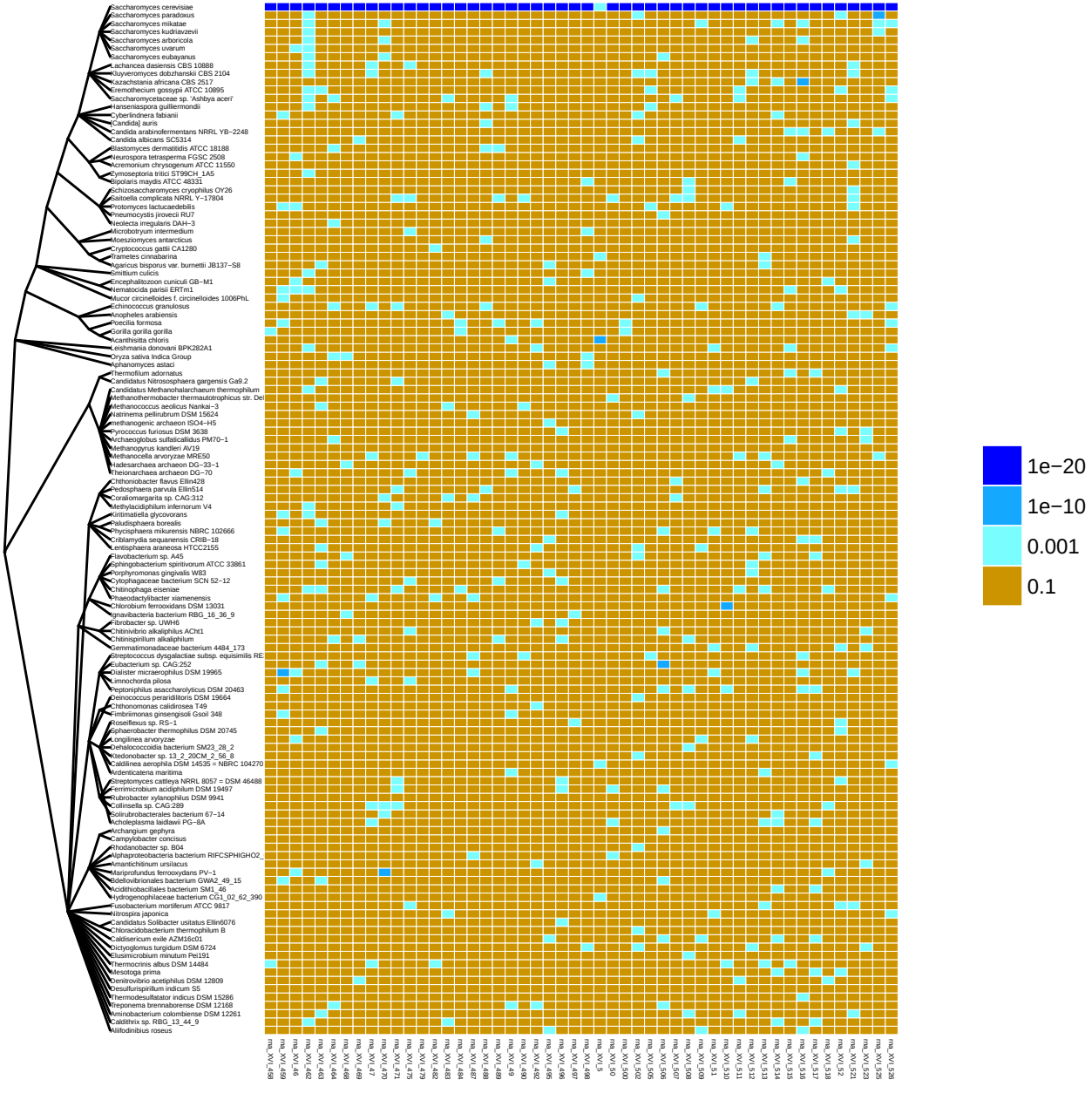

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Sporopalaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
ma_XV_1677
ma_XV_1679
ma_XV_1680
ma_XV_1681
ma_XV_1684
ma_XV_1685
ma_XV_1686
ma_XV_1687
ma_XV_1688
ma_XV_1690
ma_XV_1691
ma_XV_1692
ma_XV_1693
ma_XV_1694
ma_XV_1695
ma_XV_1696
ma_XV_1698
ma_XV_1699
ma_XV_17
ma_XV_1700
ma_XV_1701
ma_XV_1702
ma_XV_1703
ma_XV_1704
ma_XV_1708
ma_XV_1709
ma_XV_171
ma_XV_1710
ma_XV_1711
ma_XV_1712
ma_XV_1714
ma_XV_1716
ma_XV_1717
ma_XV_1718
ma_XV_1719
ma_XV_173
ma_XV_174
ma_XV_175
ma_XV_176
ma_XV_177
ma_XV_178
ma_XV_179
ma_XV_18
ma_XV_180
ma_XV_181
ma_XV_182
ma_XV_183
ma_XV_184
ma_XV_187
ma_XV_19
1e−20
1e−10
0.001
0.1
0.1+

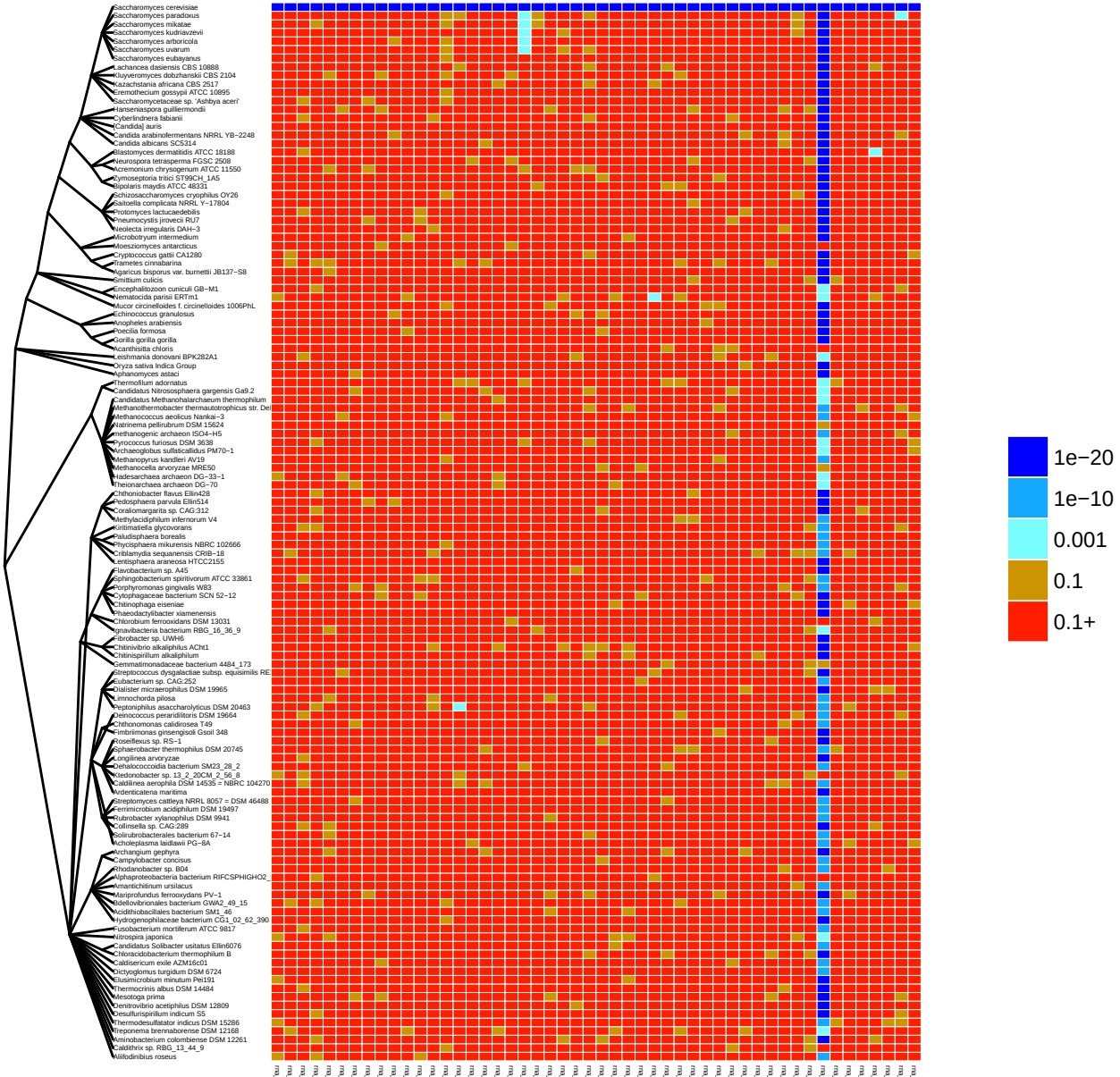

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
ma_XVI_190
ma_XVI_191
ma_XVI_192
ma_XVI_194
ma_XVI_195
ma_XVI_196
ma_XVI_198
ma_XVI_2
ma_XVI_20
ma_XVI_204
ma_XVI_206
ma_XVI_207
ma_XVI_208
ma_XVI_209
ma_XVI_21
ma_XVI_211
ma_XVI_212
ma_XVI_213
ma_XVI_214
ma_XVI_216
ma_XVI_217
ma_XVI_218
ma_XVI_219
ma_XVI_22
ma_XVI_221
ma_XVI_222
ma_XVI_224
ma_XVI_225
ma_XVI_226
ma_XVI_227
ma_XVI_228
ma_XVI_229
ma_XVI_231
ma_XVI_233
ma_XVI_234
ma_XVI_235
ma_XVI_236
ma_XVI_238
ma_XVI_239
ma_XVI_24
ma_XVI_240
ma_XVI_241
ma_XVI_242
ma_XVI_243
ma_XVI_244
ma_XVI_245
ma_XVI_247
ma_XVI_248
ma_XVI_249
ma_XVI_25
1e−20
1e−10
0.001
0.1
0.1+

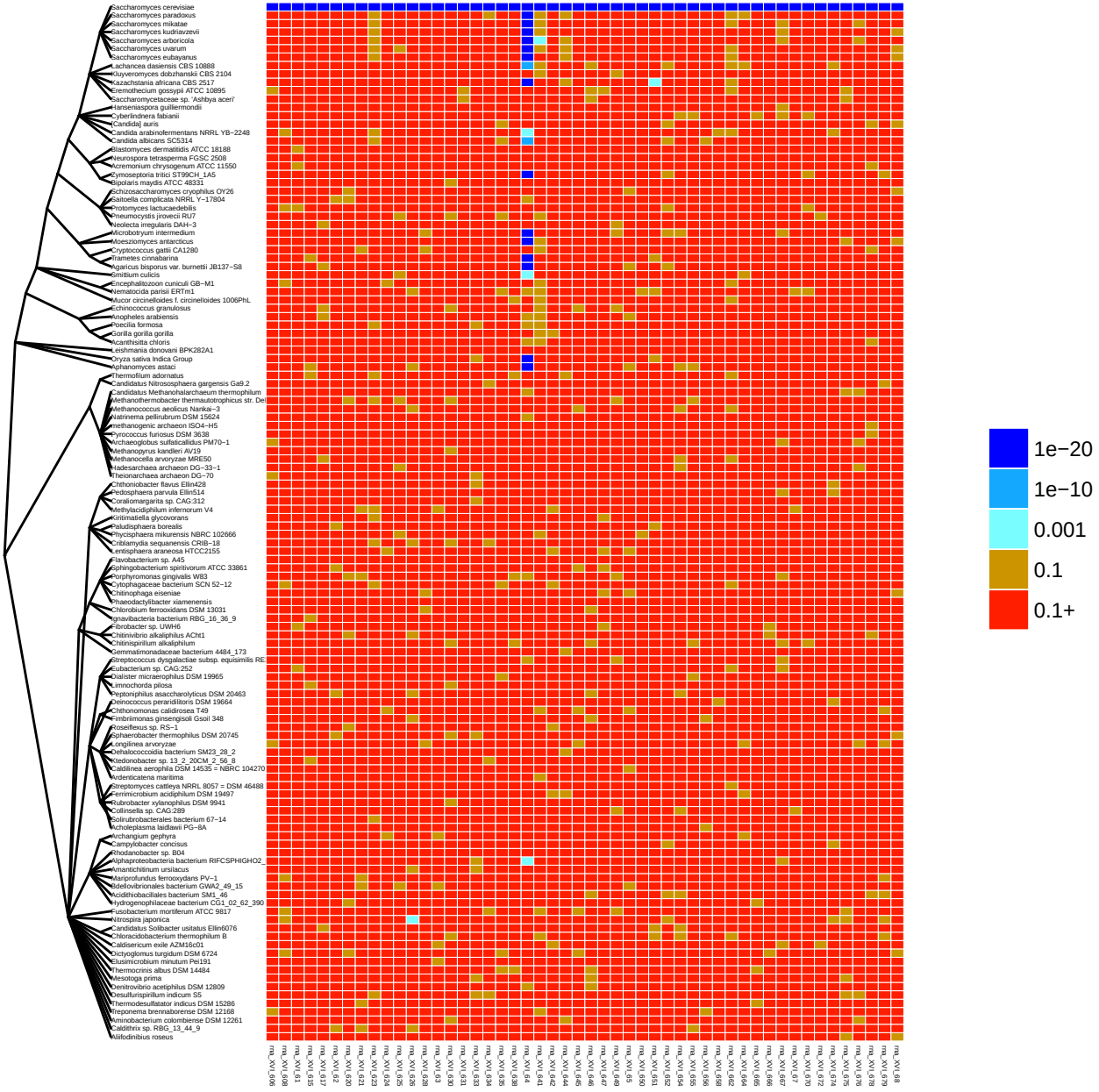

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Candidatus Kiritimatiella bacterium 2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+
mu_XV_250
mu_XV_253
mu_XV_254
mu_XV_255
mu_XV_257
mu_XV_258
mu_XV_259
mu_XV_26
mu_XV_261
mu_XV_262
mu_XV_263
mu_XV_264
mu_XV_265
mu_XV_266
mu_XV_267
mu_XV_268
mu_XV_269
mu_XV_27
mu_XV_270
mu_XV_271
mu_XV_272
mu_XV_273
mu_XV_274
mu_XV_275
mu_XV_276
mu_XV_277
mu_XV_278
mu_XV_279
mu_XV_28
mu_XV_281
mu_XV_284
mu_XV_285
mu_XV_288
mu_XV_29
mu_XV_290
mu_XV_291
mu_XV_292
mu_XV_296
mu_XV_297
mu_XV_30
mu_XV_300
mu_XV_301
mu_XV_303
mu_XV_304
mu_XV_306
mu_XV_307
mu_XV_308
mu_XV_309
mu_XV_31
mu_XV_311

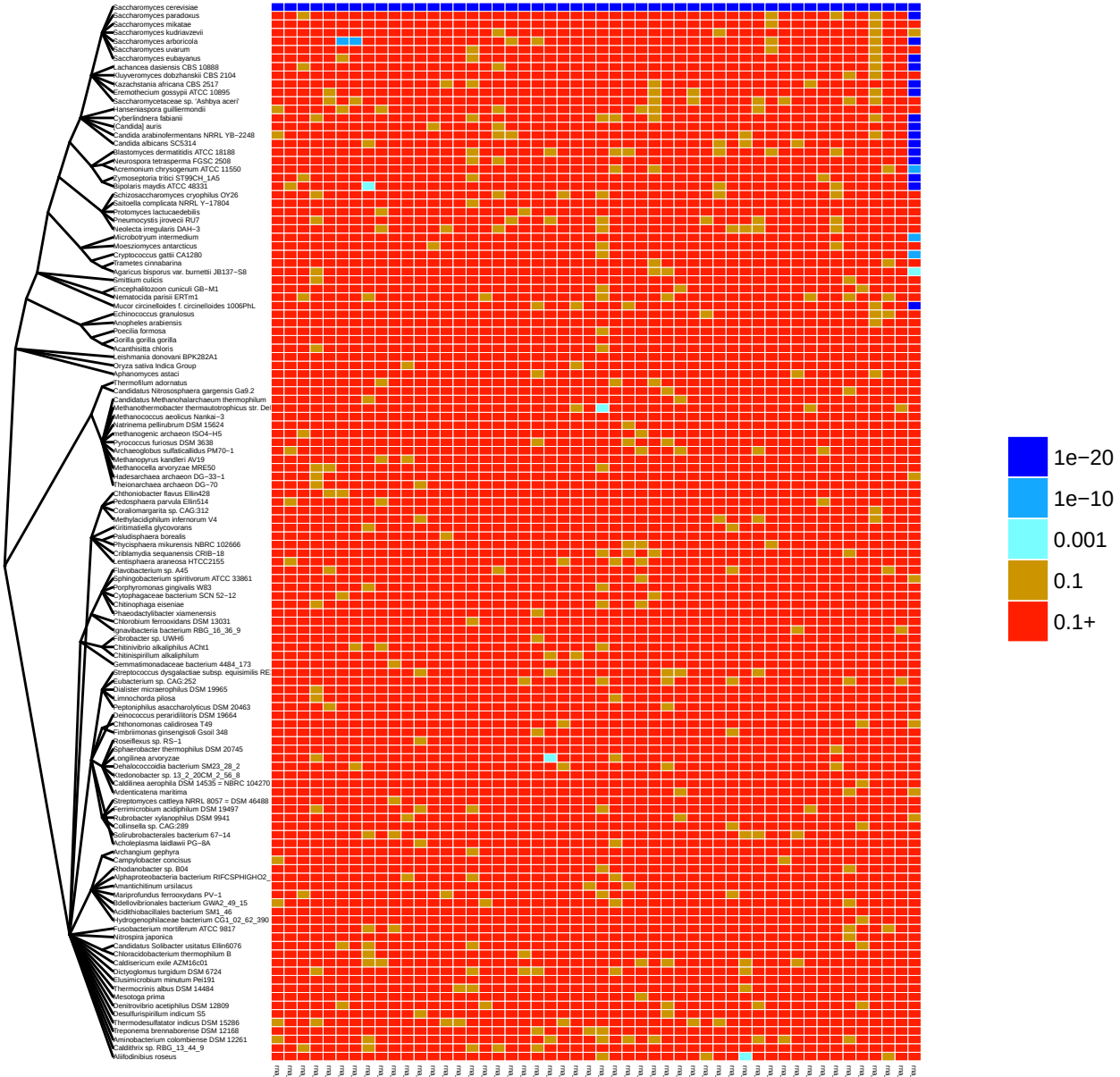

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacillus roseus
ma_XV_313
ma_XV_314
ma_XV_316
ma_XV_317
ma_XV_318
ma_XV_319
ma_XV_32
ma_XV_320
ma_XV_321
ma_XV_322
ma_XV_323
ma_XV_327
ma_XV_328
ma_XV_329
ma_XV_330
ma_XV_331
ma_XV_332
ma_XV_333
ma_XV_334
ma_XV_336
ma_XV_337
ma_XV_338
ma_XV_339
ma_XV_343
ma_XV_345
ma_XV_347
ma_XV_348
ma_XV_349
ma_XV_35
ma_XV_350
ma_XV_355
ma_XV_356
ma_XV_357
ma_XV_36
ma_XV_360
ma_XV_361
ma_XV_364
ma_XV_368
ma_XV_369
ma_XV_37
ma_XV_370
ma_XV_371
ma_XV_372
ma_XV_373
ma_XV_374
ma_XV_375
ma_XV_376
ma_XV_377
ma_XV_378
ma_XV_379
1e−20
1e−10
0.001
0.1
0.1+

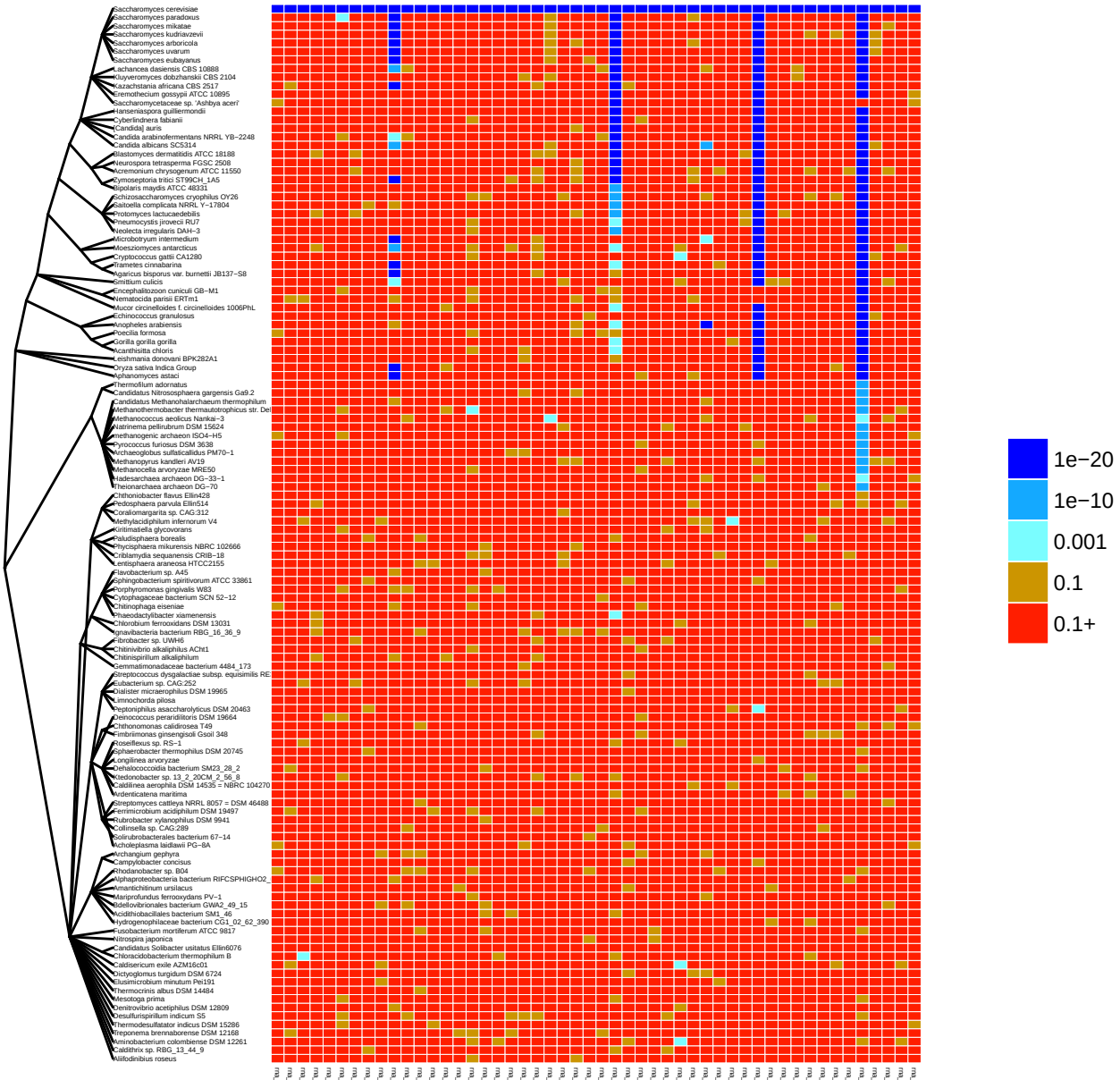

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
ma_XV_378
ma_XV_380
ma_XV_381
ma_XV_382
ma_XV_385
ma_XV_386
ma_XV_391
ma_XV_392
ma_XV_393
ma_XV_394
ma_XV_397
ma_XV_399
ma_XV_4
ma_XV_40
ma_XV_401
ma_XV_405
ma_XV_406
ma_XV_407
ma_XV_409
ma_XV_410
ma_XV_411
ma_XV_412
ma_XV_414
ma_XV_416
ma_XV_417
ma_XV_418
ma_XV_419
ma_XV_421
ma_XV_422
ma_XV_423
ma_XV_424
ma_XV_425
ma_XV_426
ma_XV_427
ma_XV_429
ma_XV_433
ma_XV_434
ma_XV_435
ma_XV_436
ma_XV_437
ma_XV_442
ma_XV_445
ma_XV_446
ma_XV_447
ma_XV_448
ma_XV_449
ma_XV_450
ma_XV_453
ma_XV_455
ma_XV_457
1e−20
1e−10
0.001
0.1
0.1+

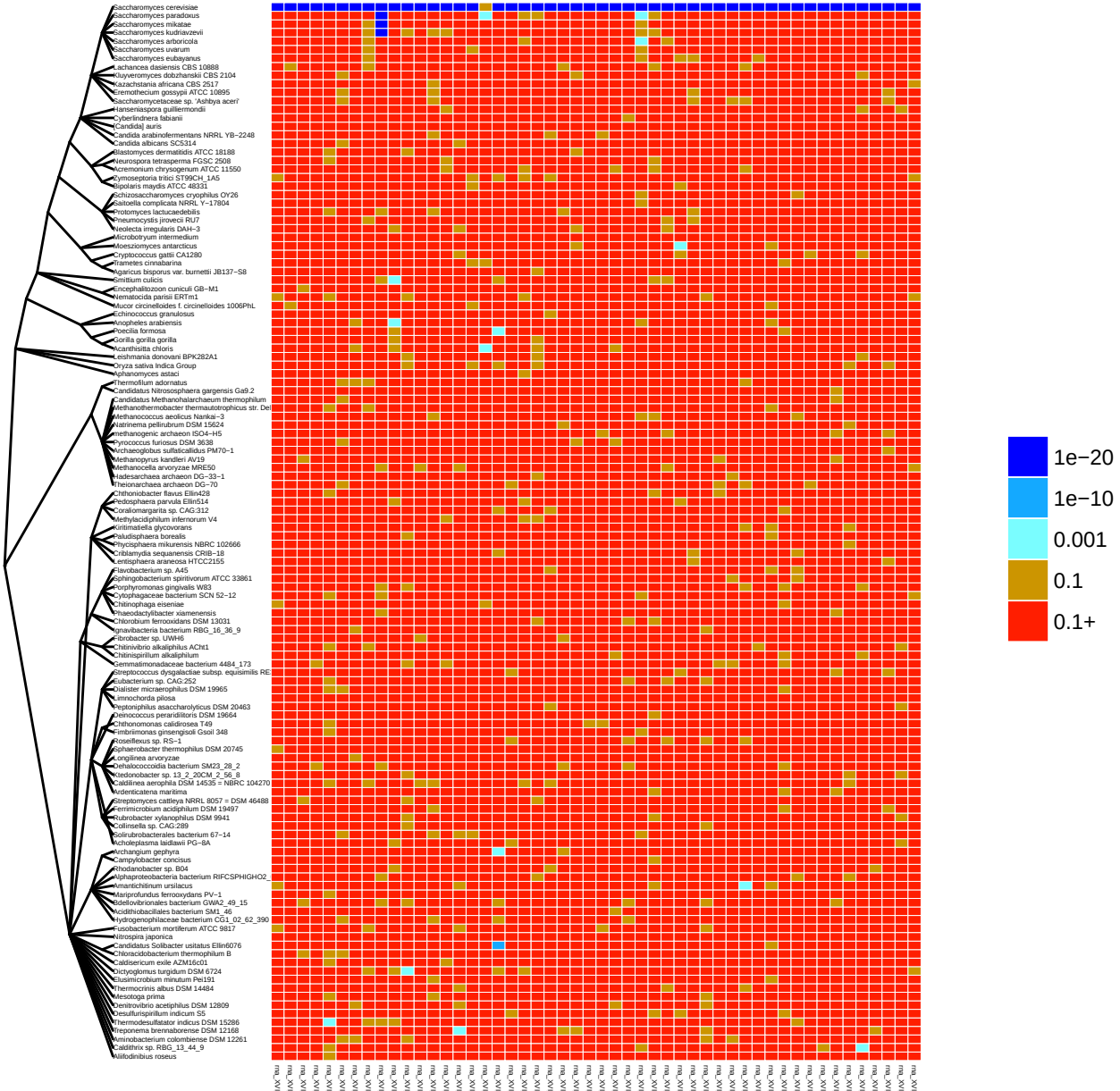

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1

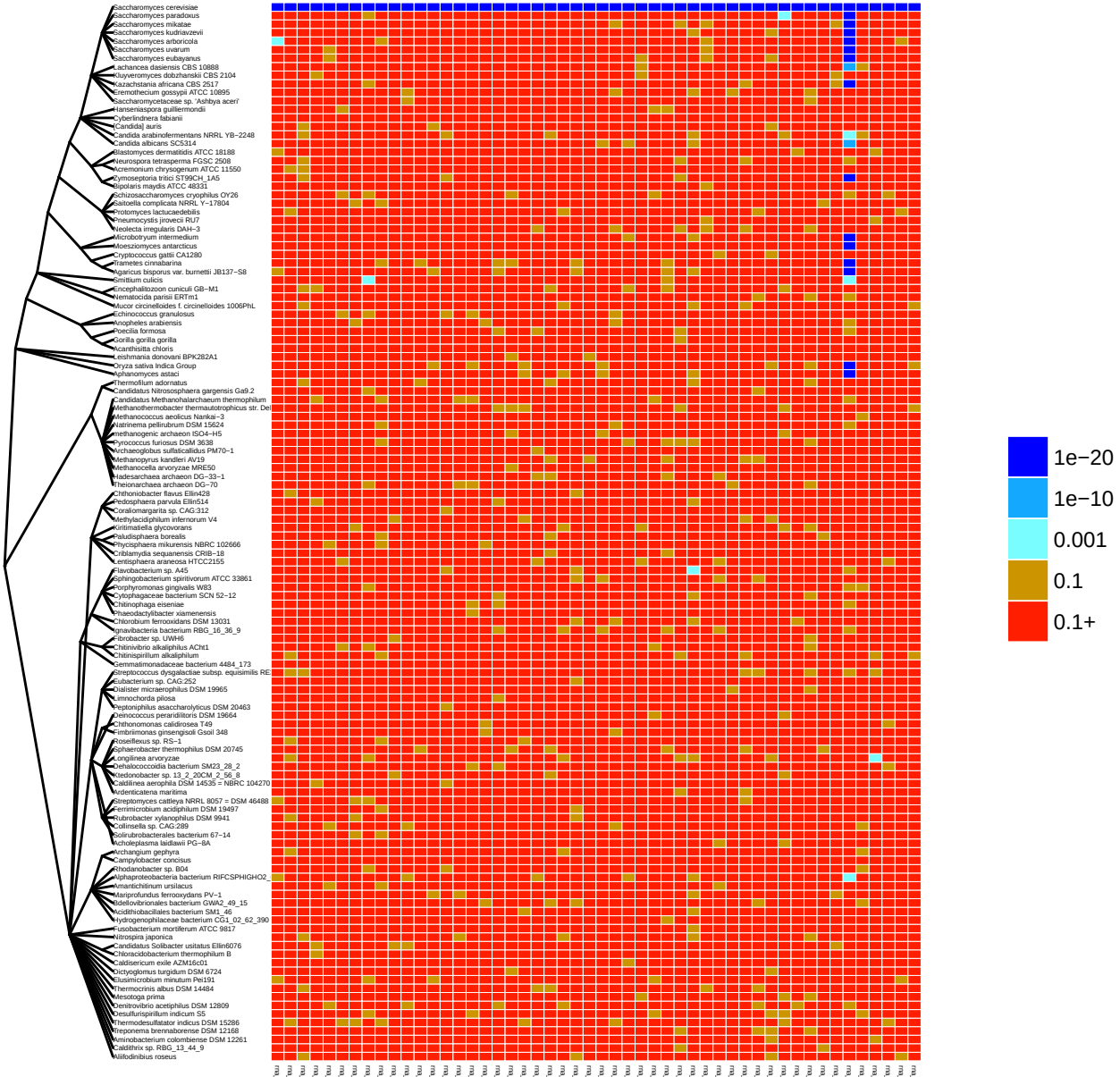

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginomycotina
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales
Thermoplasma acidophilum
Thermoplasma volcanium GSS1
Thermoplasma sp. Tok
Thermoplasma sp. Tok
Thermoplasma sp. Tok

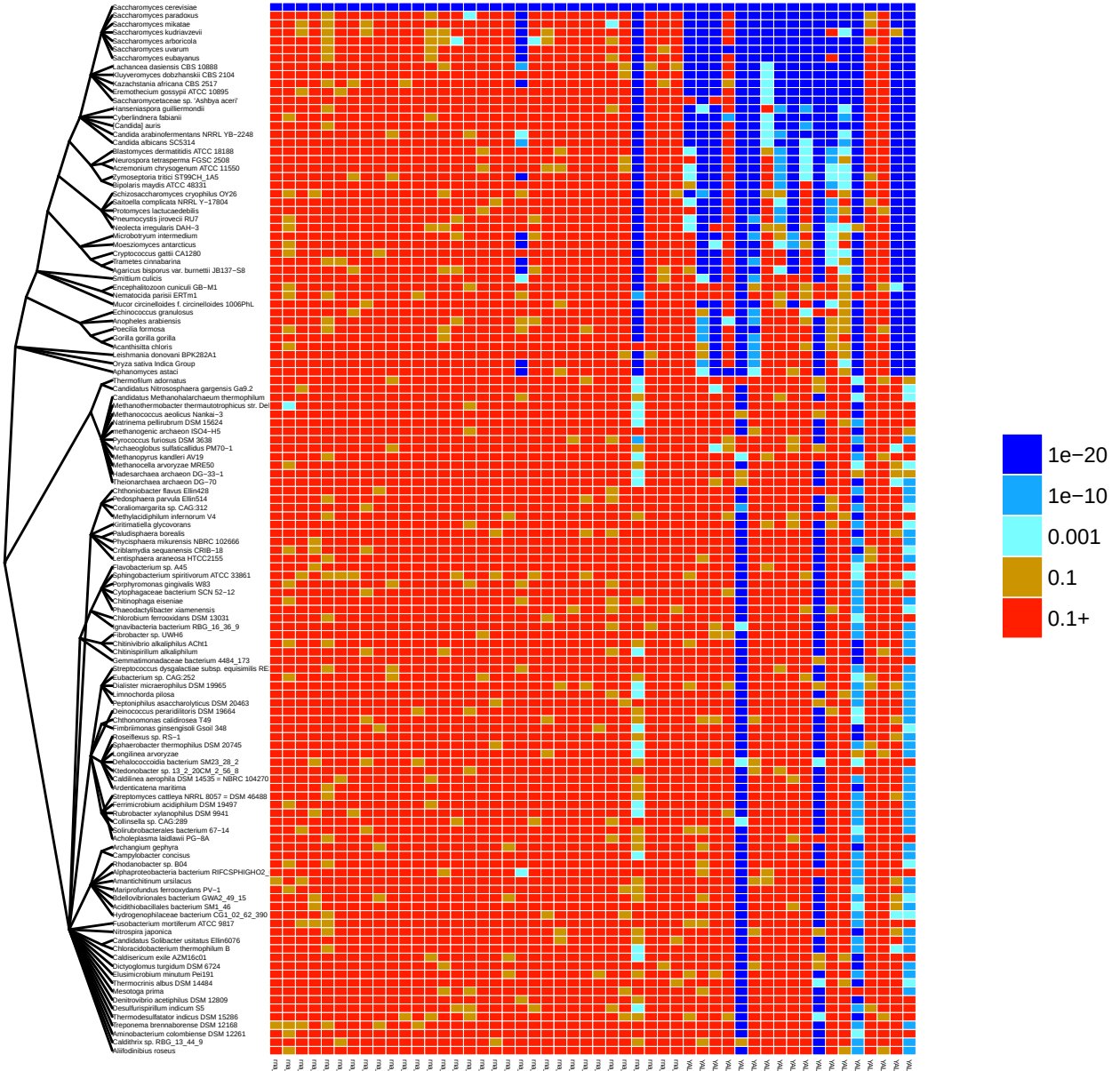

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetraspermа FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoplasmatales archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylaciphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR
Candidatus Nitrosotalea devanaterra
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosotenuis cloacamonas
Candidatus Nitrosotenuis chungbukensis
Candidatus Nitrosotenuis sp. DW1
Candidatus Nitrosotenuis sp. R4
Candidatus Nitrosotenuis sp. J07B453
Candidatus Nitrosotenuis sp. J07B434
Candidatus Nitrosotenuis sp. J07B416
Candidatus Nitrosotenuis sp. J07B420
Candidatus Nitrosotenuis sp. J07B418
Candidatus Nitrosotenuis sp. J07B432
Candidatus Nitrosotenuis sp. J07B417
Candidatus Nitrosotenuis sp. J07B421
Candidatus Nitrosotenuis sp. J07B422
Candidatus Nitrosotenuis sp. J07B419
Candidatus Nitrosotenuis sp. J07B431
Candidatus Nitrosotenuis sp. J07B430
Candidatus Nitrosotenuis sp. J07B433
Candidatus Nitrosotenuis sp. J07B435
Candidatus Nitrosotenuis sp. J07B436
Candidatus Nitrosotenuis sp. J07B437
Candidatus Nitrosotenuis sp. J07B438
Candidatus Nitrosotenuis sp. J07B439
Candidatus Nitrosotenuis sp. J07B440
Candidatus Nitrosotenuis sp. J07B441
Candidatus Nitrosotenuis sp. J07B442
Candidatus Nitrosotenuis sp. J07B443
Candidatus Nitrosotenuis sp. J07B444
Candidatus Nitrosotenuis sp. J07B445
Candidatus Nitrosotenuis sp. J07B446
Candidatus Nitrosotenuis sp. J07B447
Candidatus Nitrosotenuis sp. J07B448
Candidatus Nitrosotenuis sp. J07B449
Candidatus Nitrosotenuis sp. J07B450
Candidatus Nitrosotenuis sp. J07B451
Candidatus Nitrosotenuis sp. J07B452
Candidatus Nitrosotenuis sp. J07B454
Candidatus Nitrosotenuis sp. J07B455
Candidatus Nitrosotenuis sp. J07B456
Candidatus Nitrosotenuis sp. J07B458
Candidatus Nitrosotenuis sp. J07B462
Candidatus Nitrosotenuis sp. J07B464
Candidatus Nitrosotenuis sp. J07B465
Candidatus Nitrosotenuis sp. J07B466
Candidatus Nitrosotenuis sp. J07B467
Candidatus Nitrosotenuis sp. J07B57
Candidatus Nitrosotenuis sp. J07B570
Candidatus Nitrosotenuis sp. J07B572
Candidatus Nitrosotenuis sp. J07B574
Candidatus Nitrosotenuis sp. J07B575
Candidatus Nitrosotenuis sp. J07B576
Candidatus Nitrosotenuis sp. J07B578
Candidatus Nitrosotenuis sp. J07B579
Candidatus Nitrosotenuis sp. J07B68
1e−20
1e−10
0.001
0.1
0.1+

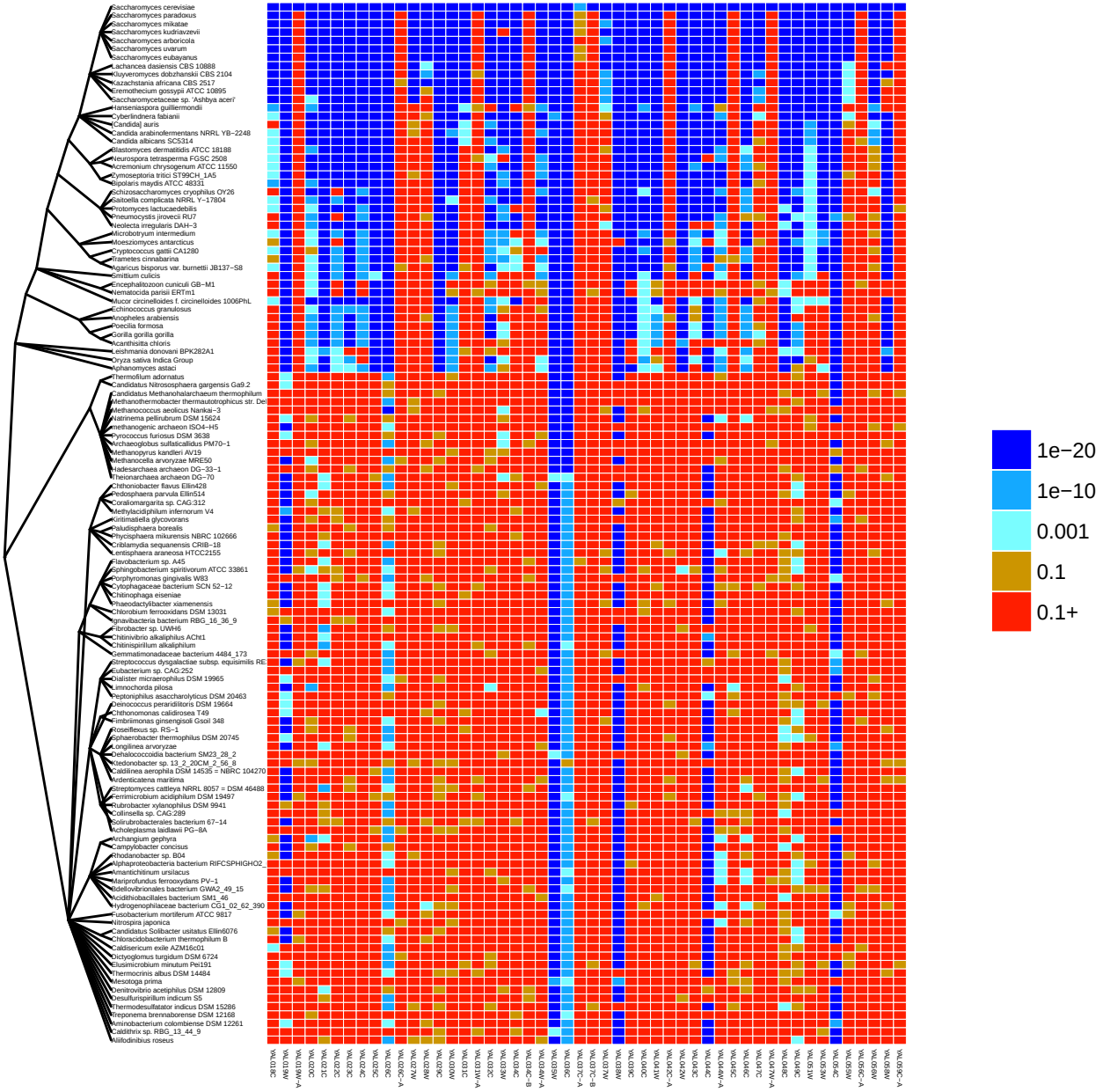

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
mu_XV_7_80
mu_XV_7_81
mu_XV_7_82
mu_XV_7_86
mu_XV_7_87
mu_XV_7_91
mu_XV_7_92
mu_XV_7_95
mu_XV_7_96
mu_XV_7_98
mu_XV_7_99
mu_XV_7_7
mu_XV_7_70
mu_XV_7_71
mu_XV_7_03
mu_XV_7_04
mu_XV_7_11
mu_XV_7_111
mu_XV_7_12
mu_XV_7_15
mu_XV_7_21
mu_XV_7_22
mu_XV_7_23
mu_XV_7_24
mu_XV_7_25
mu_XV_7_26
mu_XV_7_27
mu_XV_7_28
mu_XV_7_29
mu_XV_7_30
mu_XV_7_31
mu_XV_7_32
mu_XV_7_34
mu_XV_7_35
mu_XV_7_37
mu_XV_7_38
mu_XV_7_39
mu_XV_7_4
mu_XV_7_40
mu_XV_7_41
mu_XV_7_42
mu_XV_7_44
mu_XV_7_45
mu_XV_7_46
mu_XV_7_47
mu_XV_7_49
mu_XV_7_5
mu_XV_7_50
mu_XV_7_52
mu_XV_7_53
1e−20
1e−10
0.001
0.1
0.1+

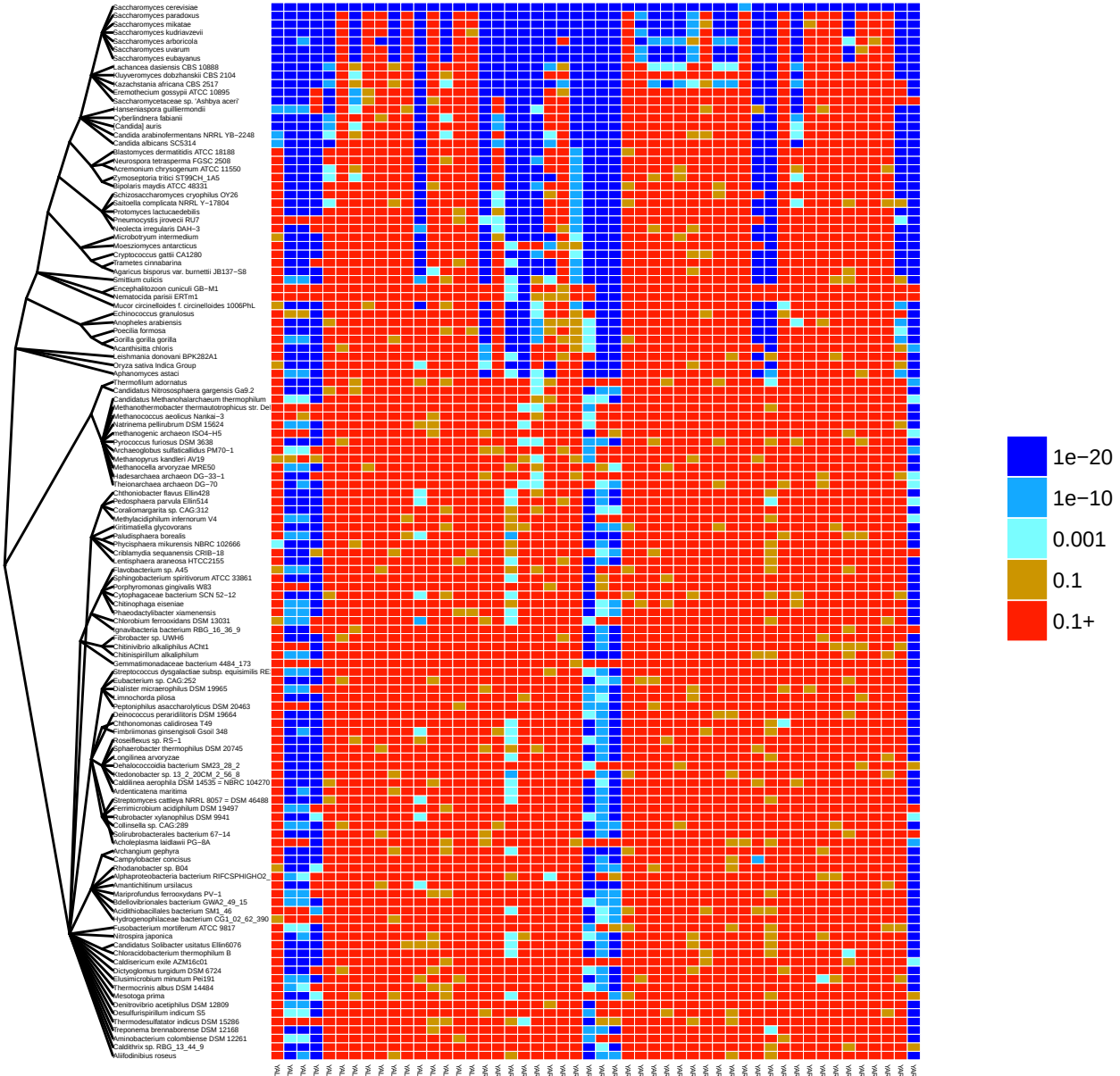

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thaumarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physcisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
mu_XX_7_95
mu_XX_7_57
mu_XX_7_65
mu_XX_7_69
mu_XX_7_90
mu_XX_7_94
mu_XX_7_95
mu_XX_7_96
mu_XX_7_97
mu_XX_7_68
mu_XX_7_69
mu_XX_7_77
mu_XX_7_70
mu_XX_7_71
mu_XX_7_72
mu_XX_7_73
mu_XX_7_74
mu_XX_7_77
mu_XX_7_78
mu_XX_7_8
mu_XX_7_80
mu_XX_7_81
mu_XX_7_82
mu_XX_7_83
mu_XX_7_86
mu_XX_7_87
mu_XX_7_88
mu_XX_7_89
mu_XX_7_6
mu_XX_7_90
mu_XX_7_91
mu_XX_7_92
mu_XX_7_98
mu_XX_8_8
mu_XX_8_100
mu_XX_8_101
mu_XX_8_102
mu_XX_8_103
mu_XX_8_104
mu_XX_8_107
mu_XX_8_109
mu_XX_8_81
mu_XX_8_110
mu_XX_8_111
mu_XX_8_113
mu_XX_8_117
mu_XX_8_118
mu_XX_8_119
mu_XX_8_82
mu_XX_8_120
mu_XX_8_122
1e−20
1e−10
0.001
0.1
0.1+

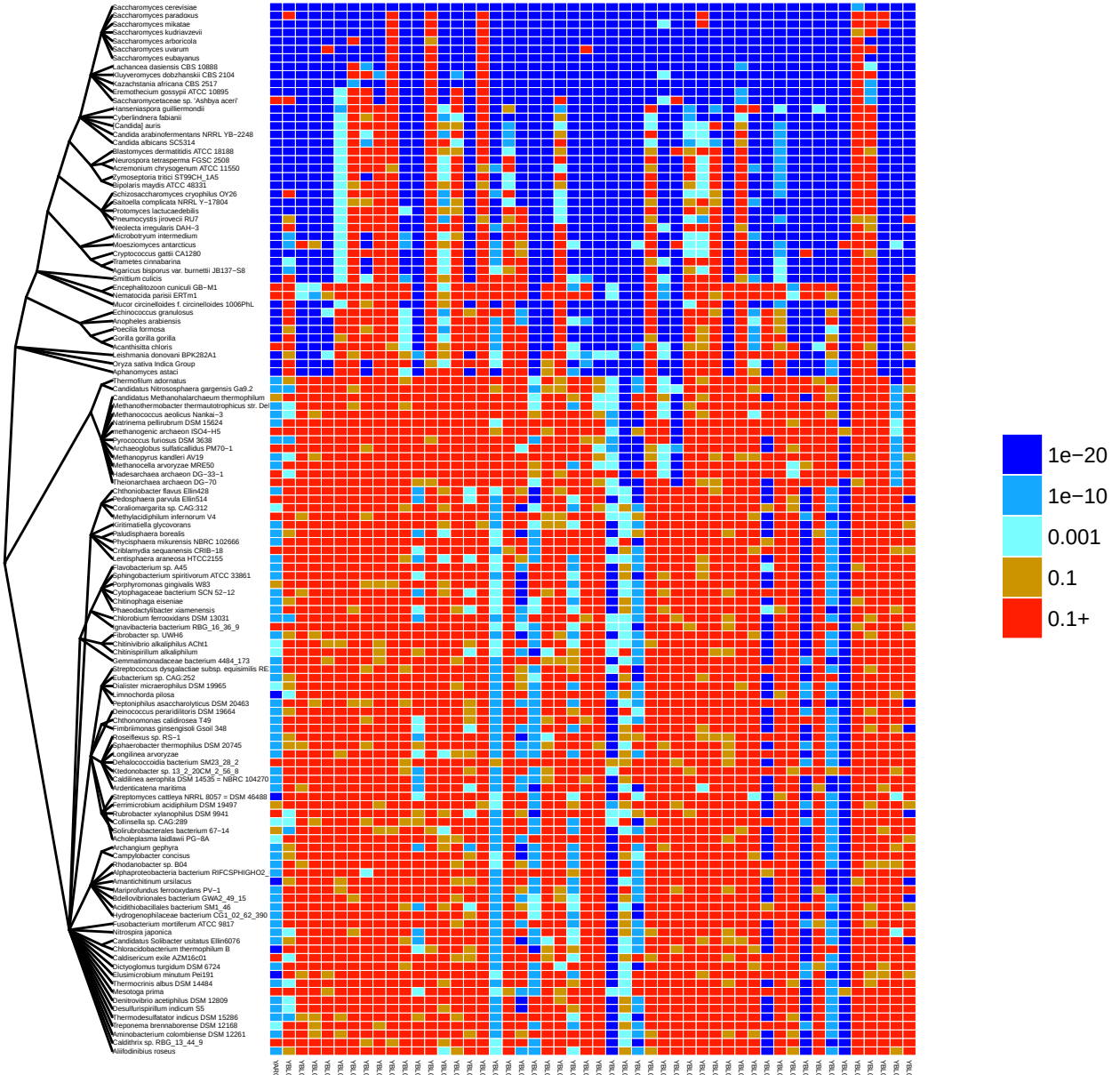

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Candidatus Koribacter versatilis Ellin345
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignisphaera aggerensis
Nitrosopumilus maritimus SCM1
Candidatus Korarchaeum cryptofilum OPA67
Candidatus Caldiarchaeum subterranum
Candidatus Aenigmarchaeota archaeon CG15_BIG_FIL_POST_REV_8_21_14_020_45_31
Candidatus Parvarchaeum acidiphilum ARMAN−4
Candidatus Micrarchaeota archaeon CG10_BIG_FIL_POST_REV_8_21_14_020_48_457
Candidatus Pacearchaeota archaeon CG_4_10_14_0_2_um_filter_34_10
Candidatus Woesearchaeota archaeon CG_4_8_14_3_um_filter_35_7
Candidatus Nanohaloarchaeota archaeon SG9
Candidatus Nanohaloarchaeota archaeon J07HX64
Candidatus Nanohaloarchaeota archaeon J07AB56
Candidatus Nanohaloarchaeota archaeon SG8
Candidatus Nanohaloarchaeota archaeon SG7
Candidatus Nanohaloarchaeota archaeon J07HQW2
Candidatus Nanohaloarchaeota archaeon J07HX5
Candidatus Nanohaloarchaeota archaeon SG6
Candidatus Nanohaloarchaeota archaeon SG3
Candidatus Nanohaloarchaeota archaeon SG2
Candidatus Nanohaloarchaeota archaeon SG1
Candidatus Nanohaloarchaeota archaeon J07HQX50
Candidatus Nanohaloarchaeota archaeon J07HQW2
Candidatus Nanohaloarchaeota archaeon J07HX64
Candidatus Nanohaloarchaeota archaeon J07AB56
Candidatus Nanohaloarchaeota archaeon SG9
Candidatus Nanohaloarchaeota archaeon J07HX5
Candidatus Nanohaloarchaeota archaeon SG8
Candidatus Nanohaloarchaeota archaeon SG7
Candidatus Nanohaloarchaeota archaeon J07HQW2
Candidatus Nanohaloarchaeota archaeon J07HQX50
Candidatus Nanohaloarchaeota archaeon SG6
Candidatus Nanohaloarchaeota archaeon SG3
Candidatus Nanohaloarchaeota archaeon SG2
Candidatus Nanohaloarchaeota archaeon SG1
Candidatus Nanohaloarchaeota archaeon J07HQX50
Candidatus Nanohaloarchaeota archaeon J07HQW2
Candidatus Nanohaloarchaeota archaeon J07HX64
Candidatus Nanohaloarchaeota archaeon J07AB56
Candidatus Nanohaloarchaeota archaeon SG9
Candidatus Nanohaloarchaeota archaeon J07HX5
Candidatus Nanohaloarchaeota archaeon SG8
Candidatus Nanohaloarchaeota archaeon SG7
Candidatus Nanohaloarchaeota archaeon J07HQW2
Candidatus Nanohaloarchaeota archaeon J07HQX50
Candidatus Nanohaloarchaeota archaeon SG6
Candidatus Nanohaloarchaeota archaeon SG3
Candidatus Nanohaloarchaeota archaeon SG2
Candidatus Nanohaloarchaeota archaeon SG1
Candidatus Nanohaloarchaeota archaeon J07HQX50
Candidatus Nanohaloarchaeota archaeon J07HQW2
Candidatus Nanohaloarchaeota archaeon J07HX64
Candidatus Nanohaloarchaeota archaeon J07AB56
Candidatus Nanohaloarchaeota archaeon SG9
Candidatus Nanohaloarchaeota archaeon J07HX5
Candidatus Nanohaloarchaeota archaeon SG8
Candidatus Nanohaloarchaeota archaeon SG7
Candidatus Nanohaloarchaeota archaeon J07HQW2
Candidatus Nanohaloarchaeota archaeon J07HQX50
Candidatus Nanohaloarchaeota archaeon SG6
Candidatus Nanohaloarchaeota archaeon SG3
Candidatus Nanohaloarchaeota archaeon SG2
Candidatus Nanohaloarchaeota archaeon SG1
ma_XV_0_223
ma_XV_0_224
ma_XV_0_226
ma_XV_0_228
ma_XV_0_229
ma_XV_0_832
ma_XV_0_833
ma_XV_0_834
ma_XV_0_836
ma_XV_0_838
ma_XV_0_839
ma_XV_0_84
ma_XV_0_842
ma_XV_0_840
ma_XV_0_843
ma_XV_0_845
ma_XV_0_846
ma_XV_0_847
ma_XV_0_848
ma_XV_0_849
ma_XV_0_85
ma_XV_0_850
ma_XV_0_851
ma_XV_0_852
ma_XV_0_853
ma_XV_0_854
ma_XV_0_855
ma_XV_0_857
ma_XV_0_859
ma_XV_0_86
ma_XV_0_860
ma_XV_0_861
ma_XV_0_863
ma_XV_0_864
ma_XV_0_866
ma_XV_0_867
ma_XV_0_87
ma_XV_0_870
ma_XV_0_871
ma_XV_0_872
ma_XV_0_873
ma_XV_0_876
ma_XV_0_877
ma_XV_0_878
ma_XV_0_88
ma_XV_0_880
ma_XV_0_881
ma_XV_0_882
ma_XV_0_883
ma_XV_0_884
1e−20
1e−10
0.001
0.1
0.1+

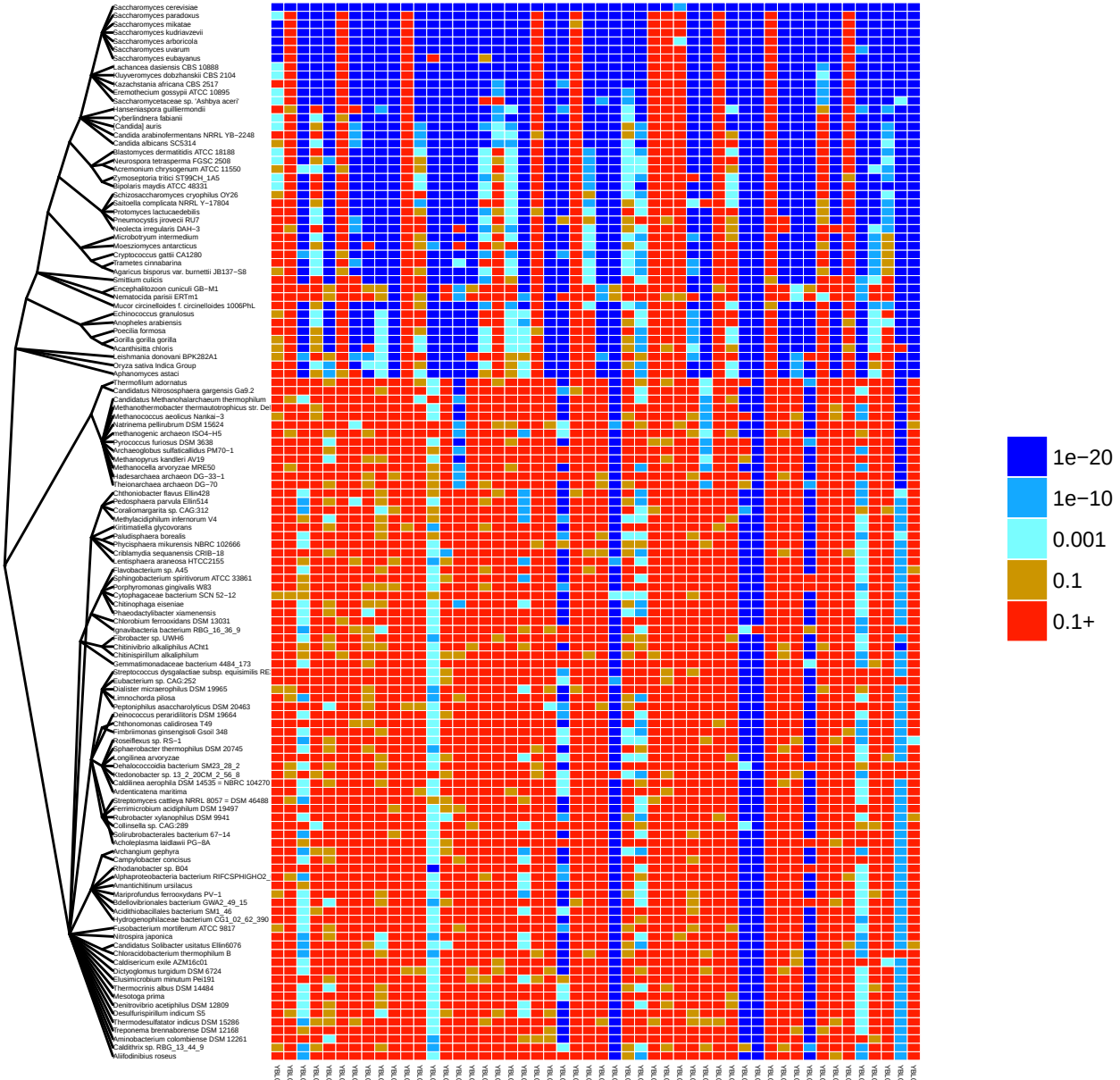

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Verrucomicrobia sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niinodinibius roseus
mu_AV_0_985
mu_AV_0_986
mu_AV_0_987
mu_AV_0_988
mu_AV_0_989
mu_AV_0_9
mu_AV_0_900
mu_AV_0_901
mu_AV_0_902
mu_AV_0_904
mu_AV_0_903
mu_AV_0_905
mu_AV_0_906
mu_AV_0_907
mu_AV_0_910
mu_AV_0_911
mu_AV_0_912
mu_AV_0_915
mu_AV_0_916
mu_AV_0_917
mu_AV_0_918
mu_AV_0_919
mu_AV_0_920
mu_AV_0_922
mu_AV_0_924
mu_AV_0_925
mu_AV_0_926
mu_AV_0_927
mu_AV_0_928
mu_AV_0_934
mu_AV_0_936
mu_AV_0_938
mu_AV_0_939
mu_AV_0_94
mu_AV_0_940
mu_AV_0_941
mu_AV_0_942
mu_AV_0_943
mu_AV_0_944
mu_AV_0_945
mu_AV_0_946
mu_AV_0_947
1e−20
1e−10
0.001
0.1
0.1+

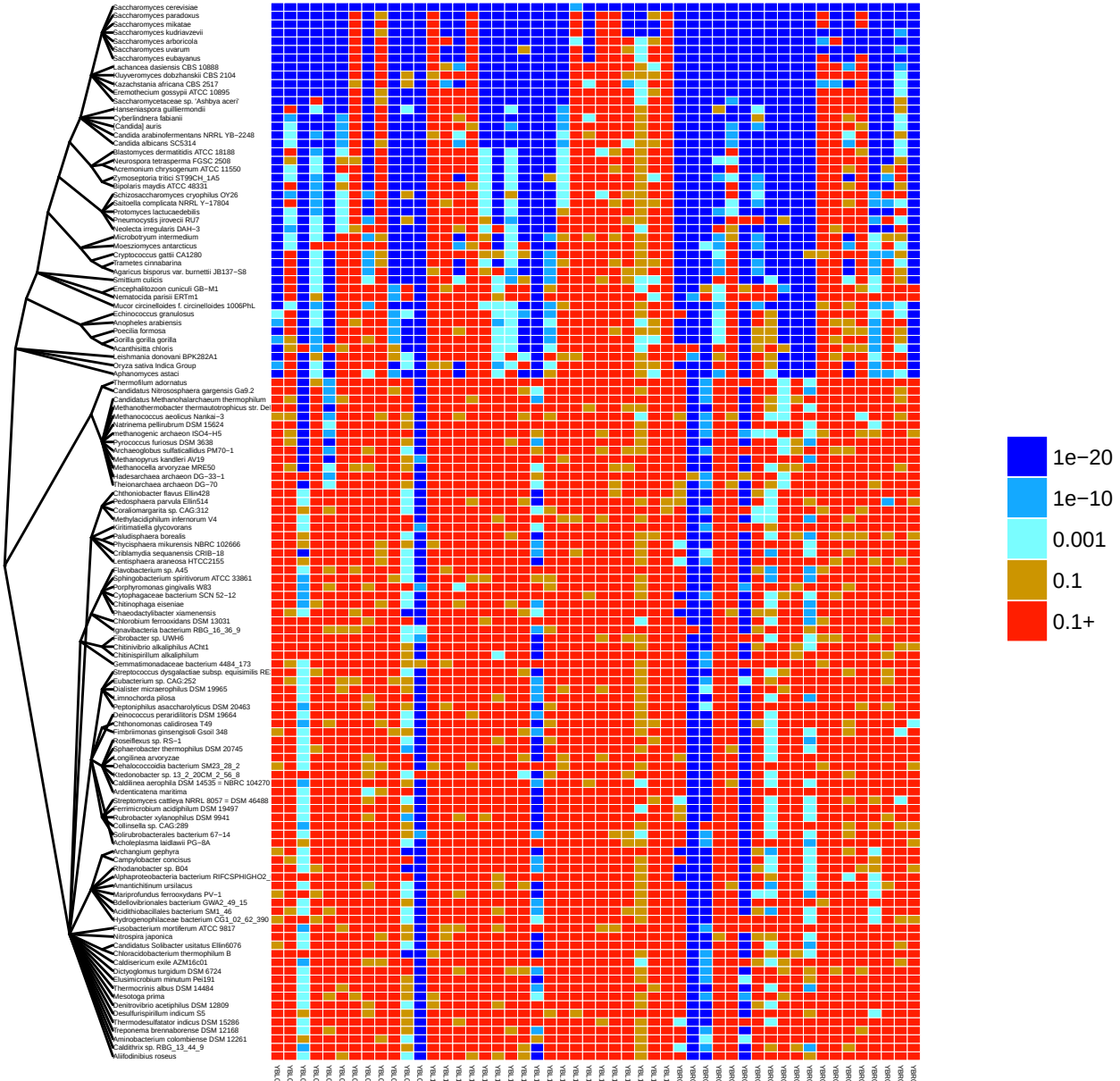

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonioibacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
mu_AV_9_948
mu_AV_9_949
mu_AV_9_950
mu_AV_9_951
mu_AV_9_952
mu_AV_9_957
mu_AV_9_958
mu_AV_9_96
mu_AV_9_964
mu_AV_9_965
mu_AV_9_970
mu_AV_9_971
mu_AV_9_972
mu_AV_9_977
mu_AV_9_979
mu_AV_9_980
mu_AV_9_981
mu_AV_9_982
mu_AV_9_983
mu_AV_9_984
mu_AV_9_985
mu_AV_9_987
mu_AV_9_988
mu_AV_9_989
mu_AV_9_99
mu_AV_9_990
mu_AV_9_993
mu_AV_9_994
mu_AV_9_995
mu_AV_9_996
mu_AV_9_998
mu_AV_9_999
YAL_0.01_3C
YAL_0.01_3V
YAL_0.01_4V
YAL_0.01_5C
YAL_0.01_7C
YAL_0.01_8V
YAL_0.01_9V
YAL_0.01_10C
YAL_0.01_11V
YAL_0.01_12V
YAL_0.01_13C
YAL_0.01_14C
YAL_0.01_15C
YAL_0.01_16C
YAL_0.01_2C−A
YAL_0.01_2C−B
YAL_0.01_4V
1e−20
1e−10
0.001
0.1
0.1+

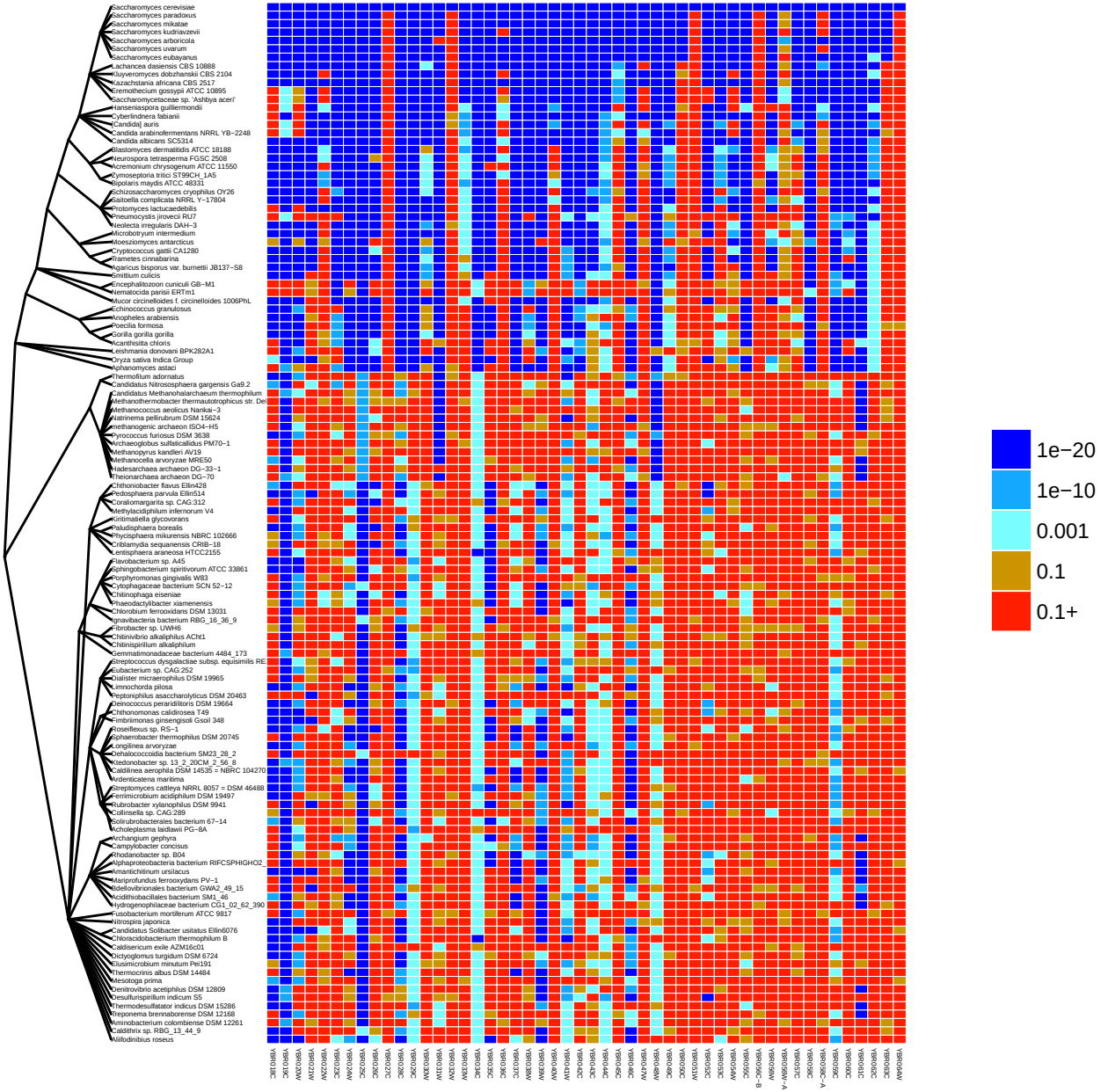

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseszioimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
YAL001C
YAL003W
YAL005C
YAL007C
YAL008W
YAL009W
YAL010C
YAL011W
YAL012W
YAL013W
YAL014C
YAL015C
YAL016C
YAL017W
YAL018C
YAL019W
YAL020C
YAL021C
YAL022C
YAL023C
YAL024C
YAL025C
YAL026C
YAL027W
YAL028W
YAL029C
YAL030W
YAL031C
YAL032C
YAL033W
YAL034W
YAL035W
YAL036C
YAL037W
YAL038W
YAL039C
YAL040C
YAL041W
YAL042W
YAL043C
YAL044C
YAL045C
YAL046C
YAL047C
YAL048C
YAL049C
YAL050W
YAL051W
YAL052W
YAL053W
YAL054C
YAL055W
YAL056W
YAL057C
YAL058W
1e−20
1e−10
0.001
0.1
0.1+

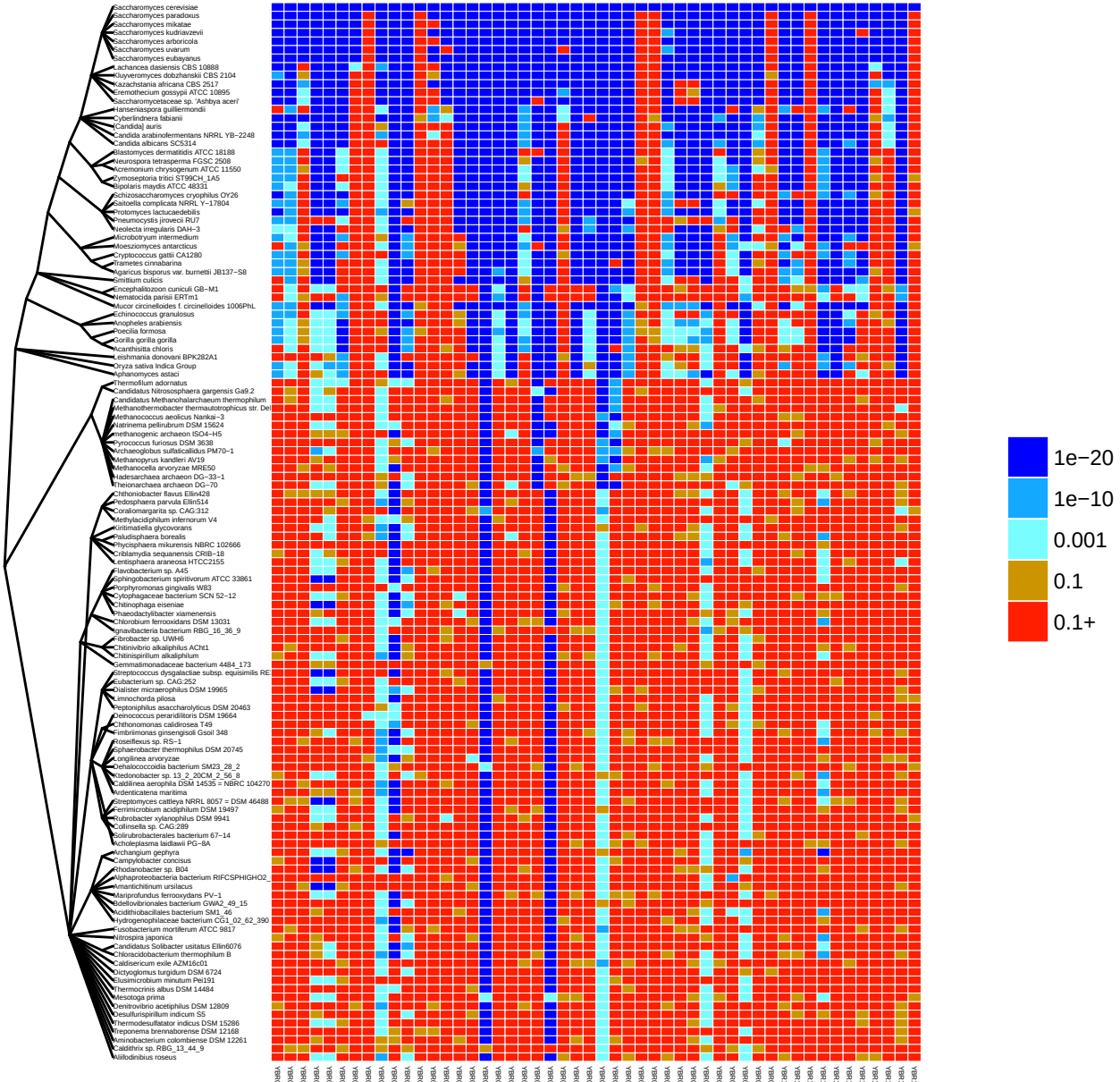

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YAL067W-A
YAL067C
YAL067W
YAL069W
YAL068C
YAL068W
YAL067C-A
YAL067C-A
YAL067W
YAL067W-A
YAL067C
YAL067W-A
YAL067W-B
YAL067C
YAL067W
YAL067W-A
YAL067C
YAL067W
YAL067W-A
YAL067W
YAL067C
YAL067W
YAL067C-A
YAL067C-A
YAL067W
YAL067C
YAL067W
YAL067C
YAL067W
YAL067C

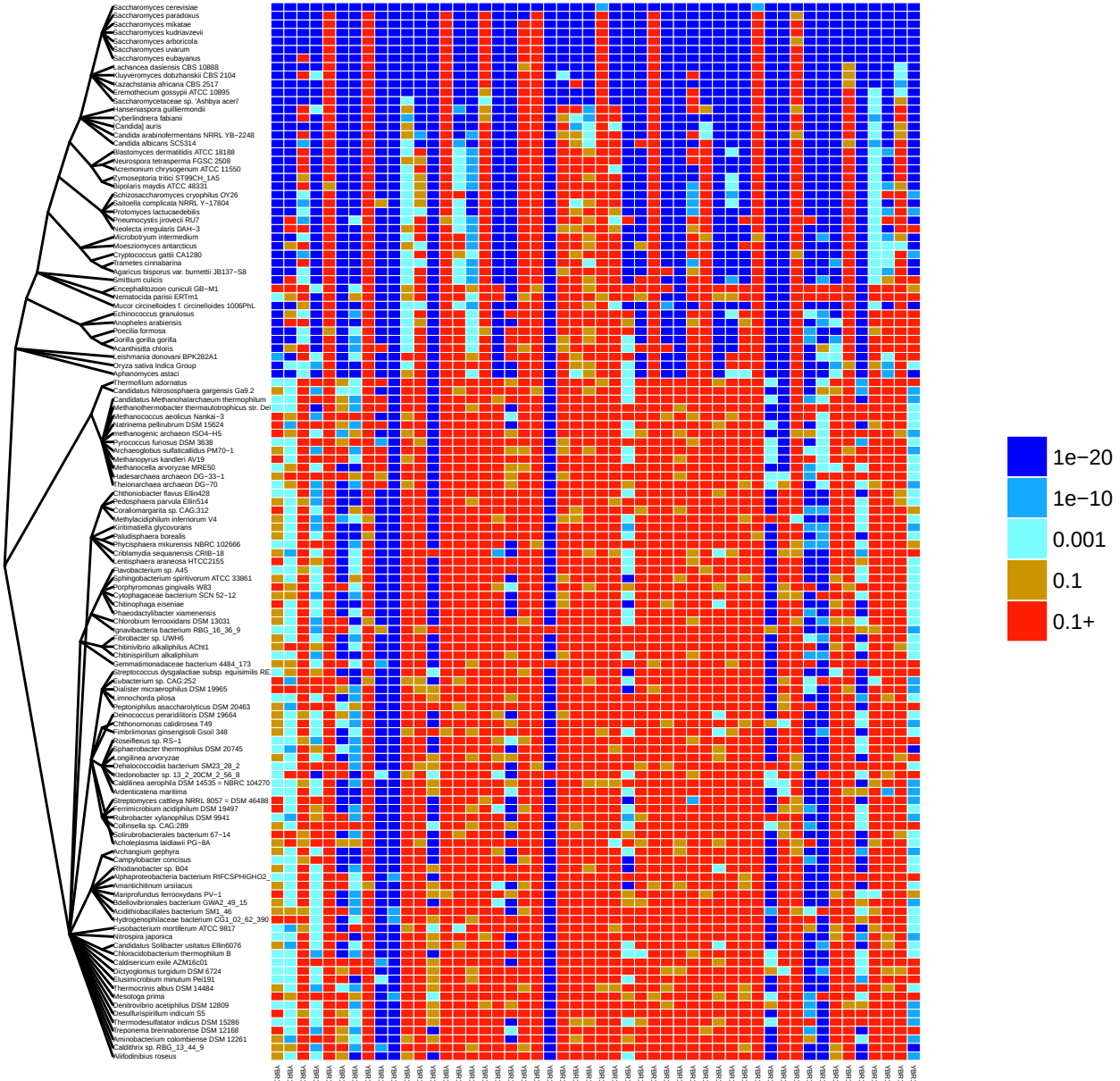

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

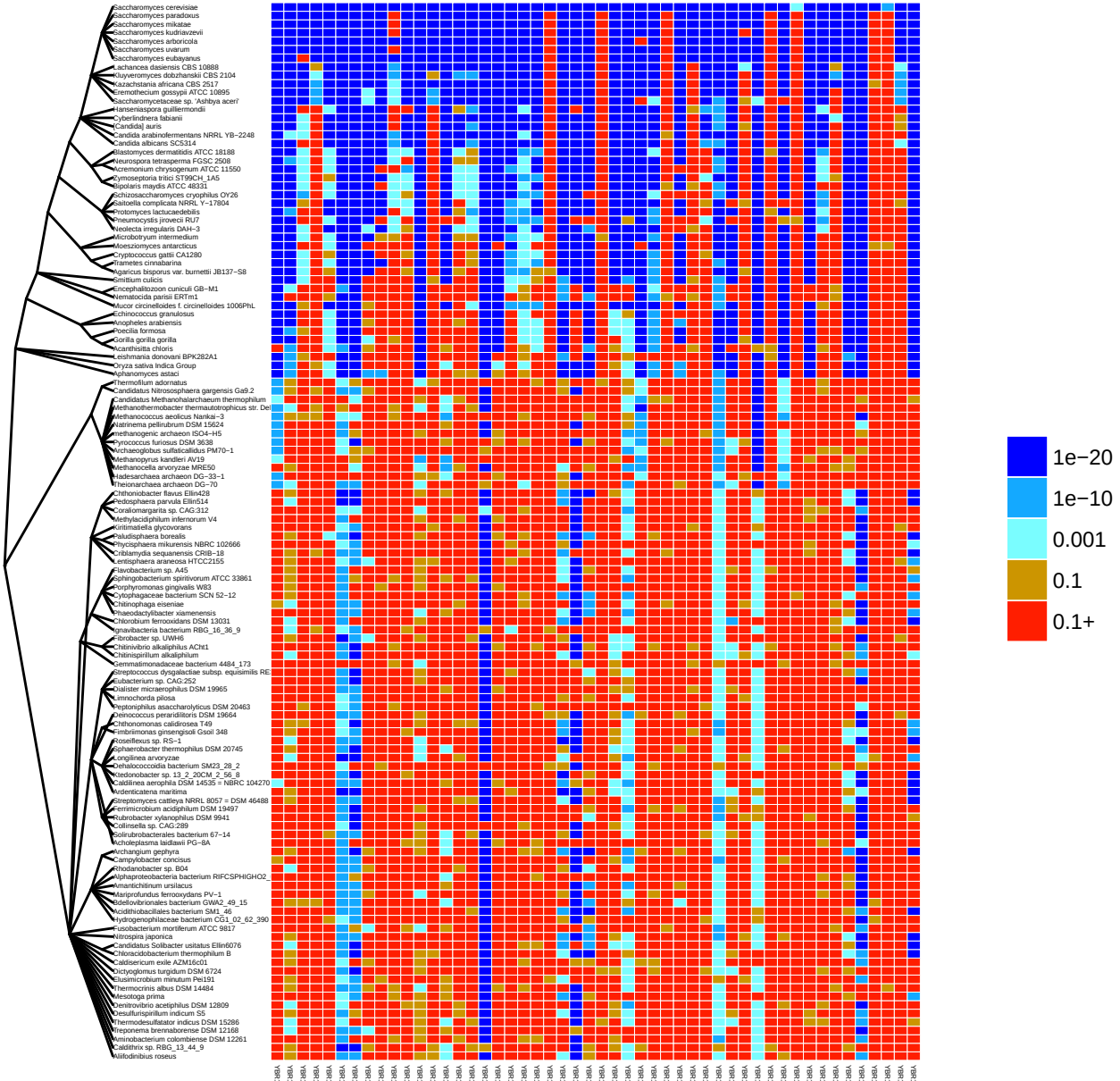

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

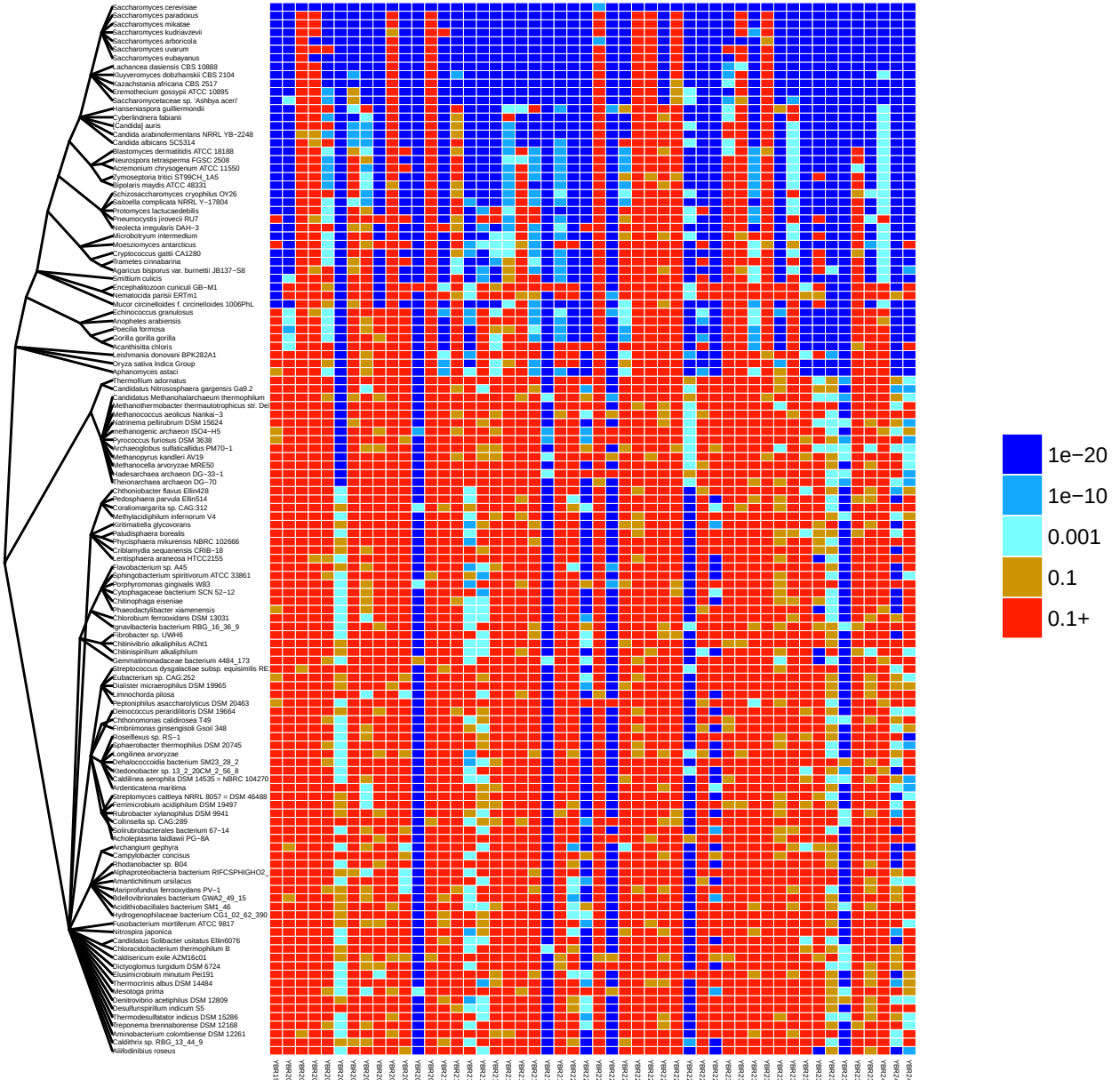

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia furfur CBS 14141
Malassezia dermatis CBS 9555
Malassezia yamatoensis CBS 9557
Malassezia restricta CBS 7877
Malassezia slooffiae CBS 7956
Malassezia japonica CBS 9557

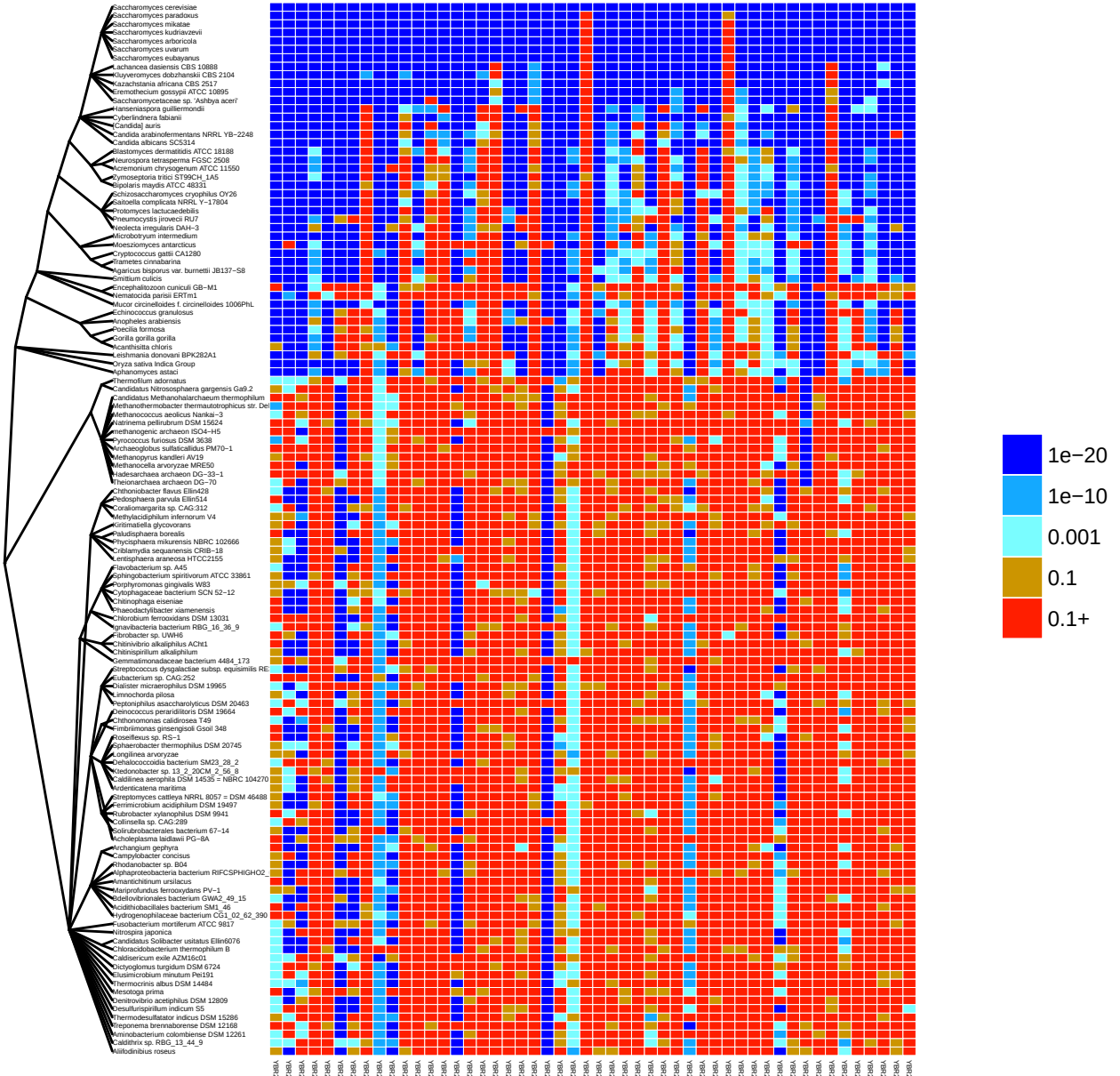

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Meeszomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

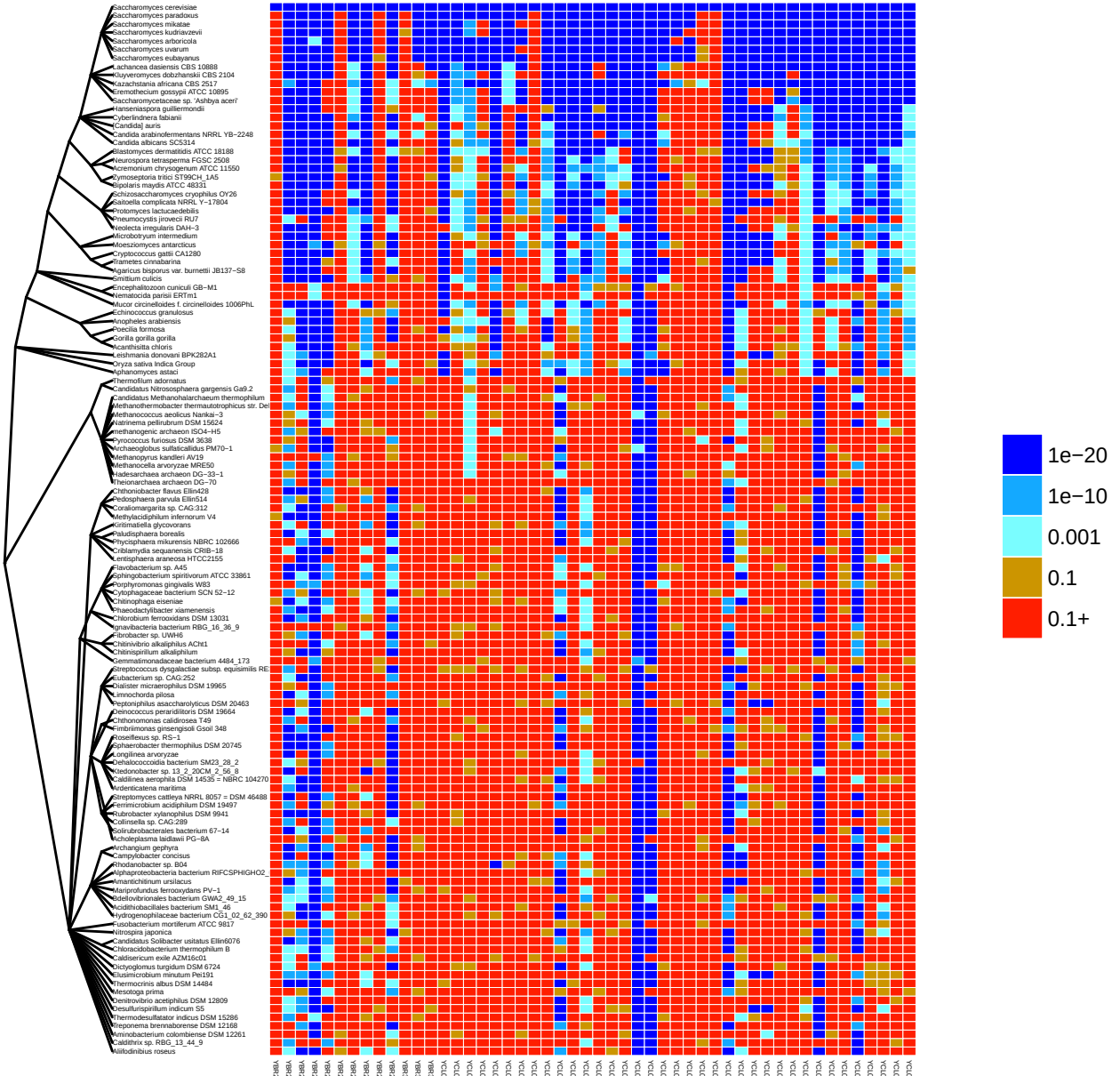

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignisphaera roseus
1e−20
1e−10
0.001
0.1
0.1+

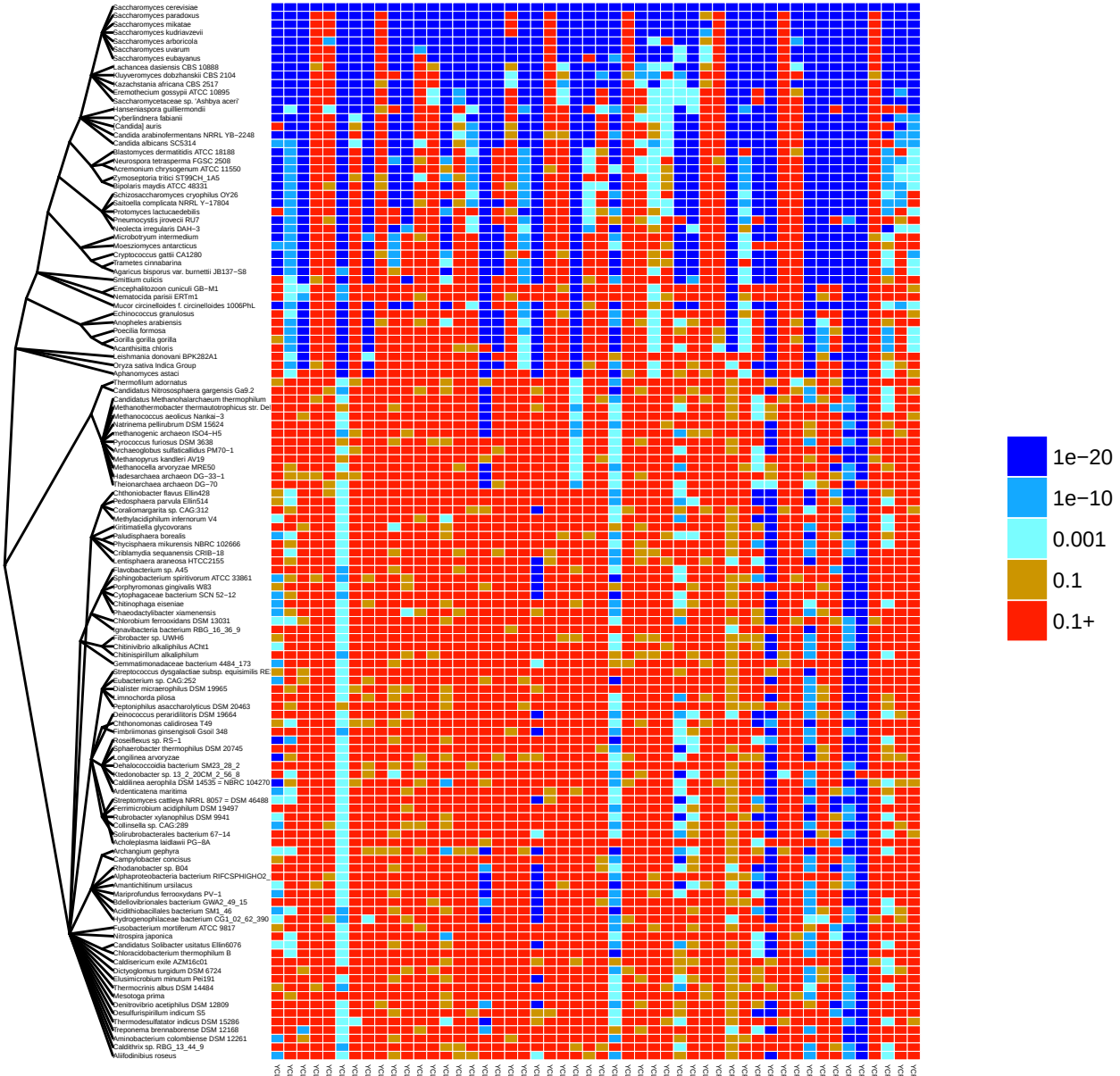

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eisenia e
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YBR134W
YBR111C
YBR111W−A
YBR113C
YBR113W
YBR115C
YBR115W
YBR117C
YBR118W
YBR120W
YBR120C
YBR121C
YBR121C−A
YBR122C
YBR122C−A
YBR123C
YBR123W
YBR125C
YBR126C
YBR126W
YBR126W−A
YBR126W−B
YBR127C
YBR128C
YBR129C
YBR130C
YBR131C−A
YBR132W
YBR133C
YBR133W
YBR134W
YBR136W
YBR137W
YBR138C
YBR139W
YBR140C
YBR141C
YBR141W−A
YBR142W
YBR145C
YBR146C
YBR146W
YBR147W
YBR148W
YBR149W
YBR150C
YBR151W
YBR152W
YBR153W
1e−20
1e−10
0.001
0.1
0.1+

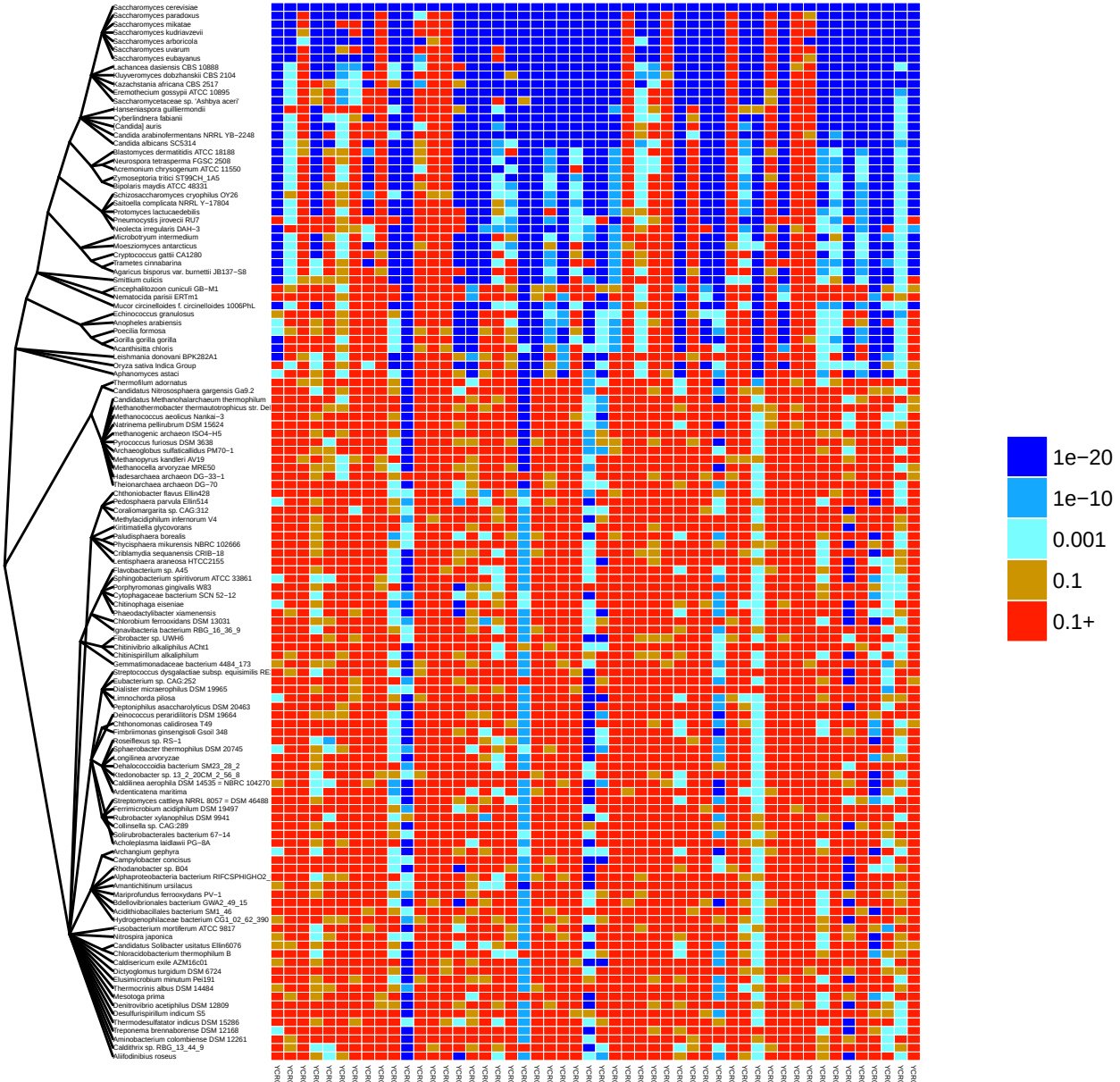

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Crillamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
Fusobacterium nucleatum subsp. nucleatum ATCC 25586
Bacteroides fragilis YCH46
Prevotella ruminicola 23
Chlorobaculum tepidum TLS
Chlorobium phaeobacteroides DSM 266
Prosthecochloris aestuarii DSM 271
Fibrobacter succinogenes S85
Chlamydia trachomatis D/UW−3/CX
Chlamydia pneumoniae CWL029
Chlamydia pneumoniae AR39
Chlamydia pneumoniae J138
Chlamydia pneumoniae TW−183
Chlamydia pneumoniae CWL029 (C−GPA)
Chlamydia pneumoniae AR39 (AR39)
Chlamydia pneumoniae J138 (J138)
Chlamydia pneumoniae TW−183 (TW−183)
Chlamydia pneumoniae CWL029 (CWL029

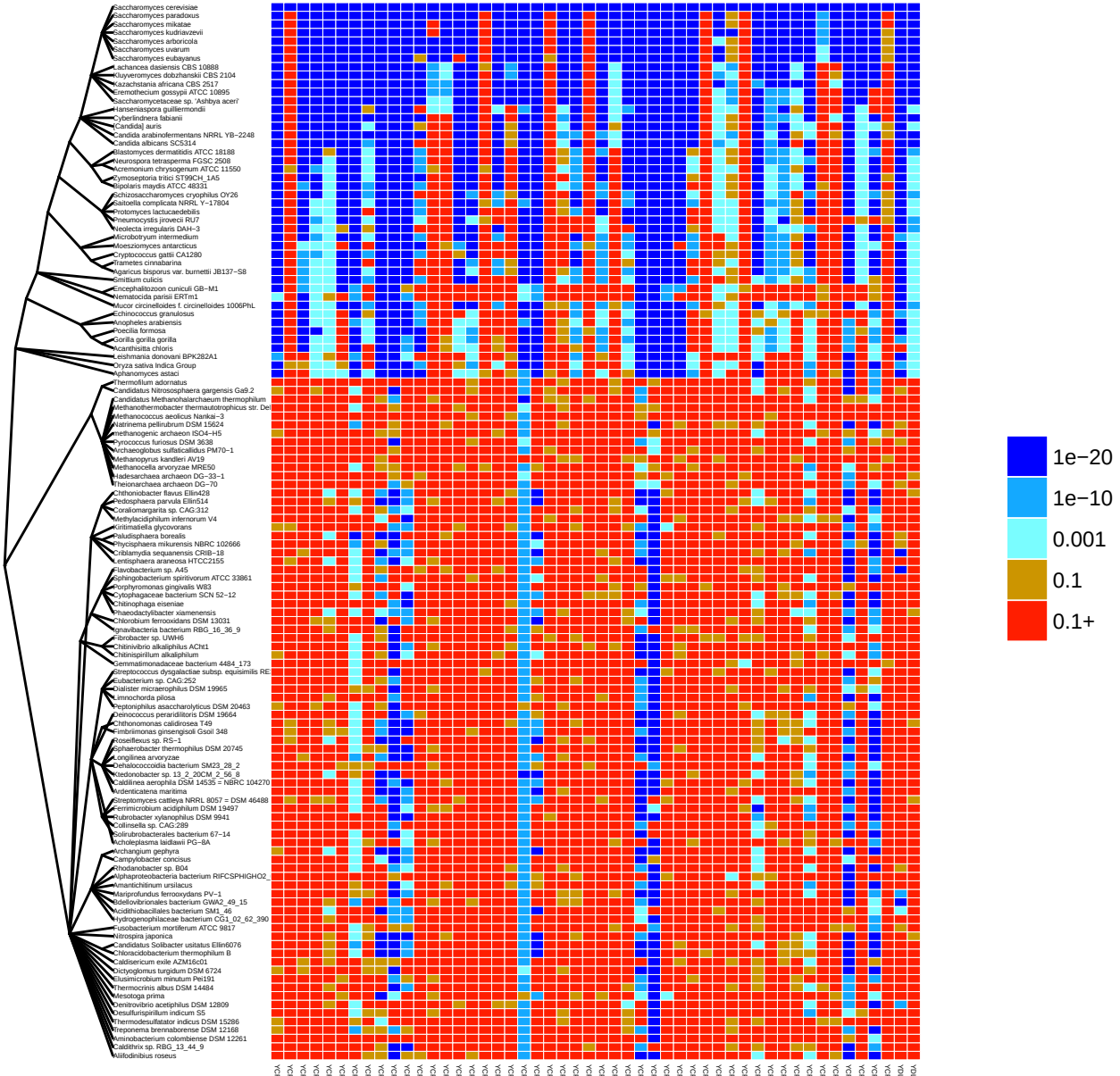

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeseizomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

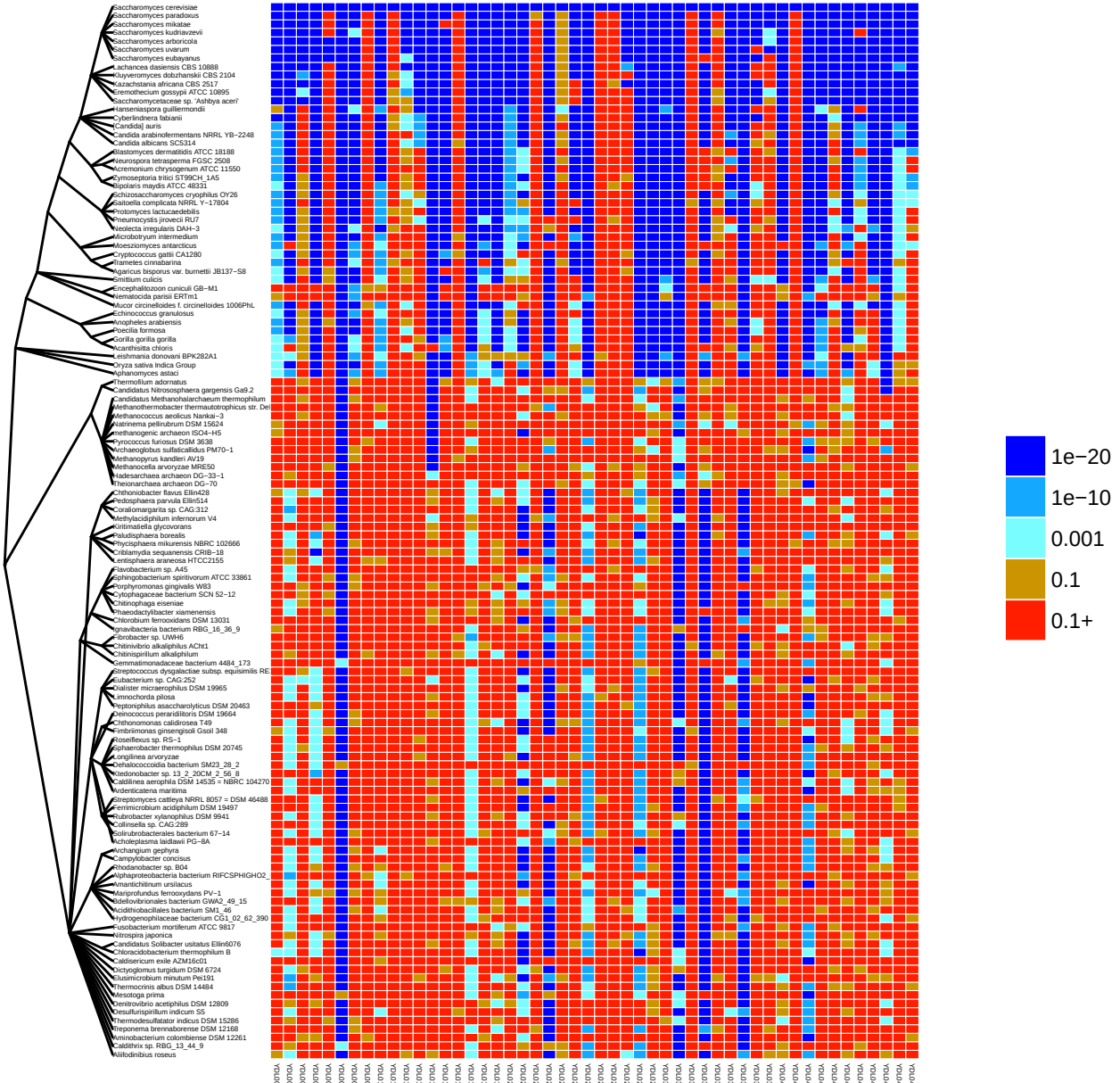

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

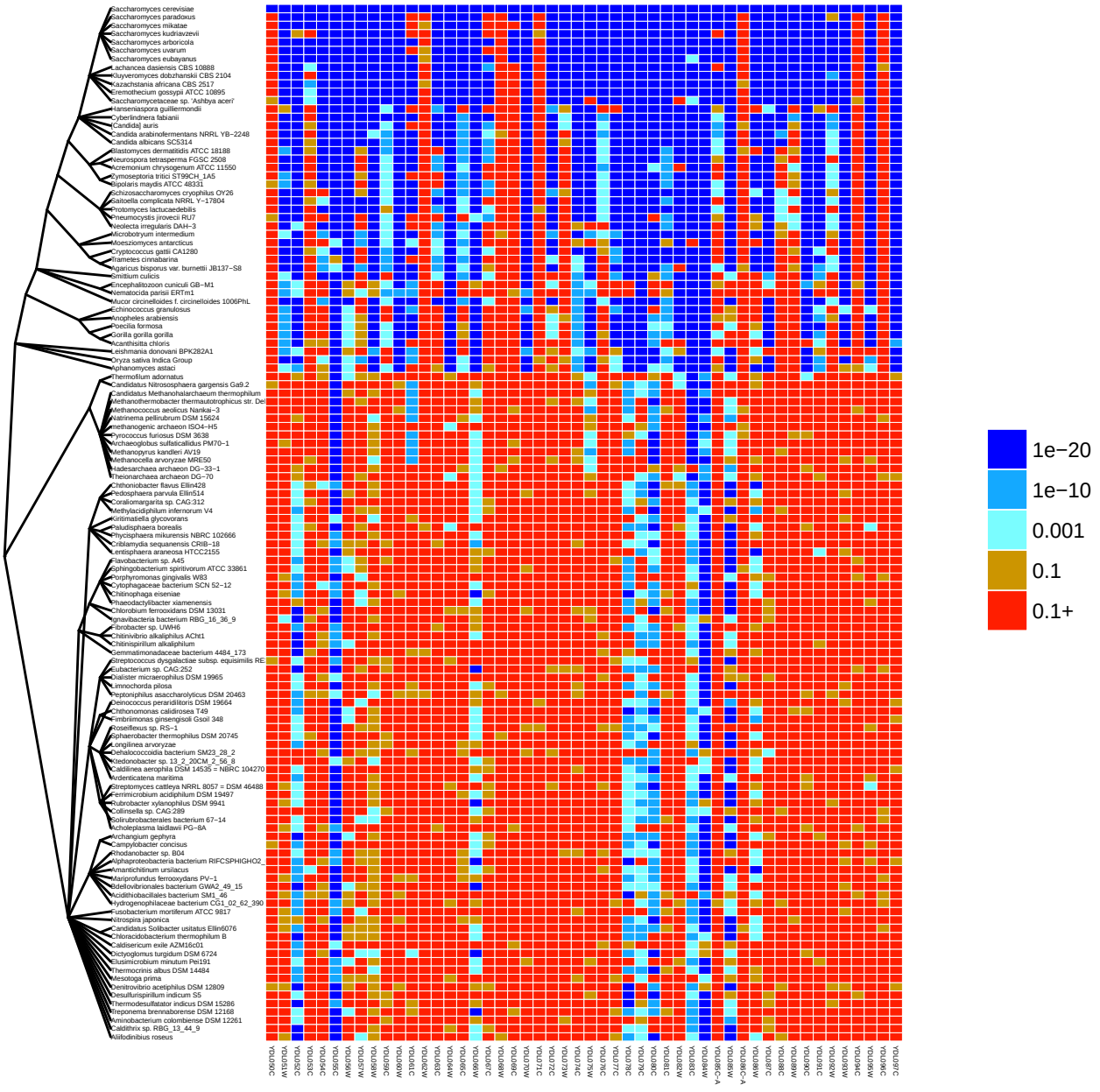

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Ouyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

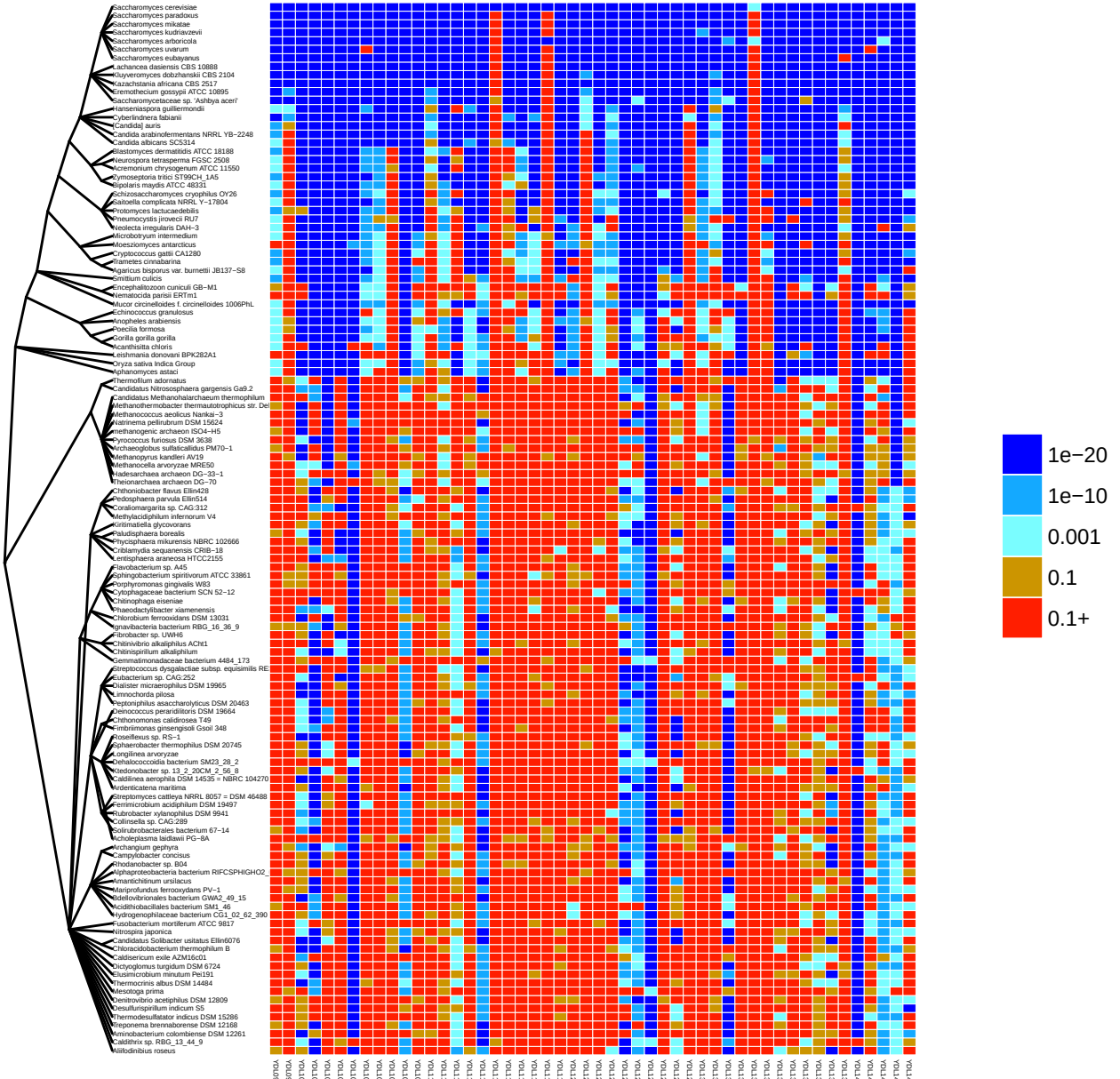

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ropolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

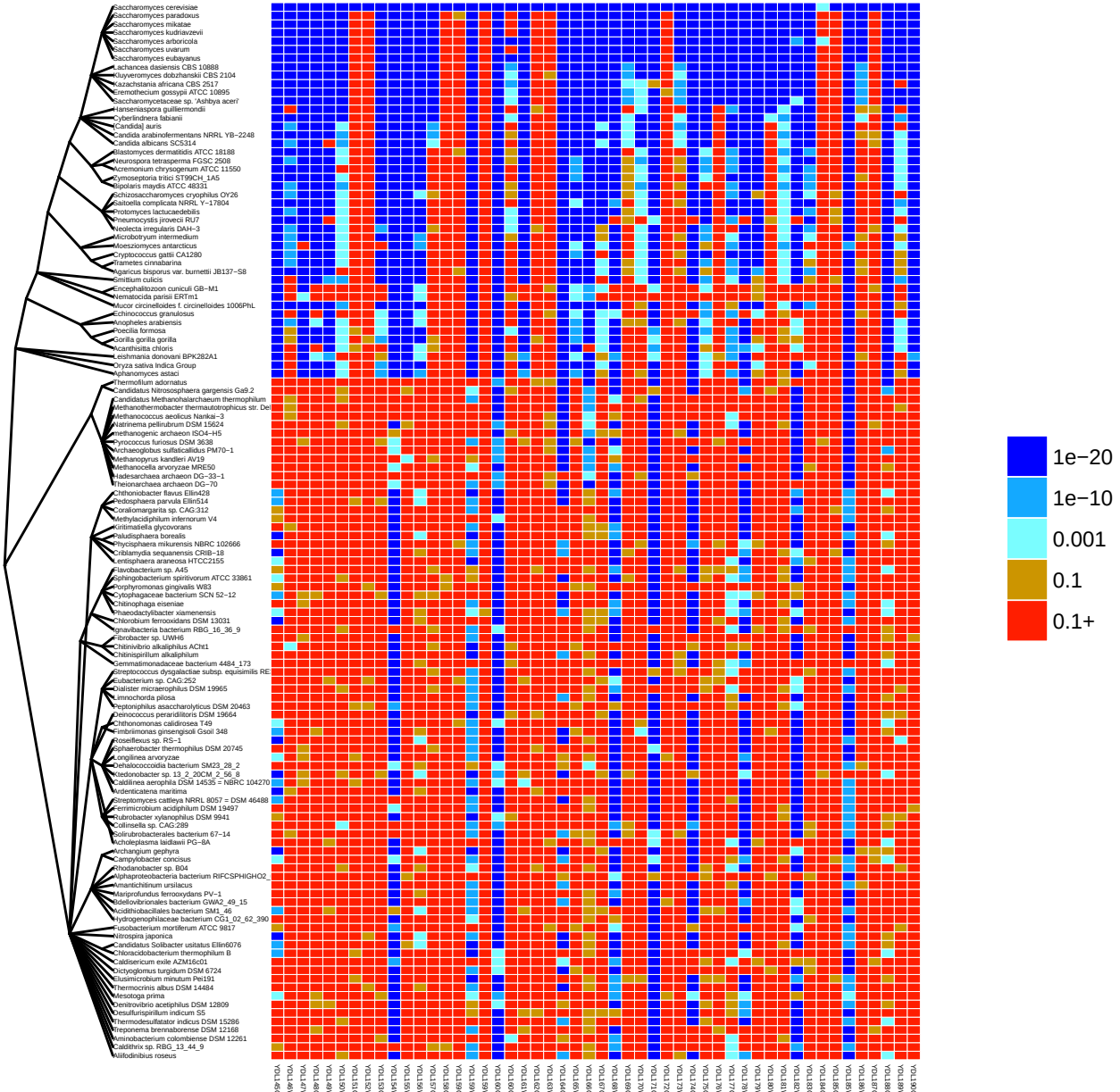

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

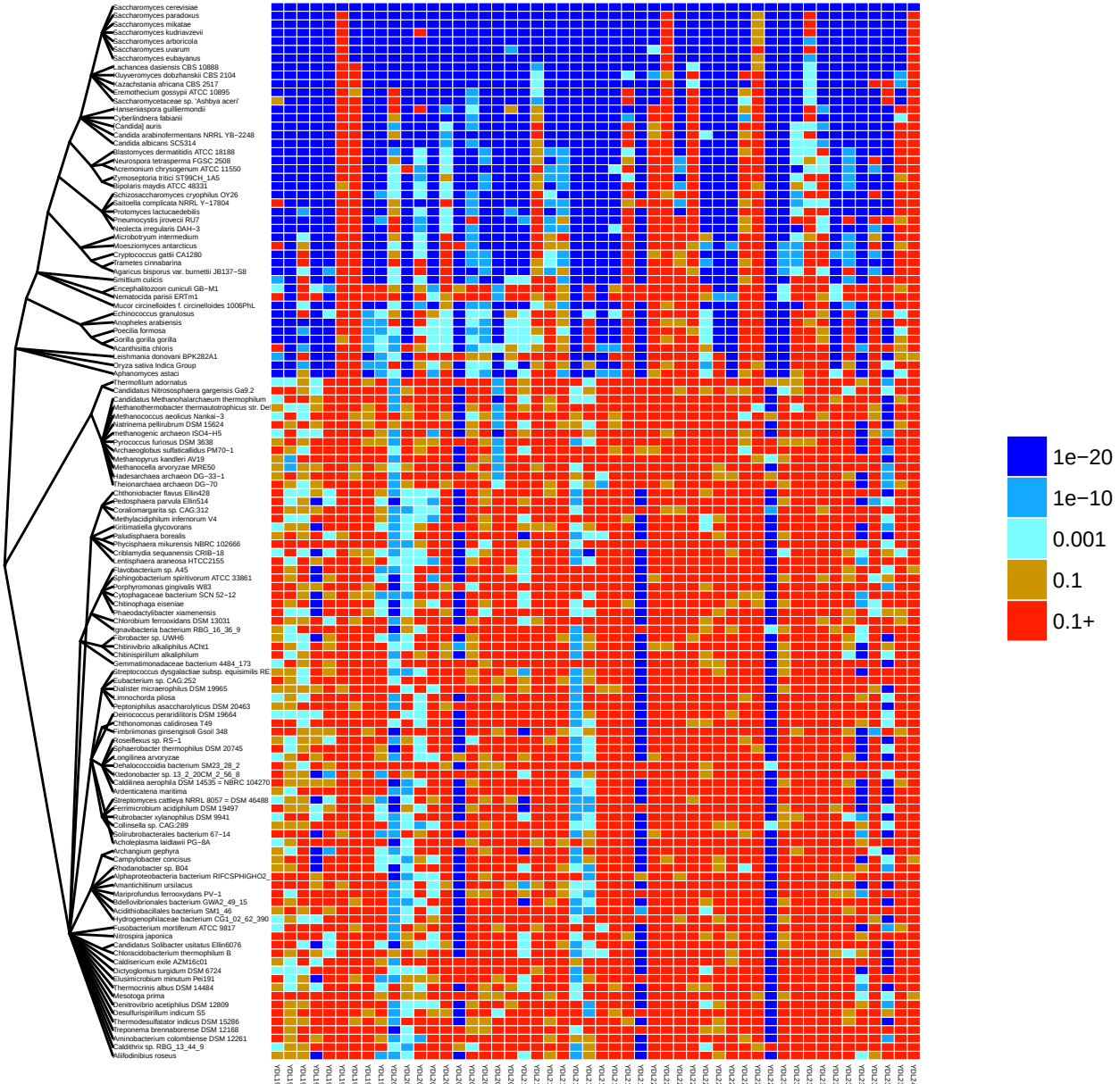

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR
Candidatus Nitrosotenuis uzonensis
Candidatus Nitrosocaldus yellowstonii HL72
Candidatus Nitrosocaldus cavascurensis
Candidatus Nitrosocaldus islandicus
Candidatus Nitrosocaldus sp. HS
Candidatus Nitrosocaldus sp. MY1
Candidatus Nitrosocaldus sp. MY2
Candidatus Nitrosocaldus sp. MY3
Candidatus Nitrosocaldus sp. MY4
Candidatus Nitrosocaldus sp. MY5
Candidatus Nitrosocaldus sp. MY6
Candidatus Nitrosocaldus sp. MY7
Candidatus Nitrosocaldus sp. MY8
Candidatus Nitrosocaldus sp. MY9
Candidatus Nitrosocaldus sp. MY10
Candidatus Nitrosocaldus sp. MY11
Candidatus Nitrosocaldus sp. MY12
Candidatus Nitrosocaldus sp. MY13
Candidatus Nitrosocaldus sp. MY14
Candidatus Nitrosocaldus sp. MY15
Candidatus Nitrosocaldus sp. MY16
Candidatus Nitrosocaldus sp. MY17
Candidatus Nitrosocaldus sp. MY18
Candidatus Nitrosocaldus sp. MY19
Candidatus Nitrosocaldus sp. MY20
Candidatus Nitrosocaldus sp. MY21
Candidatus Nitrosocaldus sp. MY22
Candidatus Nitrosocaldus sp. MY23
Candidatus Nitrosocaldus sp. MY24
Candidatus Nitrosocaldus sp. MY25
Candidatus Nitrosocaldus sp. MY26
Candidatus Nitrosocaldus sp. MY27
Candidatus Nitrosocaldus sp. MY28
Candidatus Nitrosocaldus sp. MY29
Candidatus Nitrosocaldus sp. MY30
Candidatus Nitrosocaldus sp. MY31
Candidatus Nitrosocaldus sp. MY32
Candidatus Nitrosocaldus sp. MY33
Candidatus Nitrosocaldus sp. MY34
Candidatus Nitrosocaldus sp. MY35
Candidatus Nitrosocaldus sp. MY36
Candidatus Nitrosocaldus sp. MY37
Candidatus Nitrosocaldus sp. MY38
Candidatus Nitrosocaldus sp. MY39
Candidatus Nitrosocaldus sp. MY40
Candidatus Nitrosocaldus sp. MY41
Candidatus Nitrosocaldus sp. MY42
Candidatus Nitrosocaldus sp. MY43
Candidatus Nitrosocaldus sp. MY44
Candidatus Nitrosocaldus sp. MY45
Candidatus Nitrosocaldus sp. MY46
Candidatus Nitrosocaldus sp. MY47
Candidatus Nitrosocaldus sp. MY48
Candidatus Nitrosocaldus sp. MY49
Candidatus Nitrosocaldus sp. MY50
1e−20
1e−10
0.001
0.1
0.1+

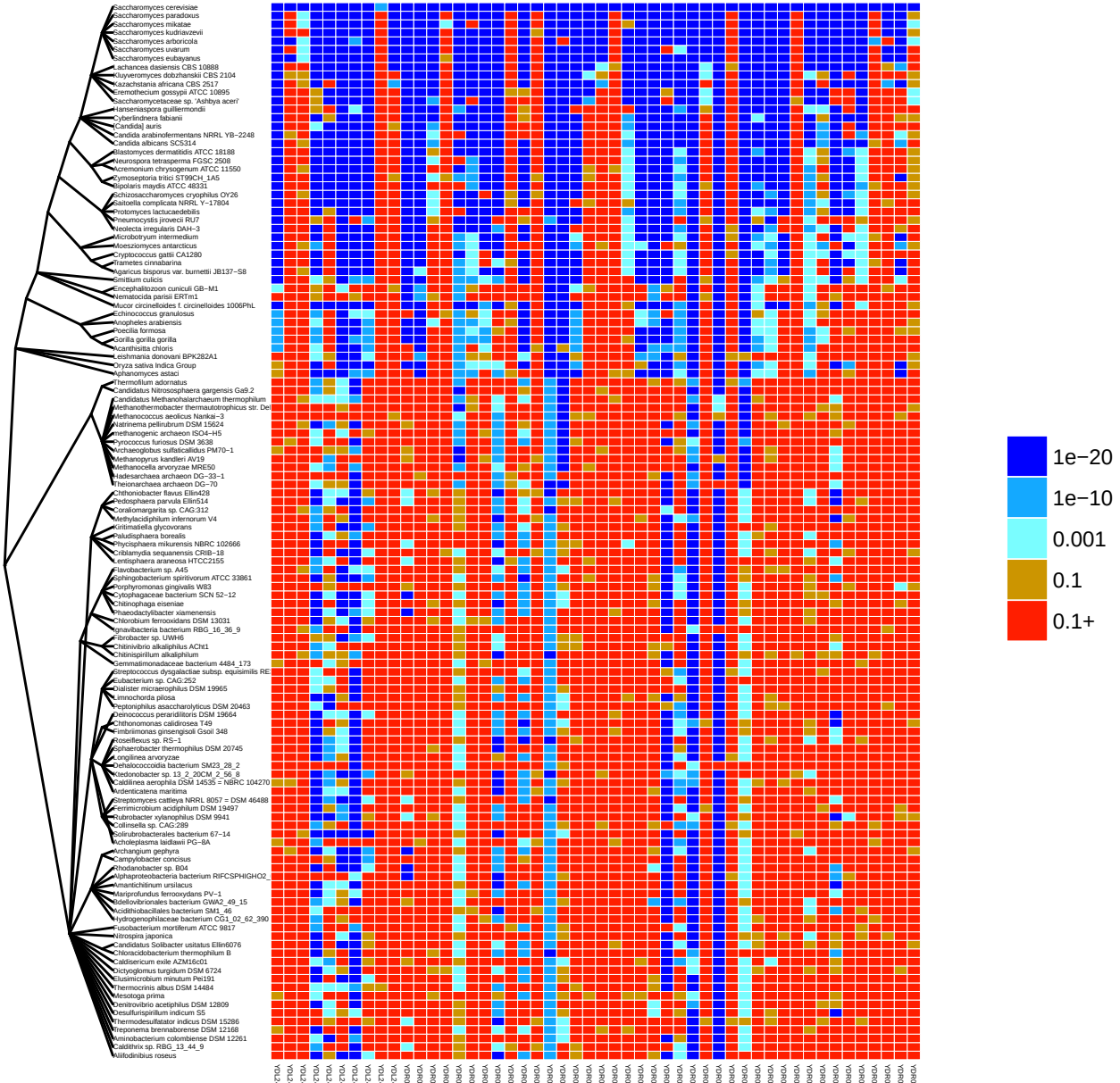

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetus roseus
1e−20
1e−10
0.001
0.1
0.1+

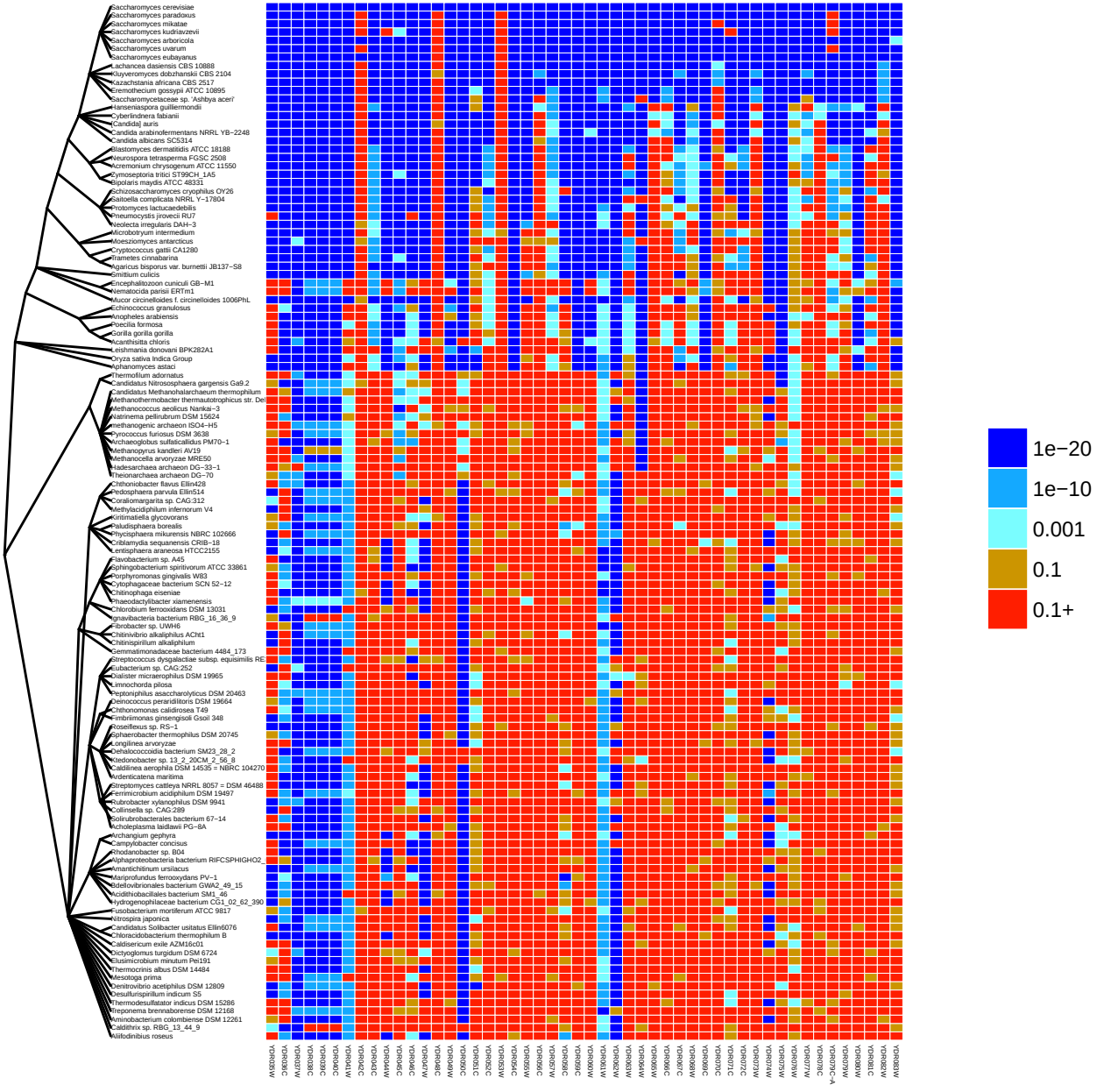

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

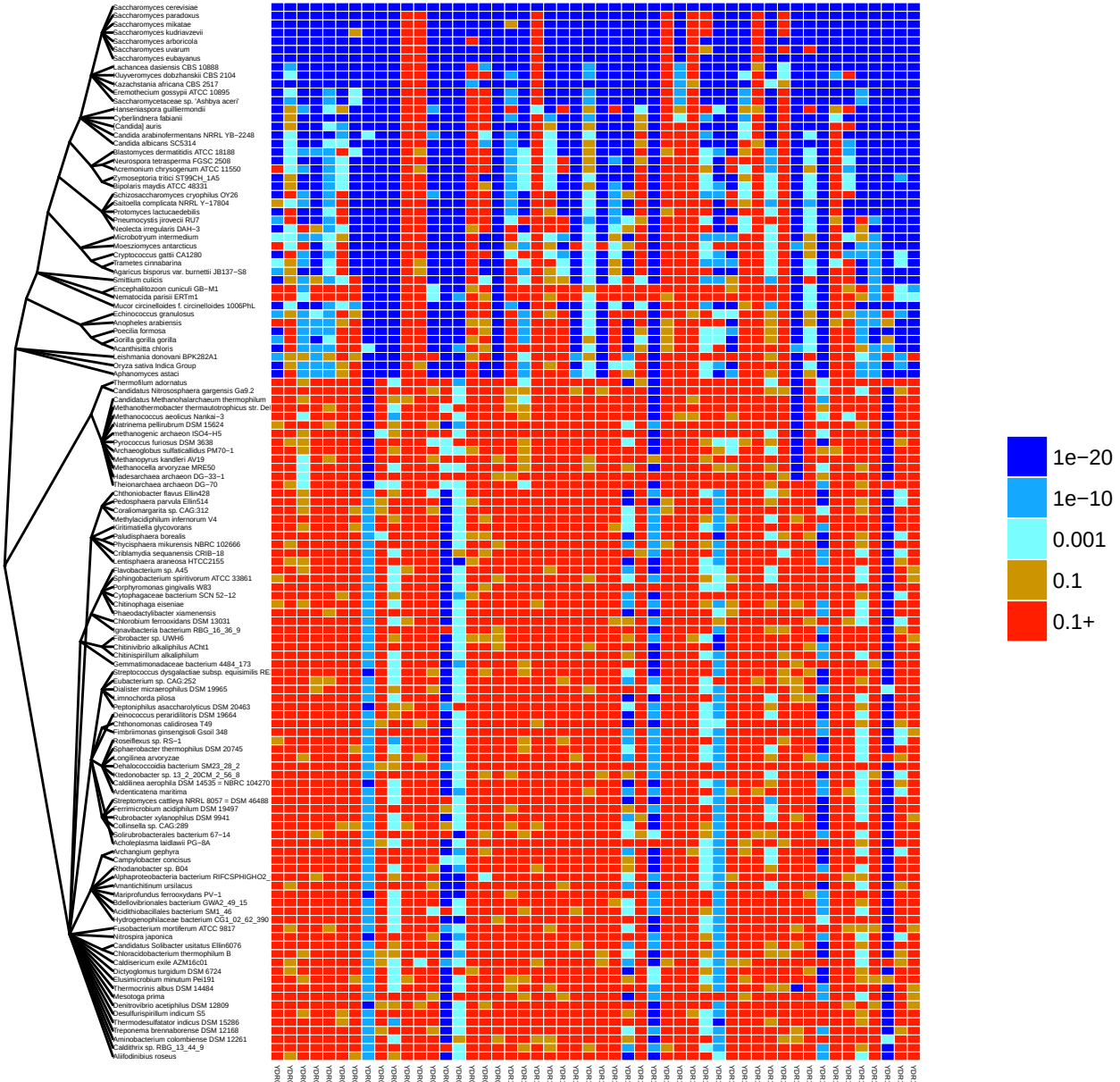

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YDL090C
YDR090W
YDL100C
YDR100W
YDL010C
YDR010C
YDL070C
YDR070W
YDL130W
YDR130C
YDL110C
YDR110C
YDL120W
YDR120C
YDL140C
YDR140W
YDL150W-A
YDL150C
YDL160C
YDR160W
YDL170W
YDR170C
YDL180C
YDR180W
YDL190C
YDR190C
YDL200C
YDR200W
YDL210W
YDR210C
YDL220C
YDR220W
YDL230W
YDR230C
YDL240C
YDR240W
YDL250C
YDR250W
YDL260W
YDR260C
YDL270W
YDR270C
YDL280C
YDR280W
YDL290C
YDR290W
YDL300W
YDR300C
YDL310C
YDR310W
YDL320C
YDR320W
YDL330W
YDR330C
YDL340C
YDR340W
YDL350C
YDR350W
YDL360W
YDR360C
YDL370C
YDR370W
YDL380W
YDR380C
YDL390C
YDR390W
YDL400C
YDR400W
YDL410C
YDR410W
YDL420C
YDR420W
YDL430W
YDR430C
YDL440C
YDR440W
YDL450W
YDR450C
YDL460W
YDR460C
YDL470C
YDR470W
YDL480W
YDR480C
YDL490C
YDR490W
YDL500C
YDR500W
YDL510W
YDR510C
YDL520C
YDR520W
YDL530W
YDR530C
YDL540C
YDR540W
YDL550C
YDR550W
YDL560W
YDR560C
YDL570C
YDR570W
YDL580C
YDR580W
YDL590C
YDR590W
YDL600W
YDR600C
YDL610W
YDR610C
YDL620C
YDR620W
YDL630W
YDR630C
YDL640C
YDR640W
YDL650C
YDR650W
YDL660W
YDR660C
YDL670C
YDR670W
YDL680W
YDR680C
YDL690C
YDR690W
YDL700W
YDR700C
YDL710C
YDR710W
YDL720C
YDR720W
YDL730W
YDR730C
YDL740C
YDR740W
YDL750C
YDR750W
YDL760W
YDR760C
YDL770C
YDR770W
YDL780W
YDR780C
YDL790C
YDR790W
YDL800C
YDR800W
YDL810C
YDR810W
YDL820C
YDR820W
YDL830W
YDR830C
YDL840C
YDR840W
YDL850C
YDR850W
YDL860W
YDR860C
YDL870C
YDR870W
YDL880W
YDR880C
YDL890C
YDR890W
YDL900W
YDR900C
YDL910C
YDR910W
YDL920C
YDR920W
YDL930W
YDR930C
YDL940C
YDR940W
YDL950C
YDR950W
YDL960W
YDR960C
YDL970C
YDR970W
YDL980W
YDR980C
YDL990C
YDR990W
YDL1000W
YDR1000C
YDL1010C
YDR1010W
YDL1020C
YDR1020W
YDL1030W
YDR1030C
YDL1040C
YDR1040W
YDL1050C
YDR1050W
YDL1060W
YDR1060C
YDL1070C
YDR1070W
YDL1080W
YDR1080C
YDL1090C
YDR1090W
YDL1100W
YDR1100C
YDL1110C
YDR1110W
YDL1120C
YDR1120W
YDL1130W
YDR1130C
YDL1140C
YDR1140W
YDL1150C
YDR1150W
YDL1160W
YDR1160C
YDL1170C
YDR1170W
YDL1180W
YDR1180C
YDL1190C
YDR1190W
YDL1200W
YDR1200C
YDL1210C
YDR1210W
YDL1220C
YDR1220W
YDL1230W
YDR1230C
YDL1240C
YDR1240W
YDL1250C
YDR1250W
YDL1260W
YDR1260C
YDL1270C
YDR1270W
YDL1280W
YDR1280C
YDL1290C
YDR1290W
YDL1300W
YDR1300C
YDL1310C
YDR1310W
YDL1320C
YDR1320W
YDL1330W
YDR1330C
YDL1340C
YDR1340W
YDL1350C
YDR1350W
YDL1360W
YDR1360C
YDL1370C
YDR1370W
YDL1380W
YDR1380C
YDL1390C
YDR1390W
YDL1400C
YDR1400W
YDL1410C
YDR1410W
YDL1420C
YDR1420W
YDL1430W
YDR1430C
YDL1440C
YDR1440W
YDL1450C
YDR1450W
YDL1460W
YDR1460C
YDL1470C
YDR1470W
YDL1480W
YDR1480C
YDL1490C
YDR1490W
YDL1500W
YDR1500C
YDL1510C
YDR1510W
YDL1520C
YDR1520W
YDL1530W
YDR1530C
YDL1540C
YDR1540W
YDL1550C
YDR1550W
YDL1560W
YDR1560C
YDL1570C
YDR1570W
YDL1580W
YDR1580C
YDL1590C
YDR1590W
YDL1600W
YDR1600C
YDL1610C
YDR1610W
YDL1620C
YDR1620W
YDL1630W
YDR1630C
YDL1640C
YDR1640W
YDL1650C
YDR1650W
YDL1660W
YDR1660C
YDL1670C
YDR1670W
YDL1680W
YDR1680C
YDL1690C
YDR1690W
YDL1700W
YDR1700C
YDL1710C
YDR1710W
YDL1720C
YDR1720W
YDL1730W
YDR1730C
YDL1740C
YDR1740W
YDL1750C
YDR1750W
YDL1760W
YDR1760C
YDL1770C
YDR1770W
YDL1780W
YDR1780C
YDL1790C
YDR1790W
YDL1800W
YDR1800C
YDL1810C
YDR1810W
YDL1820C
YDR1820W
YDL1830W
YDR1830C
YDL1840C
YDR1840W
YDL1850C
YDR1850W
YDL1860W
YDR1860C
YDL1870C
YDR1870W
YDL1880W
YDR1880C
YDL1890C
YDR1890W
YDL1900W
YDR1900C
YDL1910C
YDR1910W
YDL1920C
YDR1920W
YDL1930W
YDR1930C
YDL1940C
YDR1940W
YDL1950C
YDR1950W
YDL1960W
YDR1960C
YDL1970C
YDR1970W
YDL1980W
YDR1980C
YDL1990C
YDR1990W
YDL2000W
YDR2000C
YDL2010C
YDR2010W
YDL2020C
YDR2020W
YDL2030W
YDR2030C
YDL2040C
YDR2040W
YDL2050C
YDR2050W
YDL2060W
YDR2060C
YDL2070C
YDR2070W
YDL2080W
YDR2080C
YDL2090C
YDR2090W
YDL2100W
YDR2100C
YDL2110C
YDR2110W
YDL2120C
YDR2120W
YDL2130W
YDR2130C
YDL2140C
YDR2140W
YDL2150C
YDR2150W
YDL2160W
YDR2160C
YDL2170C
YDR2170W
YDL2180W
YDR2180C
YDL2190C
YDR2190W
YDL2200W
YDR2200C
YDL2210C
YDR2210W
YDL2220C
YDR2220W
YDL2230W
YDR2230C
YDL2240C
YDR2240W
YDL2250C
YDR2250W
YDL2260W
YDR2260C
YDL2270C
YDR2270W
YDL2280W
YDR2280C
YDL2290C
YDR2290W
YDL2300W
YDR2300C
YDL2310C
YDR2310W
YDL2320C
YDR2320W
YDL2330W
YDR2330C
YDL2340C
YDR2340W
YDL2350C
YDR2350W
YDL2360W
YDR2360C
YDL2370C
YDR2370W
YDL2380W
YDR2380C
YDL2390C
YDR2390W
YDL2400W
YDR2400C
YDL2410C
YDR2410W
YDL2420C
YDR2420W
YDL2430W
YDR2430C
YDL2440C
YDR2440W
YDL2450C
YDR2450W
YDL2460W
YDR2460C
YDL2470C
YDR2470W
YDL2480W
YDR2480C
YDL2490C
YDR2490W
YDL2500W
YDR2500C
YDL2510C
YDR2510W
YDL2520C
YDR2520W
YDL2530W
YDR2530C
YDL2540C
YDR2540W
YDL2550C
YDR2550W
YDL2560W
YDR2560C
YDL2570C
YDR2570W
YDL2580W
YDR2580C
YDL2590C
YDR2590W
YDL2600W
YDR2600C
YDL2610C
YDR2610W
YDL2620C
YDR2620W
YDL2630W
YDR2630C
YDL2640C
YDR2640W
YDL2650C
YDR2650W
YDL2660W
YDR2660C
YDL2670C
YDR2670W
YDL2680W
YDR2680C
YDL2690C
YDR2690W
YDL2700W
YDR2700C
YDL2710C
YDR2710W
YDL2720C
YDR2720W
YDL2730W
YDR2730C
YDL2740C
YDR2740W
YDL2750C
YDR2750W
YDL2760W
YDR2760C
YDL2770C
YDR2770W
YDL2780W
YDR2780C
YDL2790C
YDR2790W
YDL2800W
YDR2800C
YDL2810C
YDR2810W
YDL2820C
YDR2820W
YDL2830W
YDR2830C
YDL2840C
YDR2840W
YDL2850C
YDR2850W
YDL2860W
YDR2860C
YDL2870C
YDR2870W
YDL2880W
YDR2880C
YDL2890C
YDR2890W
YDL2900W
YDR2900C
YDL2910C
YDR2910W
YDL2920C
YDR2920W
YDL2930W
YDR2930C
YDL2940C
YDR2940W
YDL2950C
YDR2950W
YDL2960W
YDR2960C
YDL2970C
YDR2970W
YDL2980W
YDR2980C
YDL2990C
YDR2990W
YDL3000W
YDR3000C
YDL3010C
YDR3010W
YDL3020C
YDR3020W
YDL3030W
YDR3030C
YDL3040C
YDR3040W
YDL3050C
YDR3050W
YDL3060W
YDR3060C
YDL3070C
YDR3070W
YDL3080W
YDR3080C
YDL3090C
YDR3090W
YDL3100W
YDR3100C
YDL3110C
YDR3110W
YDL3120C
YDR3120W
YDL3130W
YDR3130C
YDL3140C
YDR3140W
YDL3150C
YDR3150W
YDL3160W
YDR3160C
YDL3170C
YDR3170W
YDL3180W
YDR3180C
YDL3190C
YDR3190W
YDL3200W
YDR3200C
YDL3210C
YDR3210W
YDL3220C
YDR3220W
YDL3230W
YDR3230C
YDL3240C
YDR3240W
YDL3250C
YDR3250W
YDL3260W
YDR3260C
YDL3270C
YDR3270W
YDL3280W
YDR3280C
YDL3290C
YDR3290W
YDL3300W
YDR3300C
YDL3310C
YDR3310W
YDL3320C
YDR3320W
YDL3330W
YDR3330C
YDL3340C
YDR3340W
YDL3350C
YDR3350W
YDL3360W
YDR3360C
YDL3370C
YDR3370W
YDL3380W
YDR3380C
YDL3390C
YDR3390W
YDL3400W
YDR3400C
YDL3410C
YDR3410W
YDL3420C
YDR3420W
YDL3430W
YDR3430C
YDL3440C
YDR3440W
YDL3450C
YDR3450W
YDL3460W
YDR3460C
YDL3470C
YDR3470W
YDL3480W
YDR3480C
YDL3490C
YDR3490W
YDL3500W
YDR3500C
YDL3510C
YDR3510W
YDL3520C
YDR3520W
YDL3530W
YDR3530C
YDL3540C
YDR3540W
YDL3550C
YDR3550W
YDL3560W
YDR3560C
YDL3570C
YDR3570W
YDL3580W
YDR3580C
YDL3590C
YDR3590W
YDL3600W
YDR3600C
YDL3610C
YDR3610W
YDL3620C
YDR3620W
YDL3630W
YDR3630C
YDL3640C
YDR3640W
YDL3650C
YDR3650W
YDL3660W
YDR3660C
YDL3670C
YDR3670W
YDL3680W
YDR3680C
YDL3690C
YDR3690W
YDL3700W
YDR3700C
YDL3710C
YDR3710W
YDL3720C
YDR3720W
YDL3730W
YDR3730C
YDL3740C
YDR3740W
YDL3750C
YDR3750W
YDL3760W
YDR3760C
YDL3770C
YDR3770W
YDL3780W
YDR3780C
YDL3790C
YDR3790W
YDL3800W
YDR3800C
YDL3810C
YDR3810W
YDL3820C
YDR3820W
YDL3830W
YDR3830C
YDL3840C
YDR3840W
YDL3850C
YDR3850W
YDL3860W
YDR3860C
YDL3870C
YDR3870W
YDL3880W
YDR3880C
YDL3890C
YDR3890W
YDL3900W
YDR3900C
YDL3910C
YDR3910W
YDL3920C
YDR3920W
YDL3930W
YDR3930C
YDL3940C
YDR3940W
YDL3950C
YDR3950W
YDL3960W
YDR3960C
YDL3970C
YDR3970W
YDL3980W
YDR3980C
YDL3990C
YDR3990W
YDL4000W
YDR4000C
YDL4010C
YDR4010W
YDL4020C
YDR4020W
YDL4030W
YDR4030C
YDL4040C
YDR4040W
YDL4050C
YDR4050W
YDL4060W
YDR4060C
YDL4070C
YDR4070W
YDL4080W
YDR4080C
YDL4090C
YDR4090W
YDL4100W
YDR4100C
YDL4110C
YDR4110W
YDL4120C
YDR4120W
YDL4130W
YDR4130C
YDL4140C
YDR4140W
YDL4150C
YDR4150W
YDL4160W
YDR4160C
YDL4170C
YDR4170W
YDL4180W
YDR4180C
YDL4190C
YDR4190W
YDL4200W
YDR4200C
YDL4210C
YDR4210W
YDL4220C
YDR4220W
YDL4230W
YDR4230C
YDL4240C
YDR4240W
YDL4250C
YDR4250W
YDL4260W
YDR4260C
YDL4270C
YDR4270W
YDL4280W
YDR4280C
YDL4290C
YDR4290W
YDL4300W
YDR4300C
YDL4310C
YDR4310W
YDL4320C
YDR4320W
YDL4330W
YDR4330C
YDL4340C
YDR4340W
YDL4350C
YDR4350W
YDL4360W
YDR4360C
YDL4370C
YDR4370W
YDL4380W
YDR4380C
YDL4390C
YDR4390W
YDL4400W
YDR4400C
YDL4410C
YDR4410W
YDL4420C
YDR4420W
YDL4430W
YDR4430C
YDL4440C
YDR4440W
YDL4450C
YDR4450W
YDL4460W
YDR4460C
YDL4470C
YDR4470W
YDL4480W
YDR4480C
YDL4490C
YDR4490W
YDL4500W
YDR4500C
YDL4510C
YDR4510W
YDL4520C
YDR4520W
YDL4530W
YDR4530C
YDL4540C
YDR4540W
YDL4550C
YDR4550W
YDL4560W
YDR4560C
YDL4570C
YDR4570W
YDL4580W
YDR4580C
YDL4590C
YDR4590W
YDL4600W
YDR4600C
YDL4610C
YDR4610W
YDL4620C
YDR4620W
YDL4630W
YDR4630C
YDL4640C
YDR4640W
YDL4650C
YDR4650W
YDL4660W
YDR4660C
YDL4670C
YDR4670W
YDL4680W
YDR4680C
YDL4690C
YDR4690W
YDL4700W
YDR4700C
YDL4710C
YDR4710W
YDL4720C
YDR4720W
YDL4730W
YDR4730C
YDL4740C
YDR4740W
YDL4750C
YDR4750W
YDL4760W
YDR4760C
YDL4770C
YDR4770W
YDL4780W
YDR4780C
YDL4790C
YDR4790W
YDL4800W
YDR4800C
YDL4810C
YDR4810W
YDL4820C
YDR4820W
YDL4830W
YDR4830C
YDL4840C
YDR4840W
YDL4850C
YDR4850W
YDL4860W
YDR4860C
YDL4870C
YDR4870W
YDL4880W
YDR4880C
YDL4890C
YDR4890W
YDL4900W
YDR4900C
YDL4910C
YDR4910W
YDL4920C
YDR4920W
YDL4930W
YDR4930C
YDL4940C
YDR4940W
YDL4950C
YDR4950W
YDL4960W
YDR4960C
YDL4970C
YDR4970W
YDL4980W
YDR4980C
YDL4990C
YDR4990W
YDL5000W
YDR5000C
YDL5010C
YDR5010W
YDL5020C
YDR5020W
YDL5030W
YDR5030C
YDL5040C
YDR5040W
YDL5050C
YDR5050W
YDL5060W
YDR5060C
YDL5070C
YDR5070W
YDL5080W
YDR5080C
YDL5090C
YDR5090W
YDL5100W
YDR5100C
YDL5110C
YDR5110W
YDL5120C
YDR5120W
YDL5130W
YDR5130C
YDL5140C
YDR5140W
YDL5150C
YDR5150W
YDL5160W
YDR5160C
YDL5170C
YDR5170W
YDL5180W
YDR5180C
YDL5190C
YDR5190W
YDL5200W
YDR5200C
YDL5210C
YDR5210W
YDL5220C
YDR5220W
YDL5230W
YDR5230C
YDL5240C
YDR5240W
YDL5250C
YDR5250W
YDL5260W
YDR5260C
YDL5270C
YDR5270W
YDL5280W
YDR5280C
YDL5290C
YDR5290W
YDL5300W
YDR5300C
YDL5310C
YDR5310W
YDL5320C
YDR5320W
YDL5330W
YDR5330C
YDL5340C
YDR5340W
YDL5350C
YDR5350W
YDL5360W
YDR5360C
YDL5370C
YDR5370W
YDL5380W
YDR5380C
YDL5390C
YDR5390W
YDL5400W
YDR5400C
YDL5410C
YDR5410W
YDL5420C
YDR5420W
YDL5430W
YDR5430C
YDL5440C
YDR5440W
YDL5450C
YDR5450W
YDL5460W
YDR5460C
YDL5470C
YDR5470W
YDL5480W
YDR5480C
YDL5490C
YDR5490W
YDL5500W
YDR5500C
YDL5510C
YDR5510W
YDL5520C
YDR5520W
YDL5530W
YDR5530C
YDL5540C
YDR5540W
YDL5550C
YDR5550W
YDL5560W
YDR5560C
YDL5570C
YDR5570W
YDL5580W
YDR5580C
YDL5590C
YDR5590W
YDL5600W
YDR5600C
YDL5610C
YDR5610W
YDL5620C
YDR5620W
YDL5630W
YDR5630C
YDL5640C
YDR5640W
YDL5650C
YDR5650W
YDL5660W
YDR5660C
YDL5670C
YDR5670W
YDL5680W
YDR5680C
YDL5690C
YDR5690W
YDL5700W
YDR5700C
YDL5710C
YDR5710W
YDL5720C
YDR5720W
YDL5730W
YDR5730C
YDL5740C
YDR5740W
YDL5750C
YDR5750W
YDL5760W
YDR5760C
YDL5770C
YDR5770W
YDL5780W
YDR5780C
YDL5790C
YDR5790W
YDL5800W
YDR5800C
YDL5810C
YDR5810W
YDL5820C
YDR5820W
YDL5830W
YDR5830C
YDL5840C
YDR5840W
YDL5850C
YDR5850W
YDL5860W
YDR5860C
YDL5870C
YDR5870W
YDL5880W
YDR5880C
YDL5890C
YDR5890W
YDL5900W
YDR5900C
YDL5910C
YDR5910W
YDL5920C
YDR5920W
YDL5930W
YDR5930C
YDL5940C
YDR5940W
YDL5950C
YDR5950W
YDL5960W
YDR5960C
YDL5970C
YDR5970W
YDL5980W
YDR5980C
YDL5990C
YDR5990W
YDL6000W
YDR6000C
YDL6010C
YDR6010W
YDL6020C
YDR6020W
YDL6030W
YDR6030C
YDL6040C
YDR6040W
YDL6050C
YDR6050W
YDL6060W
YDR6060C
YDL6070C
YDR6070W
YDL6080W
YDR6080C
YDL6090C
YDR6090W
YDL6100W
YDR6100C
YDL6110C
YDR6110W
YDL6120C
YDR6120W
YDL6130W
YDR6130C
YDL6140C
YDR6140W
YDL6150C
YDR6150W
YDL6160W
YDR6160C
YDL6170C
YDR6170W
YDL6180W
YDR6180C
YDL6190C
YDR6190W
YDL6200W
YDR6200C
YDL6210C
YDR6210W
YDL6220C
YDR6220W
YDL6230W
YDR6230C
YDL6240C
YDR6240W
YDL6250C
YDR6250W
YDL6260W
YDR6260C
YDL6270C
YDR6270W
YDL6280W
YDR6280C
YDL6290C
YDR6290W
YDL6300W
YDR6300C
YDL6310C
YDR6310W
YDL6320C
YDR6320W
YDL6330W
YDR6330C
YDL6340C
YDR6340W
YDL6350C
YDR6350W
YDL6360W
YDR6360C
YDL6370C
YDR6370W
YDL6380W
YDR6380C
YDL6390C
YDR6390W
YDL6400W
YDR6400C
YDL6410C
YDR6410W
YDL6420C
YDR6420W
YDL6430W
YDR6430C
YDL6440C
YDR6440W
YDL6450C
YDR6450W
YDL6460W
YDR6460C
YDL6470C
YDR6470W
YDL6480W
YDR6480C
YDL6490C
YDR6490W
YDL6500W
YDR6500C
YDL6510C
YDR6510W
YDL6520C
YDR6520W
YDL6530W
YDR6530C
YDL6540C
YDR6540W
YDL6550C
YDR6550W
YDL6560W
YDR6560C
YDL6570C
YDR6570W
YDL6580W
YDR6580C
YDL6590C
YDR6590W
YDL6600W
YDR6600C
YDL6610C
YDR6610W
YDL6620C
YDR6620W
YDL6630W
YDR6630C
YDL6640C
YDR6640W
YDL6650C
YDR6650W
YDL6660W
YDR6660C
YDL6670C
YDR6670W
YDL6680W
YDR6680C
YDL6690C
YDR6690W
YDL6700W
YDR6700C
YDL6710C
YDR6710W
YDL6720C
YDR6720W
YDL6730W
YDR6730C
YDL6740C
YDR6740W
YDL6750C
YDR6750W
YDL6760W
YDR6760C
YDL6770C
YDR6770W
YDL6780W
YDR6780C
YDL6790C
YDR6790W
YDL6800W
YDR6800C
YDL6810C
YDR6810W
YDL6820C
YDR6820W
YDL6830W
YDR6830C
YDL6840C
YDR6840W
YDL6850C
YDR6850W
YDL6860W
YDR6860C
YDL6870C
YDR6870W
YDL6880W
YDR6880C
YDL6890C
YDR6890W
YDL6900W
YDR6900C
YDL6910C
YDR6910W
YDL6920C
YDR6920W
YDL6930W
YDR6930C
YDL6940C
YDR6940W
YDL6950C
YDR6950W
YDL6960W
YDR6960C
YDL6970C
YDR6970W
YDL6980W
YDR6980C
YDL6990C
YDR6990W
YDL7000W
YDR7000C
YDL7010C
YDR7010W
YDL7020C
YDR7020W
YDL7030W
YDR7030C
YDL7040C
YDR7040W
YDL7050C
YDR7050W
YDL7060W
YDR7060C
YDL7070C
YDR7070W
YDL7080W
YDR7080C
YDL7090C
YDR7090W
YDL7100W
YDR7100C
YDL7110C
YDR7110W
YDL7120C
YDR7120W
YDL7130W
YDR7130C
YDL7140C
YDR7140W
YDL7150C
YDR7150W
YDL7160W
YDR7160C
YDL7170C
YDR7170W
YDL7180W
YDR7180C
YDL7190C
YDR7190W
YDL7200W
YDR7200C
YDL7210C
YDR7210W
YDL7220C
YDR7220W
YDL7230W
YDR7230C
YDL7240C
YDR7240W
YDL7250C
YDR7250W
YDL7260W
YDR7260C
YDL7270C
YDR7270W
YDL7280W
YDR7280C
YDL7290C
YDR7290W
YDL7300W
YDR7300C
YDL7310C
YDR7310W
YDL7320C
YDR7320W
YDL7330W
YDR7330C
YDL7340C
YDR7340W
YDL7350C
YDR7350W
YDL7360W
YDR7360C
YDL7370C
YDR7370W
YDL7380W
YDR7380C
YDL7390C
YDR7390W
YDL7400W
YDR7400C
YDL7410C
YDR7410W
YDL7420C
YDR7420W
YDL7430W
YDR7430C
YDL7440C
YDR7440W
YDL7450C
YDR7450W
YDL7460W
YDR7460C
YDL7470C
YDR7470W
YDL7480W
YDR7480C
YDL7490C
YDR7490W
YDL7500W
YDR7500C
YDL7510C
YDR7510W
YDL7520C
YDR7520W
YDL7530W
YDR7530C
YDL7540C
YDR7540W
YDL7550C
YDR7550W
YDL7560W
YDR7560C
YDL7570C
YDR7570W
YDL7580W
YDR7580C
YDL7590C
YDR7590W
YDL7600W
YDR7600C
YDL7610C
YDR7610W
YDL7620C
YDR7620W
YDL7630W
YDR7630C
YDL7640C
YDR7640W
YDL7650C
YDR7650W
YDL7660W
YDR7660C
YDL7670C
YDR7670W
YDL7680W
YDR7680C
YDL7690C
YDR7690W
YDL7700W
YDR7700C
YDL7710C
YDR7710W
YDL7720C
YDR7720W
YDL7730W
YDR7730C
YDL7740C
YDR7740W
YDL7750C
YDR7750W
YDL7760W
YDR7760C
YDL7770C
YDR7770W
YDL7780W
YDR7780C
YDL7790C
YDR7790W
YDL7800W
YDR7800C
YDL7810C
YDR7810W
YDL7820C
YDR7820W
YDL7830W
YDR7830C
YDL7840C
YDR7840W
YDL7850C
YDR7850W
YDL7860W
YDR7860C
YDL7870C
YDR7870W
YDL7880W
YDR7880C
YDL7890C
YDR7890W
YDL7900W
YDR7900C
YDL7910C
YDR7910W
YDL7920C
YDR7920W
YDL7930W
YDR7930C
YDL7940C
YDR7940W
YDL7950C
YDR7950W
YDL7960W
YDR7960C
YDL7970C
YDR7970W
YDL7980W
YDR7980C
YDL7990C
YDR7990W
YDL8000W
YDR8000C
YDL8010C
YDR8010W
YDL8020C
YDR8020W
YDL8030W
YDR8030C
YDL8040C
YDR8040W
YDL8050C
YDR8050W
YDL8060W
YDR8060C
YDL8070C
YDR8070W
YDL8080W
YDR8080C
YDL8090C
YDR8090W
YDL8100W
YDR8100C
YDL8110C
YDR8110W
YDL8120C
YDR8120W
YDL8130W
YDR8130C
YDL8140C
YDR8140W
YDL8150C
YDR8150W
YDL8160W
YDR8160C
YDL8170C
YDR8170W
YDL8180W
YDR8180C
YDL8190C
YDR8190W
YDL8200W
YDR8200C
YDL8210C
YDR8210W
YDL8220C
YDR8220W
YDL8230W
YDR8230C
YDL8240C
YDR8240W
YDL8250C
YDR8250W
YDL8260W
YDR8260C
YDL8270C
YDR8270W
YDL8280W
YDR8280C
YDL8290C
YDR8290W
YDL8300W
YDR8300C
YDL8310C
YDR8310W
YDL8320C
YDR8320W
YDL8330W
YDR8330C
YDL8340C
YDR8340W
YDL8350C
YDR8350W
YDL8360W
YDR8360C
YDL8370C
YDR8370W
YDL8380W
YDR8380C
YDL8390C
YDR8390W
YDL8400W
YDR8400C
YDL8410C
YDR8410W
YDL8420C
YDR8420W
YDL8430W
YDR8430C
YDL8440C
YDR8440W
YDL8450C
YDR8450W
YDL8460W
YDR8460C
YDL8470C
YDR8470W
YDL8480W
YDR8480C
YDL8490C
YDR8490W
YDL8500W
YDR8500C
YDL8510C
YDR8510W
YDL8520C
YDR8520W
YDL8530W
YDR8530C
YDL8540C
YDR8540W
YDL8550C
YDR8550W
YDL8560W
YDR8560C
YDL8570C
YDR8570W
YDL8580W
YDR8580C
YDL8590C
YDR8590W
YDL8600W
YDR8600C
YDL8610C
YDR8610W
YDL8620C
YDR8620W
YDL8630W
YDR8630C
YDL8640C
YDR8640W
YDL8650C
YDR8650W
YDL8660W
YDR8660C
YDL8670C
YDR8670W
YDL8680W
YDR8680C
YDL8690C
YDR8690W
YDL8700W
YDR8700C
YDL8710C
YDR8710W
YDL8720C
YDR8720W
YDL8730W
YDR8730C
YDL8740C
YDR8740W
YDL8750C
YDR8750W
YDL8760W
YDR8760C
YDL8770C
YDR8770W
YDL8780W
YDR8780C
YDL8790C
YDR8790W
YDL8800W
YDR8800C
YDL8810C
YDR8810W
YDL8820C
YDR8820W
YDL8830W
YDR8830C
YDL8840C
YDR8840W
YDL8850C
YDR8850W
YDL8860W
YDR8860C
YDL8870C
YDR8870W
YDL8880W
YDR8880C
YDL8890C
YDR8890W
YDL8900W
YDR8900C
YDL8910C
YDR8910W
YDL8920C
YDR8920W
YDL8930W
YDR8930C
YDL8940C
YDR8940W
YDL8950C
YDR8950W
YDL8960W
YDR8960C
YDL8970C
YDR8970W
YDL8980W
YDR8980C
YDL8990C
YDR8990W
YDL9000W
YDR9000C
YDL9010C
YDR9010W
YDL9020C
YDR9020W
YDL9030W
YDR9030C
YDL9040C
YDR9040W
YDL9050C
YDR9050W
YDL9060W
YDR9060C
YDL9070C
YDR9070W
YDL9080W
YDR9080C
YDL9090C
YDR9090W
YDL9100W
YDR9100C
YDL9110C
YDR9110W
YDL9120C
YDR9120W
YDL9130W
YDR9130C
YDL9140C
YDR9140W
YDL9150C
YDR9150W
YDL9160W
YDR9160C
YDL9170C
YDR9170W
YDL9180W
YDR9180C
YDL9190C
YDR9190W
YDL9200W
YDR9200C
YDL9210C
YDR9210W
YDL9220C
YDR9220W
YDL9230W
YDR9230C
YDL9240C
YDR9240W
YDL9250C
YDR9250W
YDL9260W
YDR9260C
YDL9270C
YDR9270W
YDL9280W
YDR9280C
YDL9290C
YDR9290W
YDL9300W
YDR9300C
YDL9310C
YDR9310W
YDL9320C
YDR9320W
YDL9330W
YDR9330C
YDL9340C
YDR9340W
YDL9350C
YDR9350W
YDL9360W
YDR9360C
YDL9370C
YDR9370W
YDL9380W
YDR9380C
YDL9390C
YDR9390W
YDL9400W
YDR9400C
YDL9410C
YDR9410W
YDL9420C
YDR9420W
YDL9430W
YDR9430C
YDL9440C
YDR9440W
YDL9450C
YDR9450W
YDL9460W
YDR9460C
YDL9470C
YDR9470W
YDL9480W
YDR9480C
YDL9490C
YDR9490W
YDL9500W
YDR9500C
YDL9510C
YDR9510W
YDL9520C
YDR9520W
YDL9530W
YDR9530C
YDL9540C
YDR9540W
YDL9550C
YDR9550W
YDL9560W
YDR9560C
YDL9570C
YDR9570W
YDL9580W
YDR9580C
YDL9590C
YDR9590W
YDL9600W
YDR9600C
YDL9610C
YDR9610W
YDL9620C
YDR9620W
YDL9630W
YDR9630C
YDL9640C
YDR9640W
YDL9650C
YDR9650W
YDL9660W
YDR9660C
YDL9670C
YDR9670W
YDL9680W
YDR9680C
YDL9690C
YDR9690W
YDL9700W
YDR9700C
YDL9710C
YDR9710W
YDL9720C
YDR9720W
YDL9730W
YDR9730C
YDL9740C
YDR9740W
YDL9750C
YDR9750W
YDL9760W
YDR9760C
YDL9770C
YDR9770W
YDL9780W
YDR9780C
YDL9790C
YDR9790W
YDL9800W
YDR9800C
YDL9810C
YDR9810W
YDL9820C
YDR9820W
YDL9830W
YDR9830C
YDL9840C
YDR9840W
YDL9850C
YDR9850W
YDL9860W
YDR9860C
YDL9870C
YDR9870W
YDL9880W
YDR9880C
YDL9890C
YDR9890W
YDL9900W
YDR9900C
YDL9910C
YDR9910W
YDL9920C
YDR9920W
YDL9930W
YDR9930C
YDL9940C
YDR9940W
YDL9950C
YDR9950W
YDL9960W
YDR9960C
YDL9970C
YDR9970W
YDL9980W
YDR9980C
YDL9990C
YDR9990W
YDL10000W
YDR10000C
1e−20
1e−10
0.001
0.1
0.1+

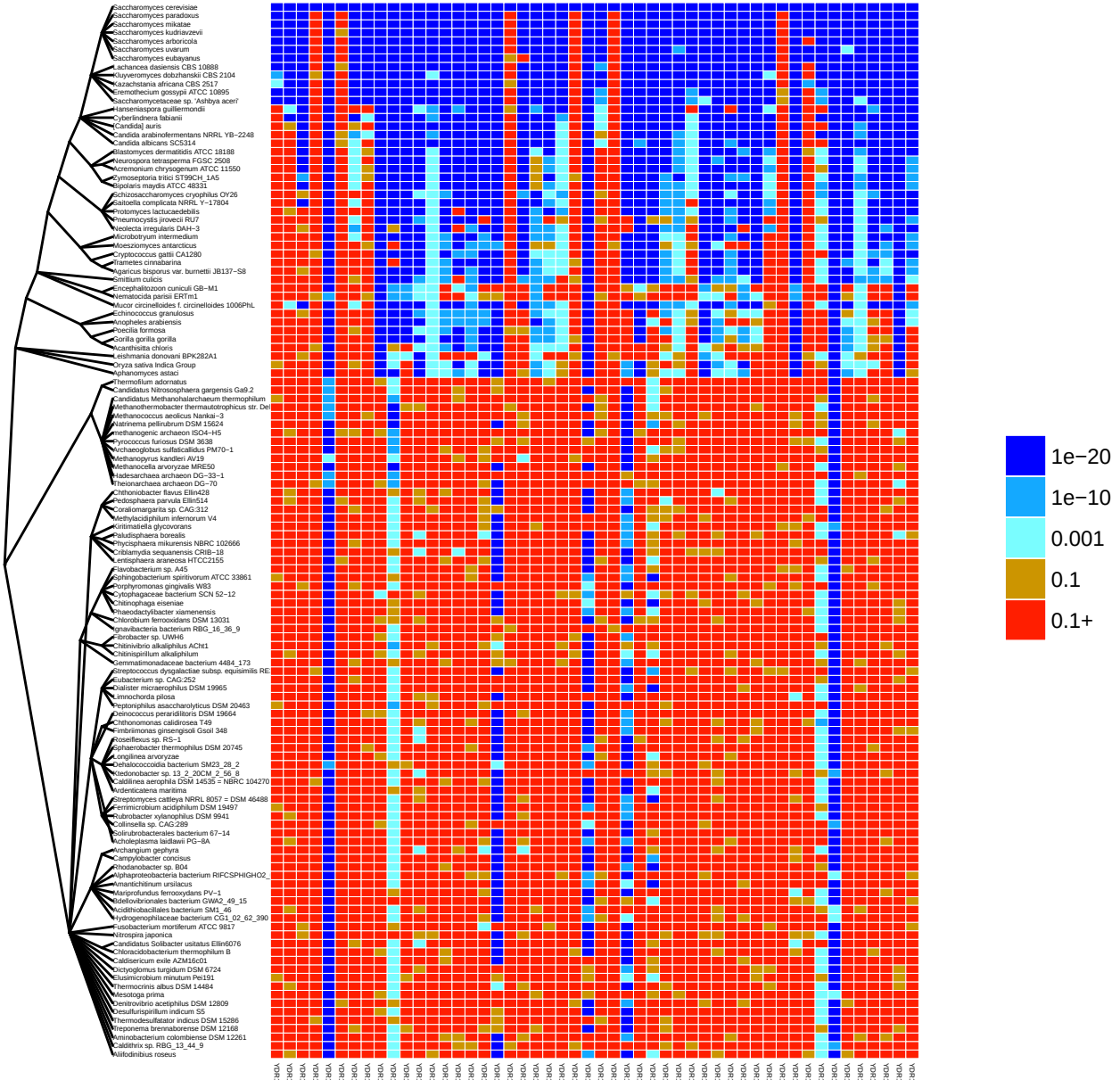

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
YDL184C
YDL184W
YDL147W
YDL146C
YDL146W
YDL157W
YDL157C
YDL153C
YDL154C
YDL154W
YDL156W
YDL157C
YDL136C
YDL139W-A
YDL139W
YDL139C
YDL139C-B
YDL138W
YDL138C
YDL138C-A
YDL141W
YDL142C
YDL143W
YDL145C
YDL146W
YDL148C
YDL149C
YDL150W
YDL152W
YDL170W
YDL171C
YDL172C
YDL173W
YDL174C
YDL175C
YDL176C
YDL177C
YDL178W
YDL179W
YDL180W
YDL181W
YDL182C
YDL183C
YDL183W
YDL185W
YDL186C
YDL186C-A
YDL187W
YDL188C
YDL189W
YDL190C
1e−20
1e−10
0.001
0.1
0.1+

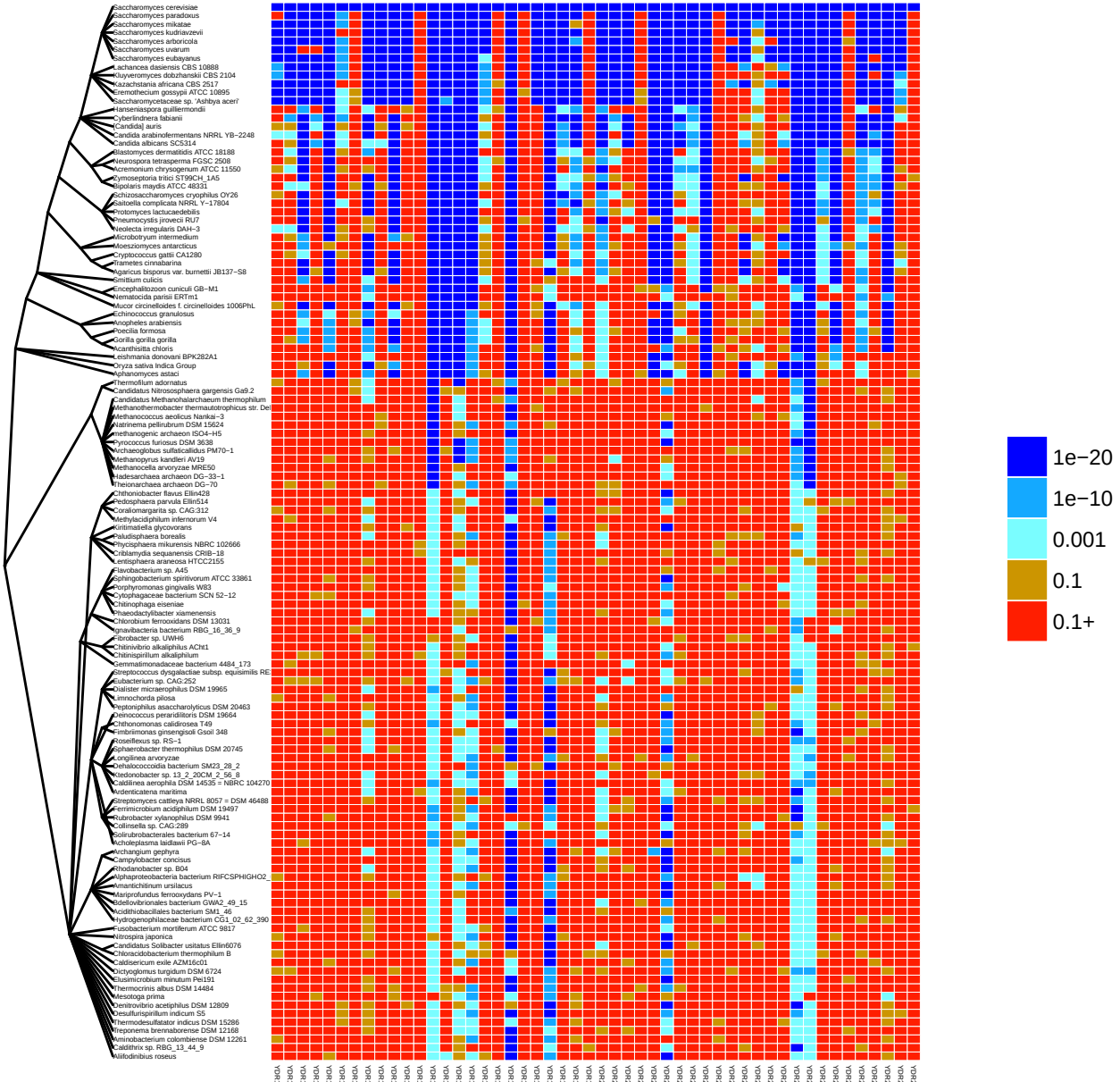

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YDL184W
YDL192W
YDL193W
YDL194W
YDL196W
YDL197C
YDL198C
YDL199C
YDL200C
YDL201W
YDL202W
YDL203C
YDL204W
YDL205C
YDL206W
YDL207W
YDL208W
YDL209C
YDL210W
YDL211C
YDL212W
YDL213C
YDL214C
YDL215C
YDL216C
YDL217C
YDL218W
YDL219W
YDL220C
YDL221W
YDL222C
YDL223C
YDL224C
YDL225W
YDL226C
YDL227C
YDL228C
YDL229W
YDL230W
YDL231W
YDL232W
YDL233W
YDL234C
YDL235C
YDL236W
YDL237W
YDL238C
YDL239C
YDL240C−A
1e−20
1e−10
0.001
0.1
0.1+

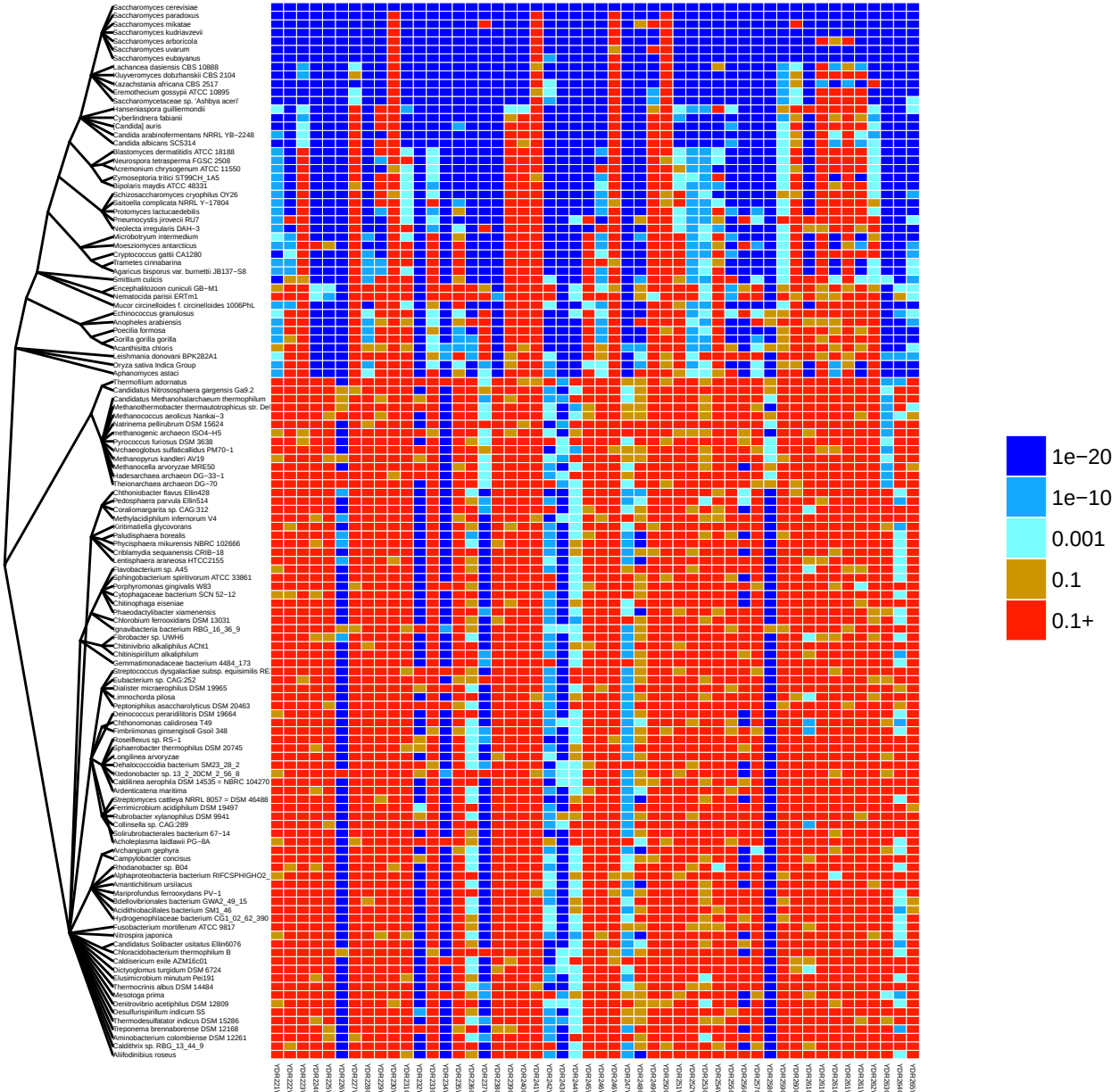

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YDA2404T
YDA2404W
YDA2404C
YDA2404W-A
YDA2404G
YDA2404F
YDA2404F-A
YDA2403C
YDA2403W
YDA2403W-A
YDA2403G
YDA2403F
YDA2403F-A
YDA2403E
YDA2403D
YDA2403T
YDA2402W
YDA2402F
YDA2402F-A
YDA2402G
YDA2402C
YDA2402D
YDA2402E
YDA2402T
YDA2402W-B
1e−20
1e−10
0.001
0.1
0.1+

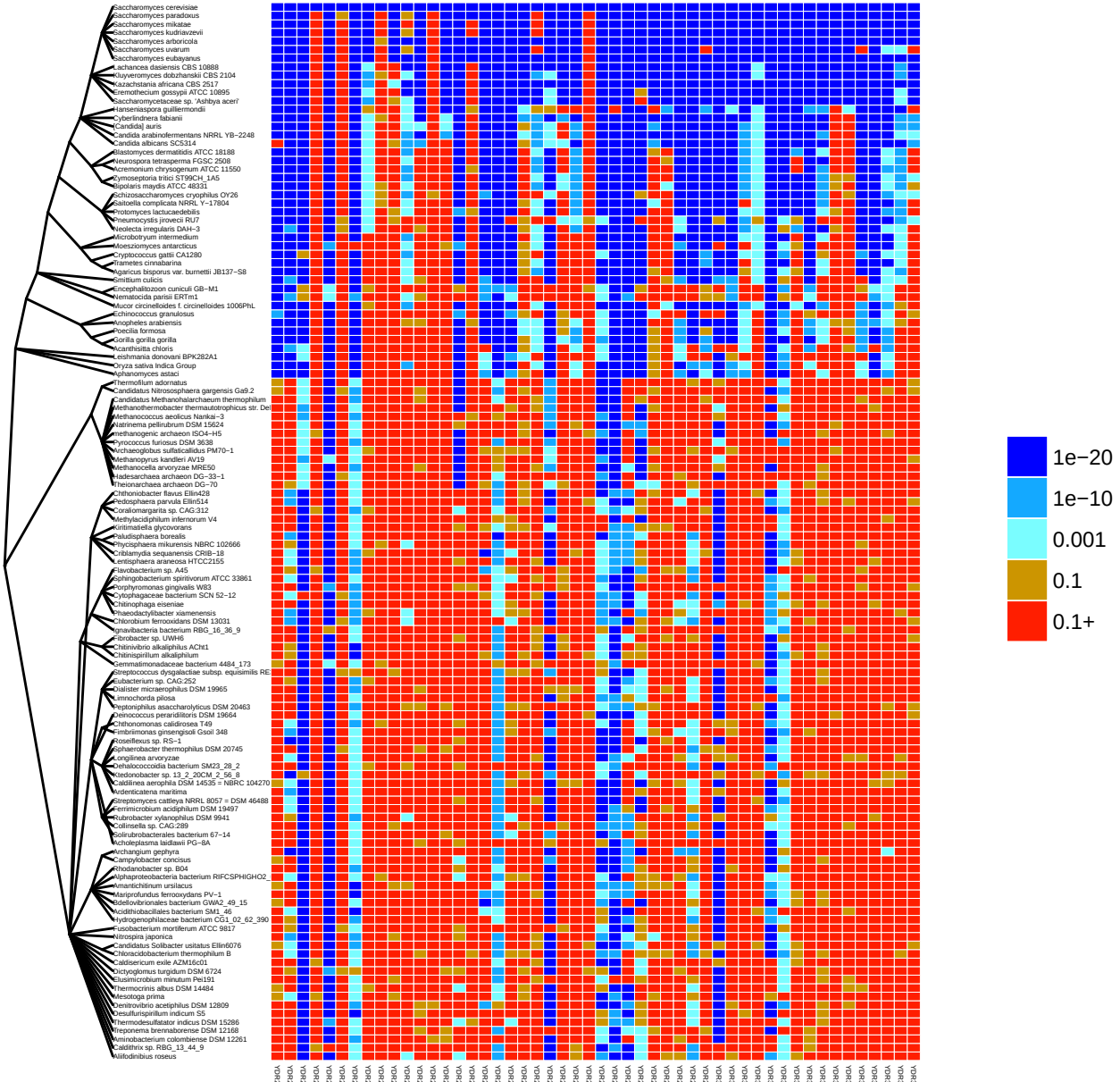

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa
Malassezia restricta
Ustilago maydis
Cryptococcus neoformans var. grubii
Cryptococcus gattii
Cryptococcus neoformans var. neoformans
Cryptococcus deuterogattii
Cryptococcus bacillisporus
Cryptococcus tetragattii
Cryptococcus decagattii
Cryptococcus amylolentus
Cryptococcus wingfieldii
Cryptococcus floridanus
Cryptococcus depauperatus
Cryptococcus gilbertii
Cryptococcus neoformans var.

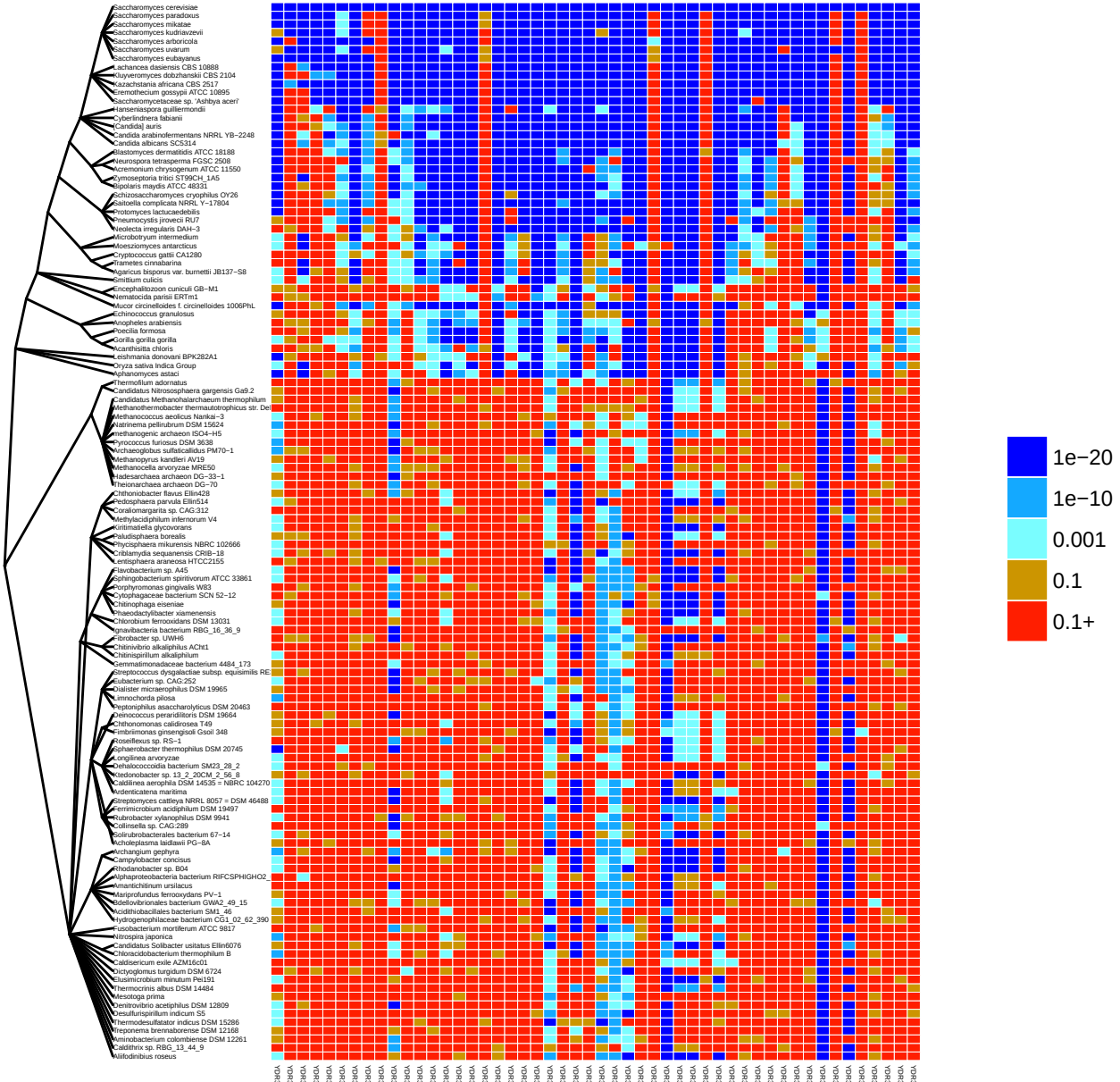

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physciphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

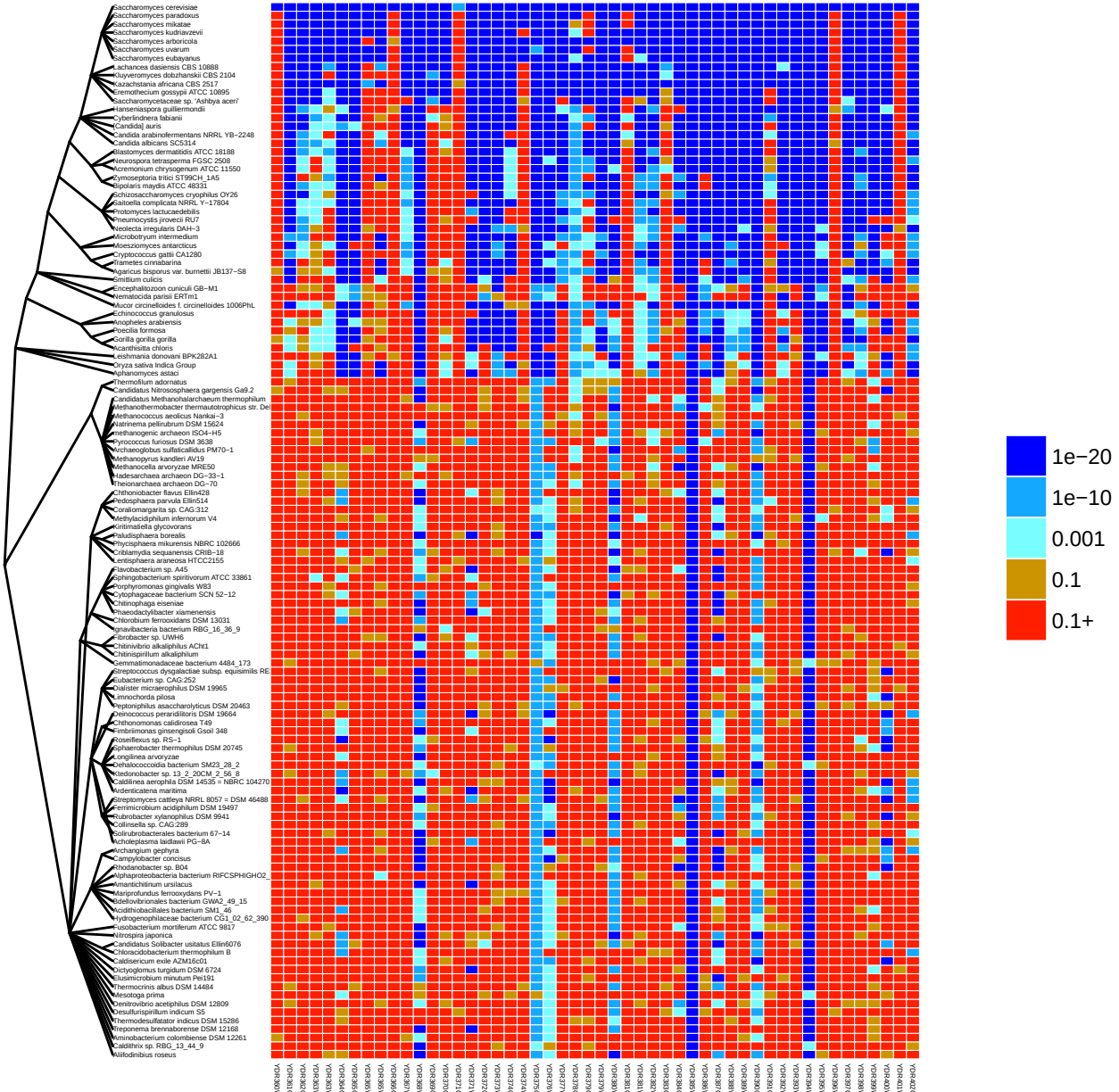

1e−20
1e−10
0.001
0.1
0.1+

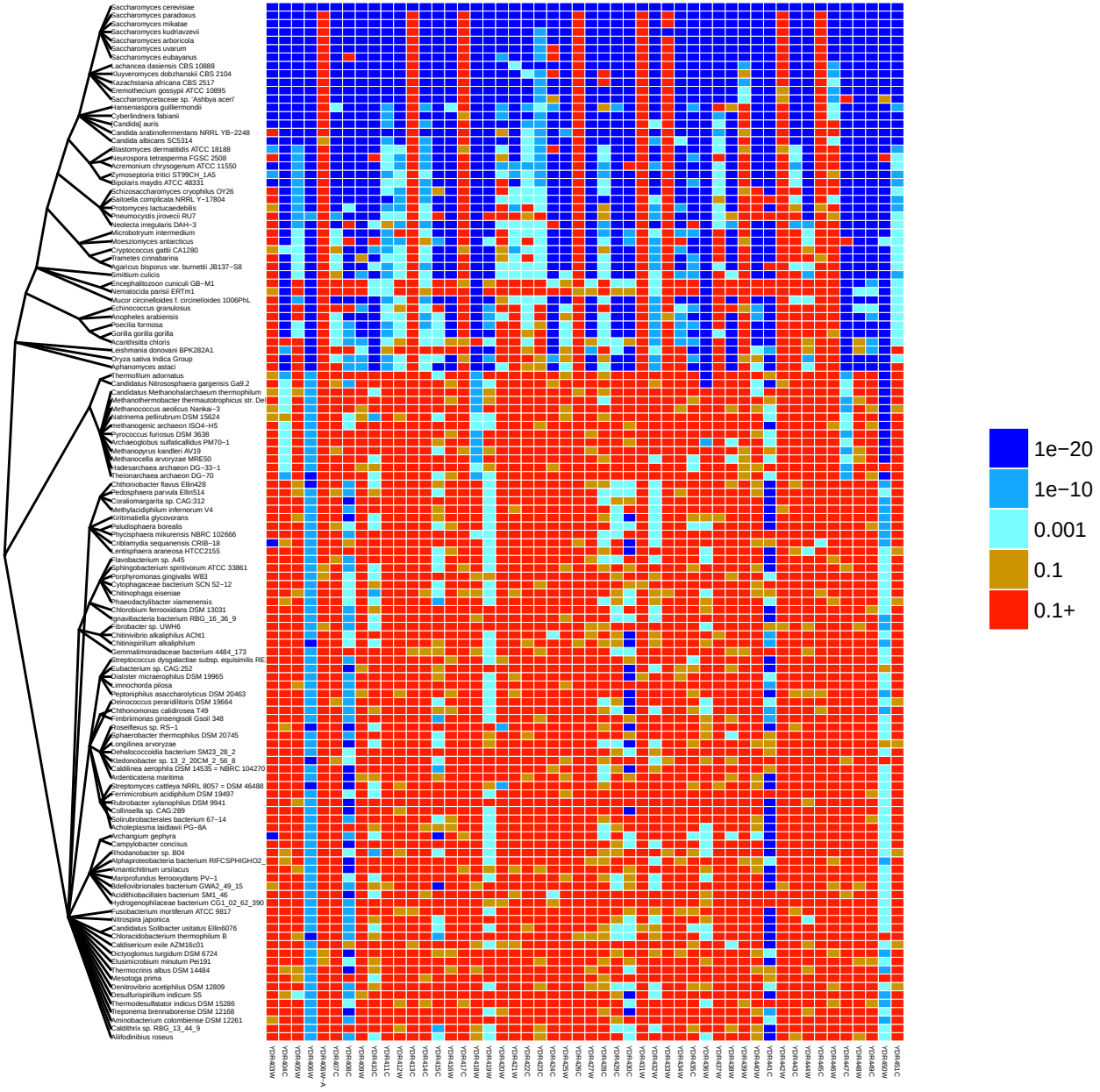

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aeosizomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

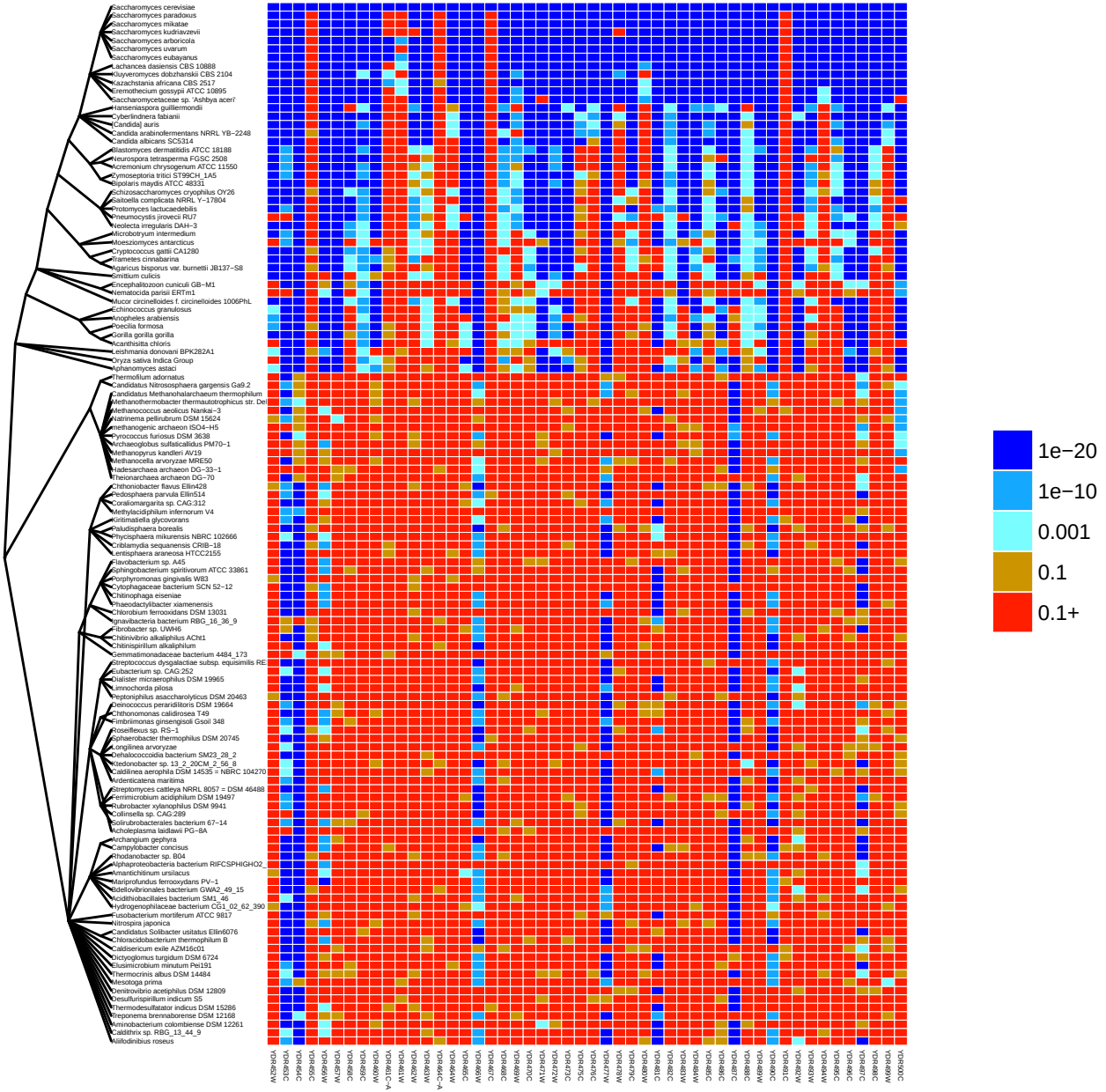

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Crib lamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
YDR236W-A
YDR236W-B
YDR236C
YDR236W
YDR236C
YDR236W
YDR236C
YDR236W

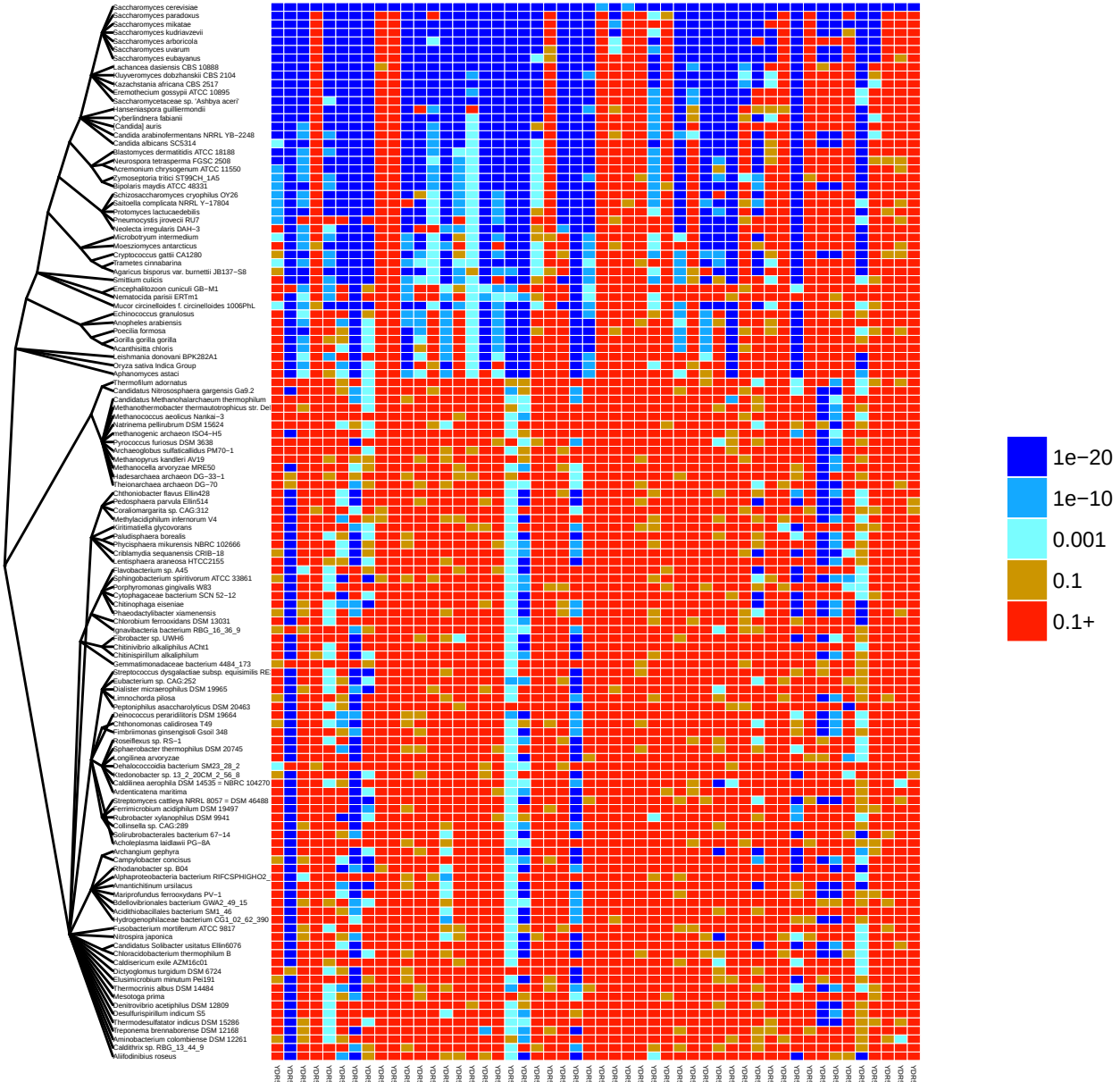

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aeosizomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

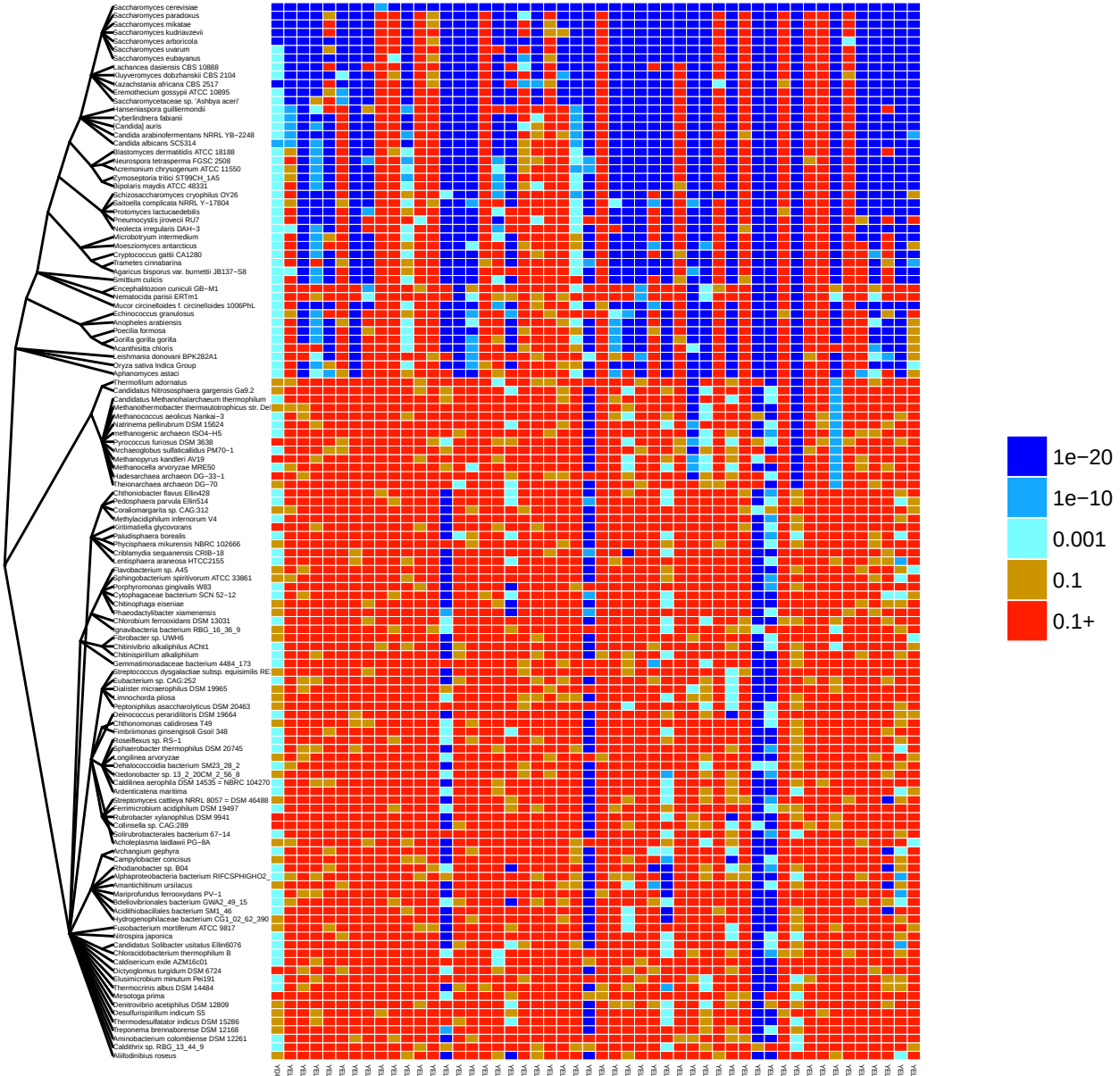

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Malassezia globosa CBS 7966
Malassezia sympodialis ATCC 42132
Malassezia furfur CBS 14141
Malassezia dermatis CBS 9555
Malassezia restricta CBS 7877
Malassezia yamatoensis CBS 9557
Malassezia slooffiae CBS 7956

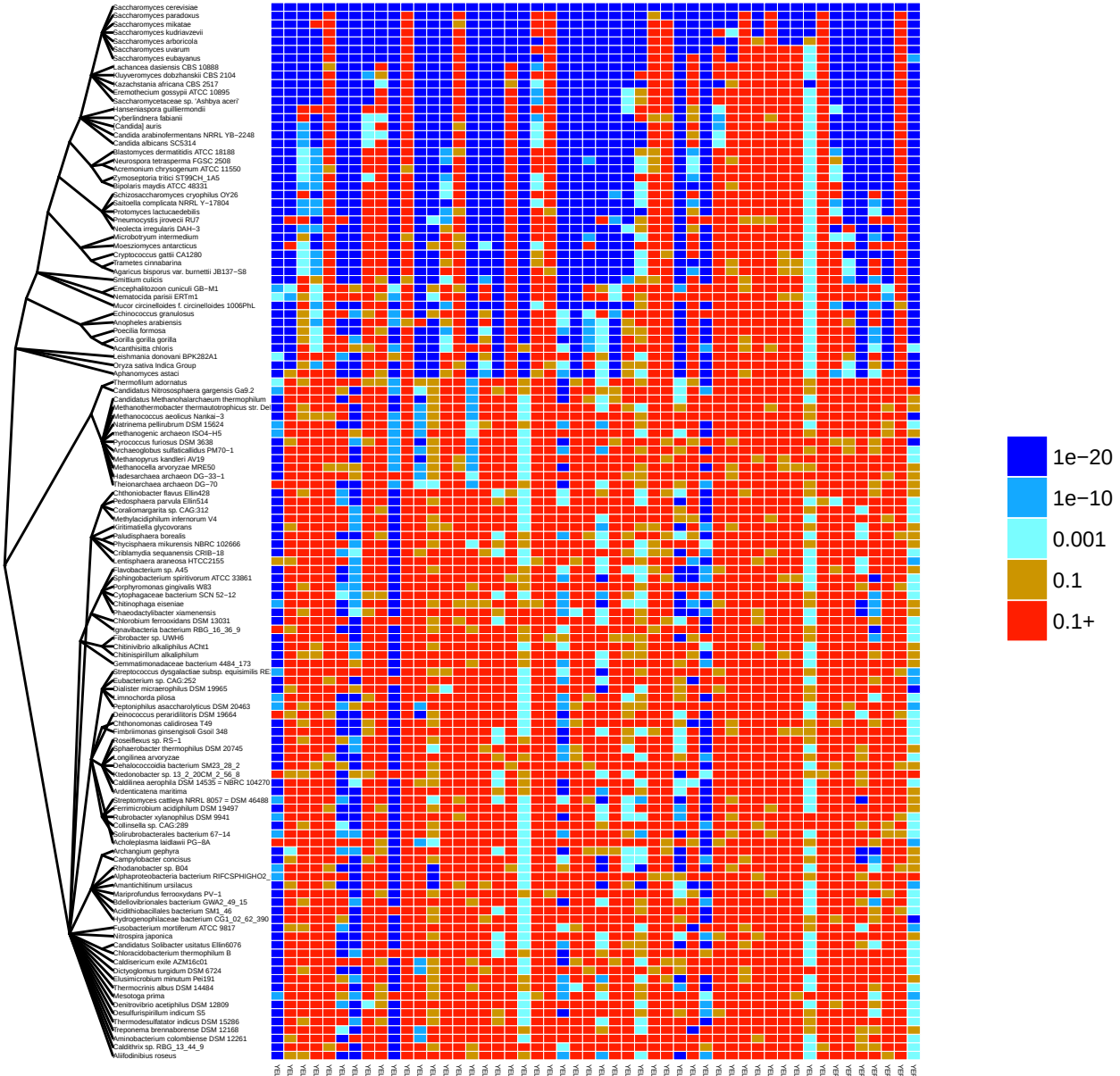

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YDR369W
YDR369C
YDR372C
YDR369W
YDR369W-A
YDR369C
YDR369W-B
YDR369C
YDR369W
YDR369C
YDR370C
YDR371C-A
YDR371W
YDR372C
YDR373W
YDR373C
YDR374W-A
YDR375C
YDR376W
YDR376C
YDR376C-A
YDR376W
YDR378W
YDR378C-A
YDR378W
YDR378C
YDR378C
YDR378C
YDR378C
YDR378W
YDR378W
YDR378W

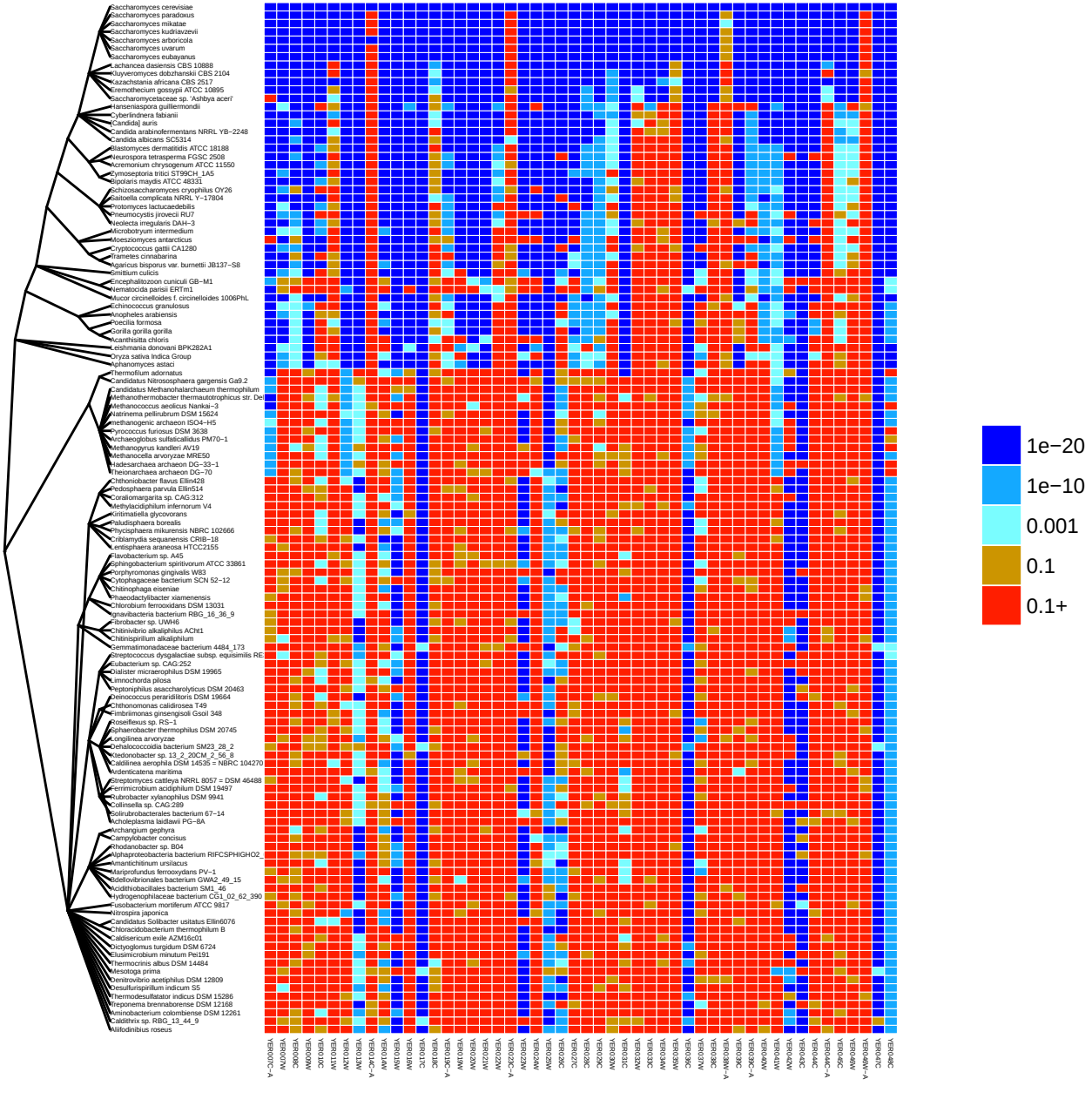

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

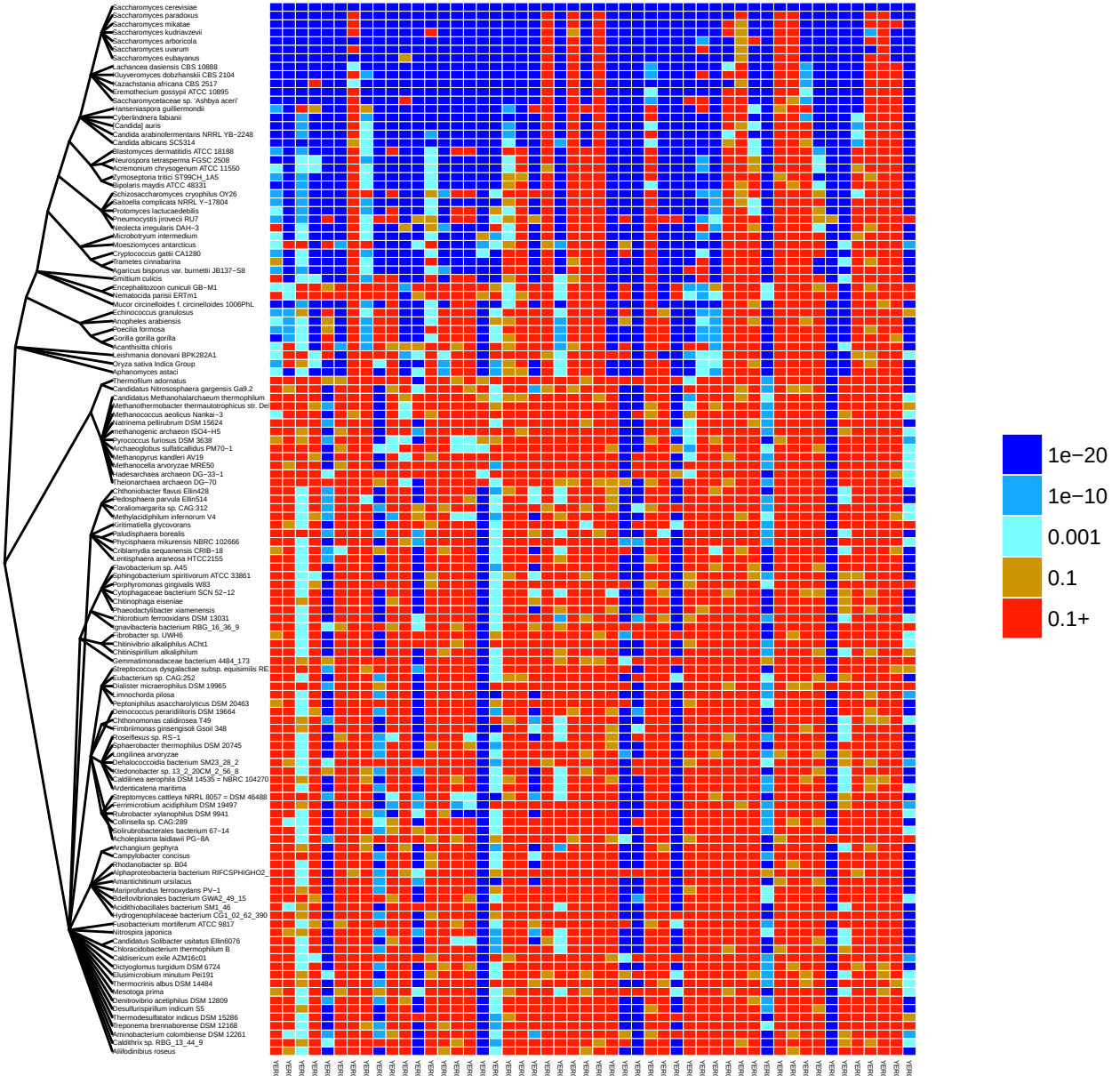

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

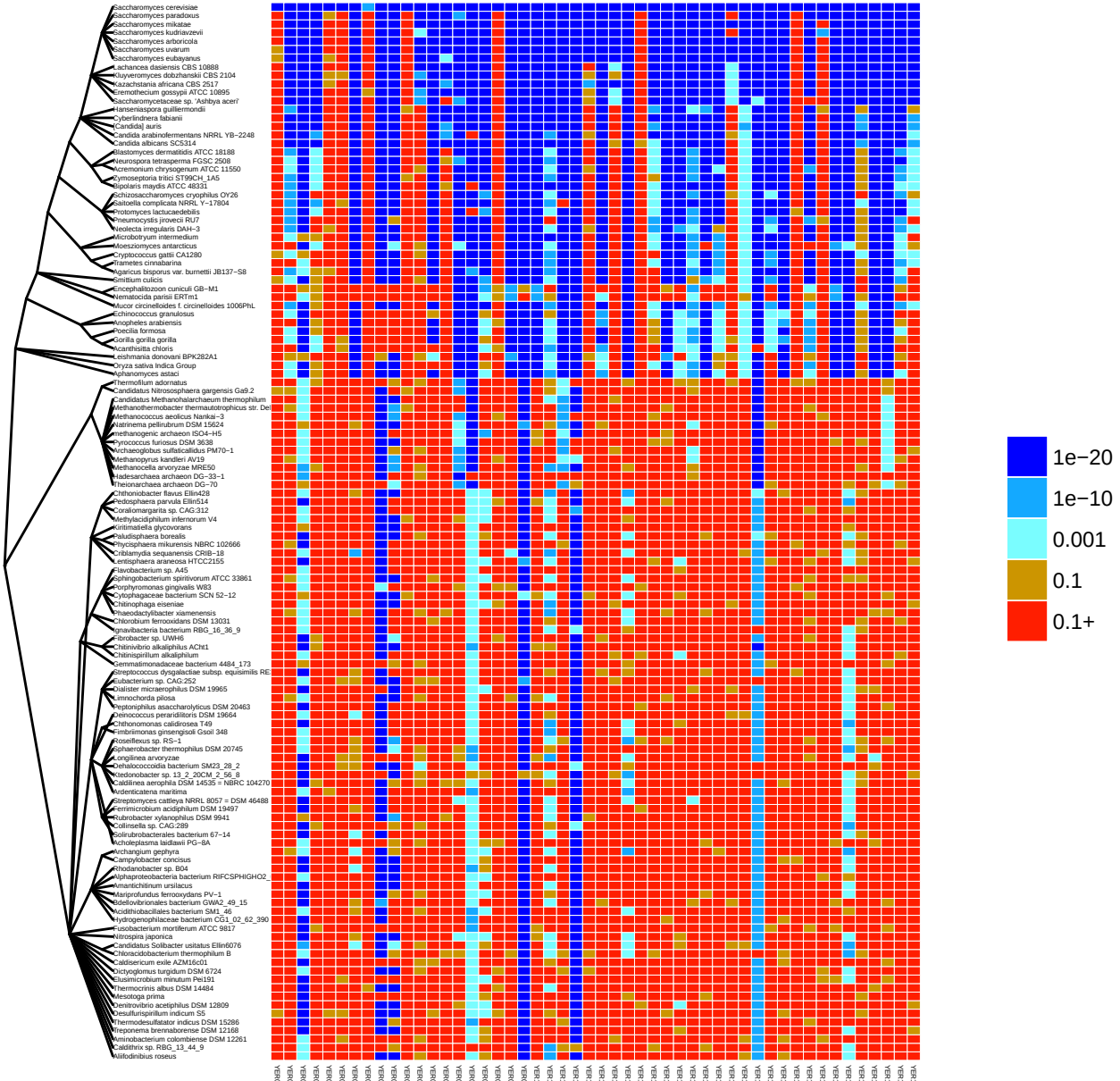

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

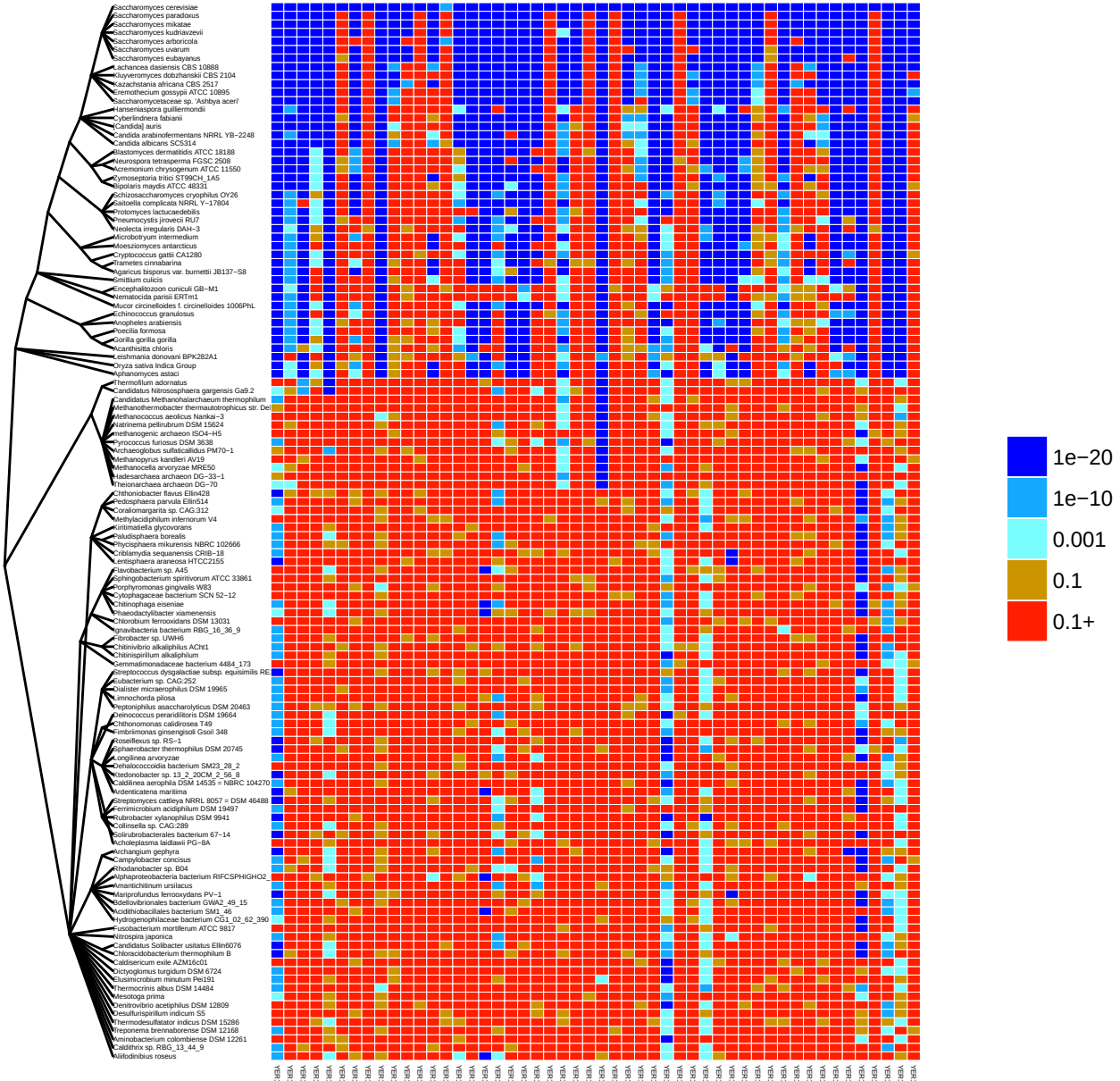

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma garita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

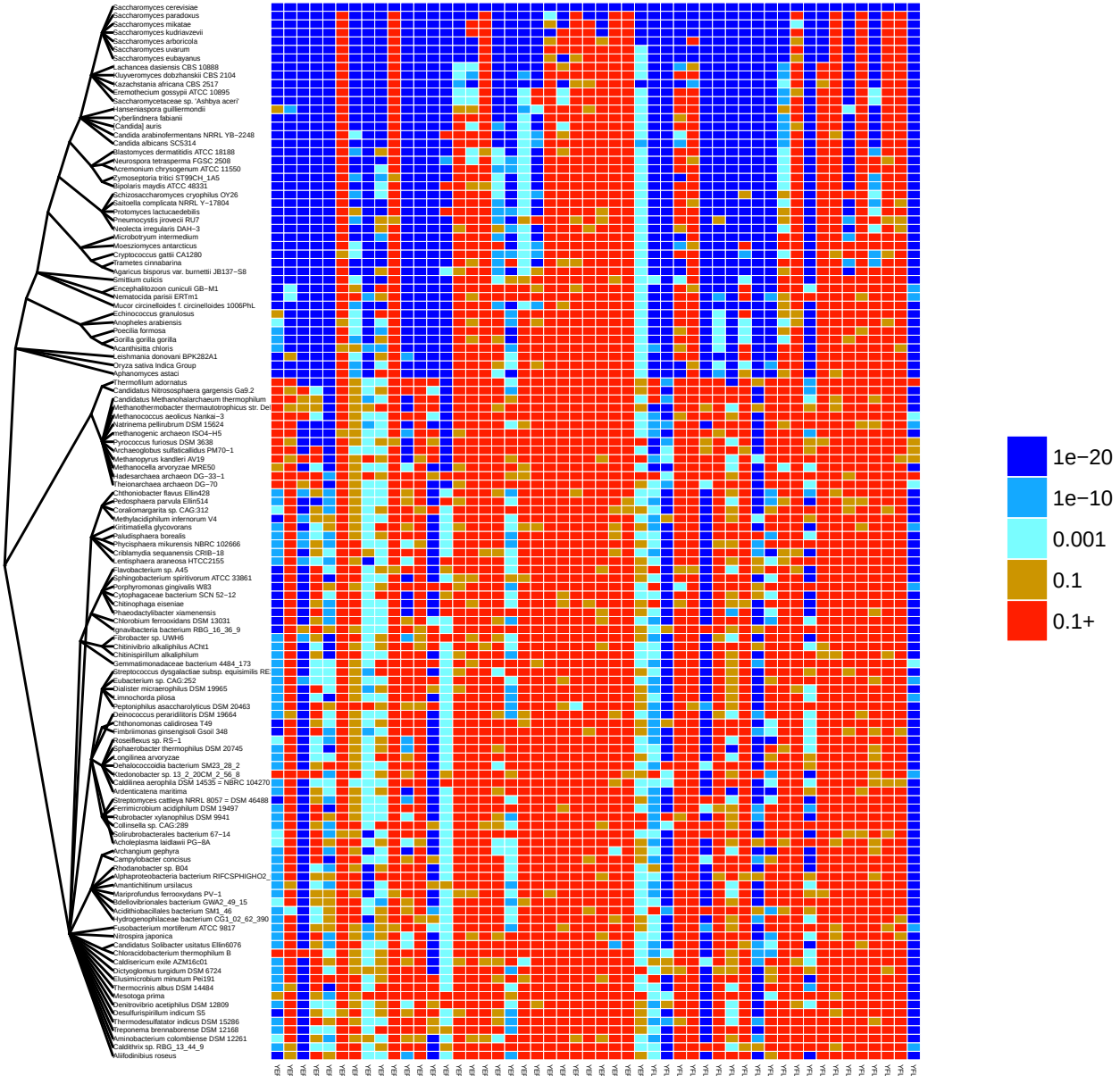

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YEL104W
YEL102C
YEL101W
YEL095C
YEL093C
YEL072C
YEL049W
YEL050C-A
YEL050C
YEL051W
YEL052W
YEL053C-A
YEL053C
YEL054C
YEL056W
YEL057C
YEL059W
YEL060C-A
YEL060C
YEL061C
YEL062W
YEL063C
YEL065W
YEL066C
YEL067C
YEL069C
YEL070W
YEL071W
YEL072W
YEL073C
YEL074W
YEL075C
YEL076W-A
YEL076C
YEL077C-A
YEL077C
YER001W-A
YER001W
YER002W
YER003C
YER004W
YER005W
YER006C-A
YER006W
1e−20
1e−10
0.001
0.1
0.1+

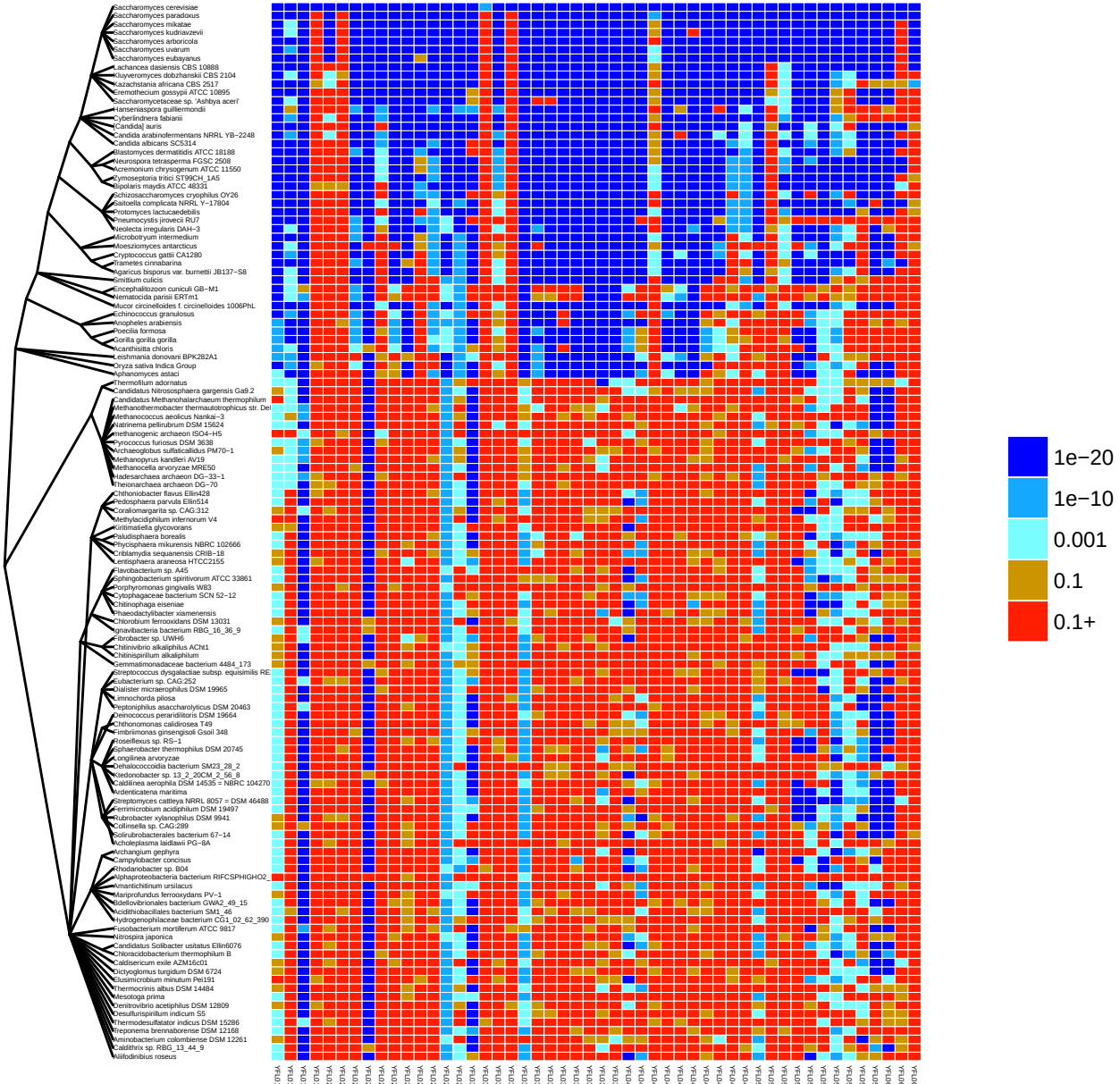

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR2
Nitrosopumilus sp. K8
Nitrosopumilus sp. U25
Nitrosopumilus sp. U27
Nitrosopumilus sp. U34
Nitrosopumilus sp. U35
Nitrosopumilus sp. U36
Nitrosopumilus sp. U38
Nitrosopumilus sp. U39
Nitrosopumilus sp. U40
Nitrosopumilus sp. U41
Nitrosopumilus sp. U42
Nitrosopumilus sp. U43
Nitrosopumilus sp. U44
Nitrosopumilus sp. U45
Nitrosopumilus sp. U46
Nitrosopumilus sp. U47
Nitrosopumilus sp. U48
Nitrosopumilus sp. U49
Nitrosopumilus sp. U50
Nitrosopumilus sp.

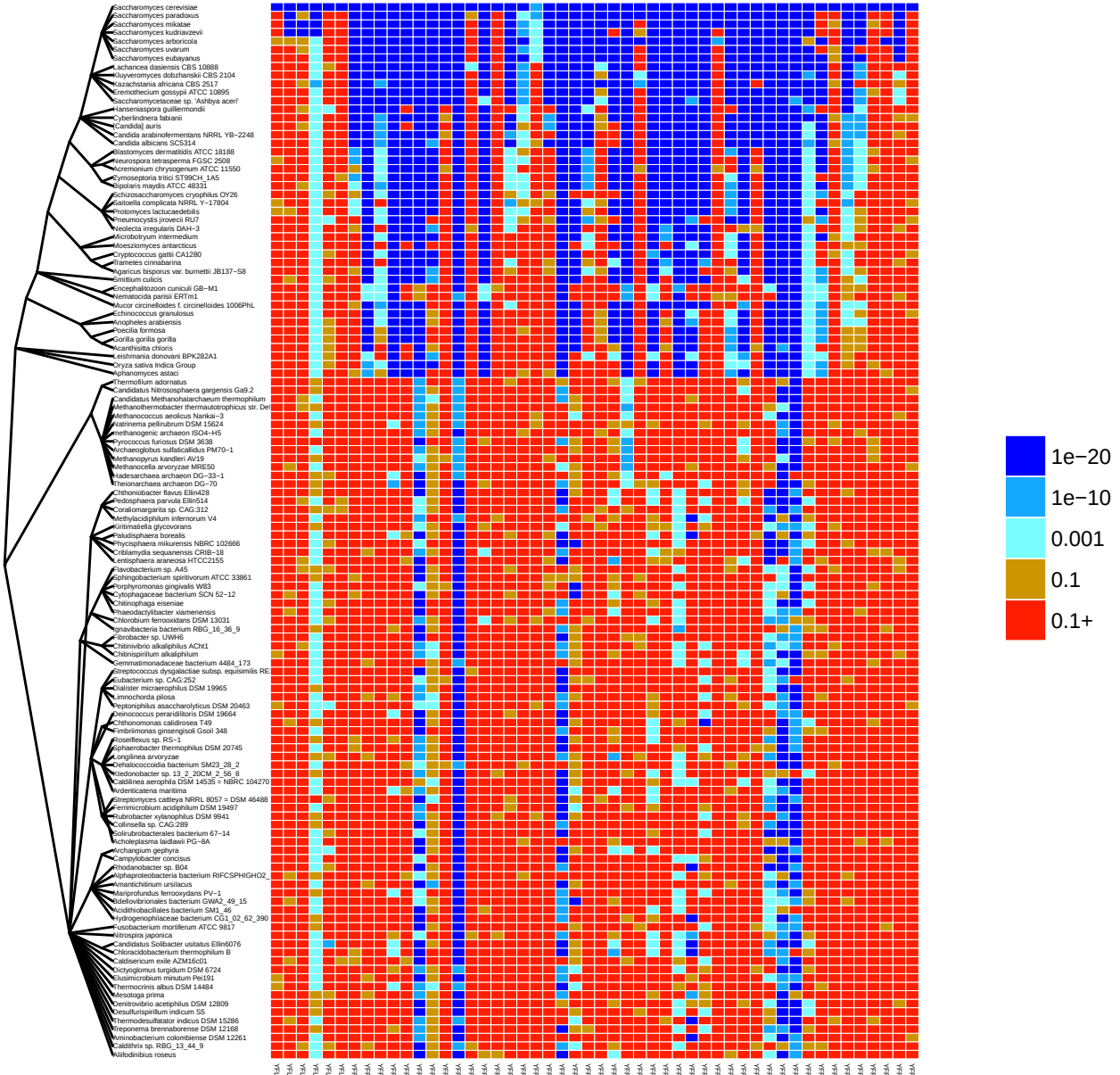

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

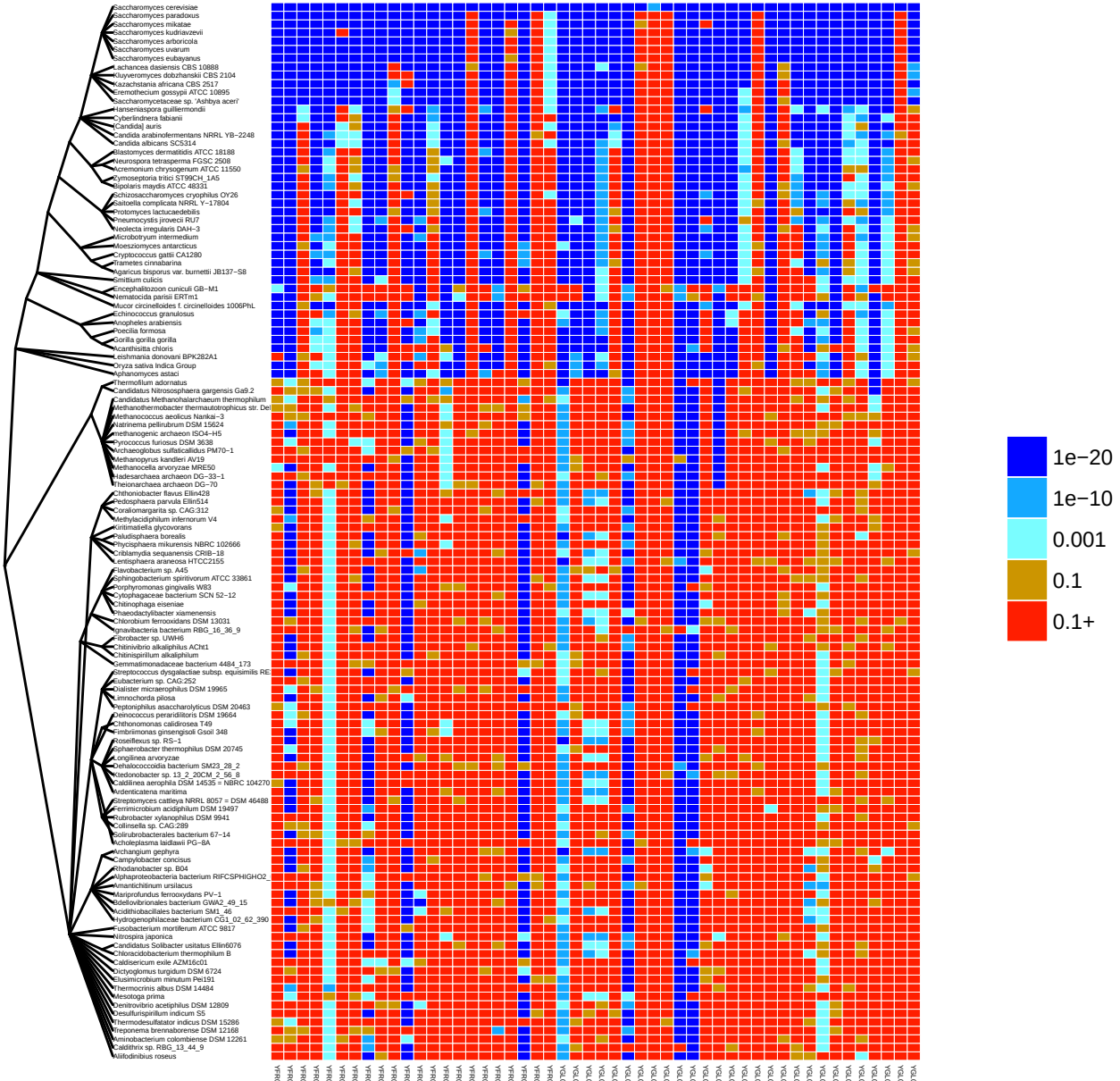

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
YER082C−A
YER082C−B
YER082W
YER082C
YER082W−A
YER082W−B
YER082C−A
YER082W
YER081C
YER081C−A
YER082W
YER082C
YER082C−A
YER082C
YER082W
YER081W
YER082W
YER082C
YER081W
YER082W
YER082C
YER081W
YER082W
YER082C

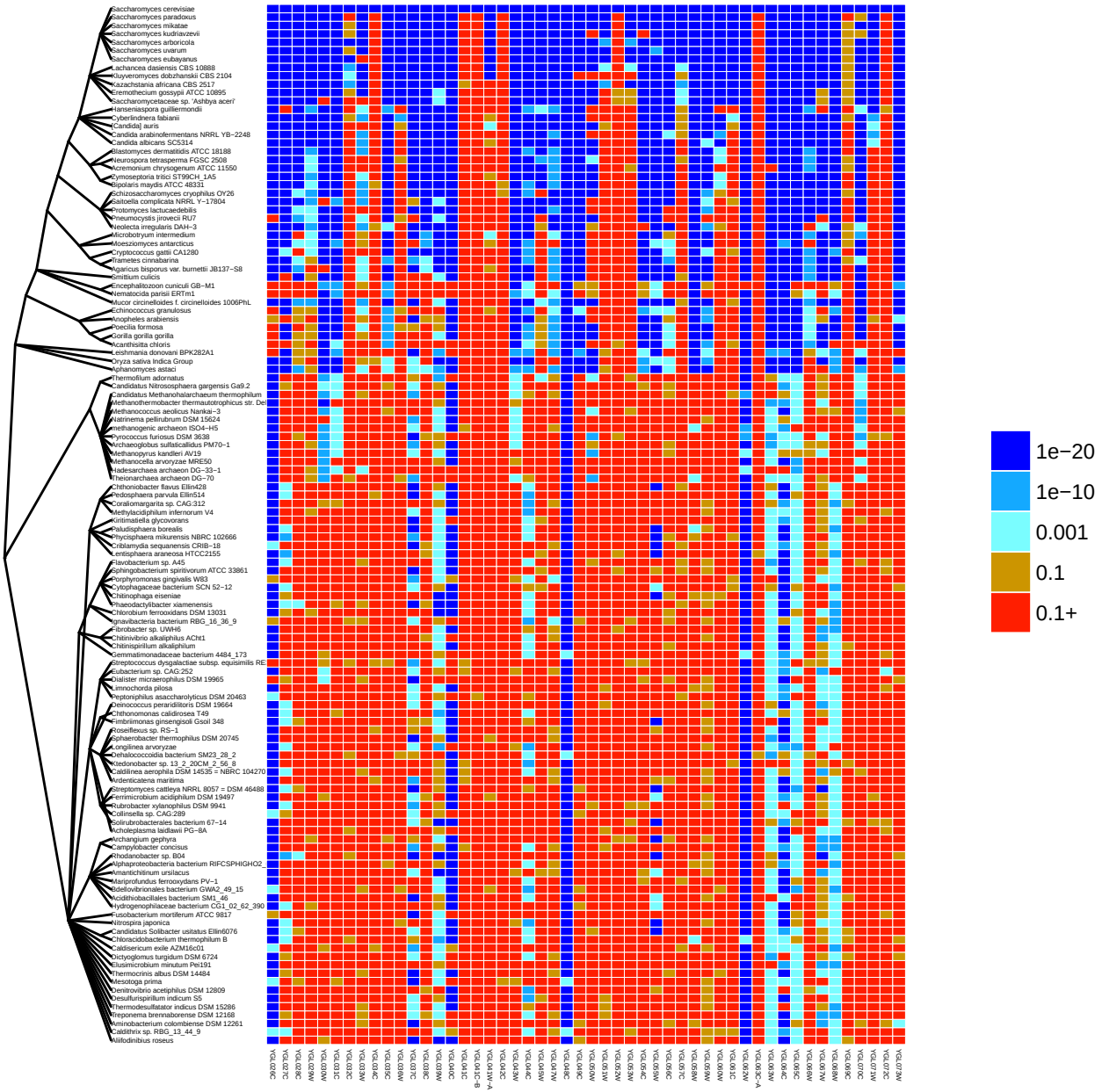

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonio bacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
YER124W
YER123C
YER114W
YER113C
YER112W
YER111C−A
YER110C
YER109W
YER108C
YER107C
YER106W
YER105C
YER104W
YER103C
YER102W
YER101C−A
YER100C
YER099W
YER098C
YER097W
YER096C
YER095C
YER094C−A
YER093C
YER092W
YER091C
YER090W
YER089C−A
YER088C
YER087W
YER086C
YER085W
YER084C
YER083C
YER082C−A
YER081W
YER080W
YER079W
1e−20
1e−10
0.001
0.1
0.1+

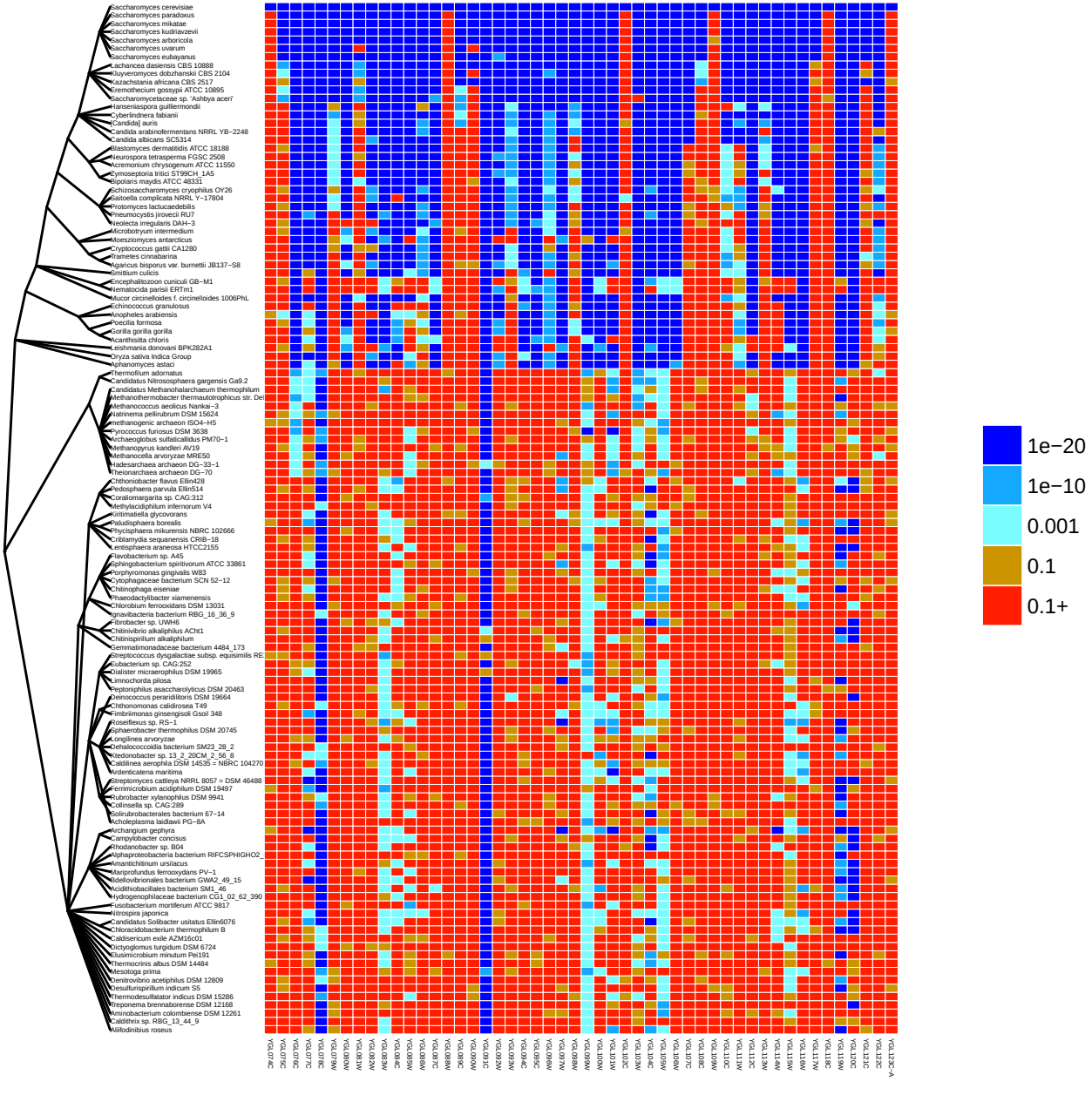

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YER186C
YER186W
YER187W
YER187W
YER187W
YER187C
YER187W
YER187C
YER187C−A
YER187W
YER187C
YER187W−A
YER187W
YER187W
YER187W
YER187W
YER187W
YER187C
YER187C−A
YER187C
YER187C
YER187C
YER187W
YER187W
YER187W
YER187W
YER187W
YER187C−A
YER187W
YER187C−A
YER187C−B
YER187W
YFL001W
YFL001C
YFL002W−A
YFL002W−B
YFL003C
YFL004W
YFL006W
YFL007W
YFL008W
YFL009W
YFL010C
YFL011W−A
YFL013W
YFL013W−A
YFL013C
YFL013W−A
YFL014W
YFL015C
YFL015W−A
YFL016C
1e−20
1e−10
0.001
0.1
0.1+

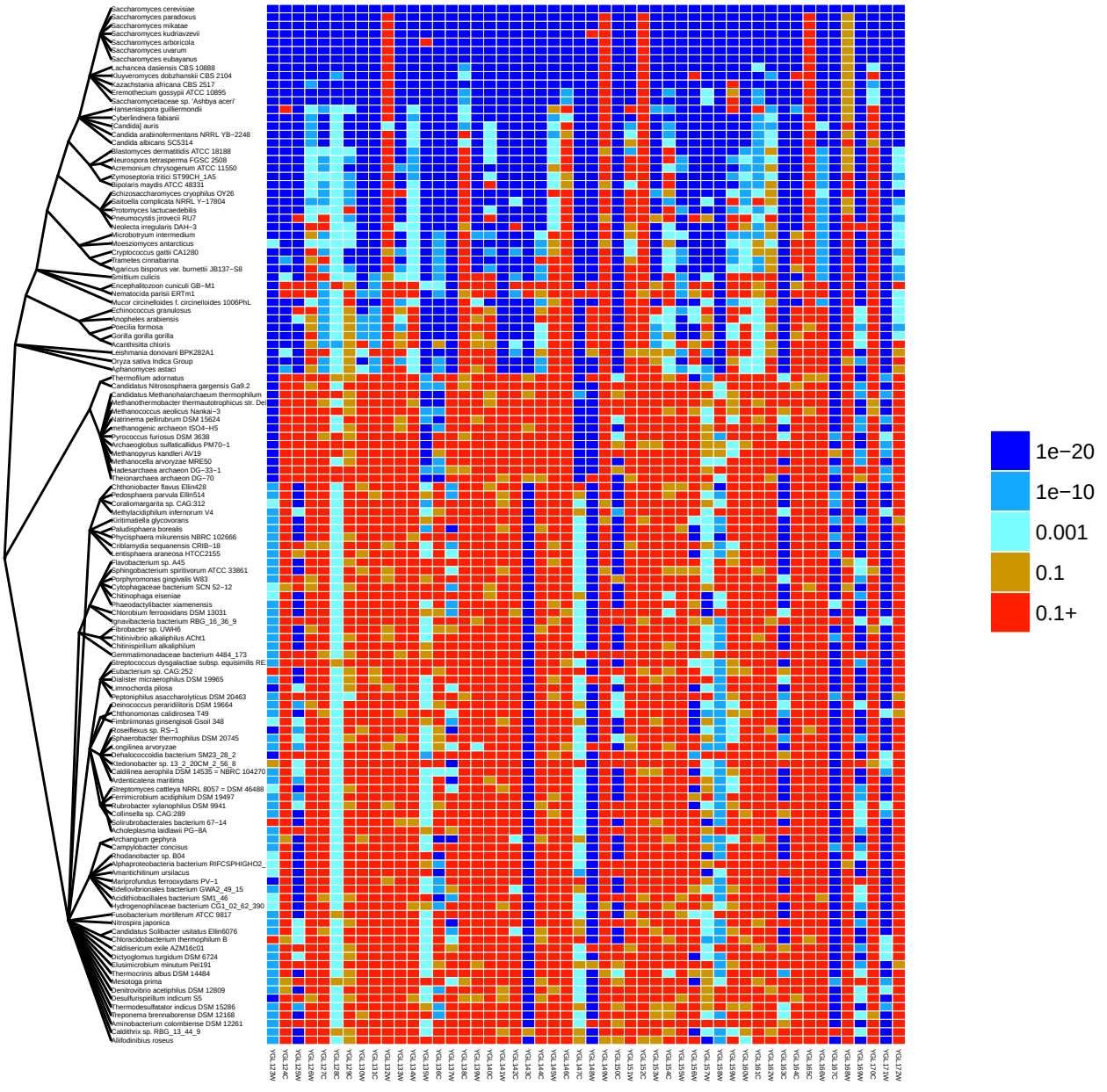

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YFL017C
YFL017W-A
YFL018C
YFL020C
YFL020C-A
YFL022W
YFL022C
YFL024C
YFL024W
YFL026C
YFL027C
YFL028C
YFL029C
YFL031W
YFL031C-A
YFL032W
YFL033C
YFL036C-A
YFL036C-B
YFL038W
YFL037W
YFL038C
YFL039C
YFL040W
YFL041W
YFL041W-A
YFL045C
YFL046C
YFL048W
YFL047W
YFL048C
YFL050C
YFL051C
YFL053W
YFL054C
YFL055W
YFL056C
YFL057C
YFL058W
YFL059W
YFL060C
YFL061W
YFL062W
1e−20
1e−10
0.001
0.1
0.1+

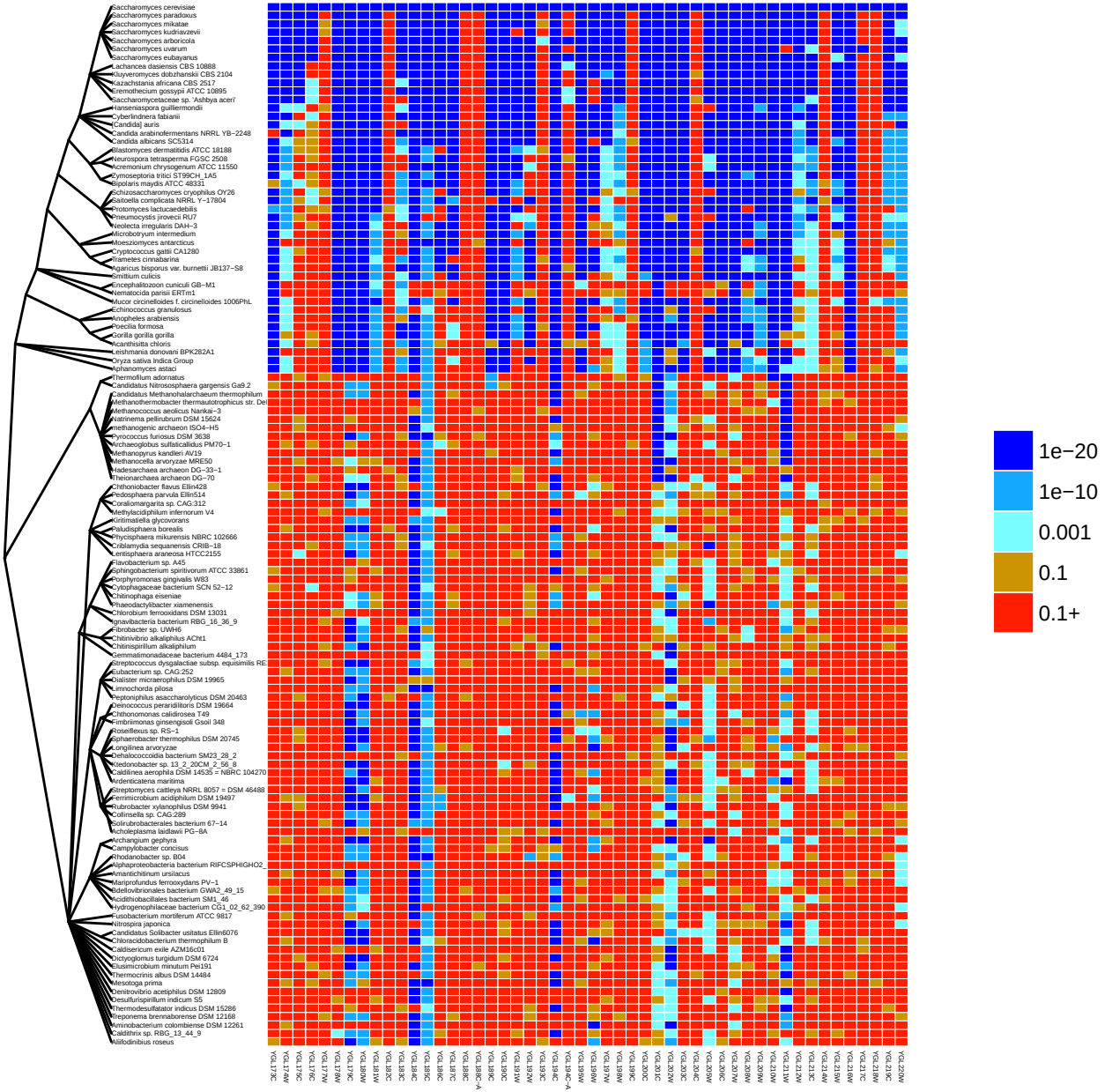

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
Fusobacterium nucleatum subsp. nucleatum ATCC 25586
Fusobacterium nucleatum subsp. vincentii ATCC 49256
Fusobacterium nucleatum subsp. nucleatum ATCC 23726
Fusobacterium nucleatum subsp. nucleatum ATCC 10953
Fusobacterium nucleatum subsp. nucleatum ATCC 23726
Fusobacterium nucleatum subsp. nucleatum ATCC 25586

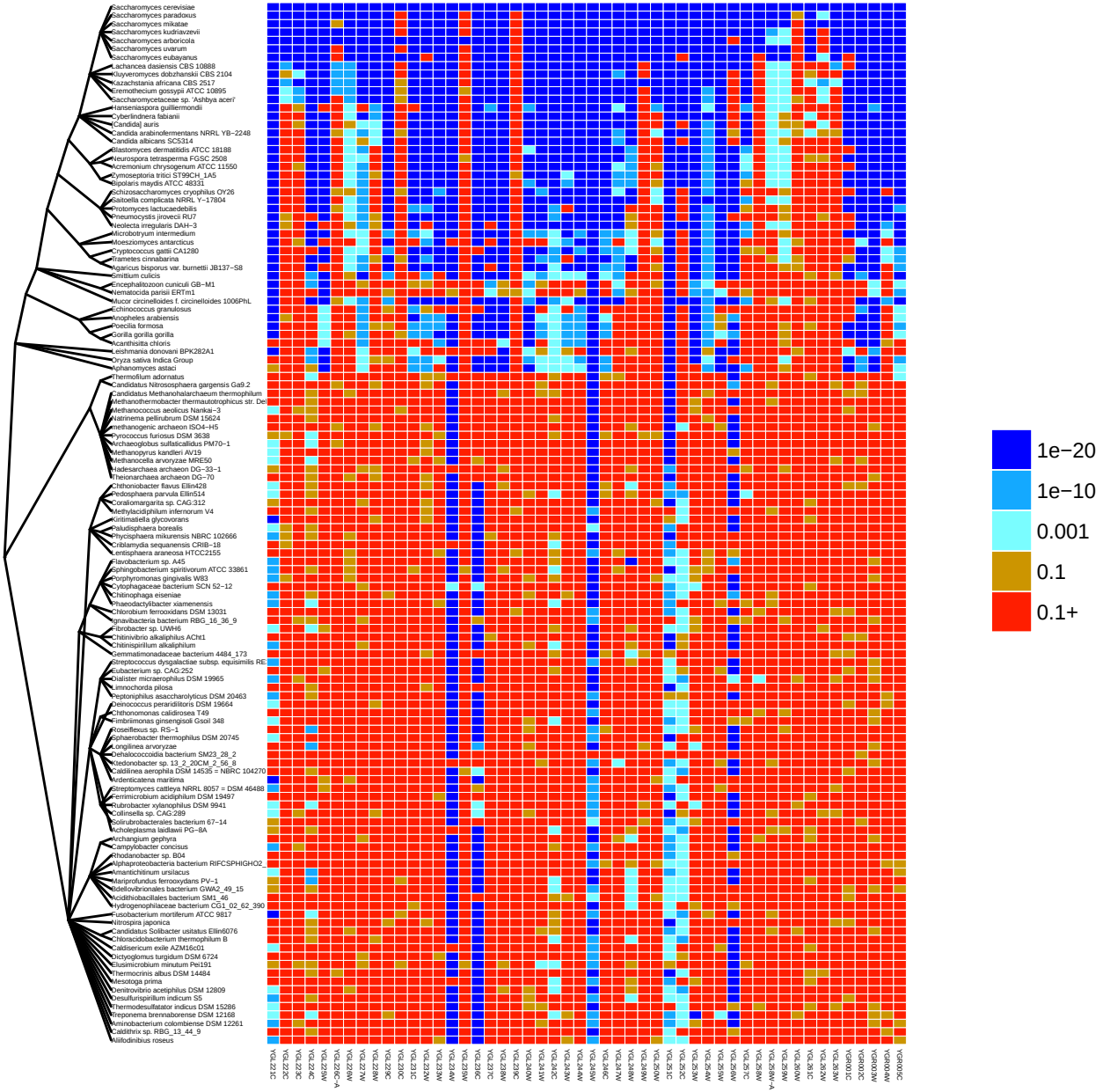

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

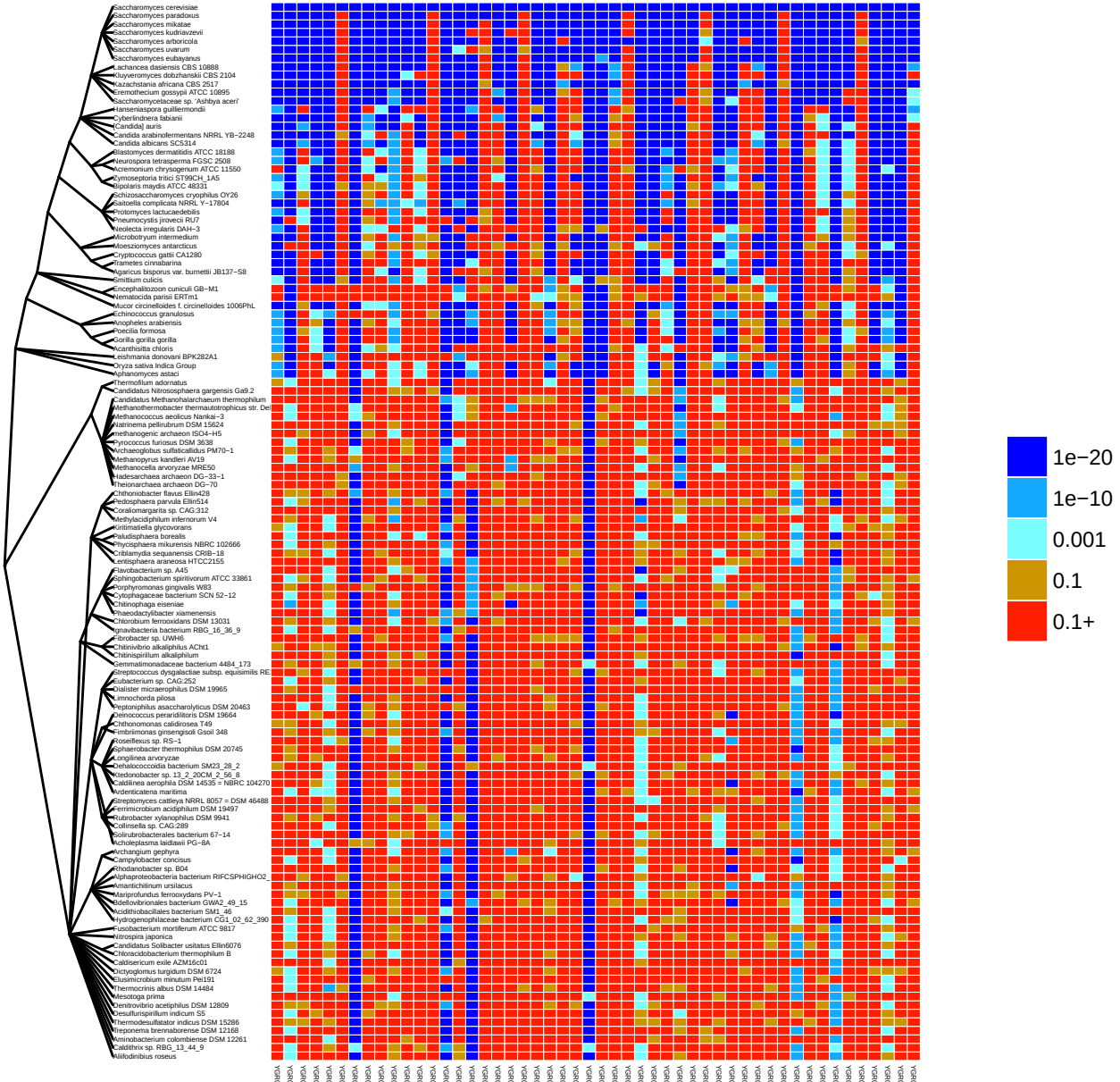

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
YSL0296
YSL0270
YSL0296
YSL0290
YSL0290
YSL0290

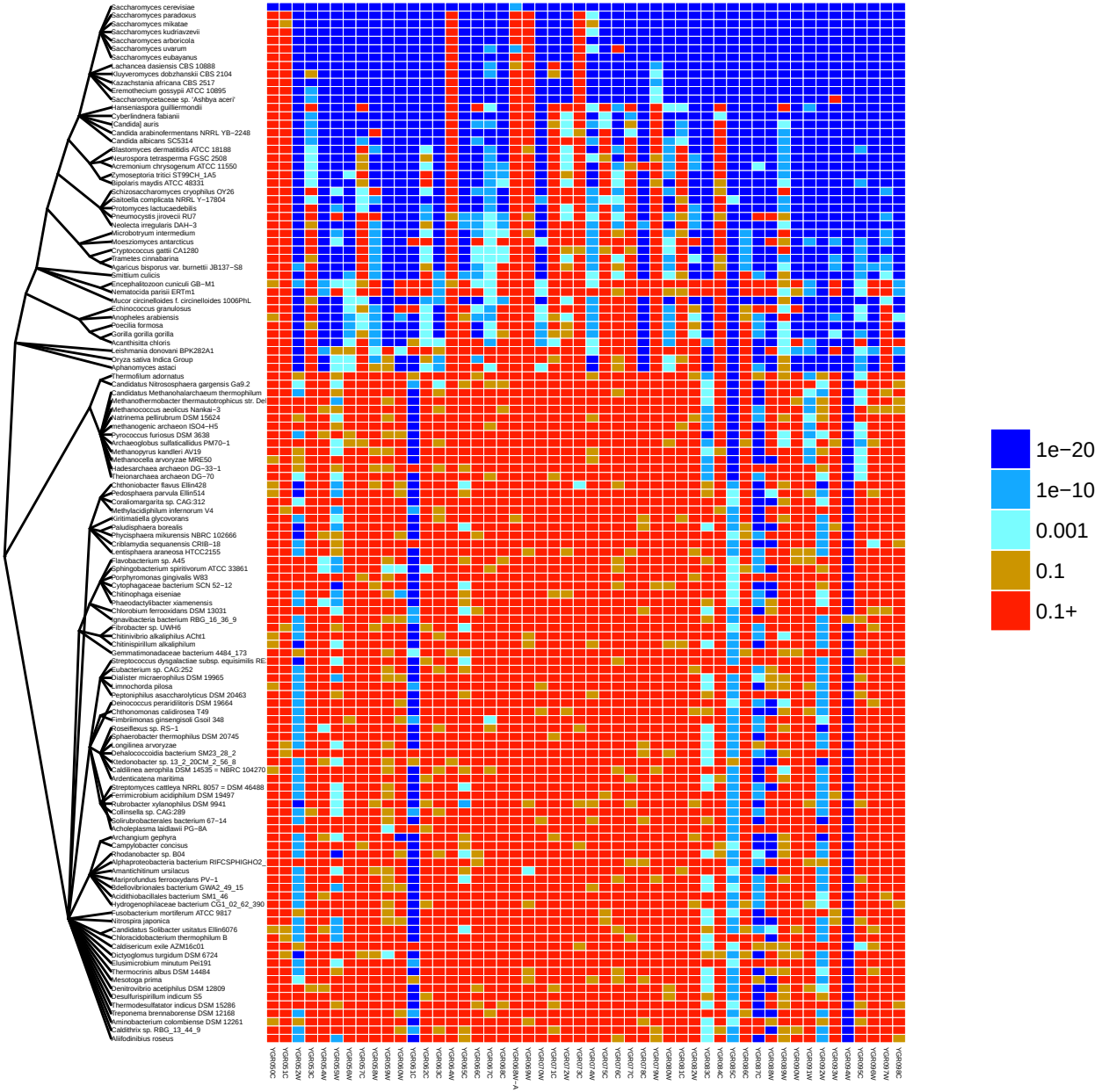

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinitubus roseus
YA-L07-3C
YA-L07-3G
YA-L07-3D
YA-L07-3E
YA-L07-3F
YA-L08-1W
YA-L08-2W
YA-L08-4C
YA-L08-5W
YA-L08-7C
YA-L08-8W
YA-L08-9C
YA-L09-1C
YA-L09-2W
YA-L09-3C
YA-L09-4W
YA-L09-5C
YA-L09-6W
YA-L09-7W
YA-L09-8W
YA-L09-9W
YA-L10-1W
YA-L10-2C
YA-L10-3W
YA-L10-4C
YA-L10-5W
YA-L10-6W
YA-L10-7C
YA-L10-8C
YA-L10-9W
YA-L11-1W
YA-L11-2C
YA-L11-3W
YA-L11-4W
YA-L11-5W
YA-L11-7W
YA-L11-8C
YA-L11-9W
YA-L12-2C
YA-L12-3C
YA-L12-3E
YA-L12-3C-A
1e−20
1e−10
0.001
0.1
0.1+

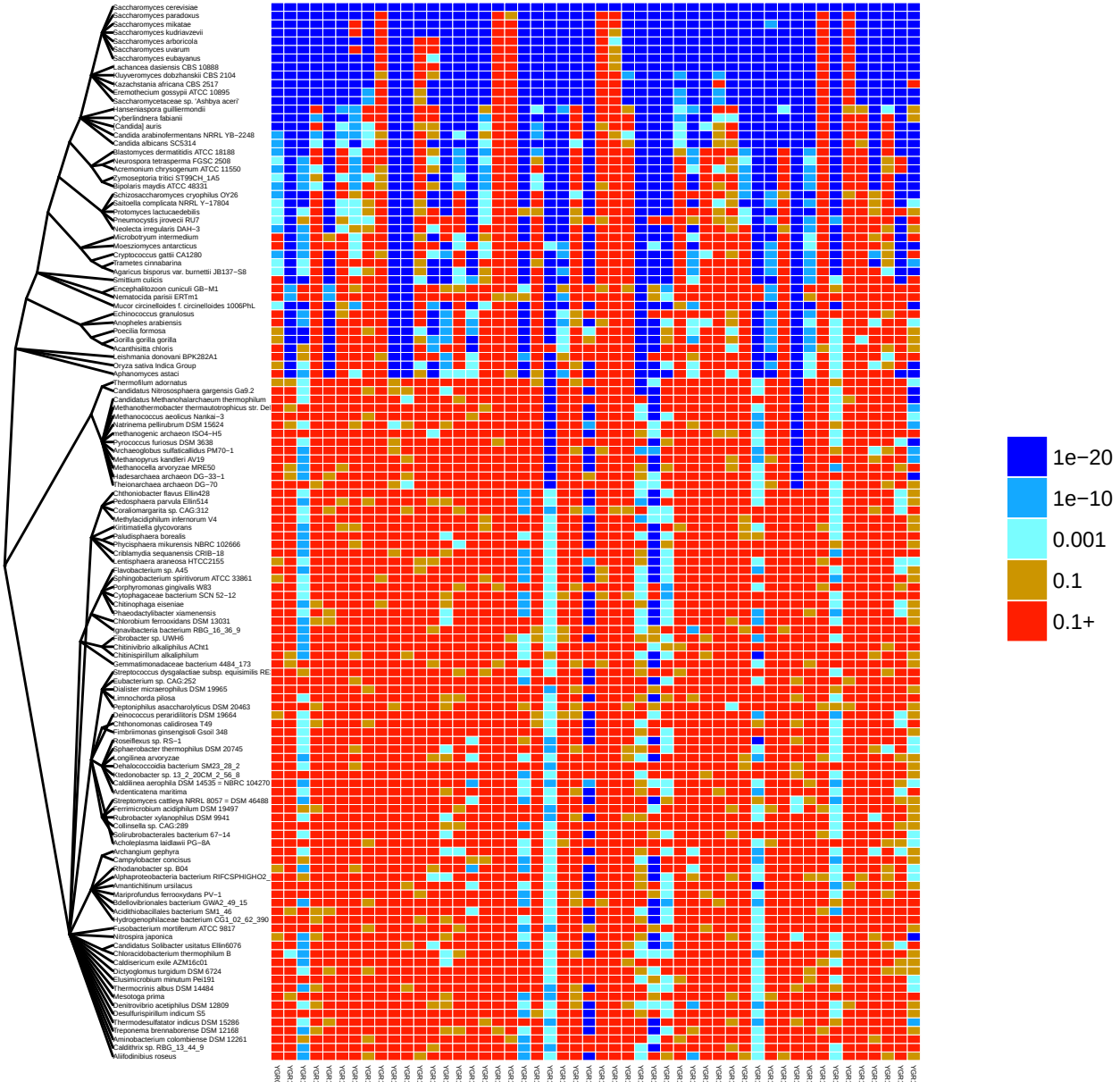

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
YGL123W
YGL124C
YGL125W
YGL126W
YGL127C
YGL128C
YGL129C
YGL130W
YGL131C
YGL132W
YGL133W
YGL134W
YGL135W
YGL136C
YGL137W
YGL138C
YGL139W
YGL140C
YGL141W
YGL142C
YGL143C
YGL144C
YGL145W
YGL146C
YGL147C
YGL148W
YGL149W
YGL150C
YGL151W
YGL152C
YGL153W
YGL154C
YGL155W
YGL156W
YGL157W
YGL158W
YGL159W
YGL160W
YGL161C
YGL162W
YGL163C
YGL164C
YGL165C
YGL166W
YGL167C
YGL168W
YGL169W
YGL170C
YGL171W
YGL172W
1e−20
1e−10
0.001
0.1
0.1+

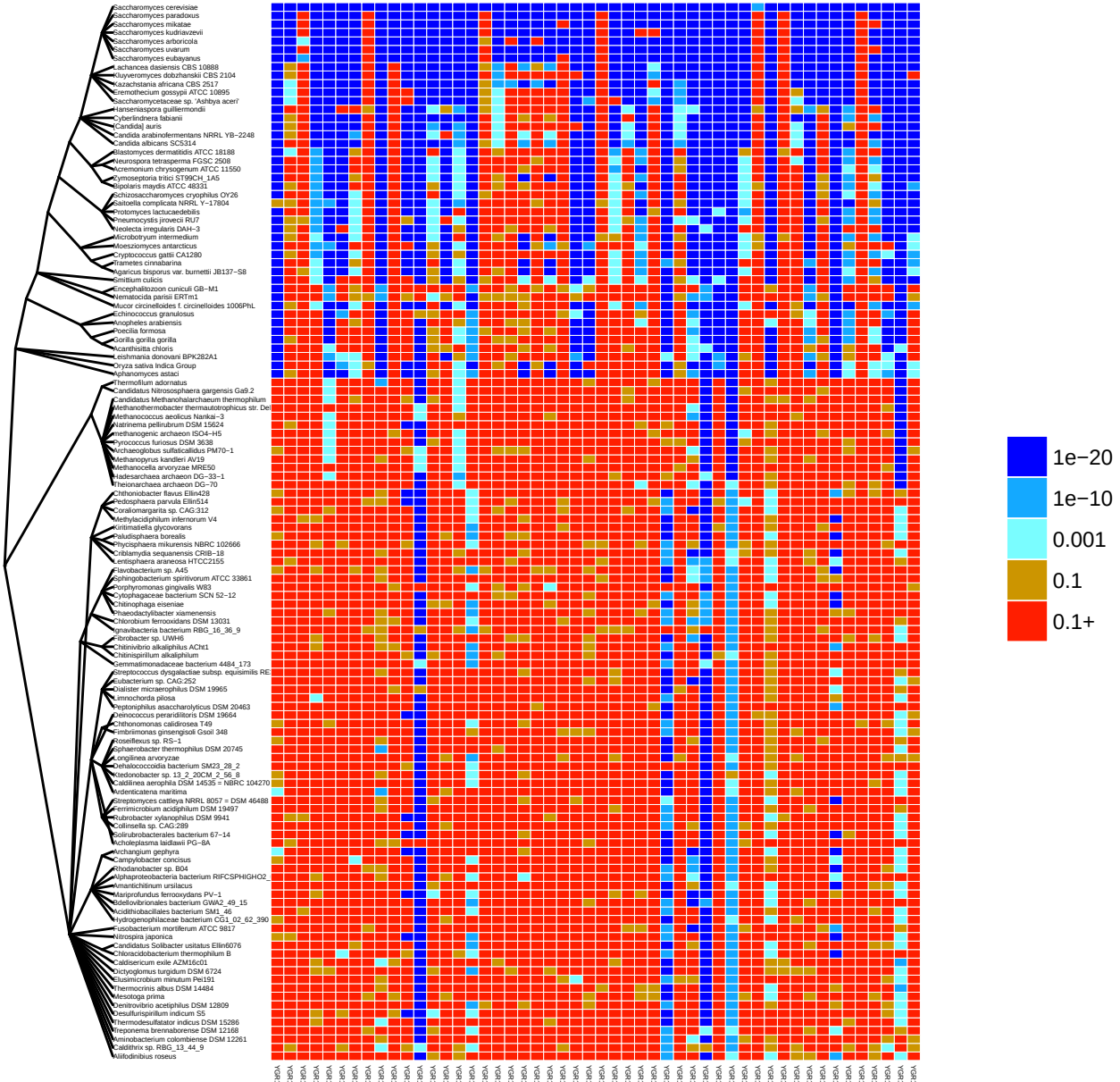

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
YGL173C
YGL174W
YGL175C
YGL176C
YGL177W
YGL179C
YGL180W
YGL181W
YGL182C
YGL183C
YGL184C
YGL185C
YGL186C
YGL187C
YGL188C
YGL188C−A
YGL189C
YGL190C
YGL191W
YGL192W
YGL193C
YGL194C
YGL194C−A
YGL195W
YGL196W
YGL197W
YGL198W
YGL199C
YGL200C
YGL201C
YGL202W
YGL203C
YGL204C
YGL205W
YGL206C
YGL207W
YGL208W
YGL209W
YGL210W
YGL211W
YGL212W
YGL213C
YGL214W
YGL215W
YGL216W
YGL217C
YGL218W
YGL219C
YGL220W
1e−20
1e−10
0.001
0.1
0.1+

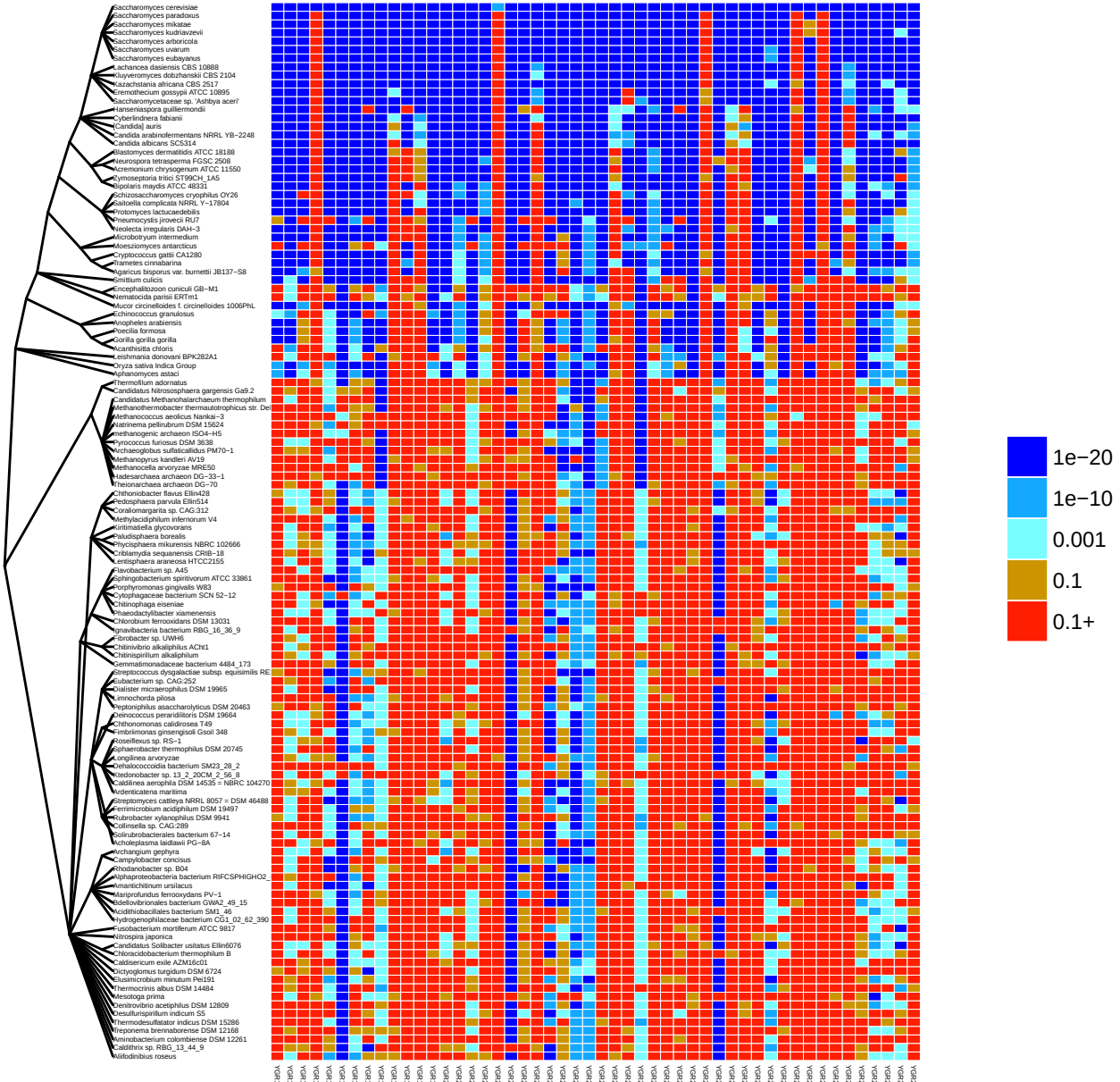

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YGL221C
YGL222C
YGL223C
YGL224C
YGL225W
YGL226C−A
YGL227W
YGL228W
YGL229C
YGL230C
YGL231C
YGL232W
YGL233W
YGL234W
YGL235C
YGL237C
YGL238W
YGL239C
YGL240W
YGL241W
YGL242C
YGL243W
YGL244W
YGL245W
YGL246C
YGL247W
YGL248W
YGL249W
YGL250W
YGL251C
YGL252C
YGL253W
YGL254W
YGL255W
YGL256W
YGL257C
YGL258W
YGL258W−A
YGL259W
YGL260W
YGL261C
YGL262W
YGL263W
YGR021C
YGR022C
YGR023W
YGR024W
YGR025C
1e−20
1e−10
0.001
0.1
0.1+

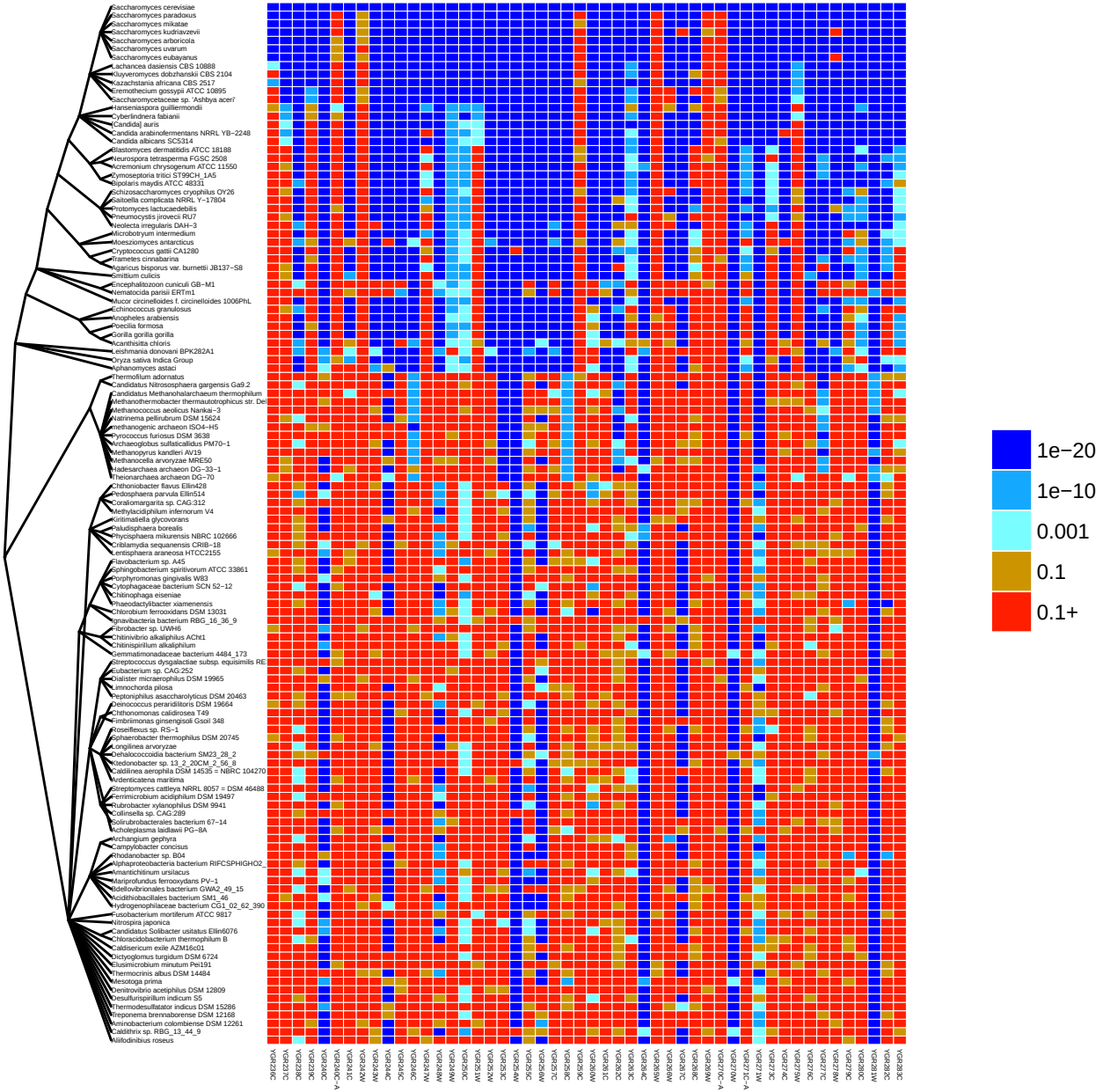

1e−20
1e−10
0.001
0.1
0.1+

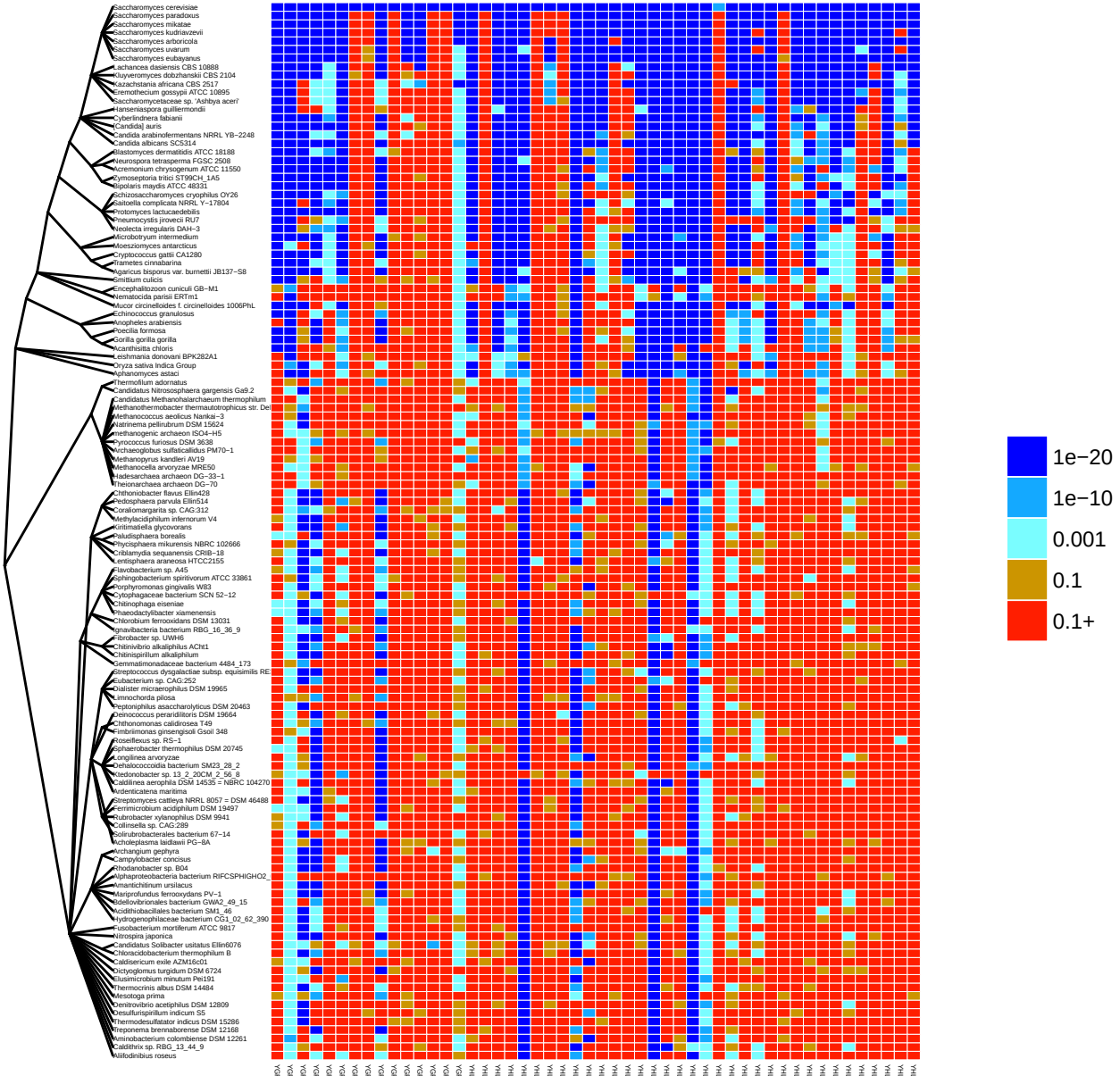

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Meeszomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niilofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

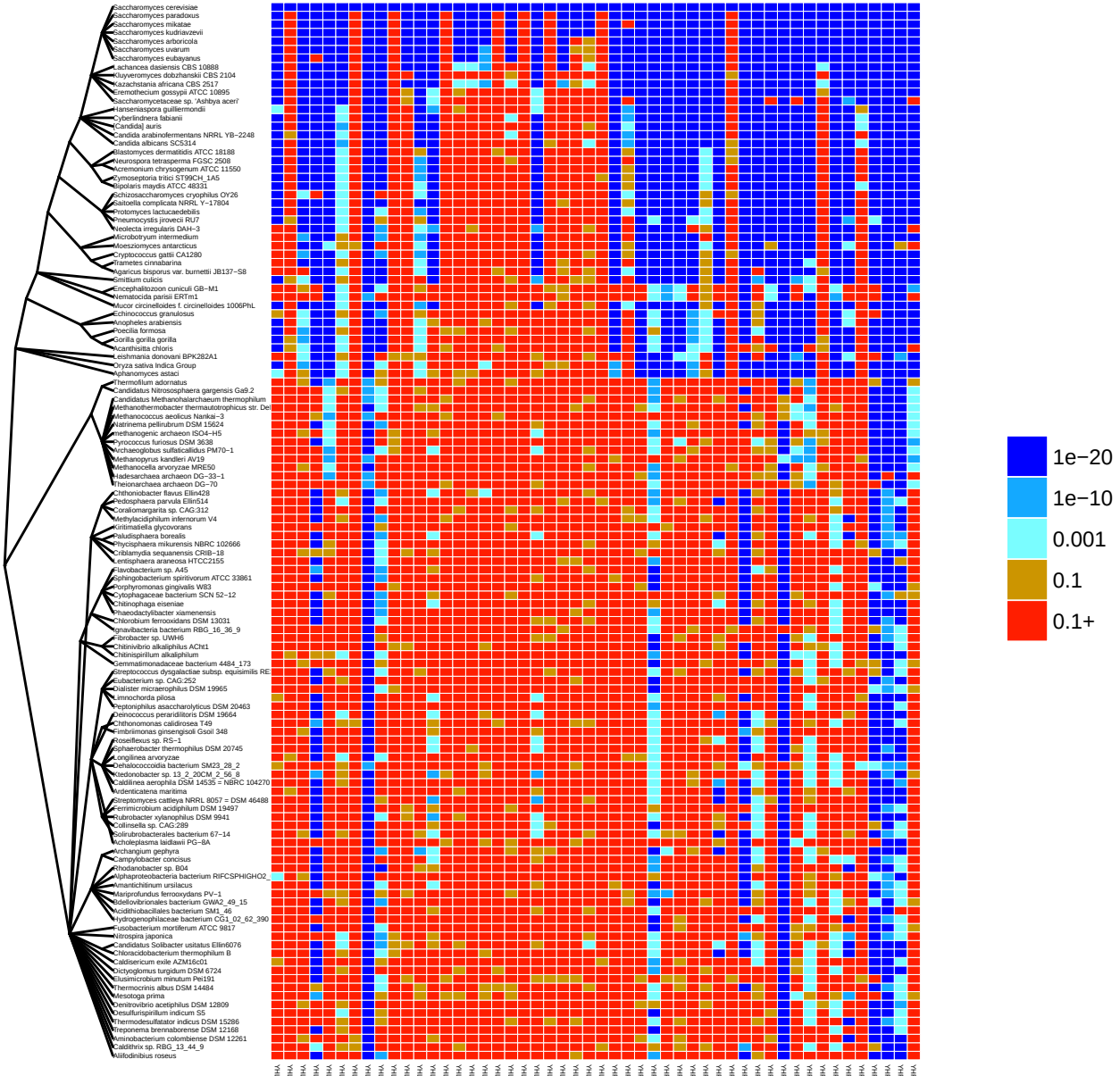

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignisphaera aggerensis
Vulcanisaeta distributa DSM 14429
Thermosphaera aggregans DSM 12592
Sulfolobus islandicus REY15A
Sulfolobus acidocaldarius DSM 639
Sulfolobus solfataricus P2
Sulfolobus tokodaii str. 7
Sulfolobus acidocaldarius Kamchatka1
Sulfolobus islandicus M.14.25
Sulfolobus islandicus M.16.27
Sulfolobus islandicus M.16.4
Sulfolobus islandicus L.S.2.15
Sulfolobus islandicus L.D.8.5
Sulfolobus islandicus L.D.8.7
Sulfolobus islandicus L.S.2.7
Sulfolobus islandicus L.D.8.2
Sulfolobus islandicus L.S.2.2
Sulfolobus islandicus L.D.8.1
Sulfolobus islandicus L.S.2.1
Sulfolobus islandicus L.D.8.3
Sulfolobus islandicus L.S.2.3
Sulfolobus islandicus L.D.8.4
Sulfolobus islandicus L.S.2.4
Sulfolobus islandicus L.D.8.6
Sulfolobus islandicus L.S.2.6
Sulfolobus islandicus L.D.8.8
Sulfolobus islandicus L.S.2.8
Sulfolobus islandicus L.D.8.9
Sulfolobus islandicus L.S.2.9
Sulfolobus islandicus L.D.8.10
Sulfolobus islandicus L.S.2.10
Sulfolobus islandicus L.D.8.11
Sulfolobus islandicus L.S.2.11
Sulfolobus islandicus L.D.8.12
Sulfolobus islandicus L.S.2.12
Sulfolobus islandicus L.D.8.13
Sulfolobus islandicus L.S.2.13
Sulfolobus islandicus L.D.8.14
Sulfolobus islandicus L.S.2.14
Sulfolobus islandicus L.D.8.15
Sulfolobus islandicus L.S.2.15
Sulfolobus islandicus

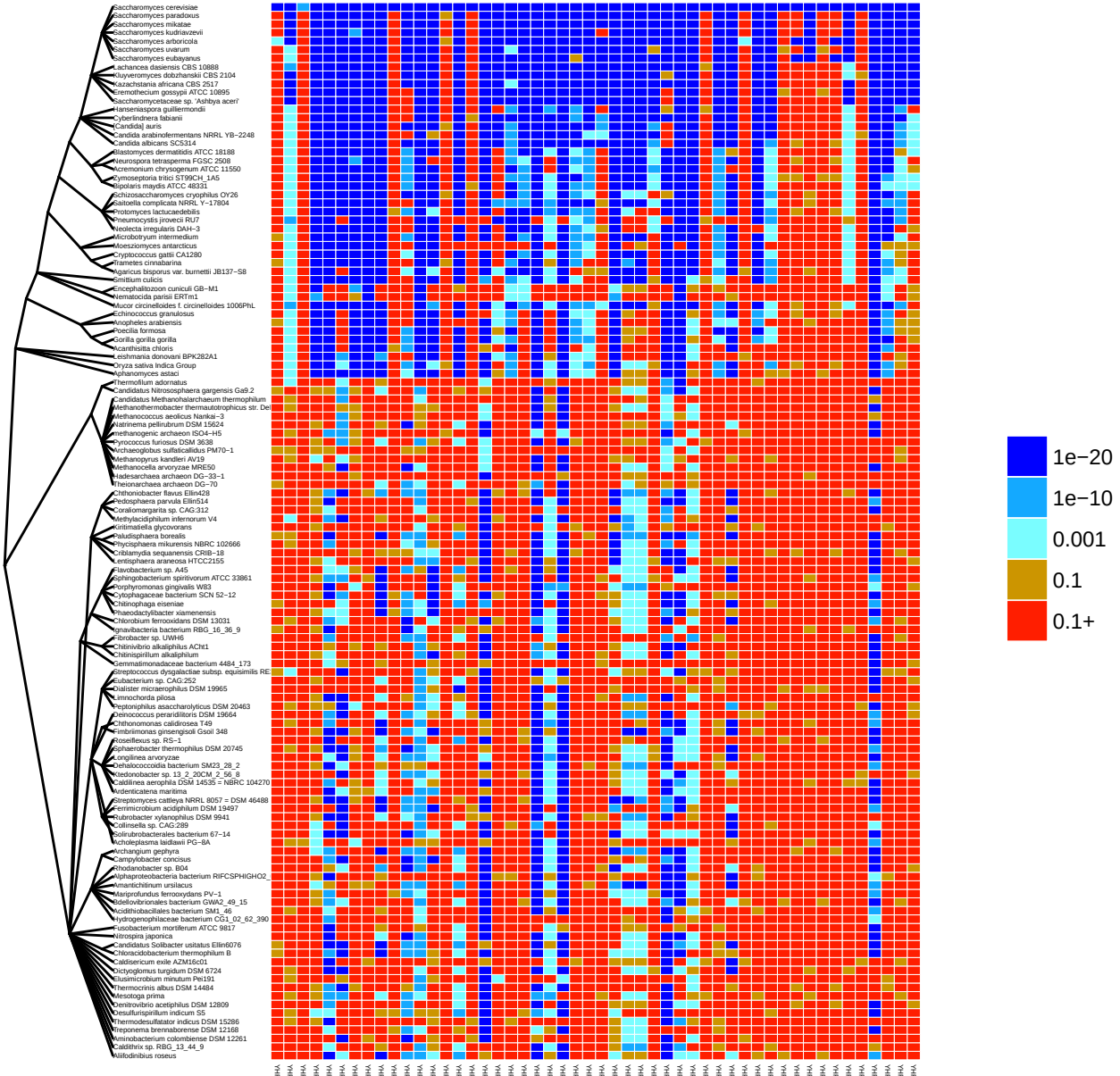

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
YGR145W
YGR146C
YGR146C−A
YGR147C
YGR148C
YGR149W
YGR150C
YGR151C
YGR152C
YGR153W
YGR154C
YGR155W
YGR156W
YGR157W
YGR158C
YGR159C
YGR160W
YGR161C
YGR161C−C
YGR161C−D
YGR161W−A
YGR161W−B
YGR161W−C
YGR162W
YGR163W
YGR164W
YGR165W
YGR166W
YGR167W
YGR168C
YGR169C
YGR169C−A
YGR170W
YGR171C
YGR172C
YGR173W
YGR174C
YGR174W−A
YGR175C
YGR176W
YGR177C
YGR178C
YGR179C
YGR180C
YGR181W
YGR182C
YGR183C
YGR184C
YGR185C
YGR186W
1e−20
1e−10
0.001
0.1
0.1+

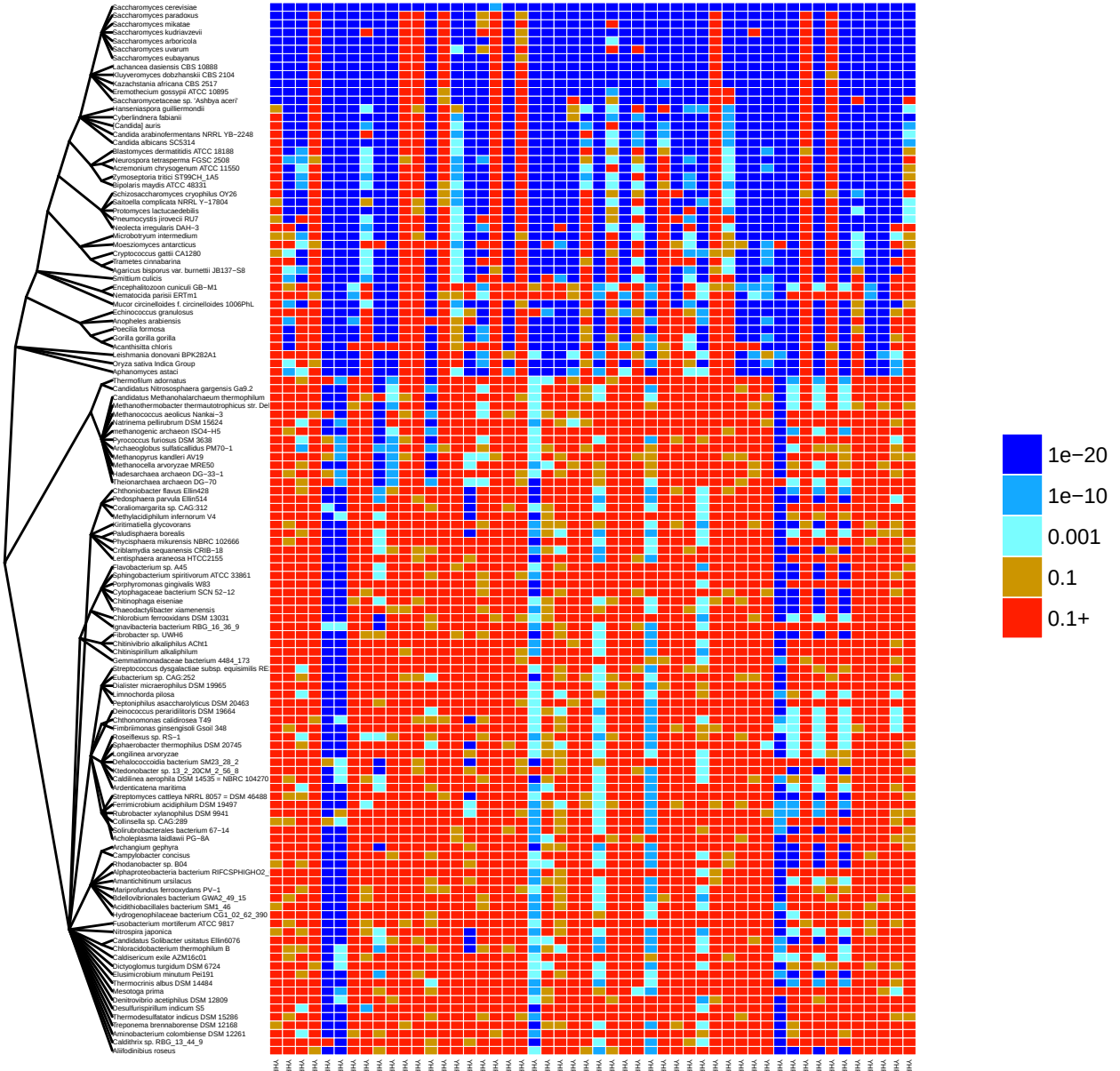

1e−20
1e−10
0.001
0.1
0.1+

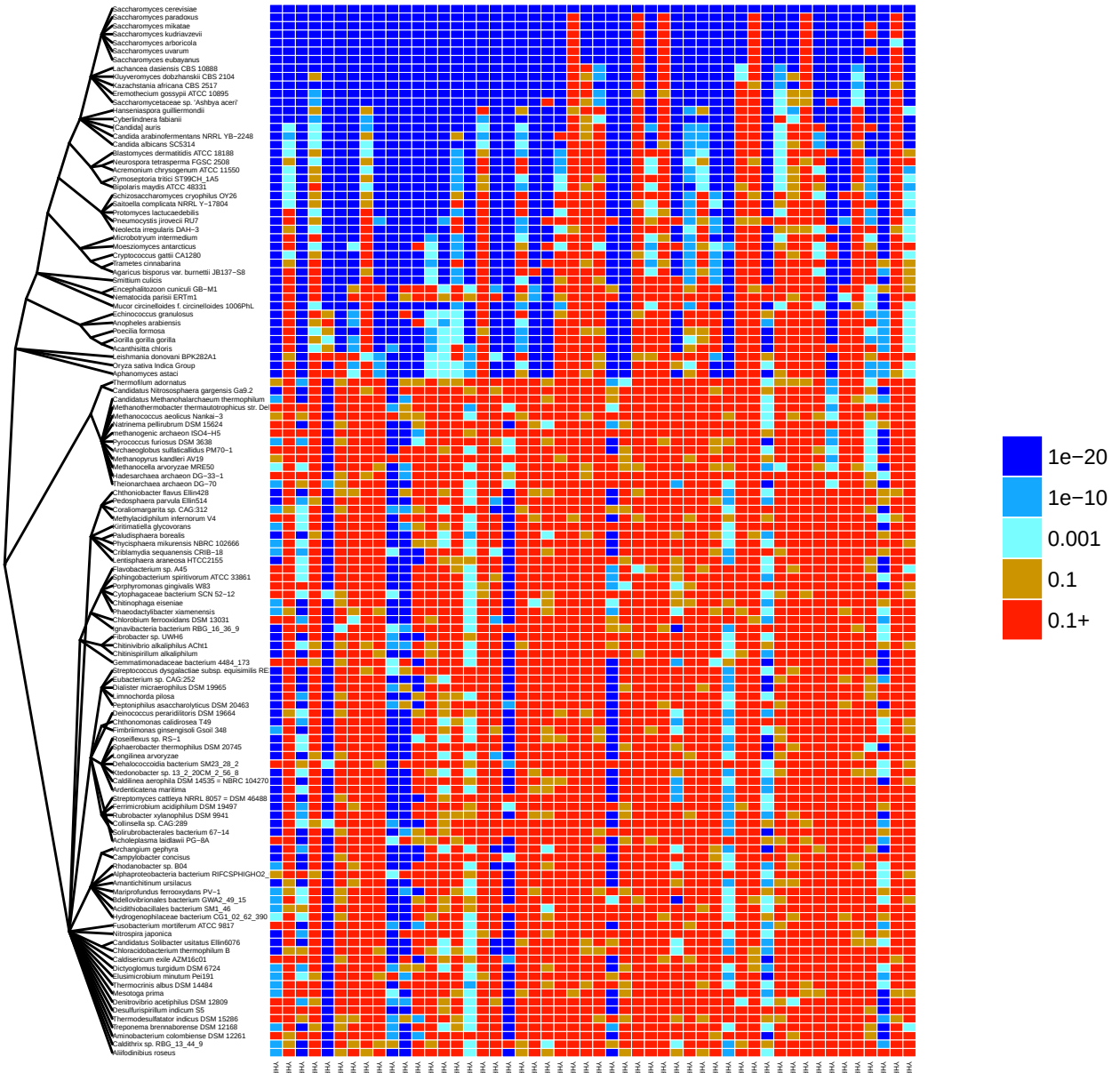

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Ouyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Crillamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YAR236C
YAR237C
YAR238C
YAR239C
YAR240C
YAR240C−A
YAR241C
YAR243W
YAR244C
YAR245C
YAR246C
YAR247W
YAR248W
YAR249W
YAR250C
YAR251W
YAR252W
YAR253C
YAR254W
YAR255C
YAR256C
YAR257C
YAR258W
YAR259C
YAR260C
YAR261C
YAR262C
YAR263C
YAR264C
YAR265W
YAR266W
YAR267C
YAR268C
YAR269W
YAR270C−A
YAR270W
YAR271C−A
YAR271W
YAR272C
YAR273W
YAR274C
YAR275C
YAR276C
YAR277C
YAR278W
YAR279C
YAR280C
YAR281W
YAR282C
YAR283C
1e−20
1e−10
0.001
0.1
0.1+

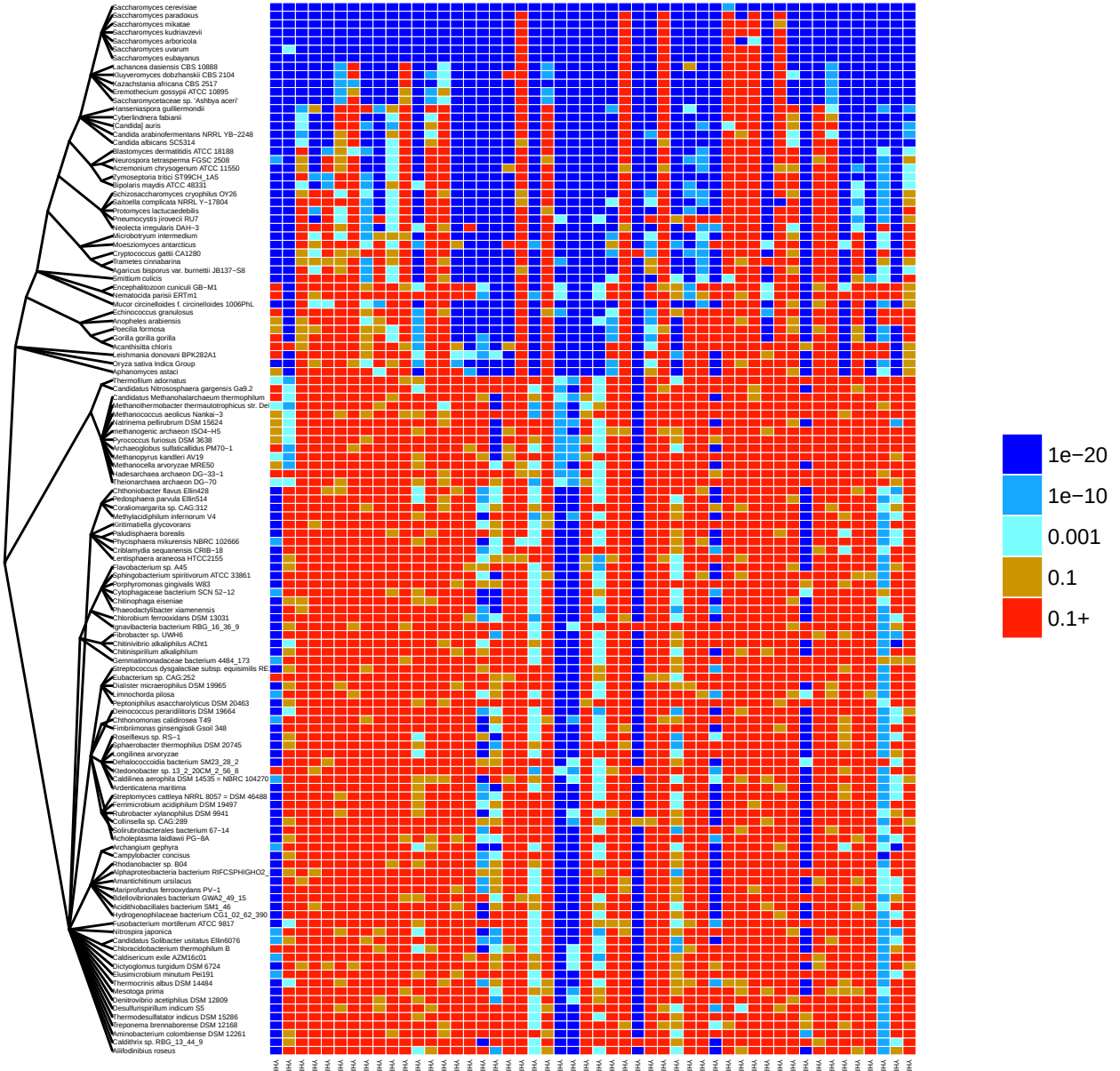

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

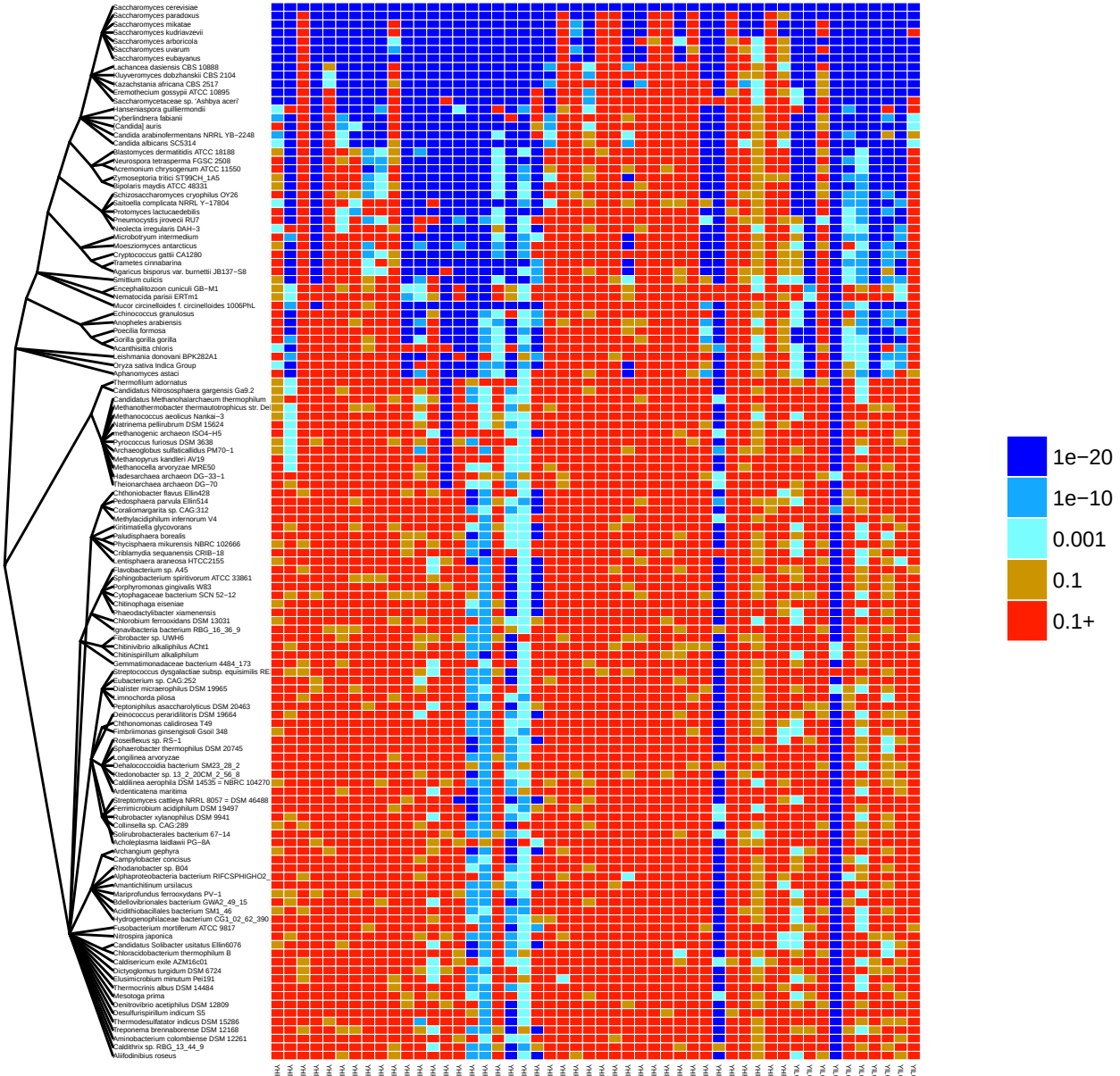

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

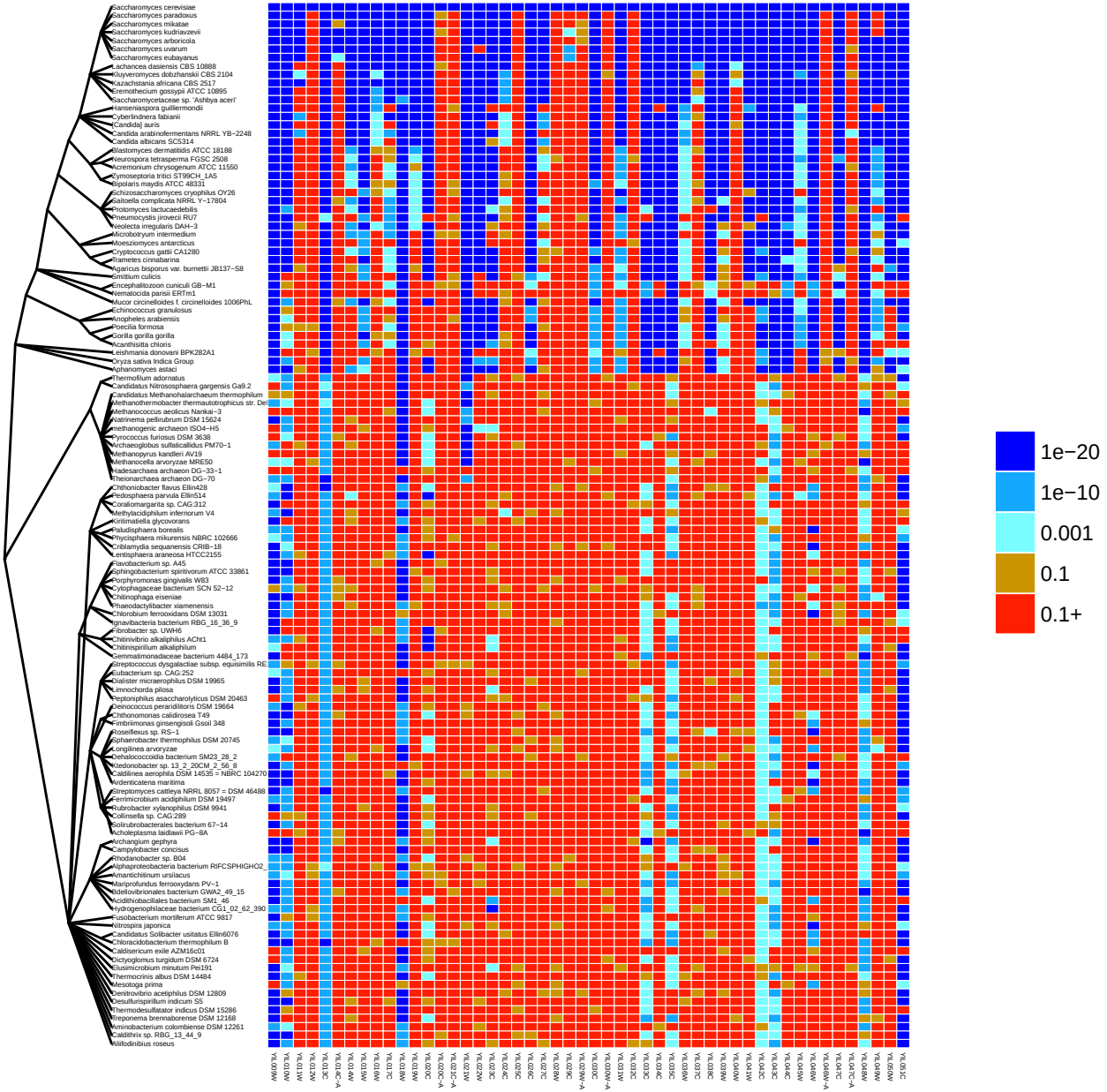

1e−20
1e−10
0.001
0.1
0.1+

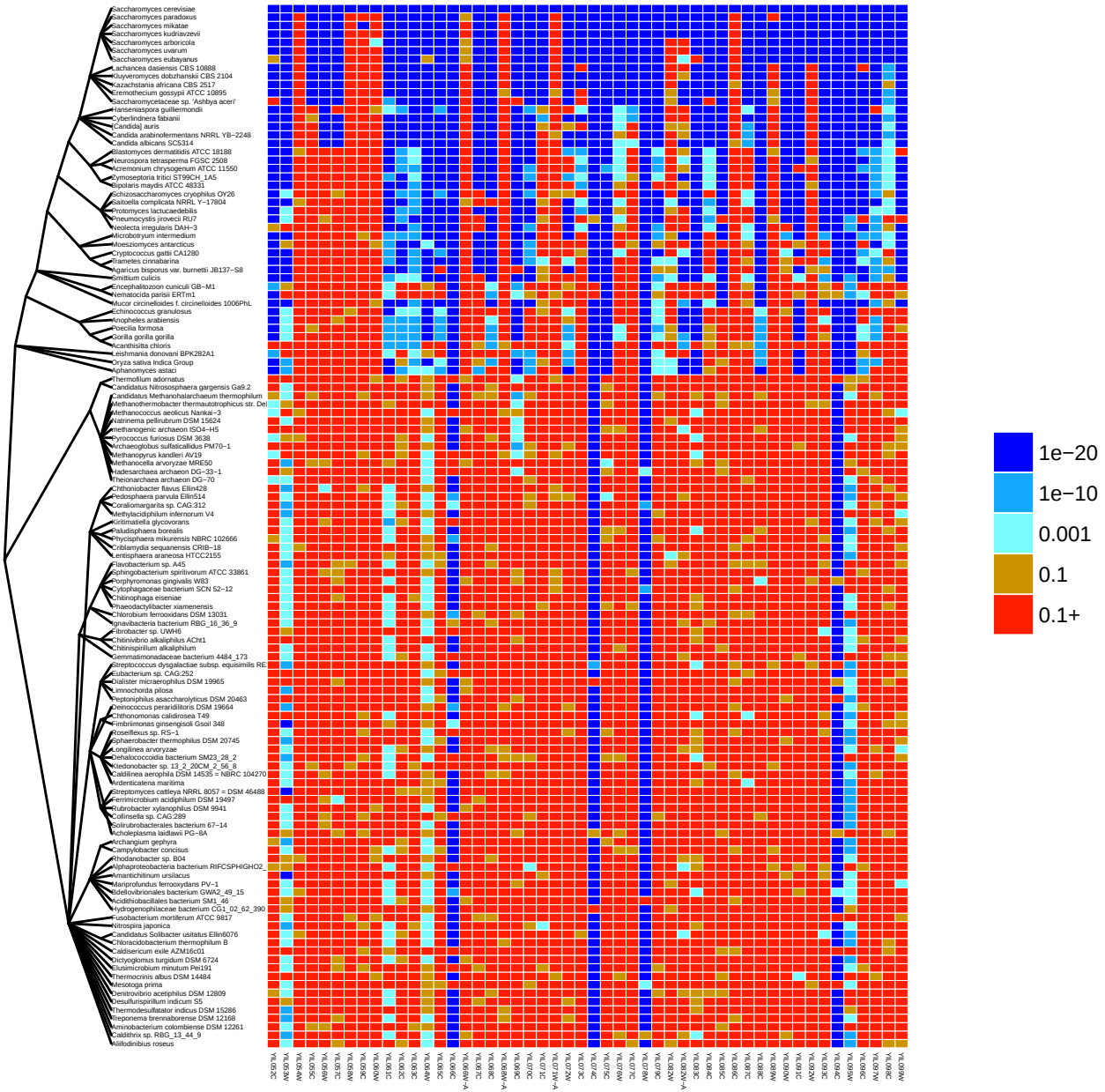

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

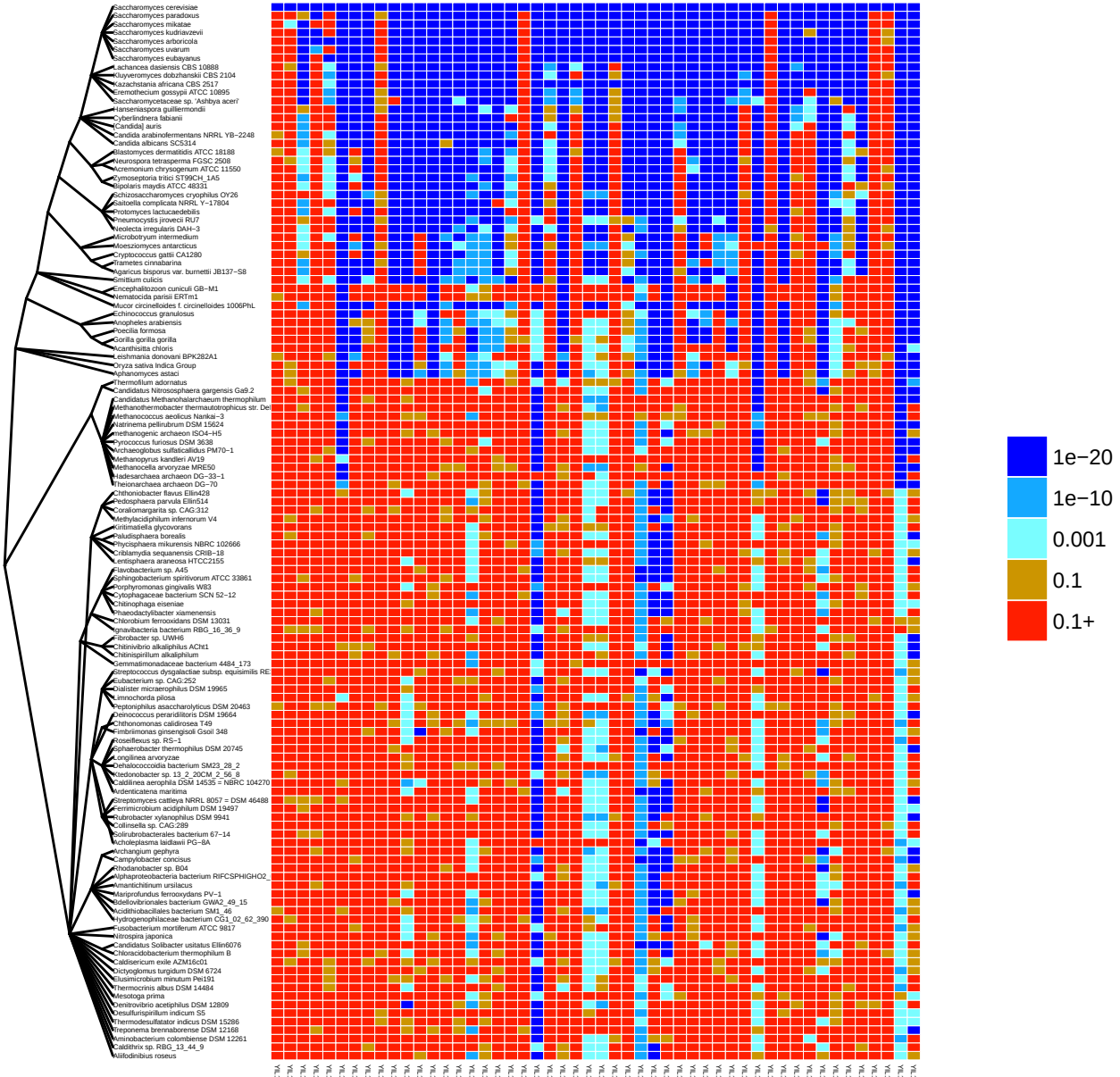

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

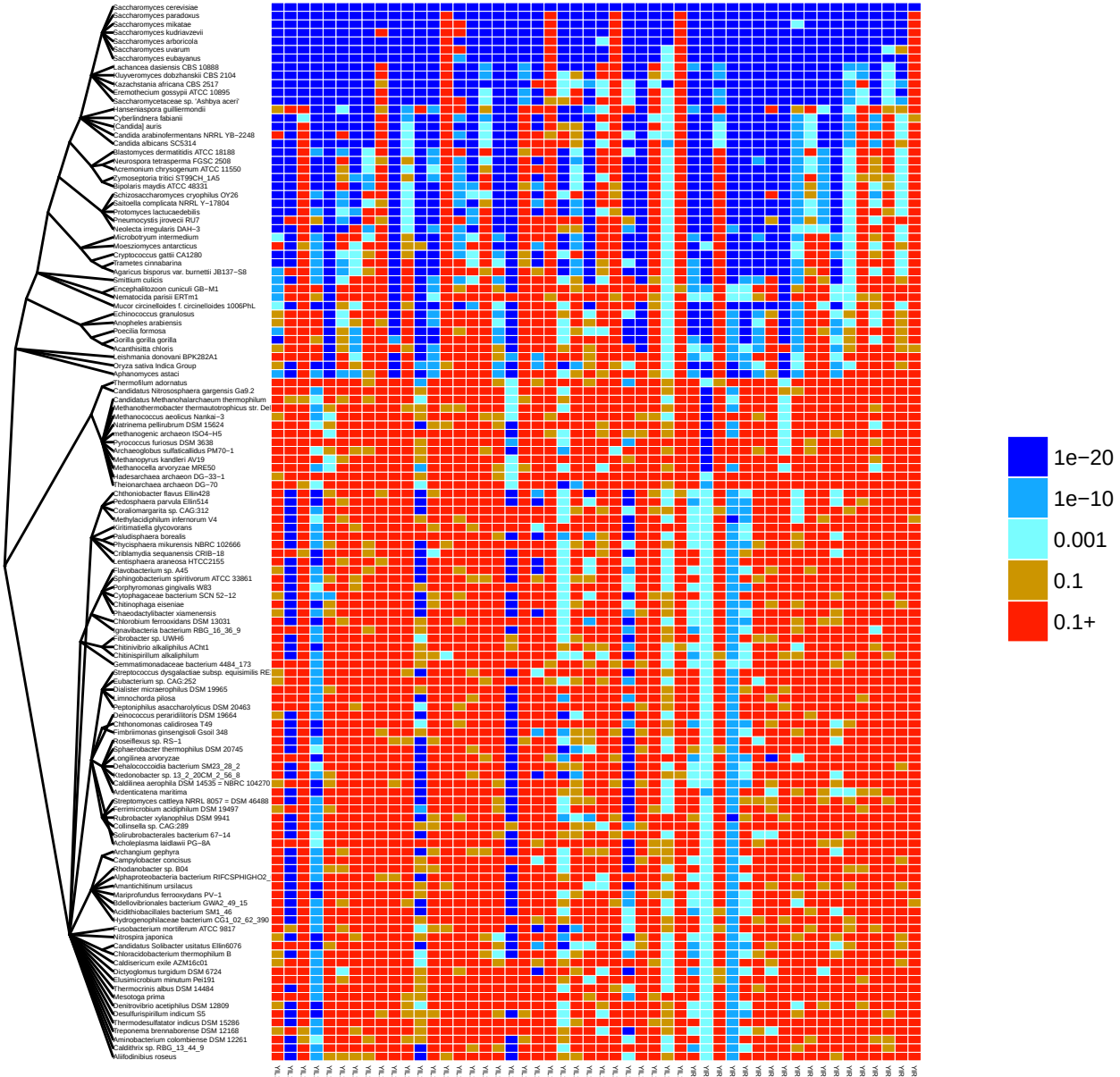

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycsiphaera mikurensis NBRC 102666
Cribiamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsol 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

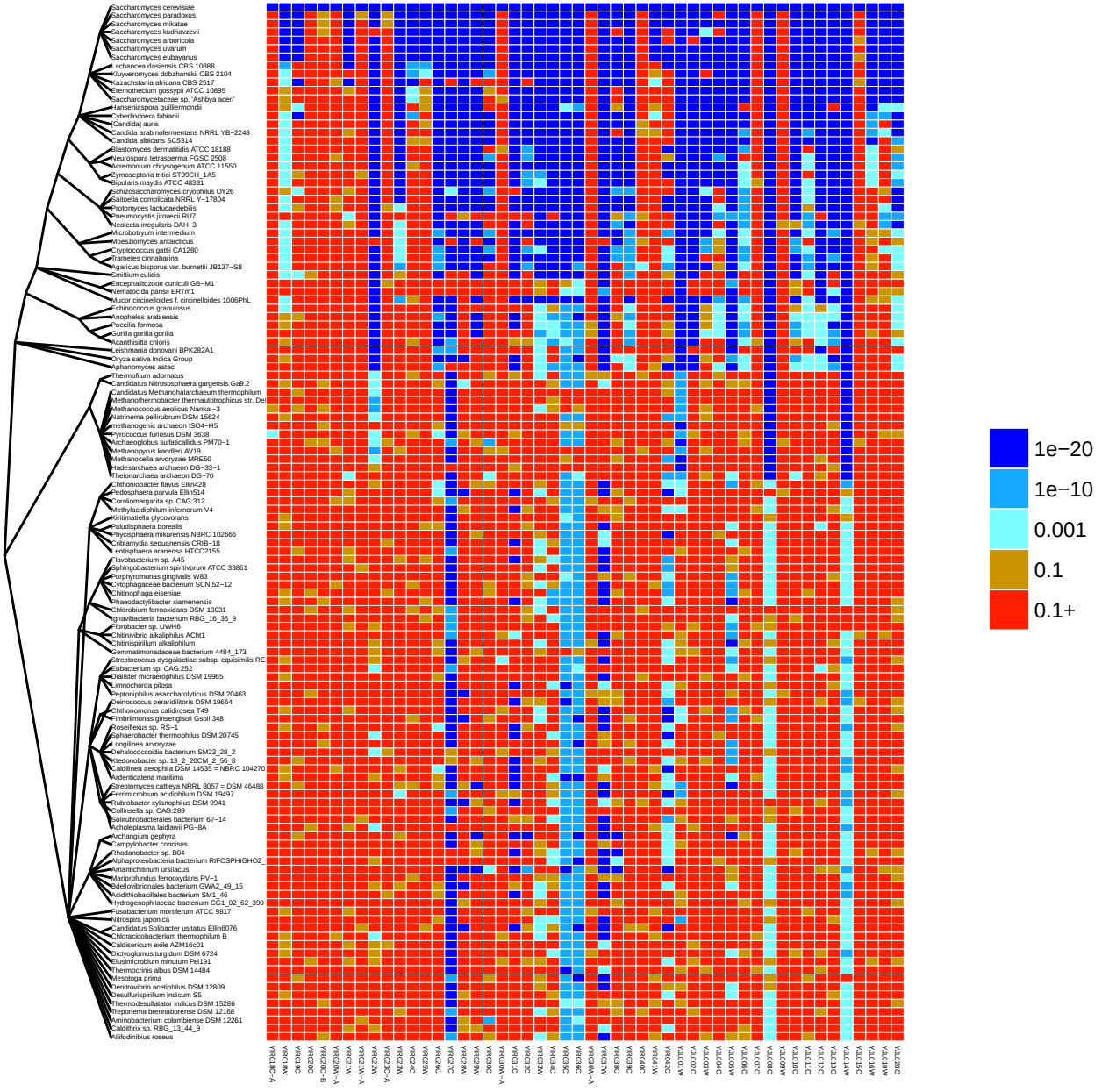

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
YAR028W
YAR028C
YAR028C-A
YAR019C
YAR019W
YAR018C
YAR018W
YAR017W
YAR015W
YAR014C
YAR014W
YAR009C
YAR008W
YAR007C
YAR007W
YAR003W
YAR002C-A
YAR002W
YAR002C
YAR001C
YAR001W
YAR000C
YAL069W
YAL068C
YAL067C-A
YAL067C
YAL066W
YAL065C
YAL064W
YAL063C-A
YAL063C
YAL062W
YAL061W
YAL060W
YAL059W
YAL058W
YAL057C
YAL056W
YAL055C
YAL054C
YAL053W
YAL052W
YAL051W
YAL050C
YAL049C
YAL048C
YAL047C
YAL046C
YAL045C
YAL044C
YAL043C
YAL042W
YAL041W
YAL040C
YAL039C
YAL038W
YAL037W
YAL036C
YAL035W
YAL034W
YAL033W
YAL032W
YAL031C
YAL030W
YAL029C
YAL028W
YAL027W
YAL026C
YAL025C
YAL024C
YAL023C
YAL022C
YAL021C
YAL020C
YAL019W
YAL018C
YAL017W
YAL016W
YAL015C
YAL014C
YAL013W
YAL012W
YAL011W
YAL010C
YAL009W
YAL008W
YAL007C
YAL006W
YAL005C
YAL004W
YAL003W
YAL002W
YAL001C
YAL000C
1e−20
1e−10
0.001
0.1
0.1+

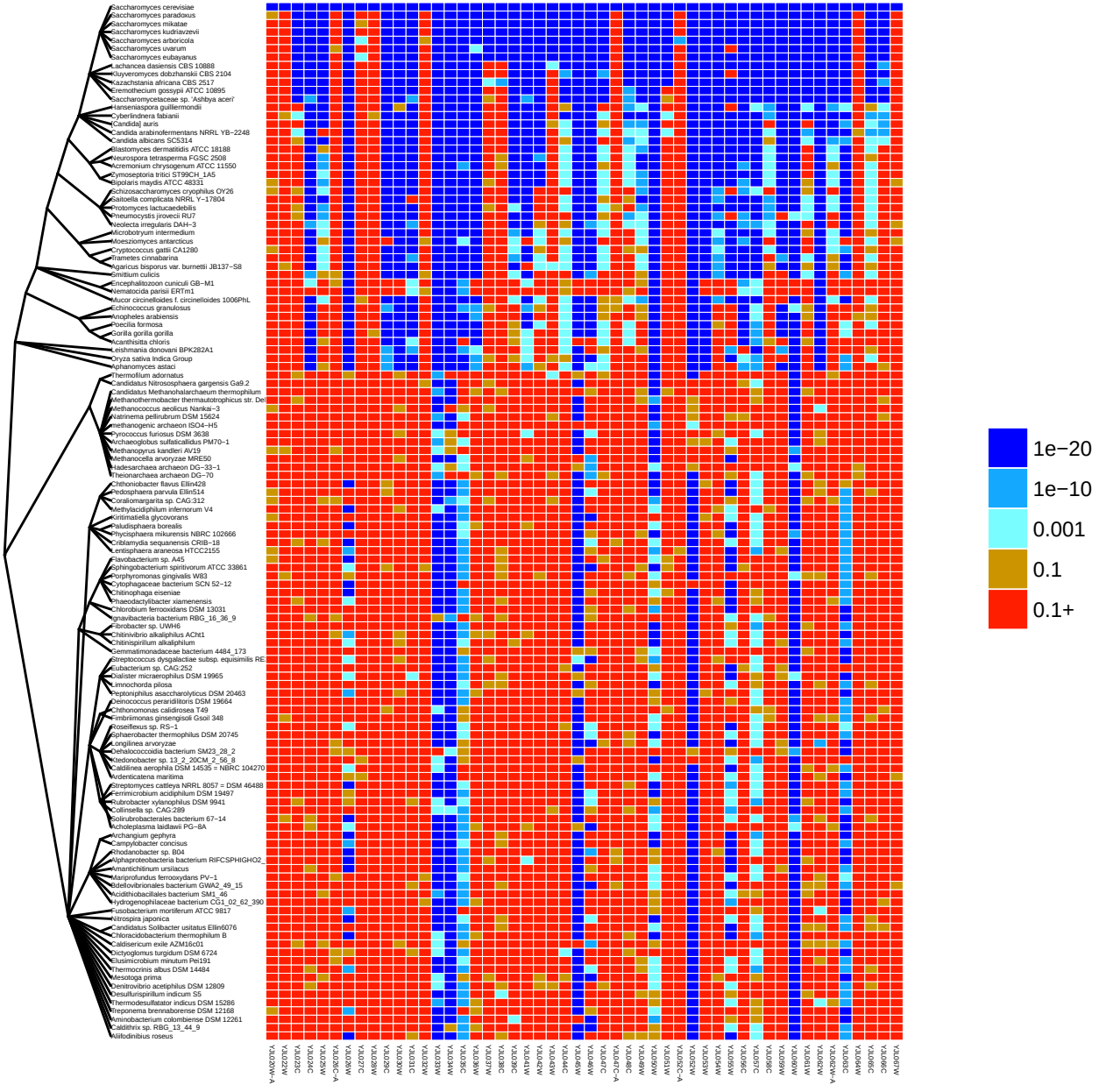

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

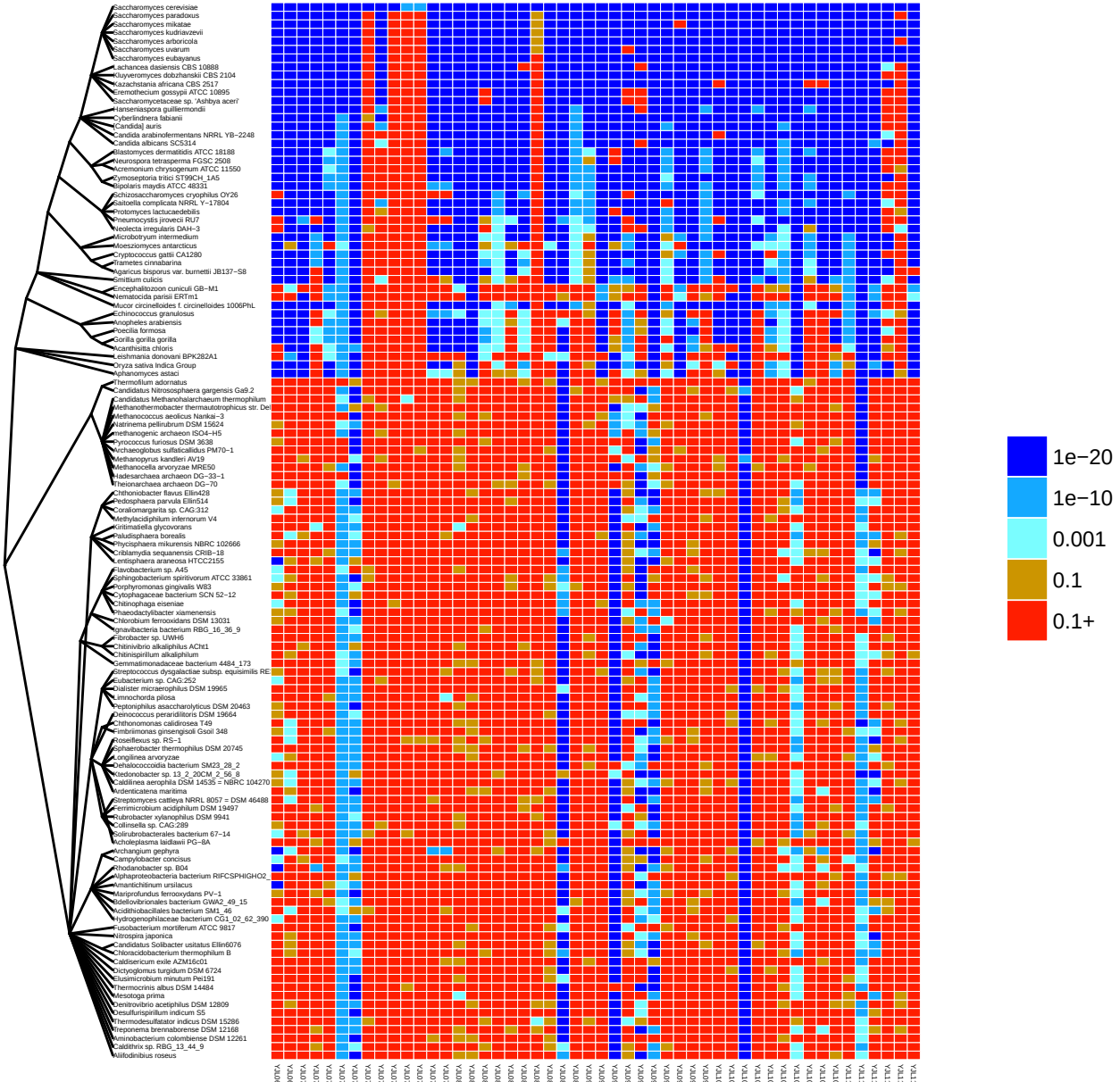

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niinodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

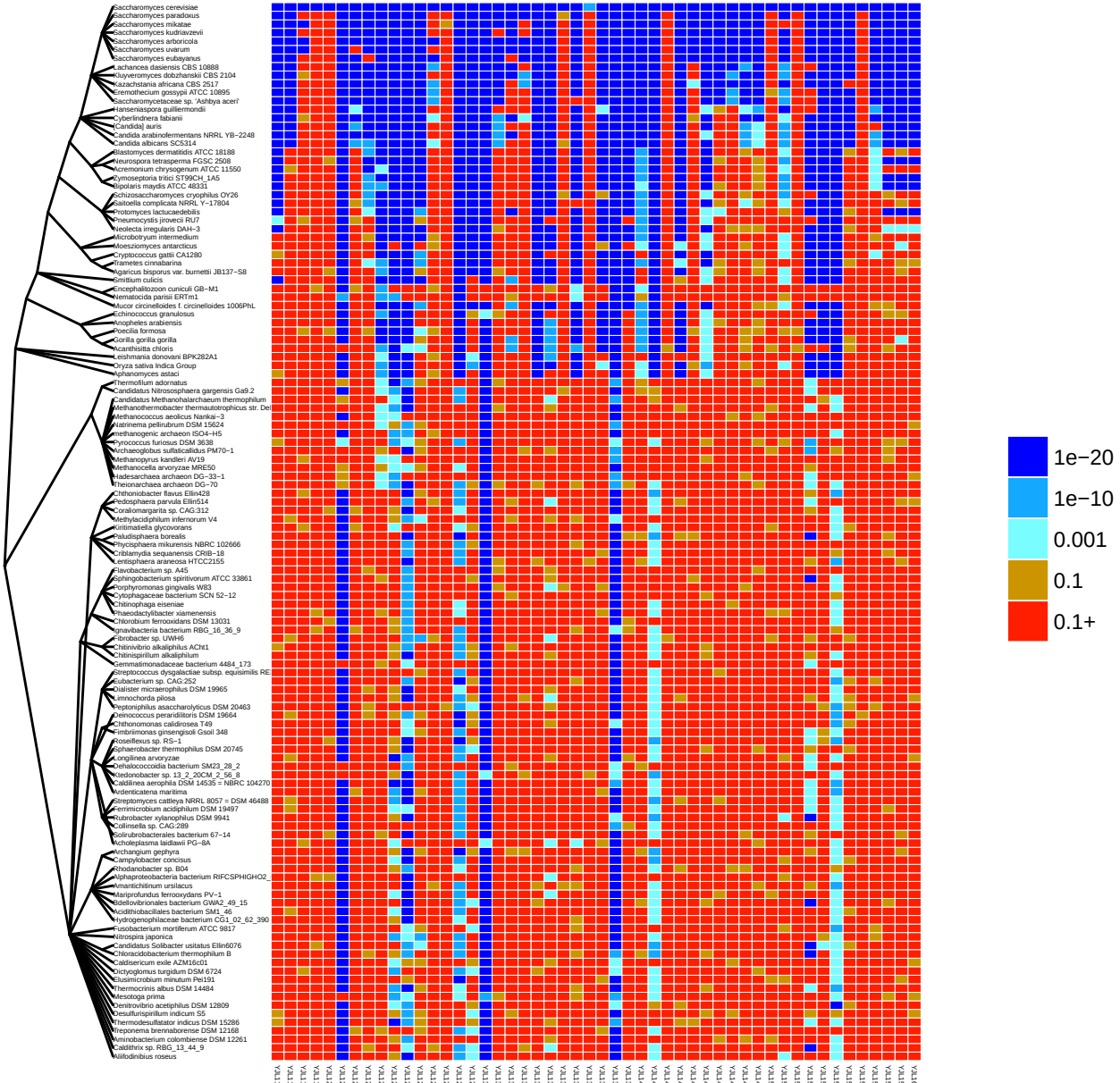

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YL100C−A
YL100W
YL101C
YL102C
YL102C−A
YL103W
YL104C
YL105C
YL105W−A
YL106W
YL107C
YL108W
YL109C
YL110W
YL111W
YL112W
YL113W
YL114C
YL115C
YL115W−A
YL116W
YL117C
YL118W
YL119C
YL120W
YL122W
YL123W
YL124W
YL125W
YL126W
YL127C
YL128W
YL129C
YL130W
YL131C
YL132C
YL133C
YL134C−A
YL134W
YL135C
YL136W
YL137C
YL138C
YL139C
YL140W
YL141W
YL142C−A
YL142W
YL143C
1e−20
1e−10
0.001
0.1
0.1+

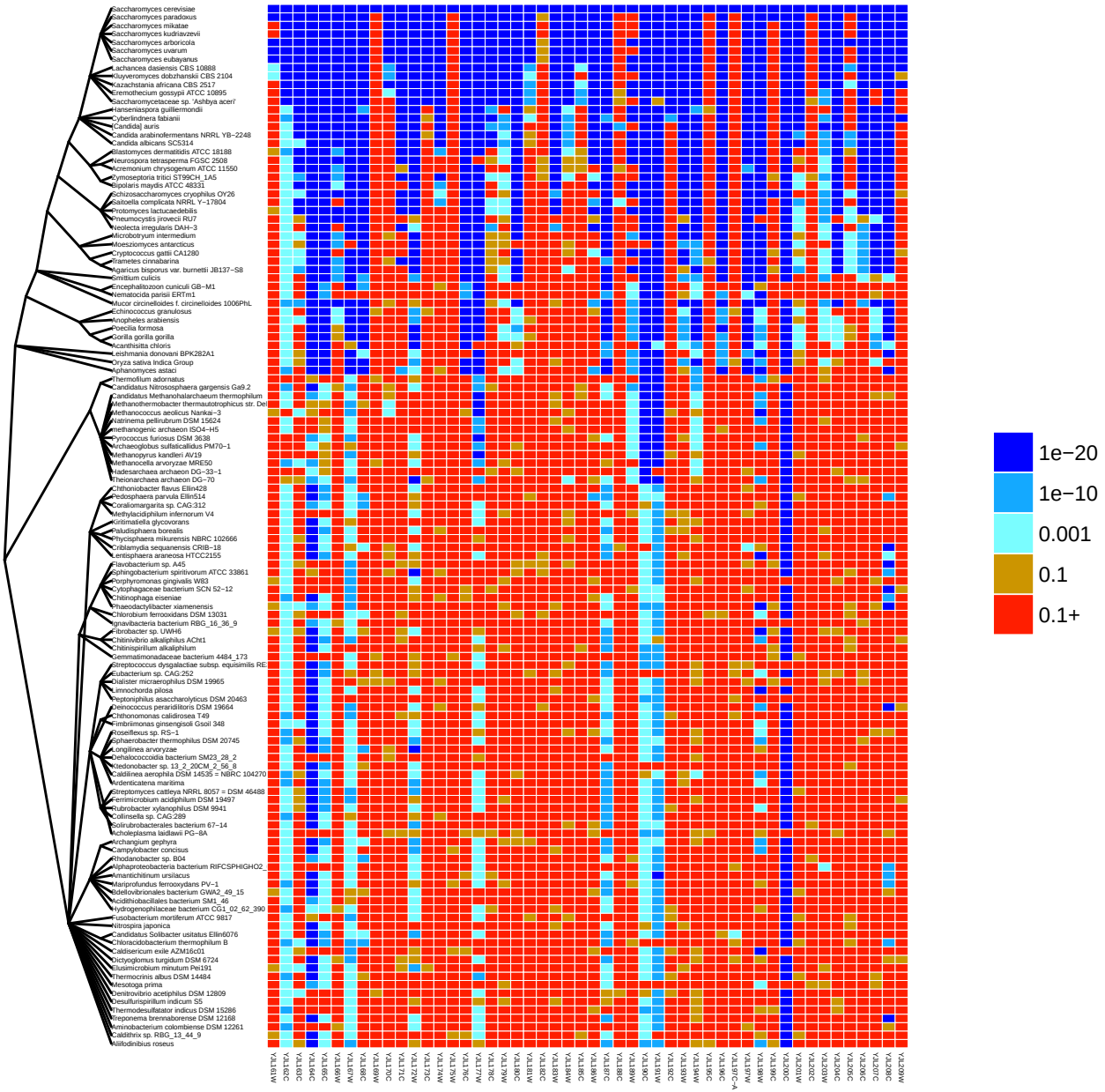

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
YAL144W
YAL145C
YAL146C
YAL147C
YAL148W
YAL149C
YAL150C
YAL151C
YAL152W
YAL153W
YAL154C
YAL155C
YAL156W
YAL156W-A
YAL156W-B
YAL157C
YAL158W
YAL159W
YAL160C
YAL161W
YAL162W
YAL163C
YAL164C
YAL165C
YAL166C
YAL167C
YAL167W-A
YAL172C
YAL173W
YAL176C
YAL177C
YAL177W-A
YAR002C-A
YAR002C
YAR003W
YAR004W
YAR005W
YAR006C
YAR007C
YAR008W
YAR009W
YAR010C
YAR011C
YAR012W
YAR013C
YAR014W
YAR015W
YAR016W
YAR017C
YAR018C
YAR019C-A
1e−20
1e−10
0.001
0.1
0.1+

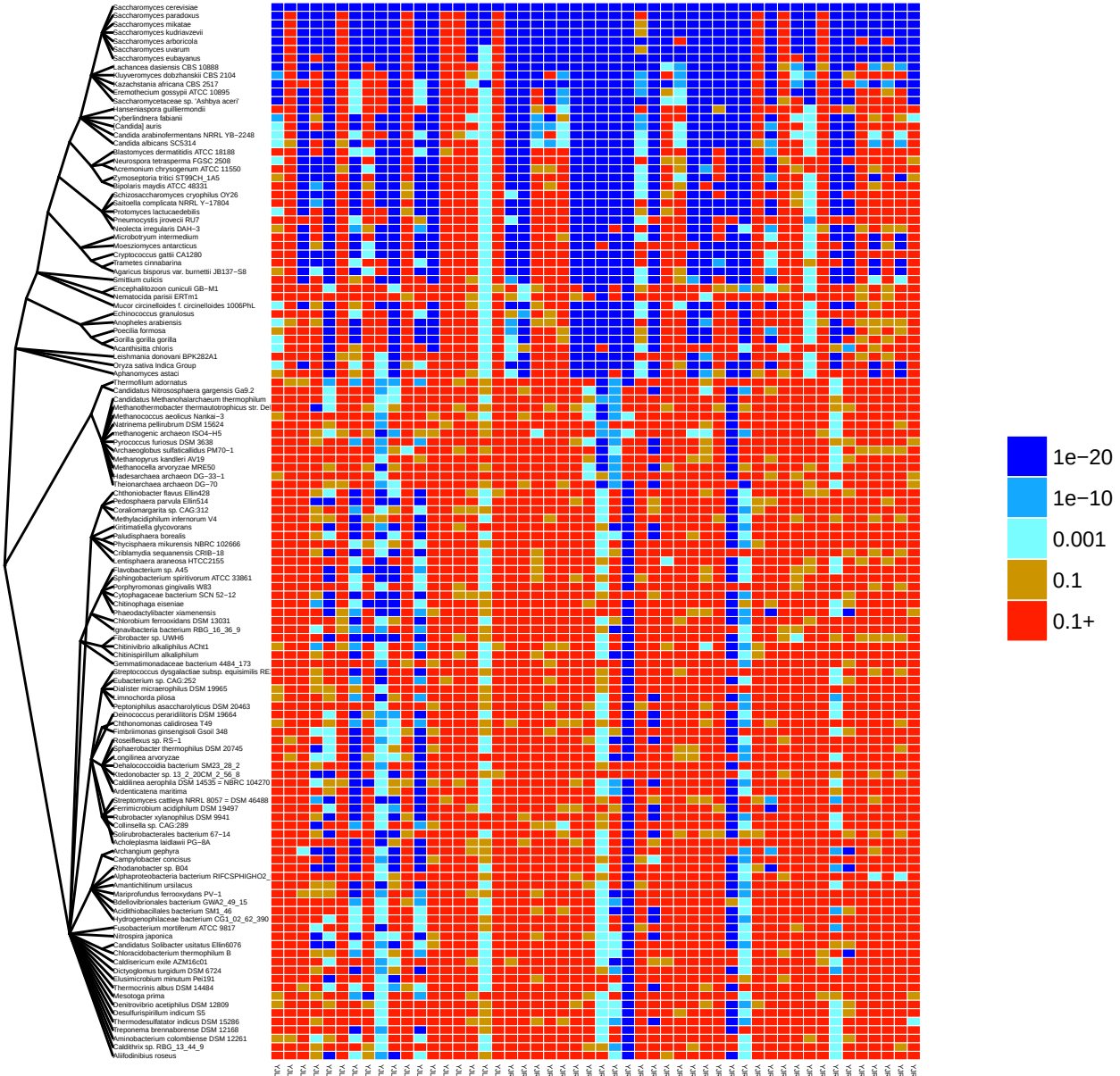

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

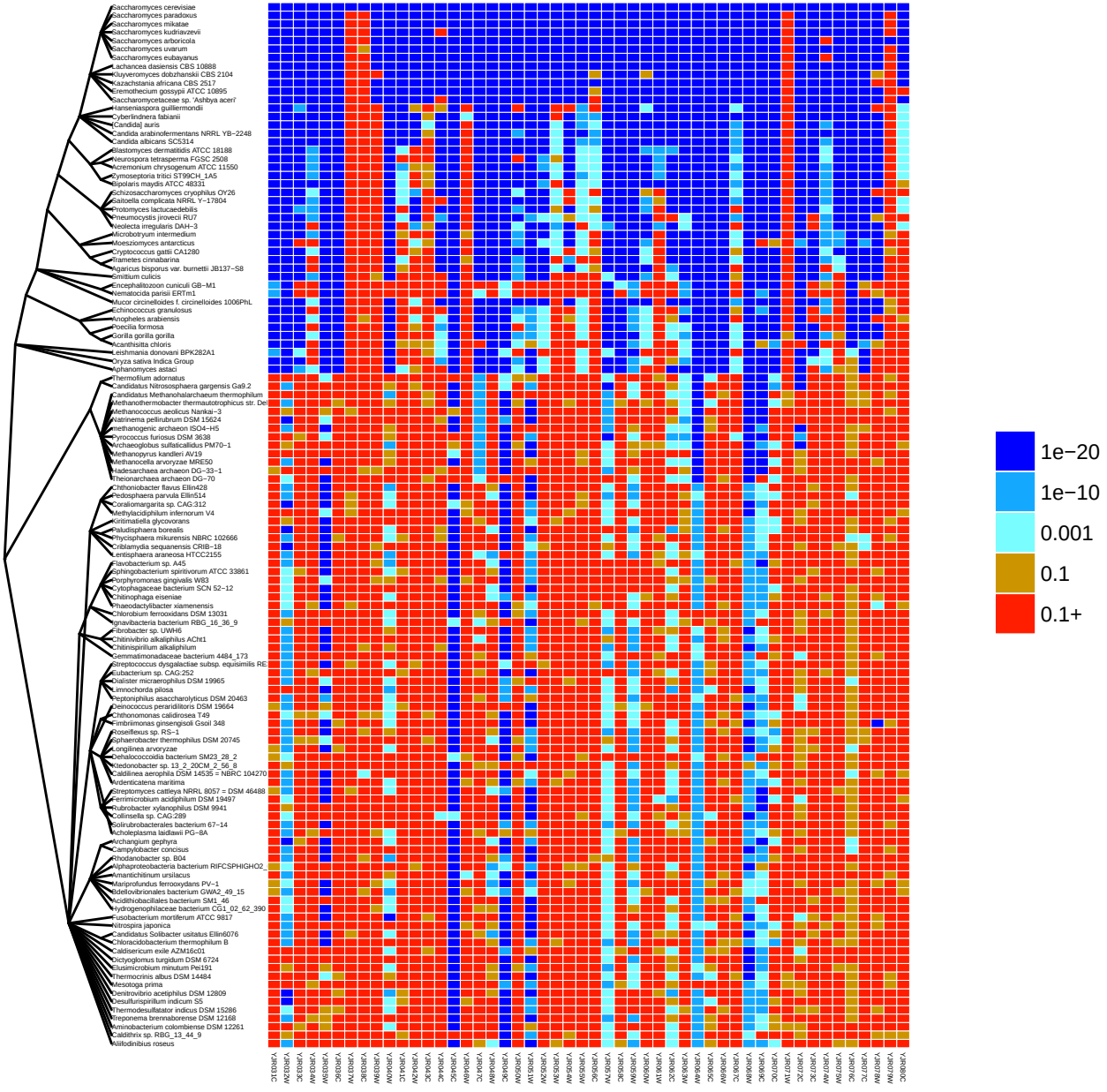

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoil Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiliodinibius roseus
YJ0204W−A
YJ0203W
YJ0203C
YJ0204C
YJ0205W
YJ0206W−A
YJ0206C
YJ0207C
YJ0208W
YJ0209W
YJ0210C
YJ0212W
YJ0213W
YJ0214W
YJ0215W
YJ0216W
YJ0217W
YJ0218C
YJ0219W
YJ0220C
YJ0221C
YJ0222W
YJ0223C
YJ0224C
YJ0225W
YJ0226C
YJ0227W
YJ0228C
YJ0229W
YJ0230W
YJ0231W
YJ0232C
YJ0233W−A
YJ0234C
YJ0235C−A
YJ0236C
YJ0237C
YJ0238W
YJ0239C
YJ0240W
YJ0241W
YJ0242W
YJ0243W
YJ0244W
YJ0245W
YJ0246W
YJ0247W
YJ0248C
YJ0249C
YJ0250W−A
YJ0251W
YJ0252C−A
YJ0253W
YJ0254W
YJ0255W
YJ0256C
YJ0257C
YJ0258C
YJ0259W
YJ0260W
YJ0261W
YJ0262W
YJ0263W−A
YJ0264C
YJ0265C
YJ0266C
YJ0267W
1e−20
1e−10
0.001
0.1
0.1+

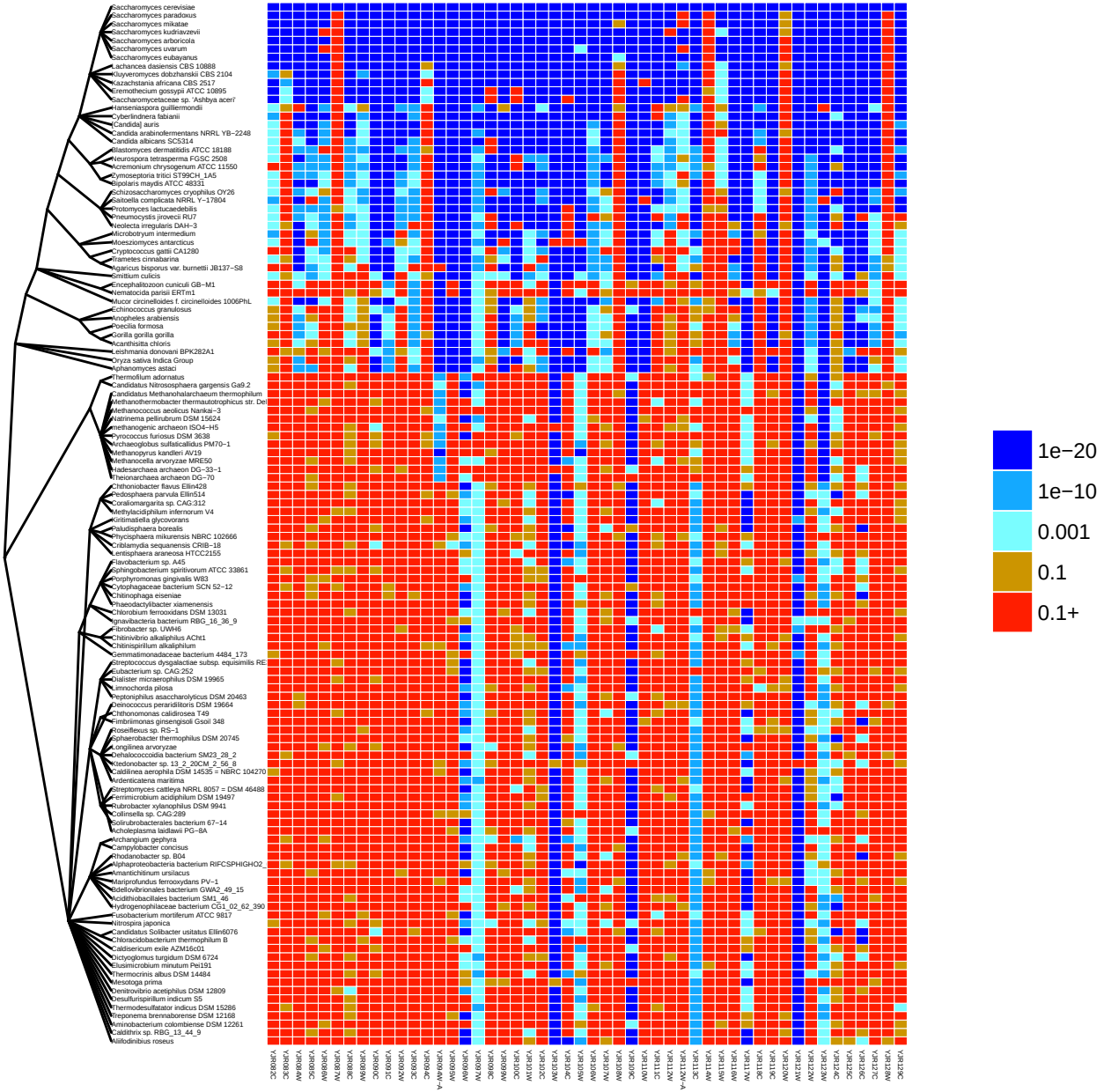

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YAL005C
YAL009C
YAL010C
YAL012W
YAL027C
YAL029C
YAL030W
YAL037C
YAL037C-A
YAL037C-B
YAL038C
YAL040C
YAL042W
YAL046C
YAL047C
YAL048C
YAL049C
YAL050C
YAL051W
YAL053W
YAL054C
YAL056W
YAL058W
YAL059W
YAL060W
YAL061W
YAL063C
YAL064W
YAL065C
YAL067C
YAL068C
YAL069W
YAL070C
YAL071W
YAL072C
YAL073C
YAL074C
YAL075C
YAL076W
YAL077C
YAL078W
YAL079W
YAL080C
YAL081W
YAL082W
YAL083C
YAL084W
YAL085C
YAL086W
YAL087W
YAL088C
YAL089C
YAL090W
YAL091C
YAL092C
YAL093C
YAL094C
YAL095W
YAL096C
YAL097W
YAL098W
YAL099W
YAL100W
YAL101C
YAL102C
YAL103C
YAL104W
YAL105C
YAL106C
YAL107C
YAL108C
YAL109W
YAL110C
YAL111C
YAL112W
YAL113W
YAL114W
YAL115W
1e−20
1e−10
0.001
0.1
0.1+

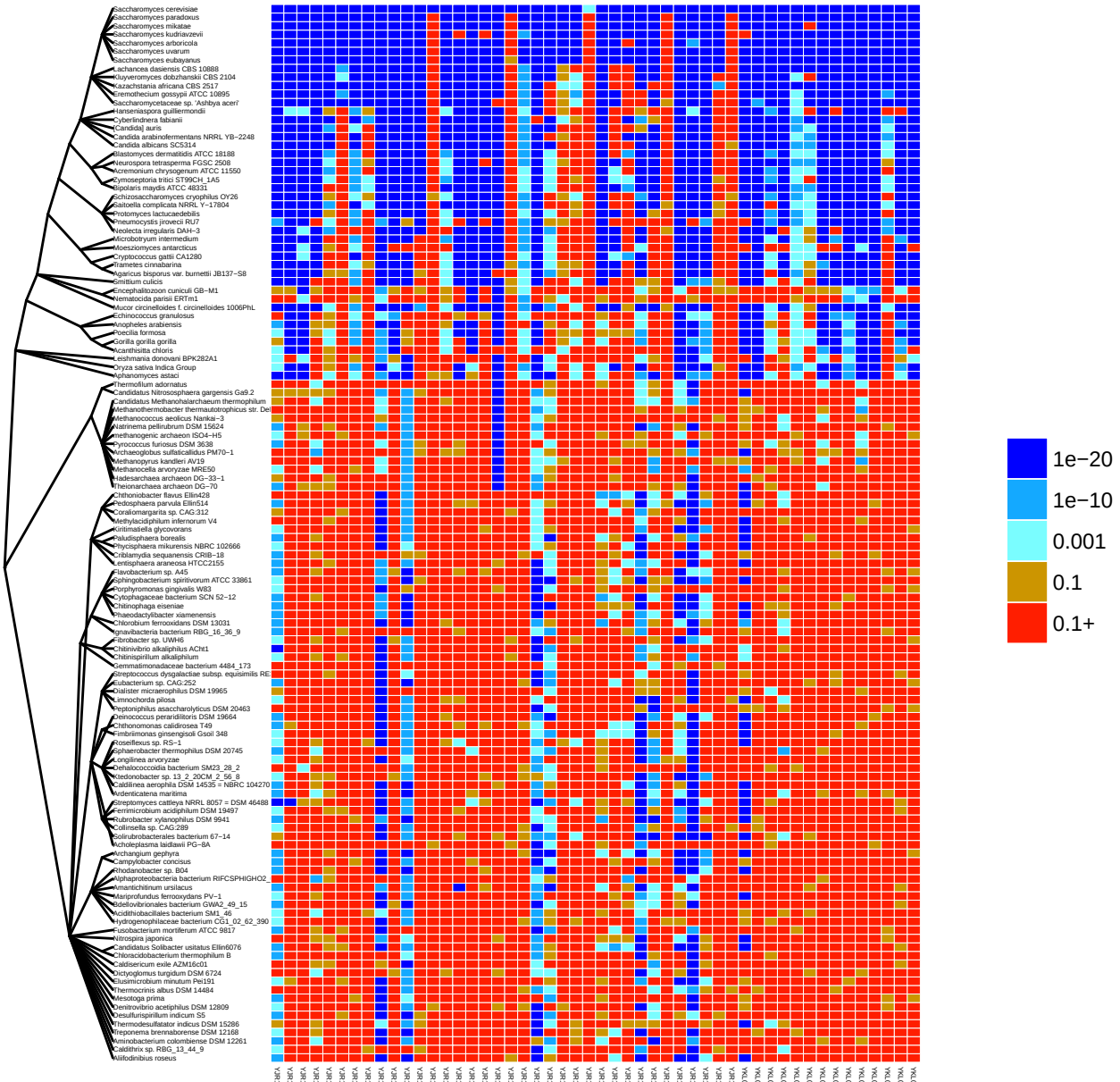

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
YA117C
YA117W
YA118W
YA119C
YA120W
YA121C
YA122W
YA123C
YA124C
YA125C
YA126W
YA127C
YA127C-B
YA127W-A
YA128C
YA129C
YA130C
YA131C
YA132W
YA133C-A
YA133W
YA134W
YA135W
YA136C
YA136W-A
YA137C
YA138C
YA139C
YA140W
YA141C
YA142C
YA143C
YA144W
YA145W
YA146W
YA147C
YA148W
YA149W
YA150W
YA151C
YA152C
YA153C
YA154C
YA155C
YA156C
YA156W-A
YA157C
YA158C
YA159W
YA160C
1e−20
1e−10
0.001
0.1
0.1+

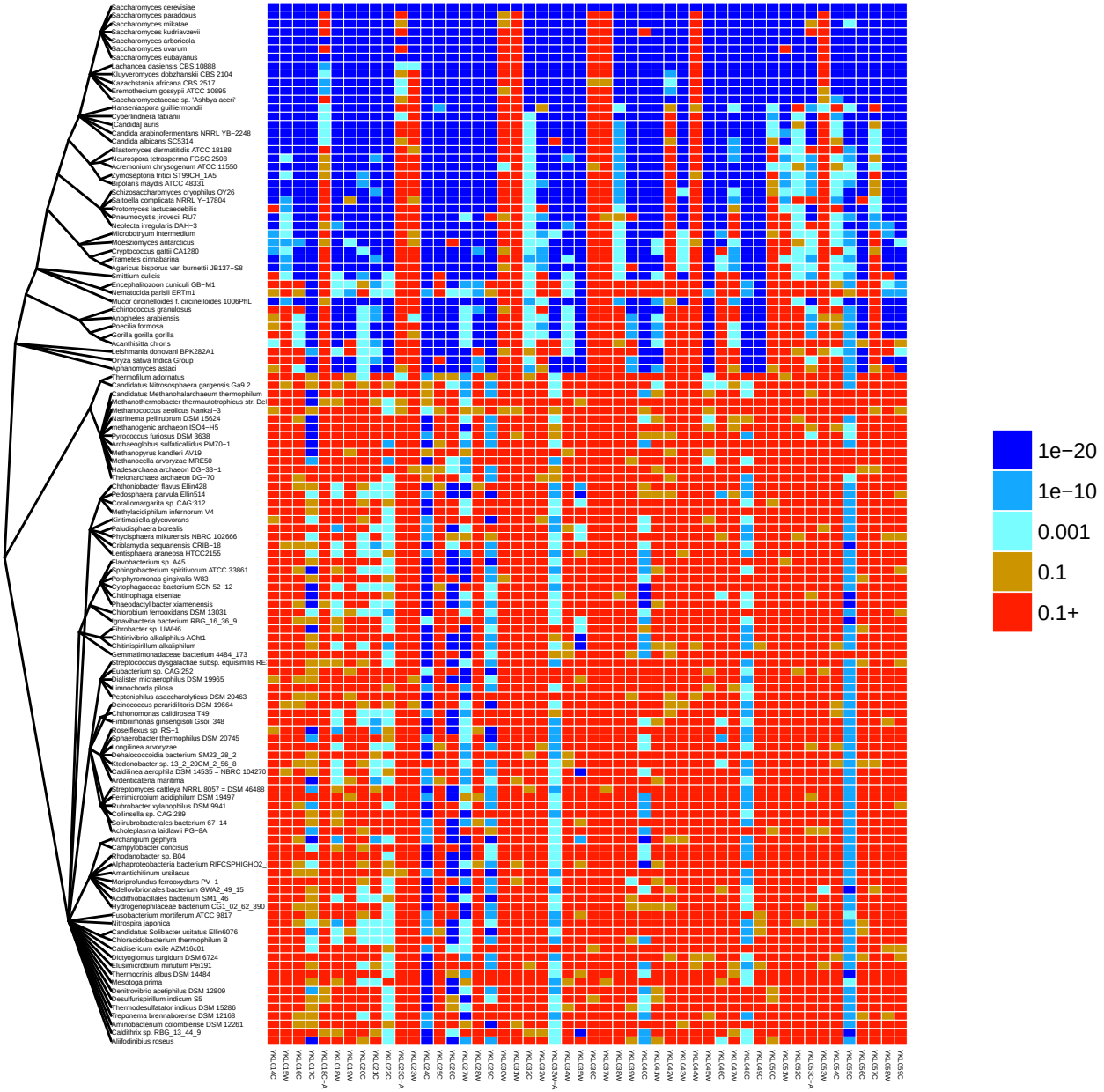

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xtedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignisphaera roseus
YA1618W
YA1618C
YA1619C
YA1619W
YA1617C
YA1617W
YA1616C
YA1616W
YA1615C
YA1615W
YA1614C
YA1614W
YA1613C
YA1613W
YA1612C
YA1612W
YA1611C
YA1611W
YA1610C
YA1610W
YA1609C
YA1609W
YA1608C
YA1608W
YA1607C
YA1607W
YA1606C
YA1606W
YA1605C
YA1605W
YA1604C
YA1604W
YA1603C
YA1603W
YA1602C
YA1602W
1e−20
1e−10
0.001
0.1
0.1+

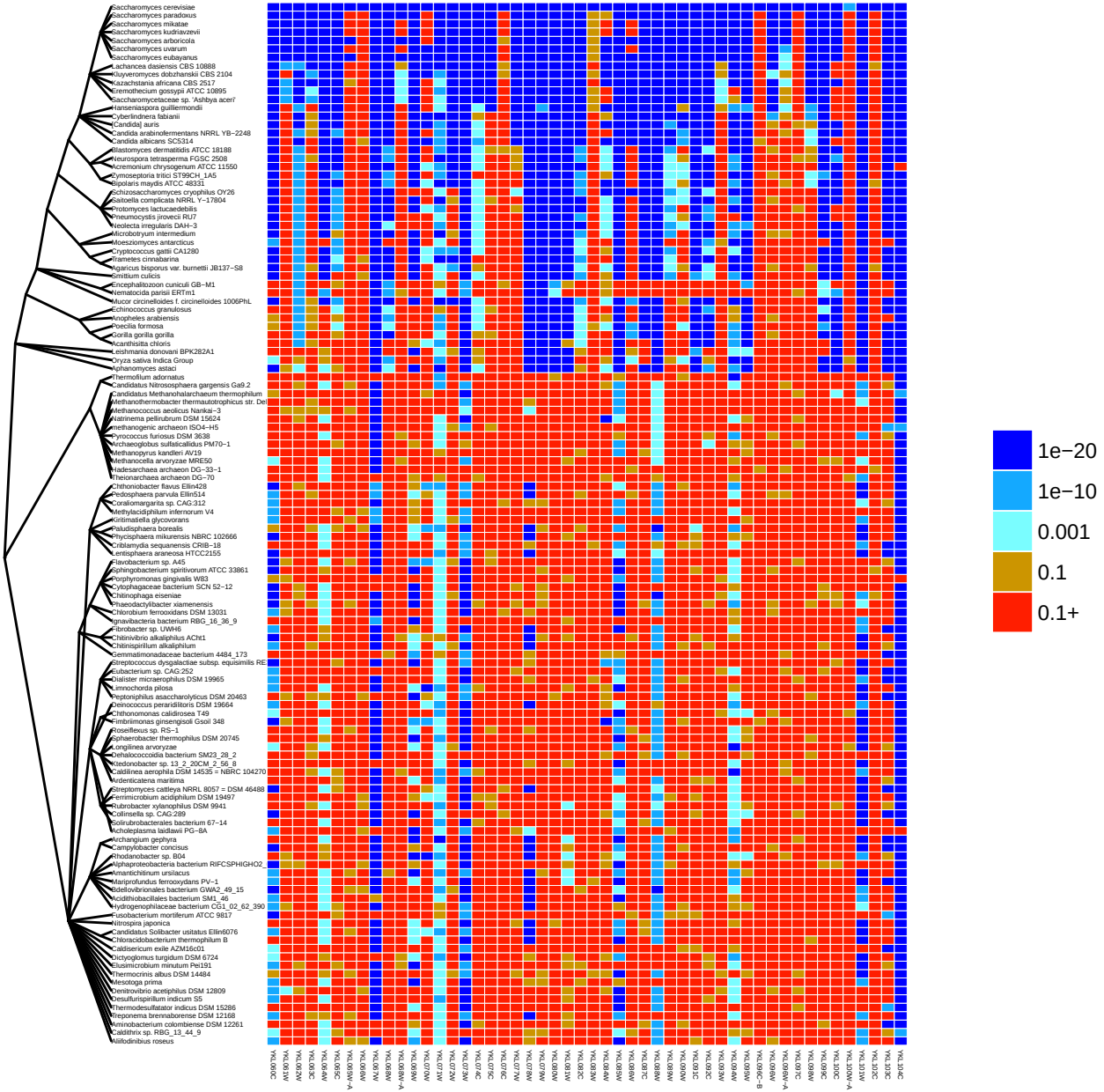

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
YA1210W
YA1211C
YA1212C
YA1213W
YA1214W
YA1215C
YA1216C
YA1217W
YA1218W
YA1219W
YA1220W
YA1221C
YA1222W
YA1222W−A
YA1222W−B
YA1223C
YA1225C
YA1225W−A
YA1001W
YA1002W
YA1003C
YA1004C
YA1005W
YA1006W
YA1007W
YA1008W
YA1009C
YA1010C
YA1010C−A
YA1010W
YA1011C
YA1012C
YA1013W
YA1014W
YA1015W
YA1016C
YA1017C
YA1018W
YA1019C
YA1020W
YA1021C
YA1022W
YA1023C
YA1024C
YA1025C
YA1026W
YA1027W
YA1028W
YA1029W
YA1030C
1e−20
1e−10
0.001
0.1
0.1+

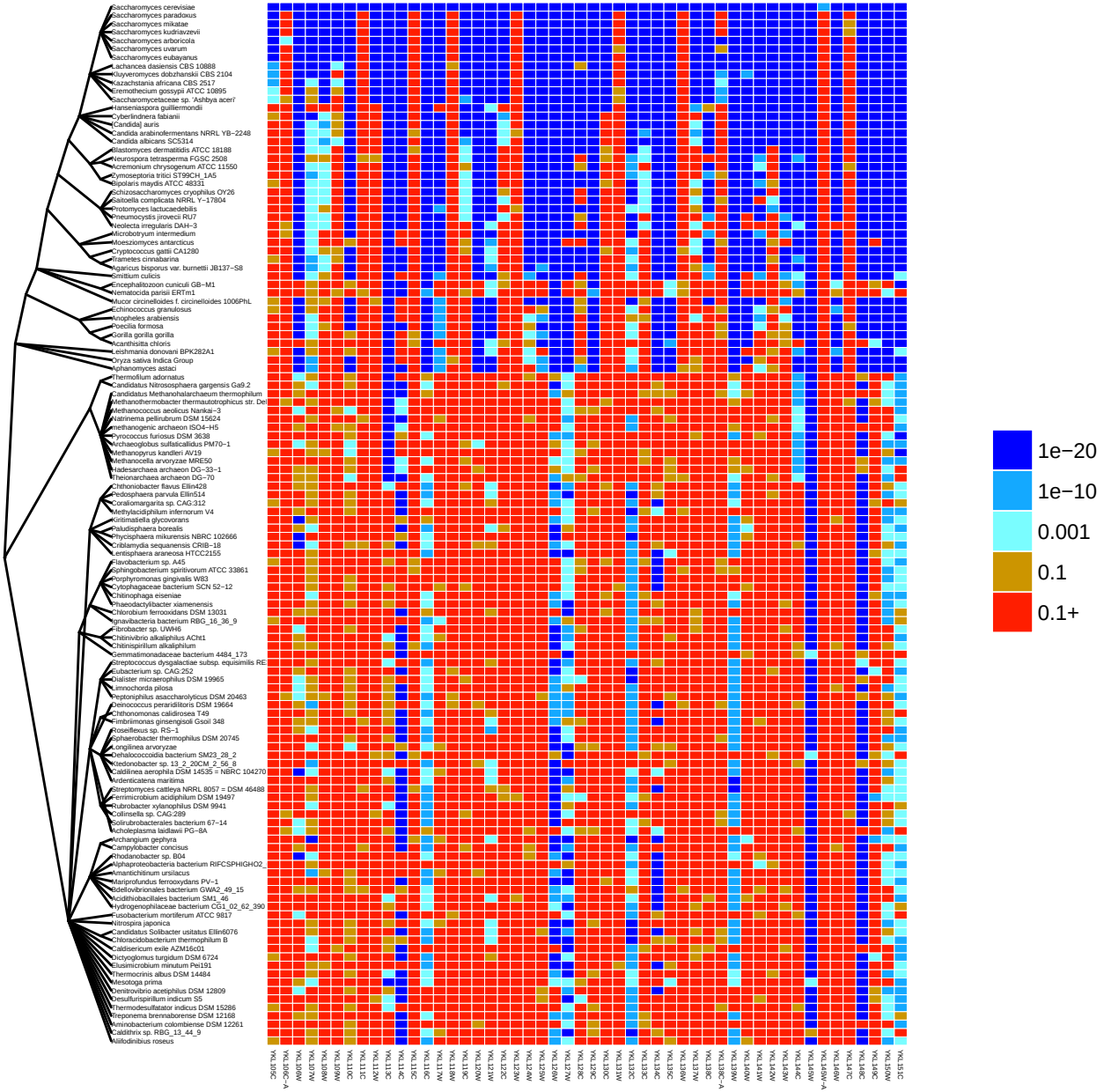

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

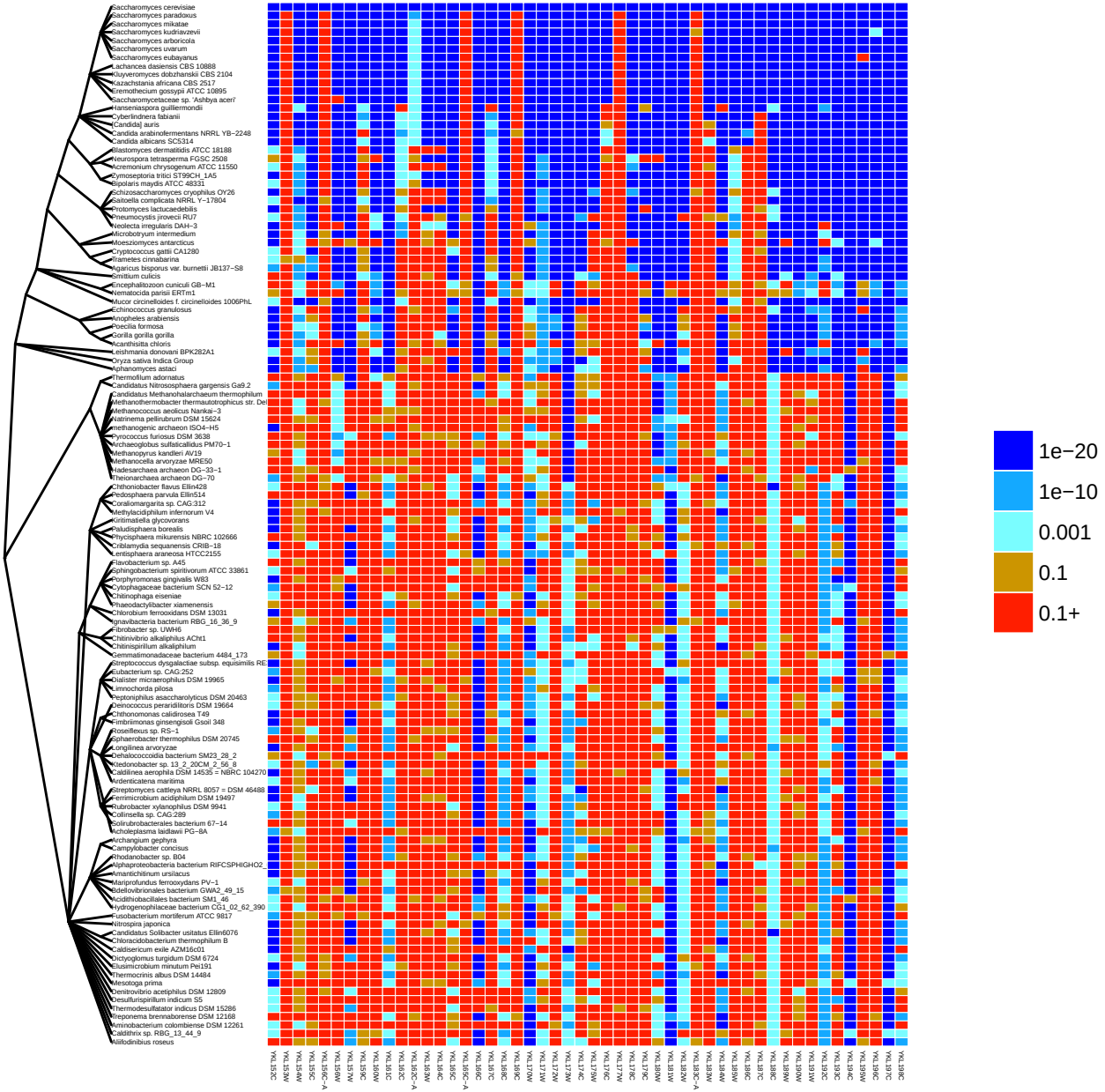

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

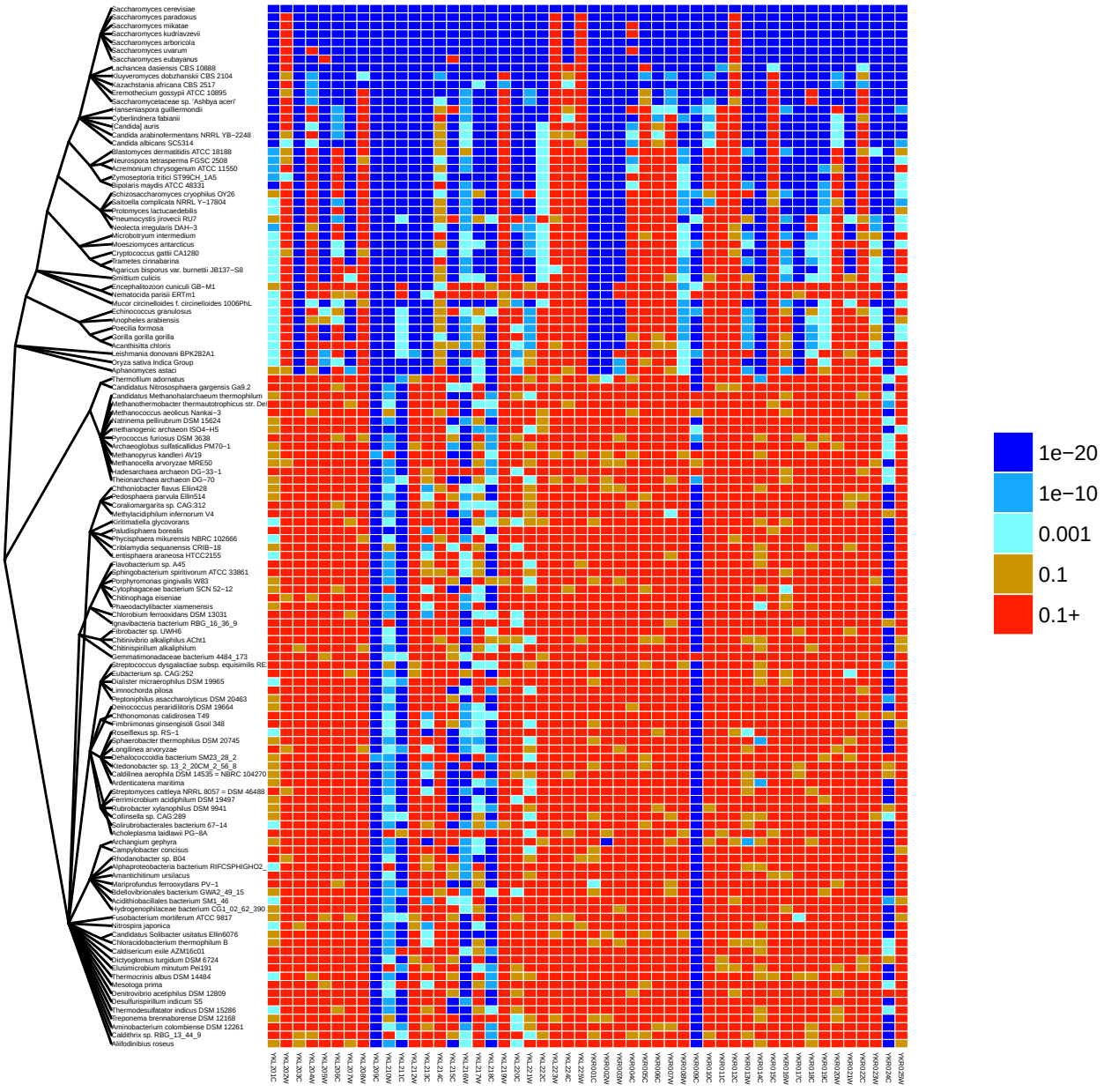

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Meeszomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

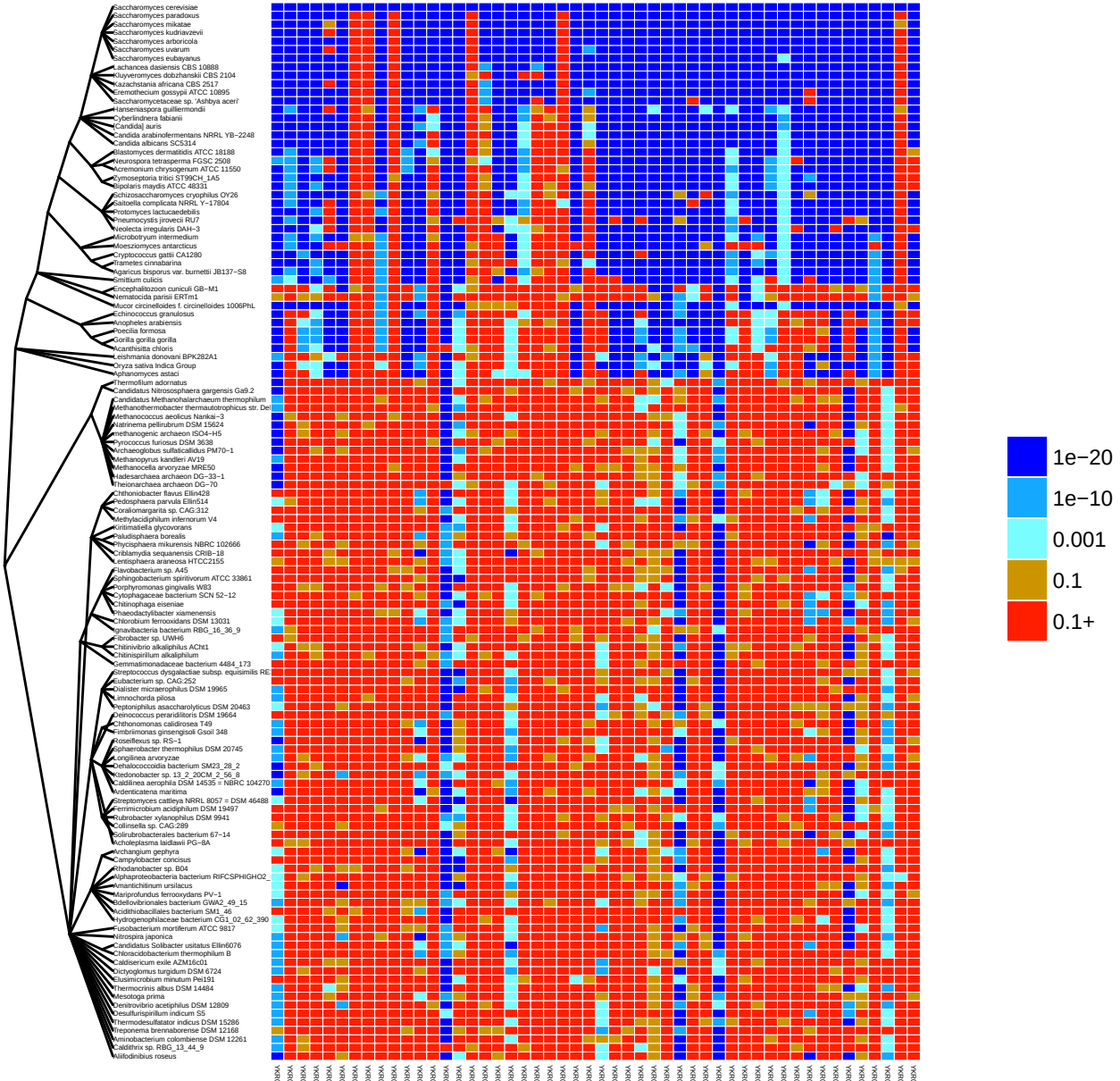

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

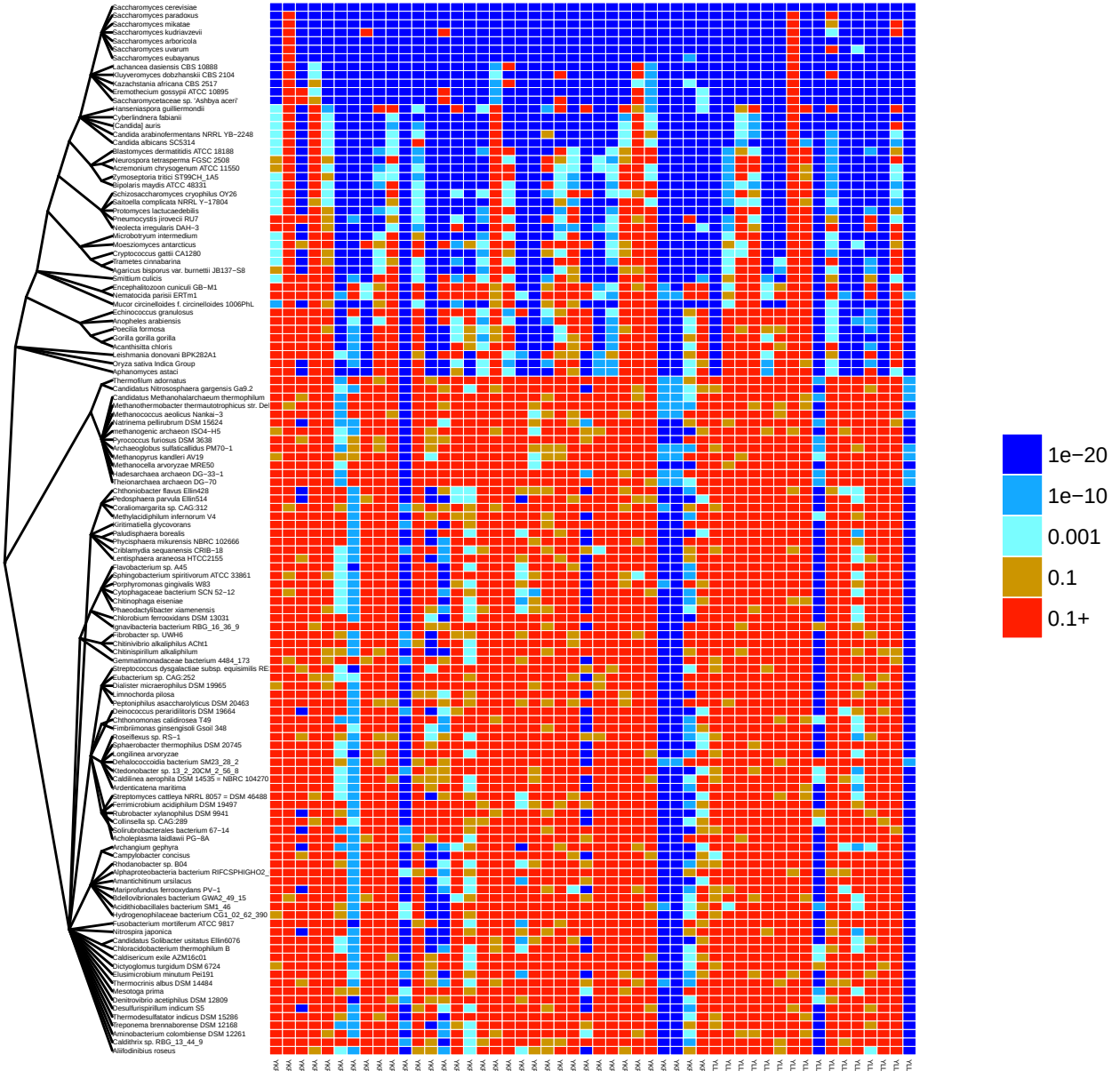

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

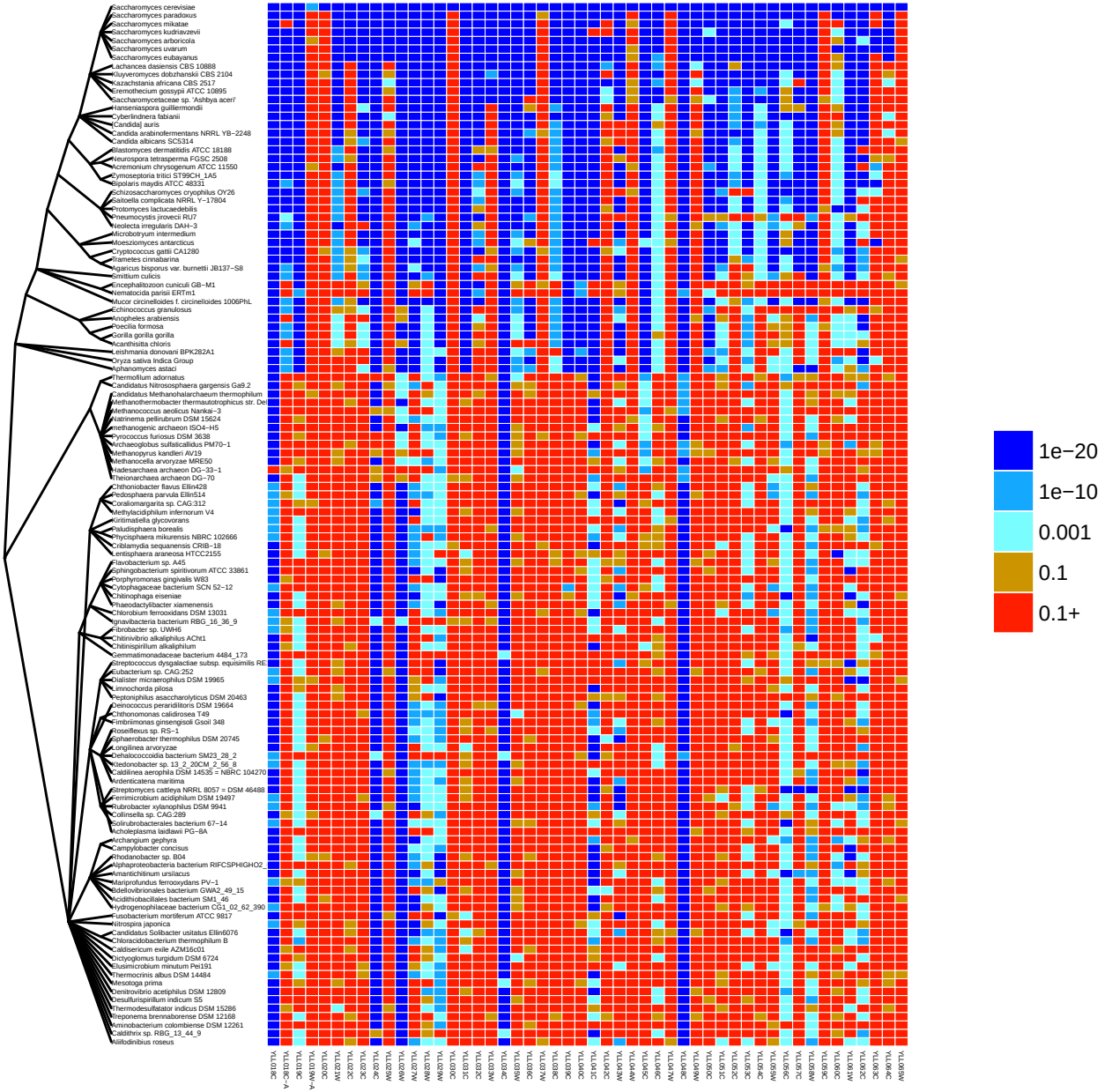

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YKL102C
YKL102C−A
YKL104W
YKL107W
YKL108W
YKL109W
YKL110C
YKL111C
YKL112W
YKL113C
YKL114C
YKL115C
YKL116C
YKL117W
YKL118W
YKL119C
YKL120W
YKL121W
YKL122C
YKL123W
YKL124W
YKL125W
YKL126W
YKL127W
YKL128C
YKL129C
YKL130C
YKL131W
YKL132C
YKL133C
YKL134C
YKL135C
YKL136W
YKL137W
YKL138C
YKL138C−A
YKL139W
YKL140W
YKL141W
YKL142W
YKL143W
YKL144C
YKL145W
YKL145W−A
YKL146W
YKL147C
YKL148C
YKL149C
YKL150W
YKL151C
1e−20
1e−10
0.001
0.1
0.1+

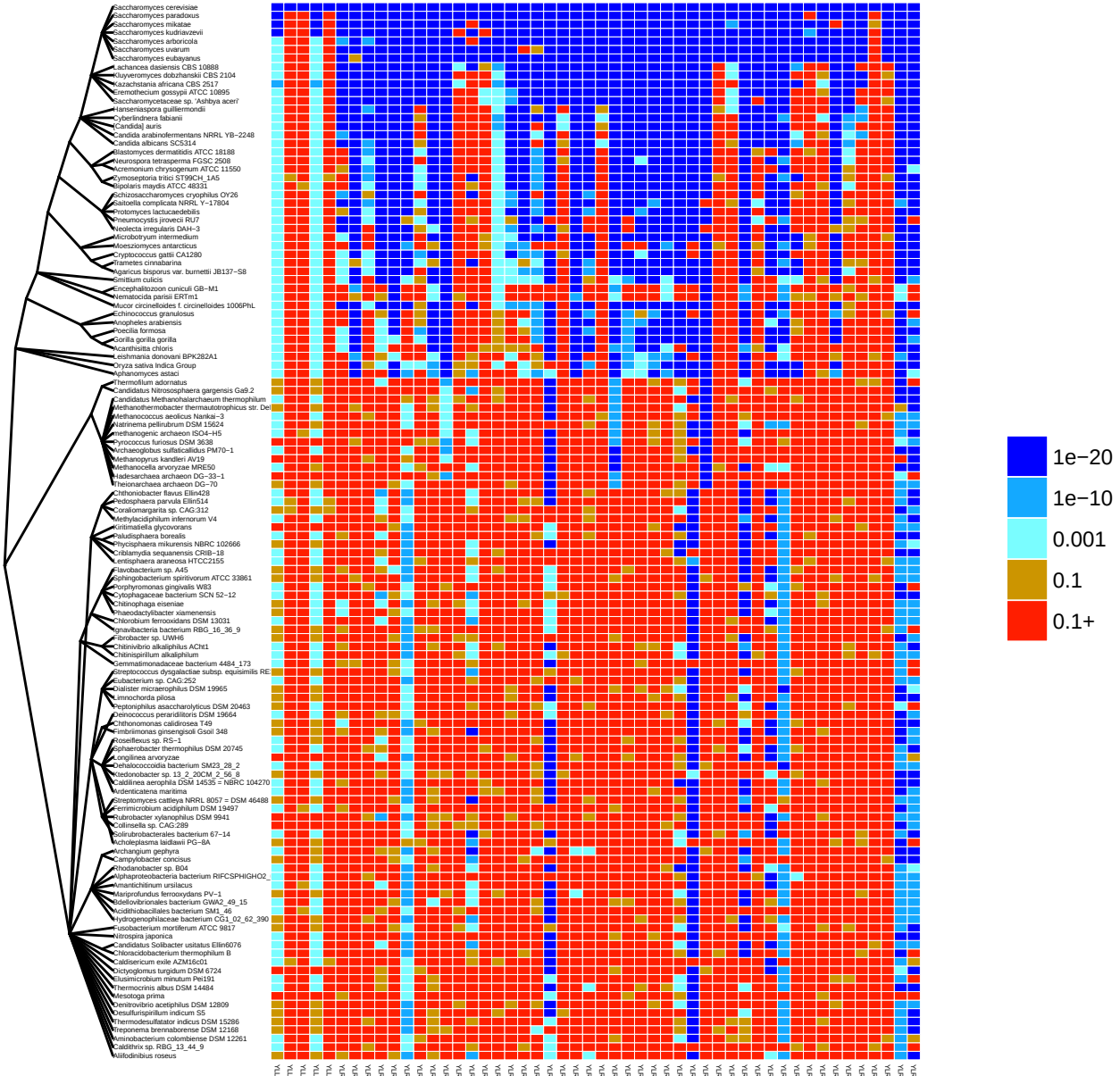

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
YAL153C
YAL154W
YAL154W
YAL155C
YAL155C−A
YAL156W
YAL157W
YAL159C
YAL160W
YAL161C
YAL162C
YAL162C−A
YAL164W
YAL164C
YAL165C
YAL165C−A
YAL166C
YAL167C
YAL168C
YAL169C
YAL170W
YAL171W
YAL172W
YAL173W
YAL174C
YAL175W
YAL175C
YAL176C
YAL178W
YAL181W
YAL182W
YAL183C−A
YAL183W
YAL184W
YAL185W
YAL186C
YAL187C
YAL188C
YAL189W
YAL190W
YAL191W
YAL192C
YAL193C
YAL194C
YAL195W
YAL196C
YAL197C
YAL198C
1e−20
1e−10
0.001
0.1
0.1+

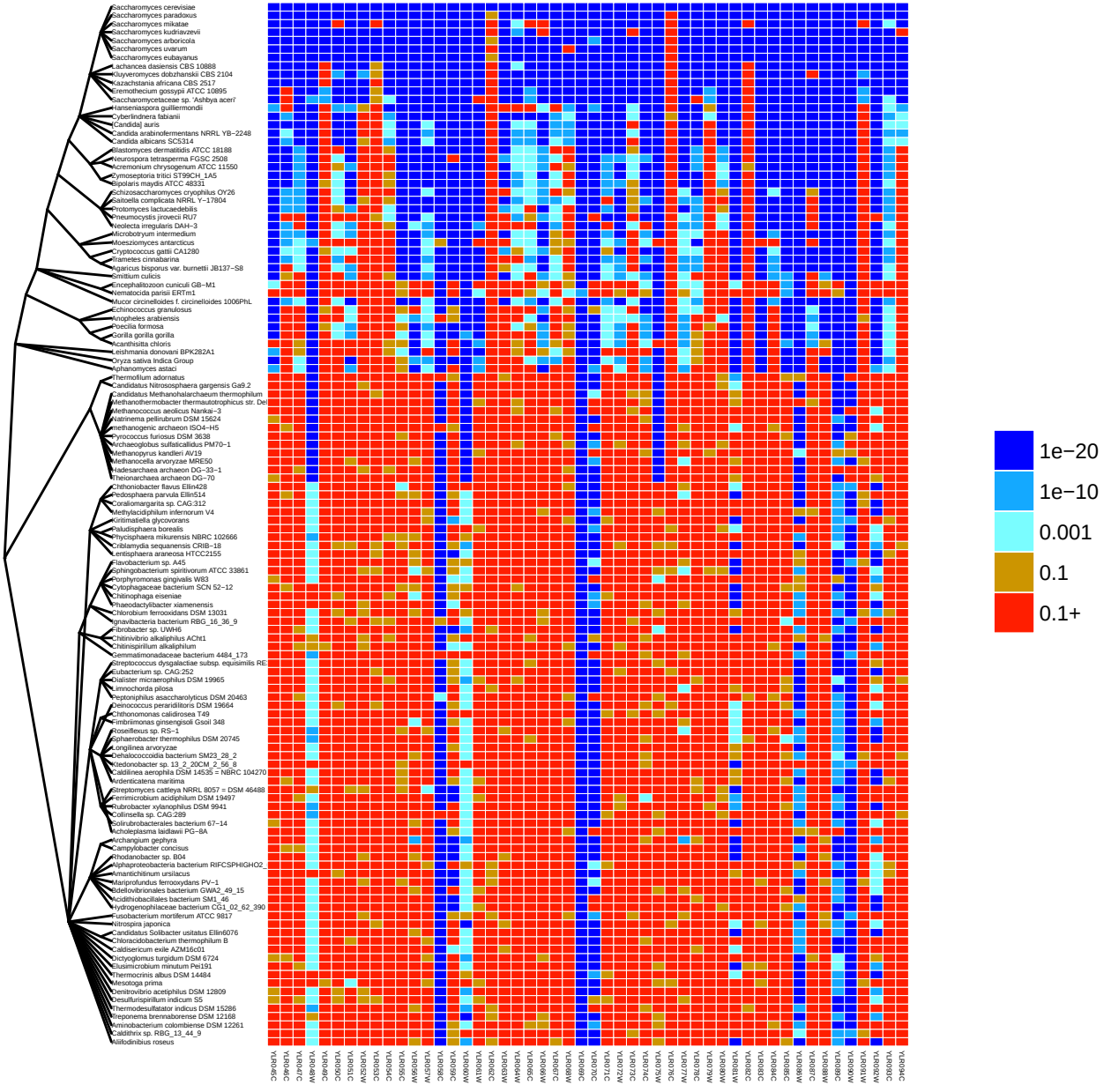

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YKA201C
YKA202N
YKA203C
YKA203W
YKA205W
YKA206C
YKA207W
YKA208W
YKA209C
YKA210W
YKA211C
YKA212W
YKA213C
YKA214C
YKA215C
YKA216W
YKA217W
YKA218C
YKA219W
YKA220C
YKA221W
YKA222C
YKA223W
YKA224C
YKA225W
YKA002W
YKA001C
YKA003W
YKA004C
YKA005C
YKA006C
YKA007W
YKA008W
YKA009C
YKA010C
YKA011C
YKA012C
YKA013W
YKA014C
YKA015C
YKA016W
YKA017C
YKA018C
YKA019C
YKA021W
YKA022C
YKA023W
YKA024C
YKA025W
1e−20
1e−10
0.001
0.1
0.1+

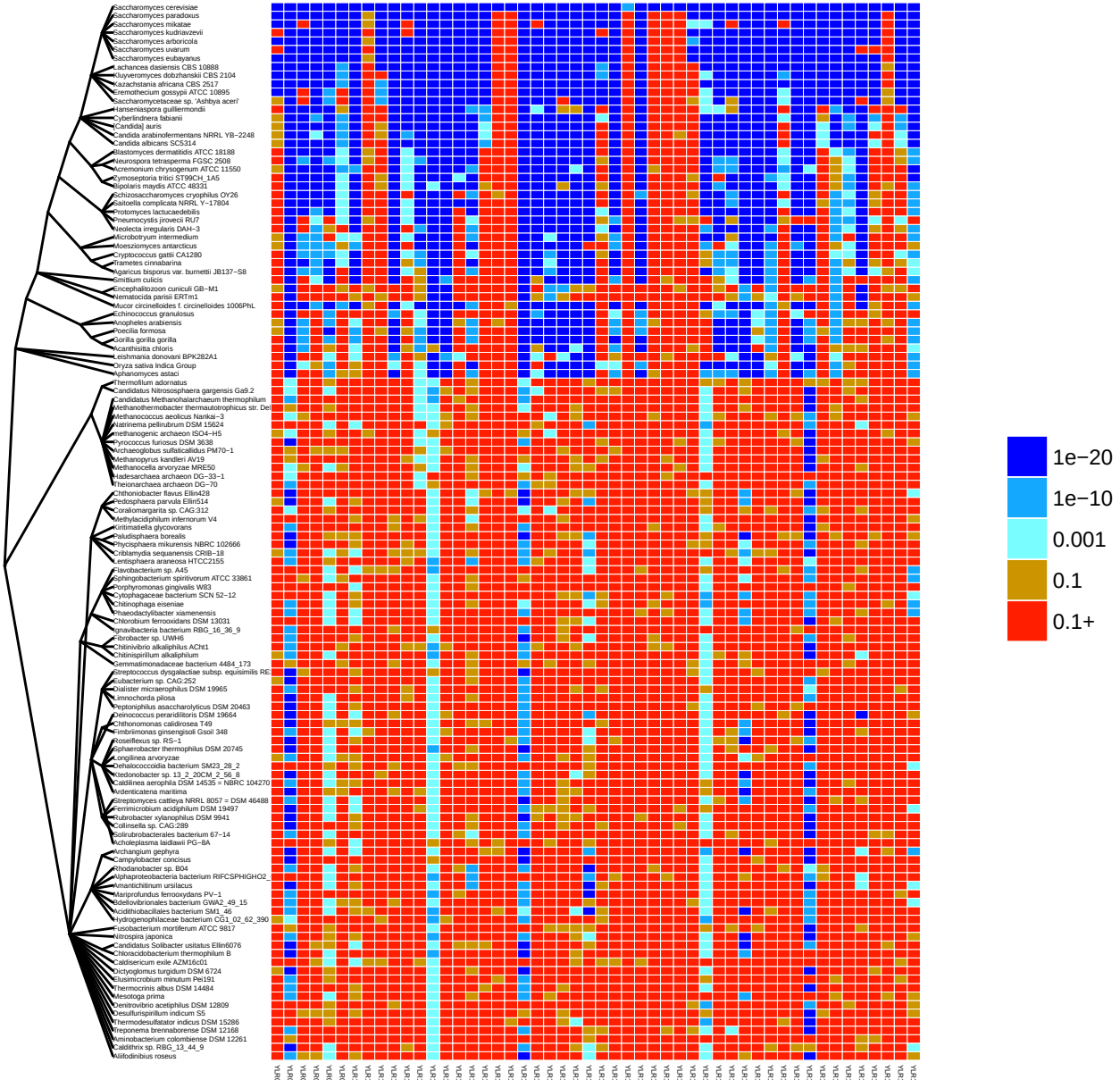

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

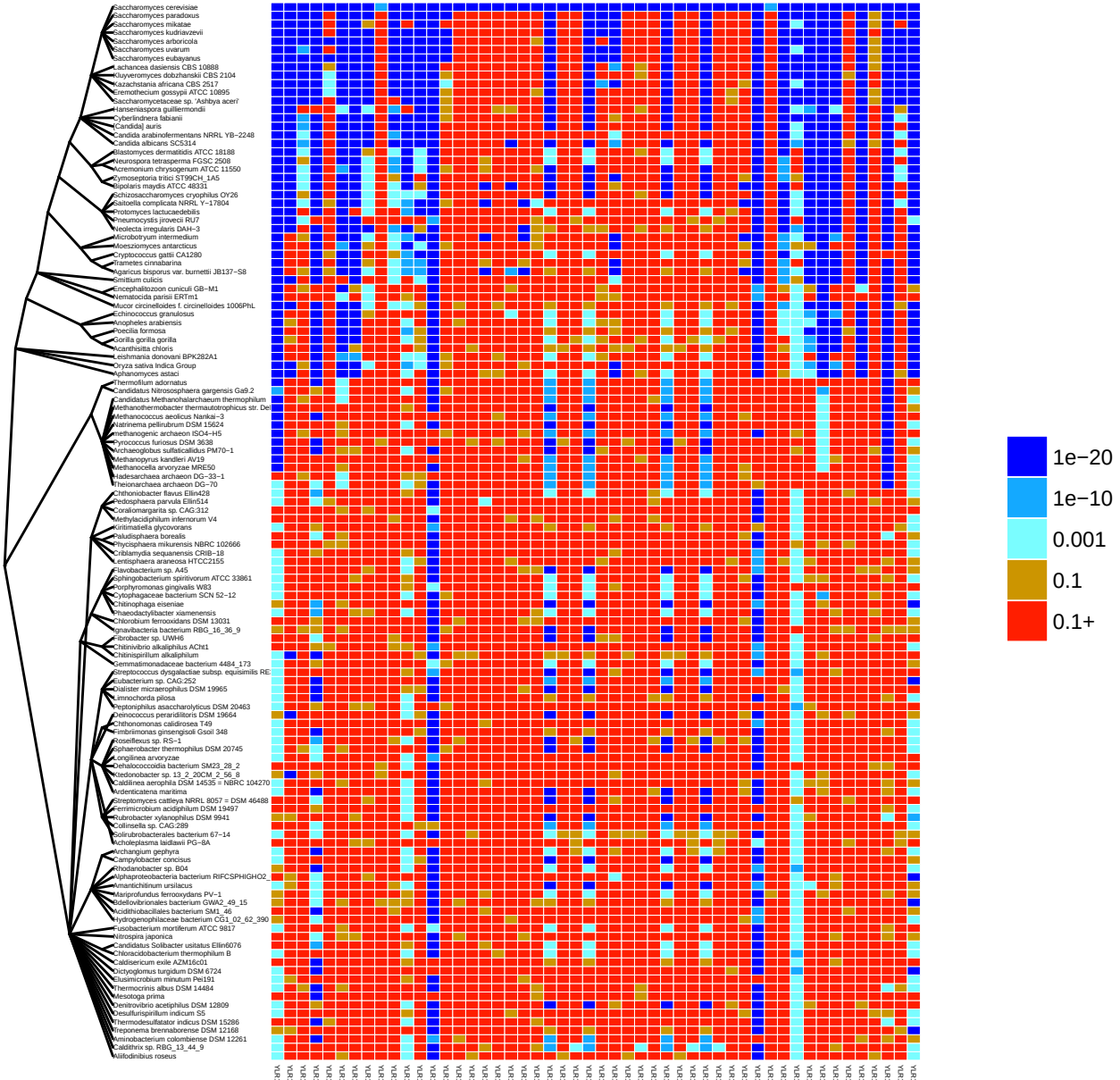

1e−20
1e−10
0.001
0.1
0.1+

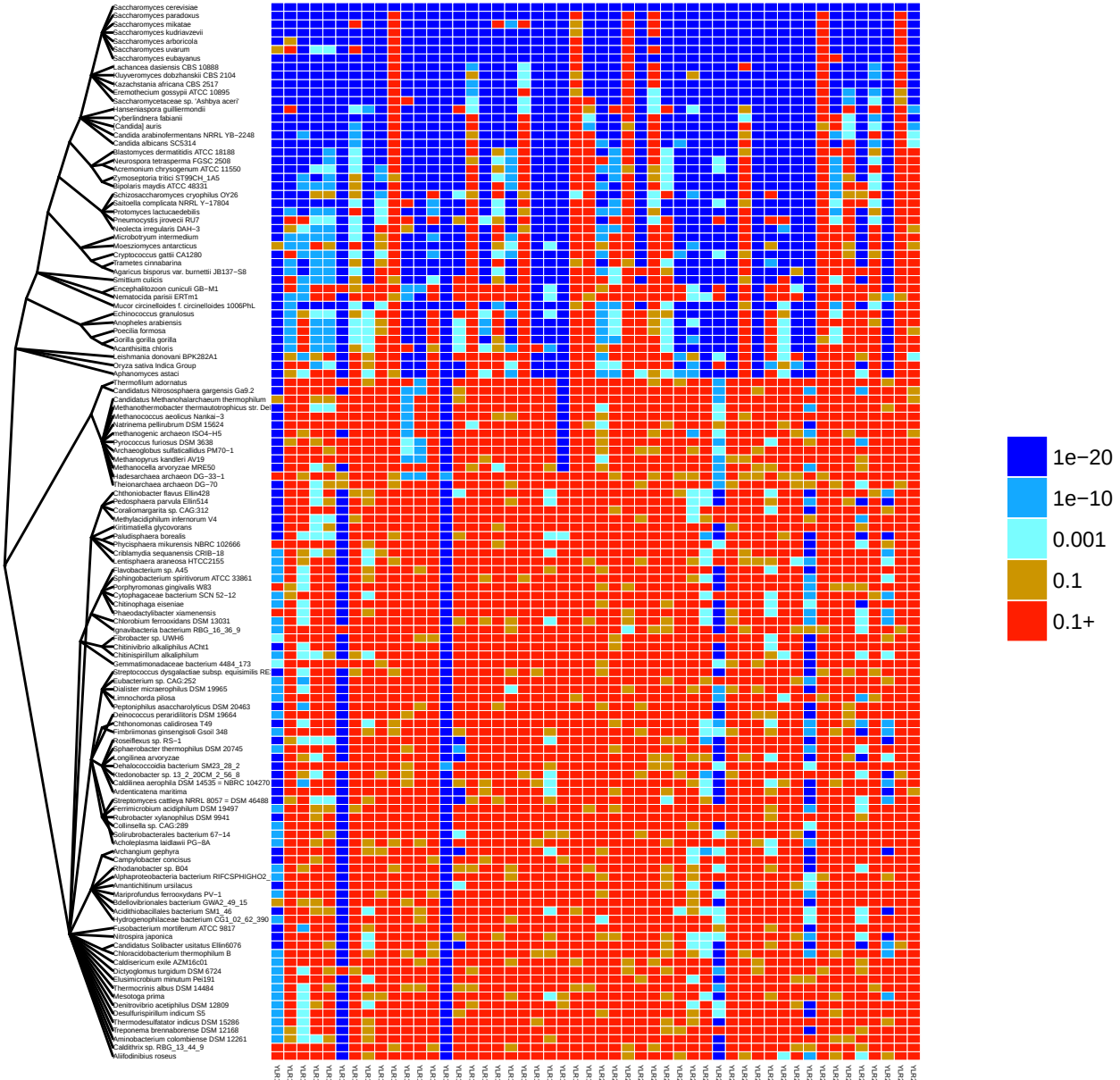

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Meeszomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
1e−20
1e−10
0.001
0.1
0.1+

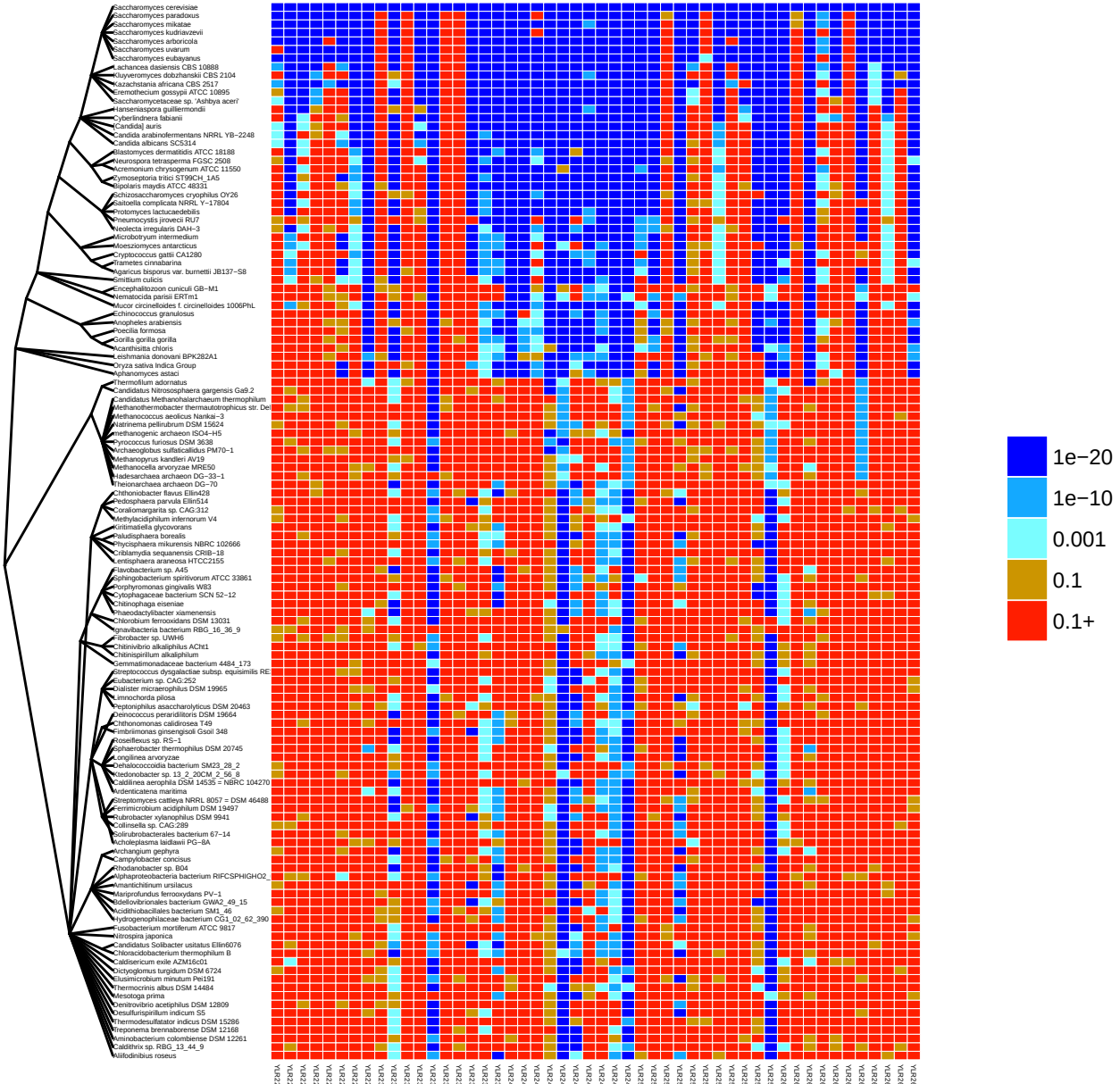

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YL0B4C
YL0B4W−A
YL0B4W−B
YL0B7C
YL0B7W−A
YL0D0C
YL0D0C
YL0D0C
YL0D4C
YL0D5W
YL0D6C
YL0D6W
YL0D9C
YL0D9W
YL0E0C
YL0E1W
YL0E2C
YL0E3W
YL0E4C
YL0E5W
YL0E6C
YL0E7W
YL0E8C
YL0E9C
YL0E9C
YL0E9C
YL0E9W
YL0E9W
YL0E9W

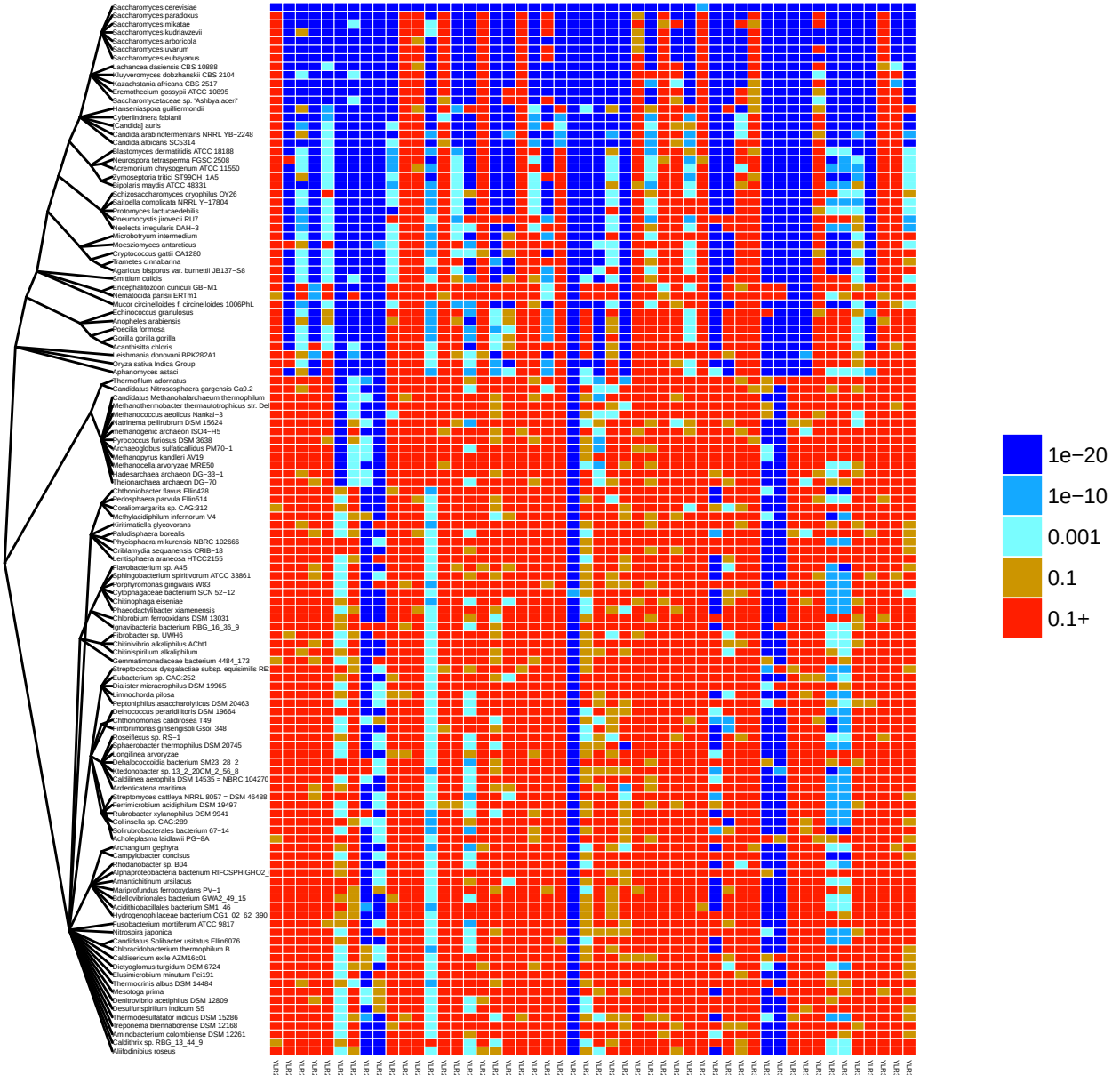

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

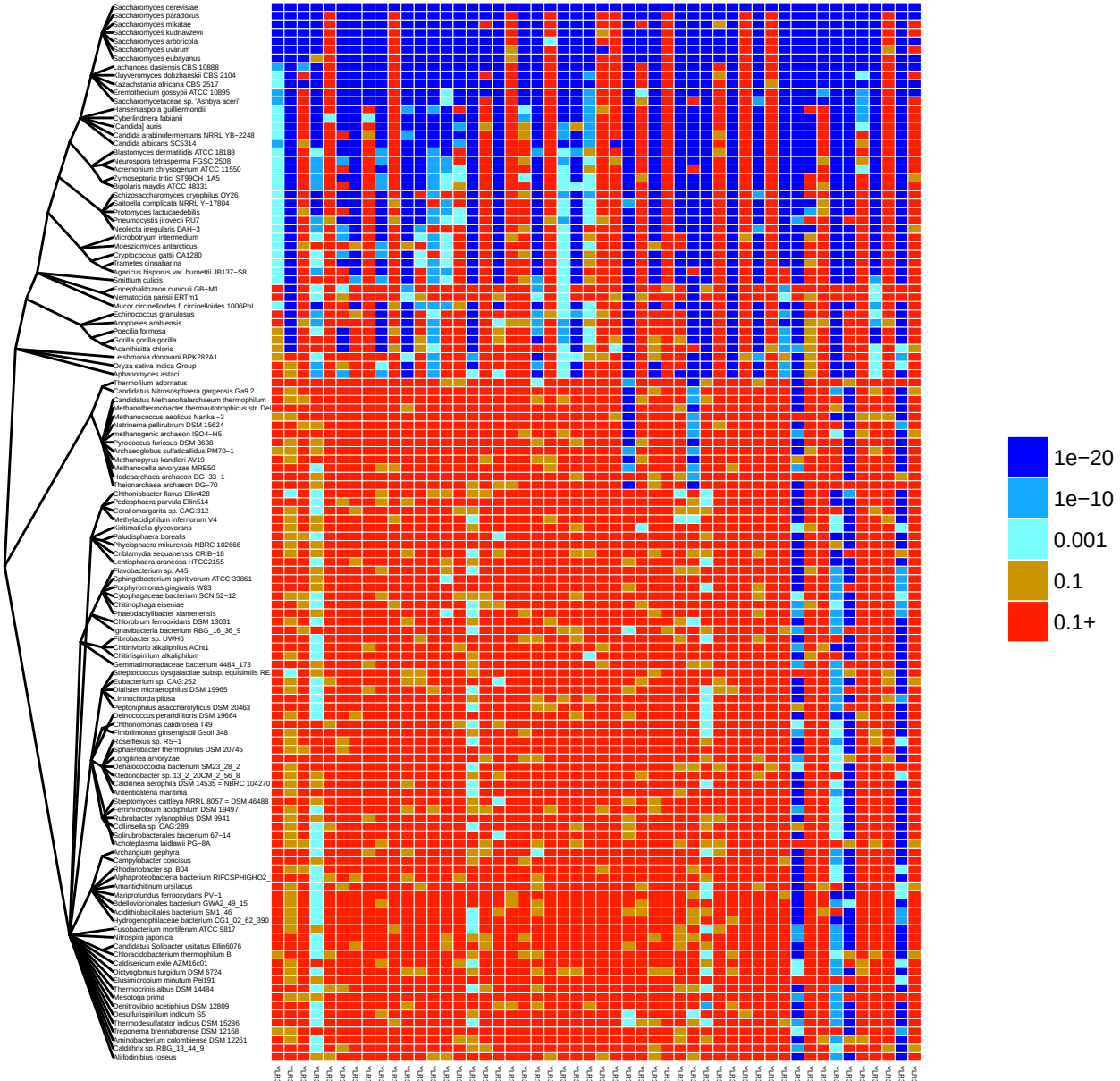

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribllamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

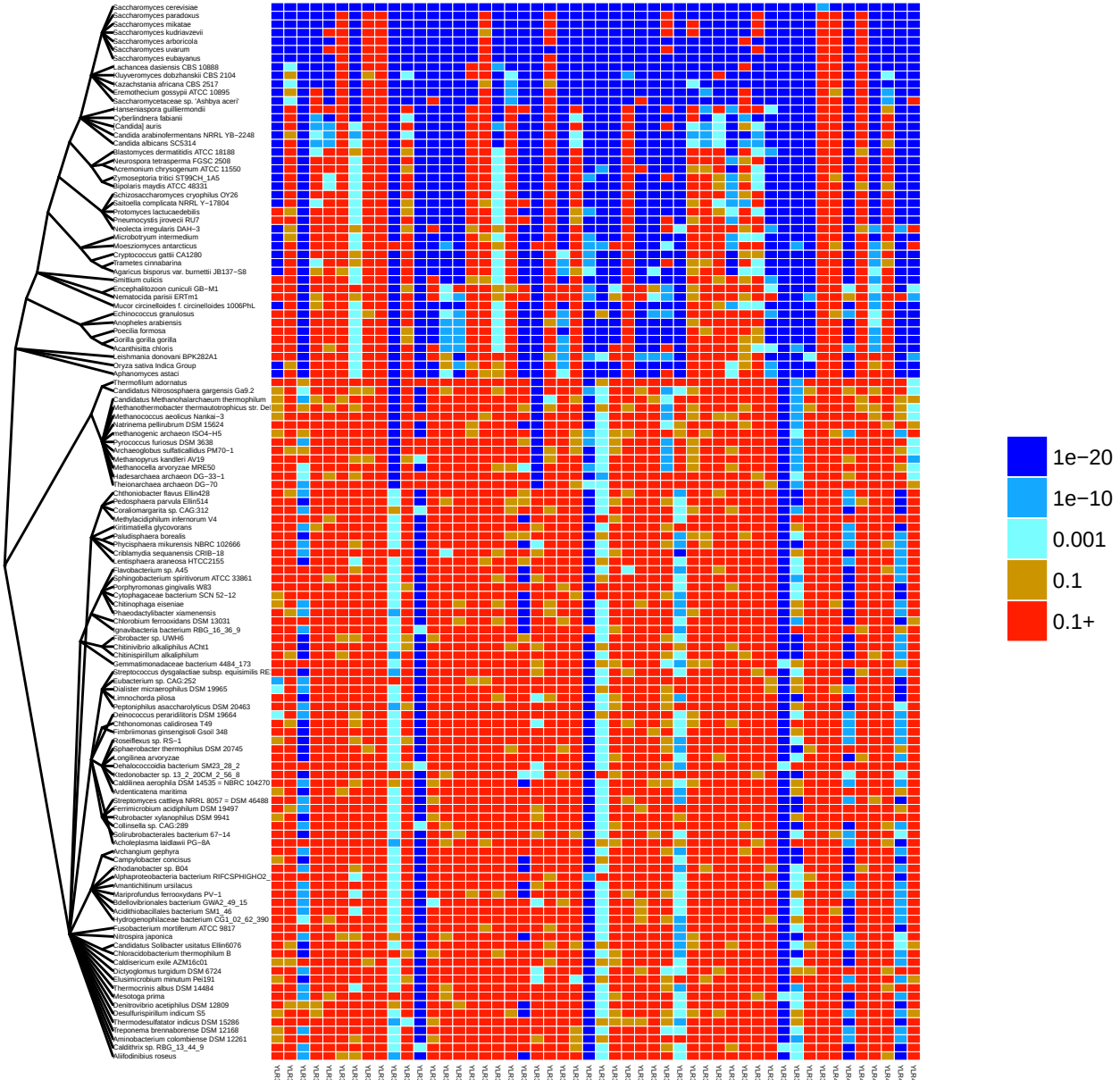

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
YLR148W
YLR148C
YLR148W
YLR148C
YLR148W-A
YLR147C
YLR148W
YLR148C
YLR150W
YLR151C
YLR152C
YLR153C
YLR154C
YLR154C-G
YLR154C-H
YLR154W-A
YLR154W-B
YLR154W-C
YLR154W-E
YLR154W-F
YLR155C
YLR156C
YLR156W
YLR157C
YLR157C-A
YLR157C-B
YLR157C-C
YLR157W-D
YLR157W-E
YLR158C
YLR159C-A
YLR159W
YLR160C
YLR161W
YLR162W
YLR162W-A
YLR163C
YLR163W-A
YLR164W
YLR165C
YLR166C
YLR167W
YLR168W
YLR169C
YLR170C
YLR171W
YLR172C
YLR173W
YLR174W
1e−20
1e−10
0.001
0.1
0.1+

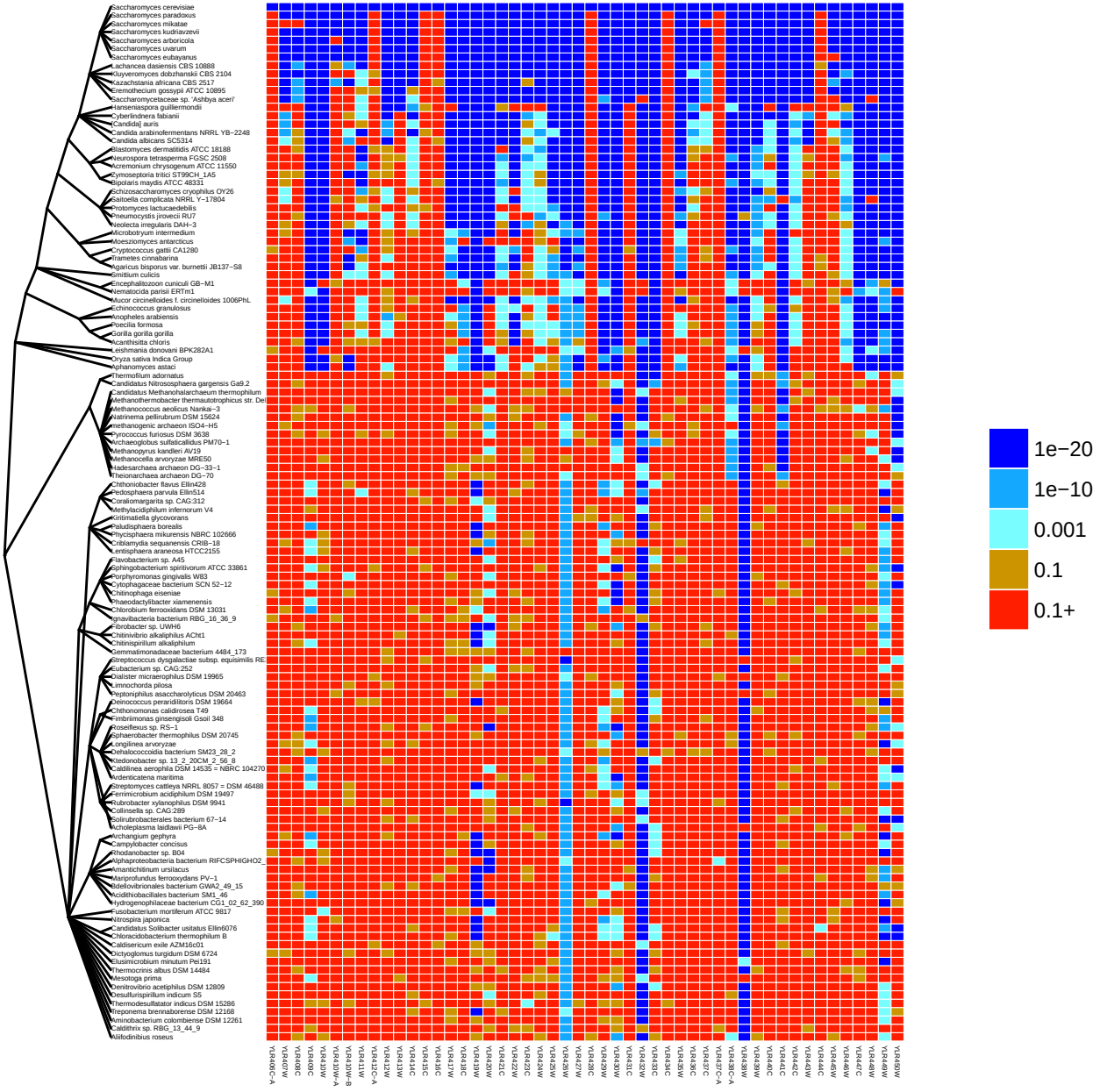

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancibinibius roseus
YAR187W
YAR187C
YAR187V
YAR187A
YAR187C
YAR187W
YAR188C
YAR188W
YAR188C
YAR188W
YAR188W
YAR188V
YAR189W
YAR189C
YAR189W
YAR189V
YAR189A
YAR189C
YAR189C
YAR189V
YAR189W
YAR189W
YAR189C
YAR189C
YAR189W
YAR190W
YAR190C
YAR190C
YAR190C
YAR190W
YAR190W
YAR190C
YAR190W
YAR190W
YAR190C
YAR190C
YAR190W
YAR191C
YAR191C
YAR191C
YAR191W
YAR191W
YAR191C
YAR192W
YAR192W
YAR192C
YAR192C
YAR192C
YAR192C-A
YAR192C
1e−20
1e−10
0.001
0.1
0.1+

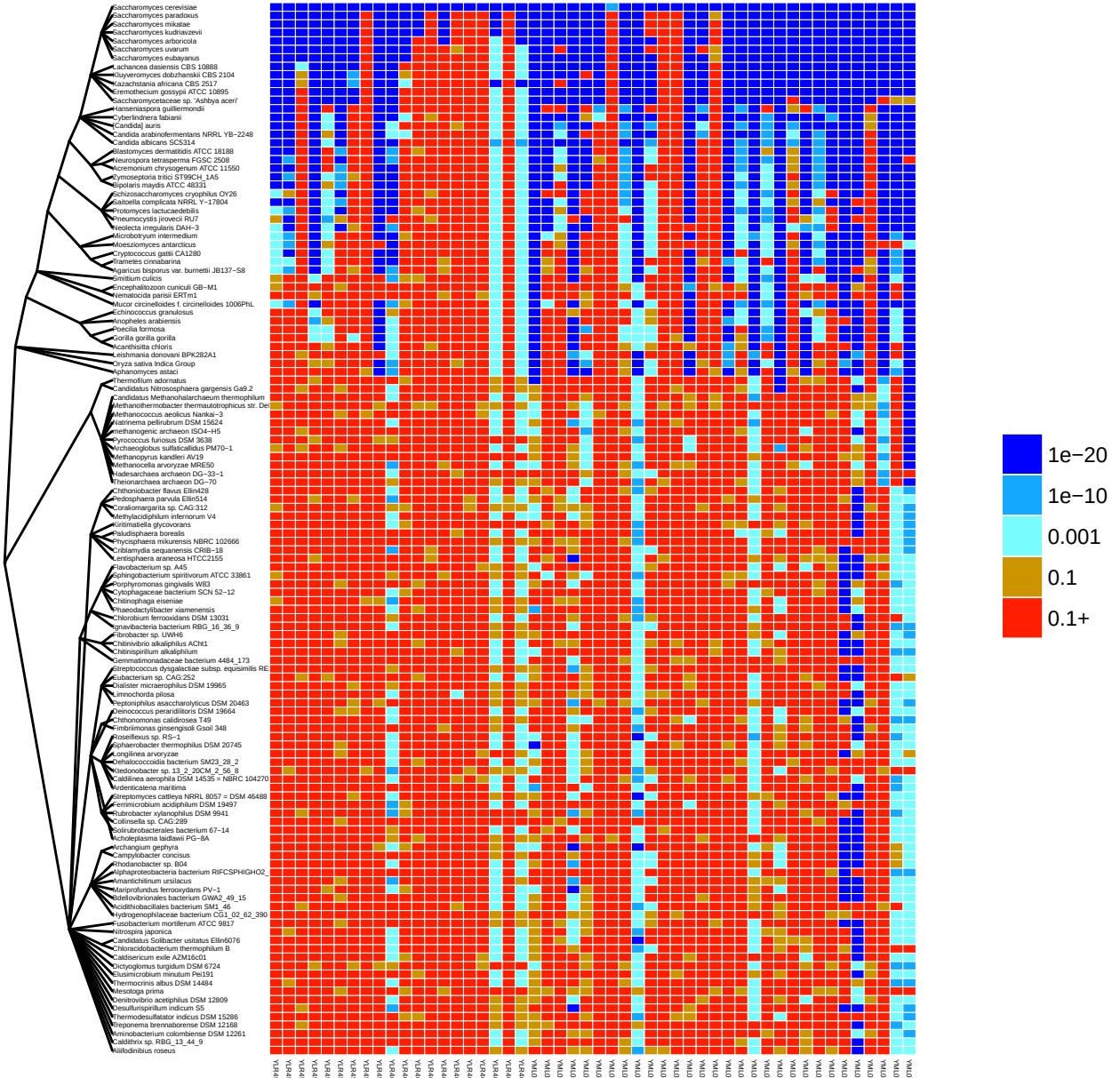

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
YJ8238W
YJ8238C
YJ8238W
YJ8237C
YJ8237W−A
YJ8237W−B
YJ8238C
YJ8238W
YJ8231C
YJ8238C
YJ8238W
YJ8238C
YJ8237W
YJ8237W
YJ8238W
YJ8238C
YJ8238W
YJ8242W
YJ8242C
YJ8242W
YJ8242C
YJ8242W
YJ8242C
YJ8242W
YJ8242C
YJ8242W
YJ8242W
YJ8253W
YJ8253W
YJ8254C
YJ8255C
YJ8256W
YJ8256W−A
YJ8257W
YJ8258W
YJ8259C
YJ8260W
YJ8261C
YJ8262C
YJ8262C−A
YJ8263W
YJ8264W
YJ8265C
YJ8266C
YJ8267W
YJ8268W
1e−20
1e−10
0.001
0.1
0.1+

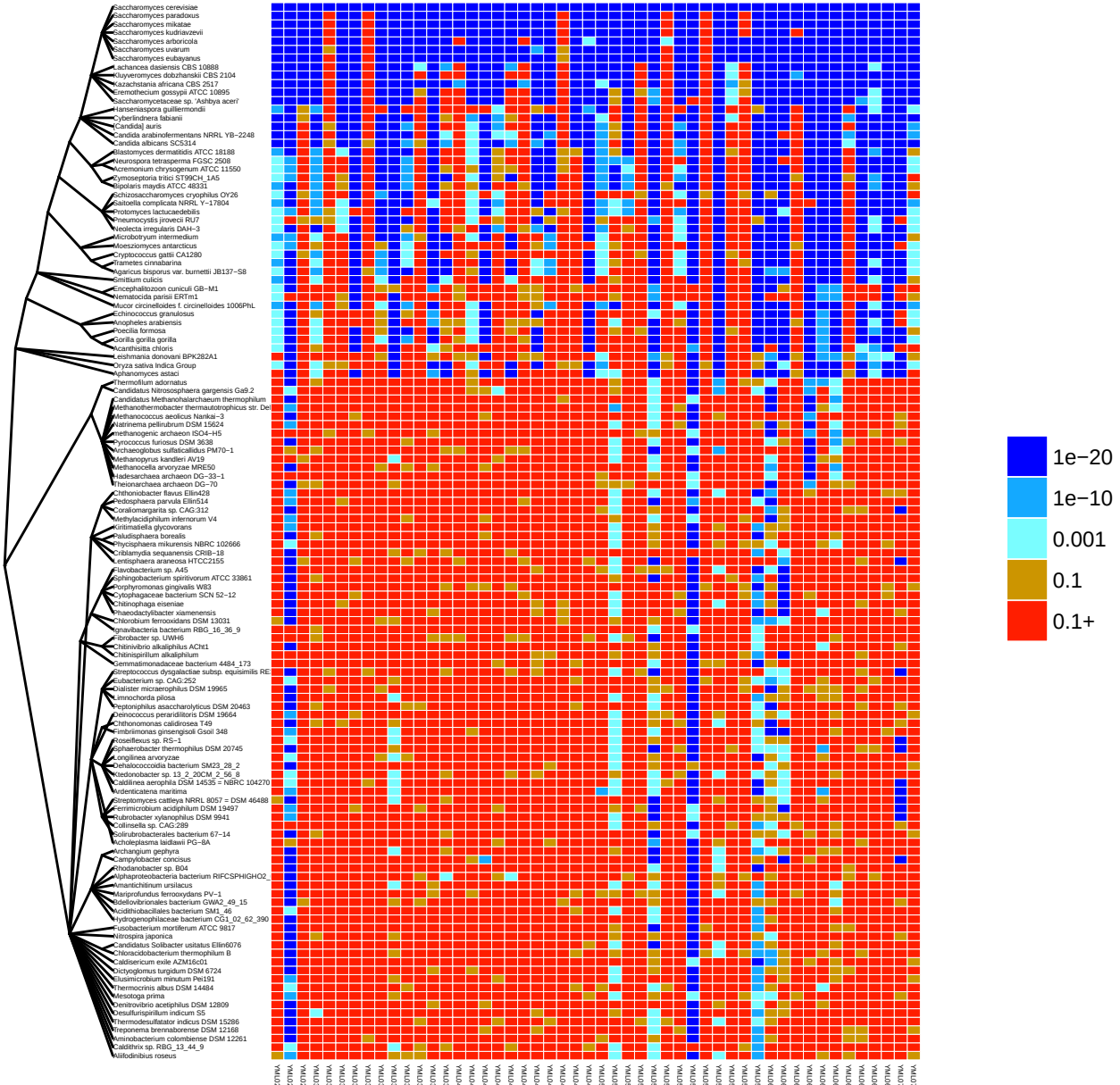

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus
1e−20
1e−10
0.001
0.1
0.1+

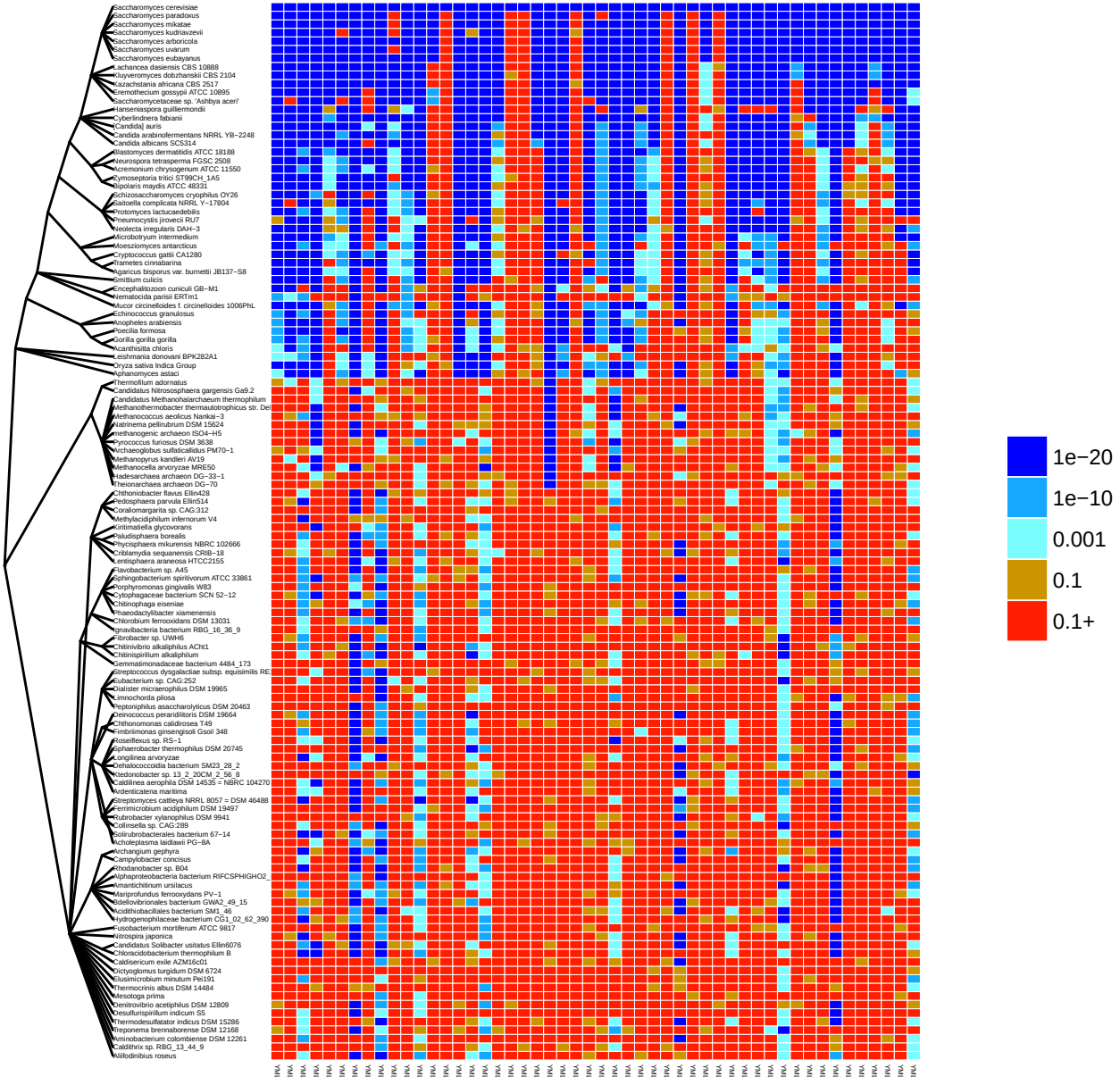

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
YA2323C
YA2324C
YA2324W
YA2324W
YA2324W
YA2324W
YA2325C
YA2325C
YA2325C

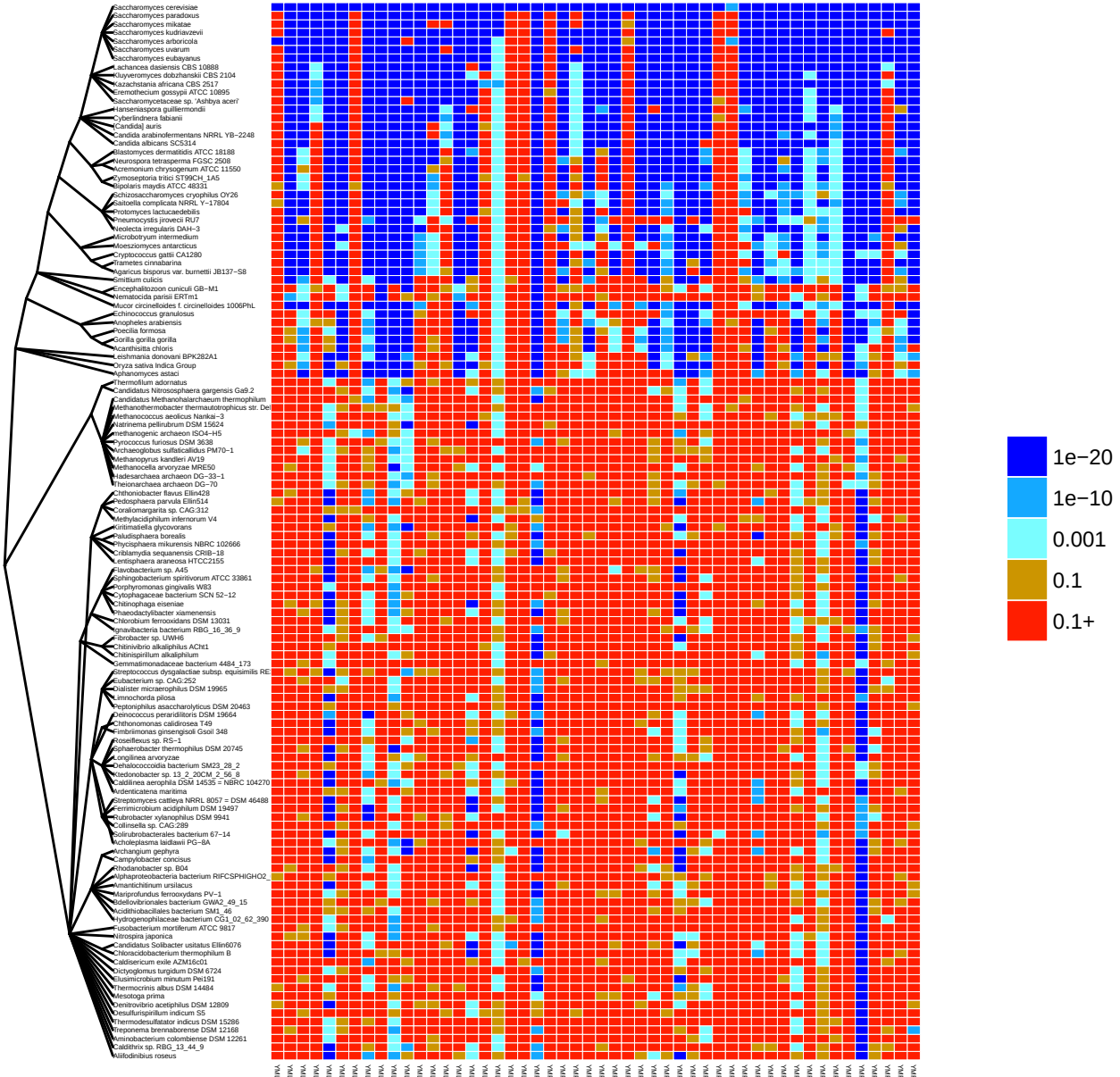

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ignifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

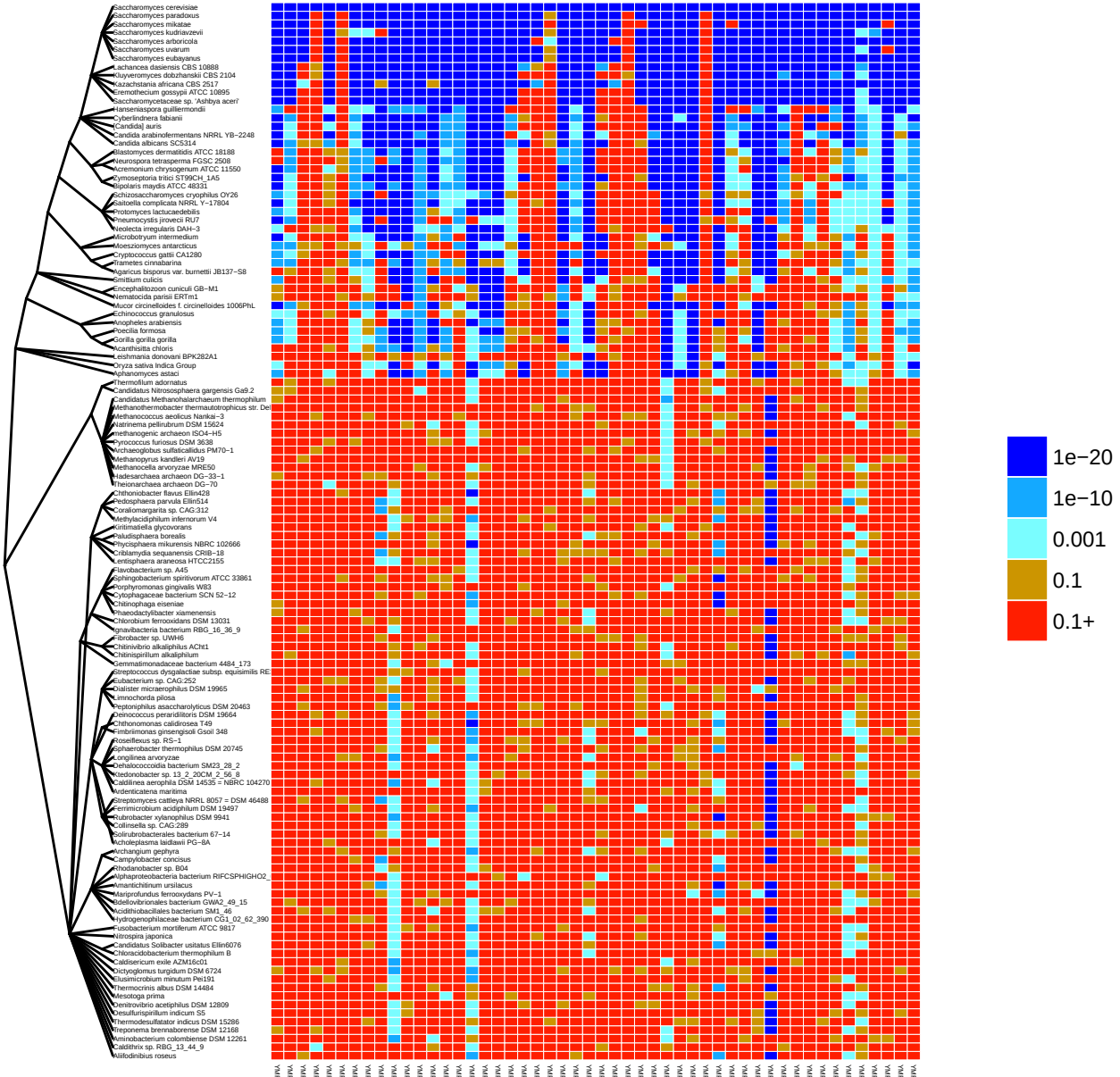

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus RBG_13_44_9
Niiifodinibius roseus
YLR406C−A
YLR407W
YLR409C
YLR409C
YLR410W
YLR410W−A
YLR411W
YLR412C−A
YLR412W
YLR413W
YLR414C
YLR415C
YLR417W
YLR418C
YLR419W
YLR420W
YLR421C
YLR422W
YLR423C
YLR424W
YLR425W
YLR427W
YLR428C
YLR429W
YLR430W
YLR431C
YLR432W
YLR433C
YLR433C
YLR434W
YLR436C
YLR437C
YLR437C−A
YLR438C−A
YLR439W
YLR439W
YLR440C
YLR441C
YLR442C
YLR444W
YLR444C
YLR446W
YLR447C
YLR448W
YLR449W
1e−20
1e−10
0.001
0.1
0.1+

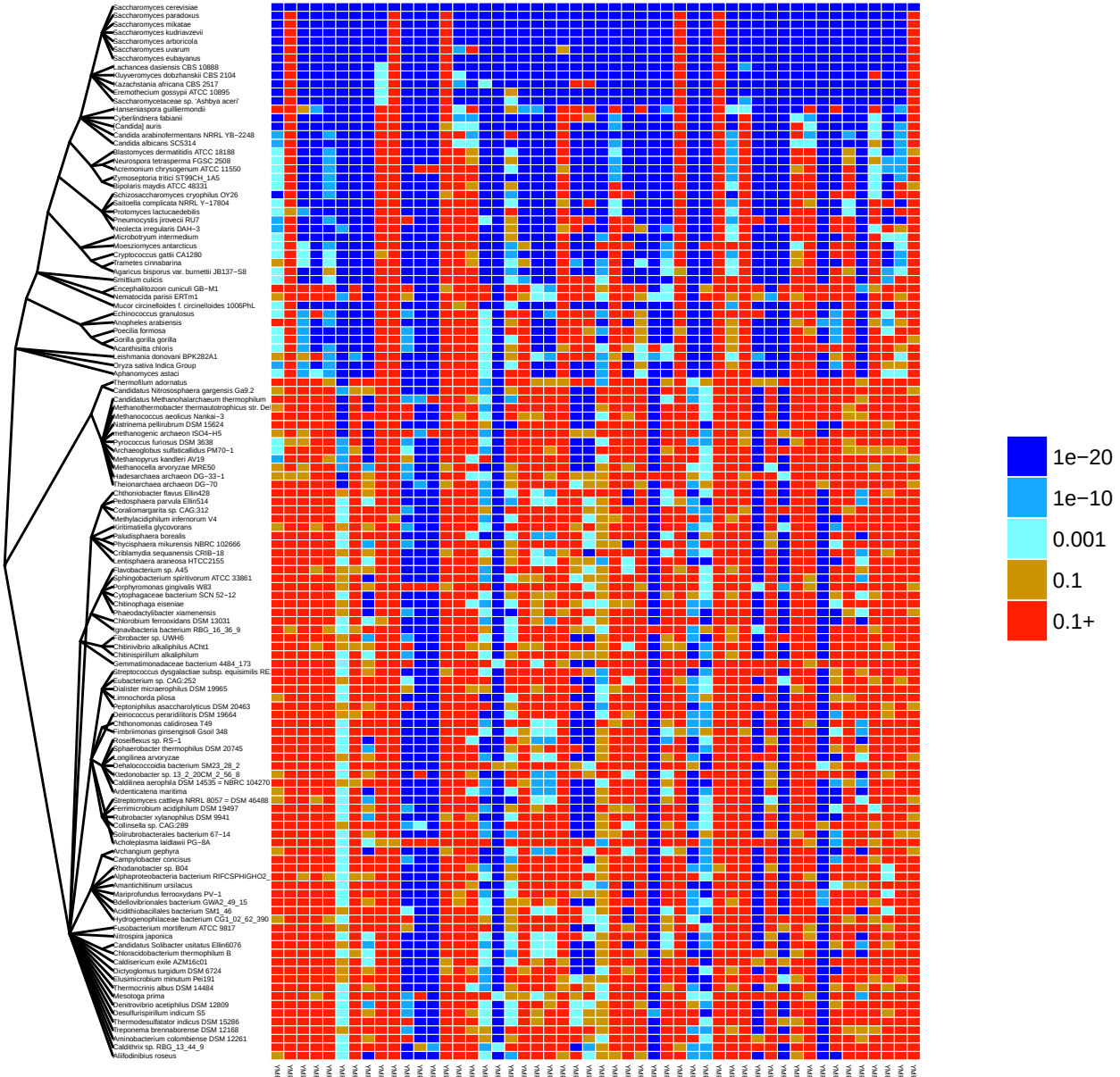

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Ilyobacter polytropus DSM 2926
Ilyobacter polytropus DSM 2926 −A
Ilyobacter polytropus DSM 2926 −B
Ilyobacter polytropus DSM 2926 −C
Ilyobacter polytropus DSM 2926 −D
Ilyobacter polytropus DSM 2926 −E
Ilyobacter polytropus DSM 2926 −F
Ilyobacter polytropus DSM 2926 −G
Ilyobacter polytropus DSM 2926 −H
Ilyobacter polytropus DSM 2926 −I
Ilyobacter polytropus DSM 2926 −J
Ilyobacter polytropus DSM 2926 −K
Ilyobacter polytropus DSM 2926 −L
Ilyobacter polytropus DSM 2926 −M
Ilyobacter polytropus DSM 2926 −N
Ilyobacter polytropus DSM 2926 −O
Ilyobacter polytropus DSM 2926 −P
Ilyobacter polytropus DSM 2926 −Q
Ilyobacter polytropus DSM 2926 −R
Ilyobacter polytropus DSM 2926 −S
Ilyobacter polytropus DSM 2926 −T
Ilyobacter polytropus DSM 2926 −U
Ilyobacter polytropus DSM 2926 −V
Ilyobacter polytropus DSM 2926 −W
Ilyobacter polytropus DSM 2926 −X
Ilyobacter polytropus DSM 2926 −Y
Ilyobacter polytropus DSM 2926 −Z
Ilyobacter polytropus DSM 2926 −AA
Ilyobacter polytropus DSM 2926 −AB
Ilyobacter polytropus DSM 2926 −AC
Ilyobacter polytropus DSM 2926 −AD
Ilyobacter polytropus DSM 2926 −AE
Ilyobacter polytropus DSM 2926 −AF
Ilyobacter polytropus DSM 2926 −AG
Ilyobacter polytropus DSM 2926 −AH
Ilyobacter polytropus DSM 2926 −AI
Ilyobacter polytropus DSM 2926 −AJ
Ilyobacter polytropus DSM 2926 −AK
Ilyobacter polytropus DSM 2926 −AL
Ilyobacter polytropus DSM 2926 −AM
Ilyobacter polytropus DSM 2926 −AN
Ilyobacter polytropus DSM 2926 −AO
Ilyobacter polytropus DSM 2926 −AP
Ilyobacter polytropus DSM 2926 −AQ
Ilyobacter polytropus DSM 2926 −AR
Ilyobacter polytropus DSM 2926 −AS
Ilyobacter polytropus DSM 2926 −AT
Ilyobacter polytropus DSM 2926 −AU
Ilyobacter polytropus DSM 2926 −AV
Ilyobacter polytropus DSM 2926 −AW
Ilyobacter polytropus DSM 2926 −AX
1e−20
1e−10
0.001
0.1
0.1+

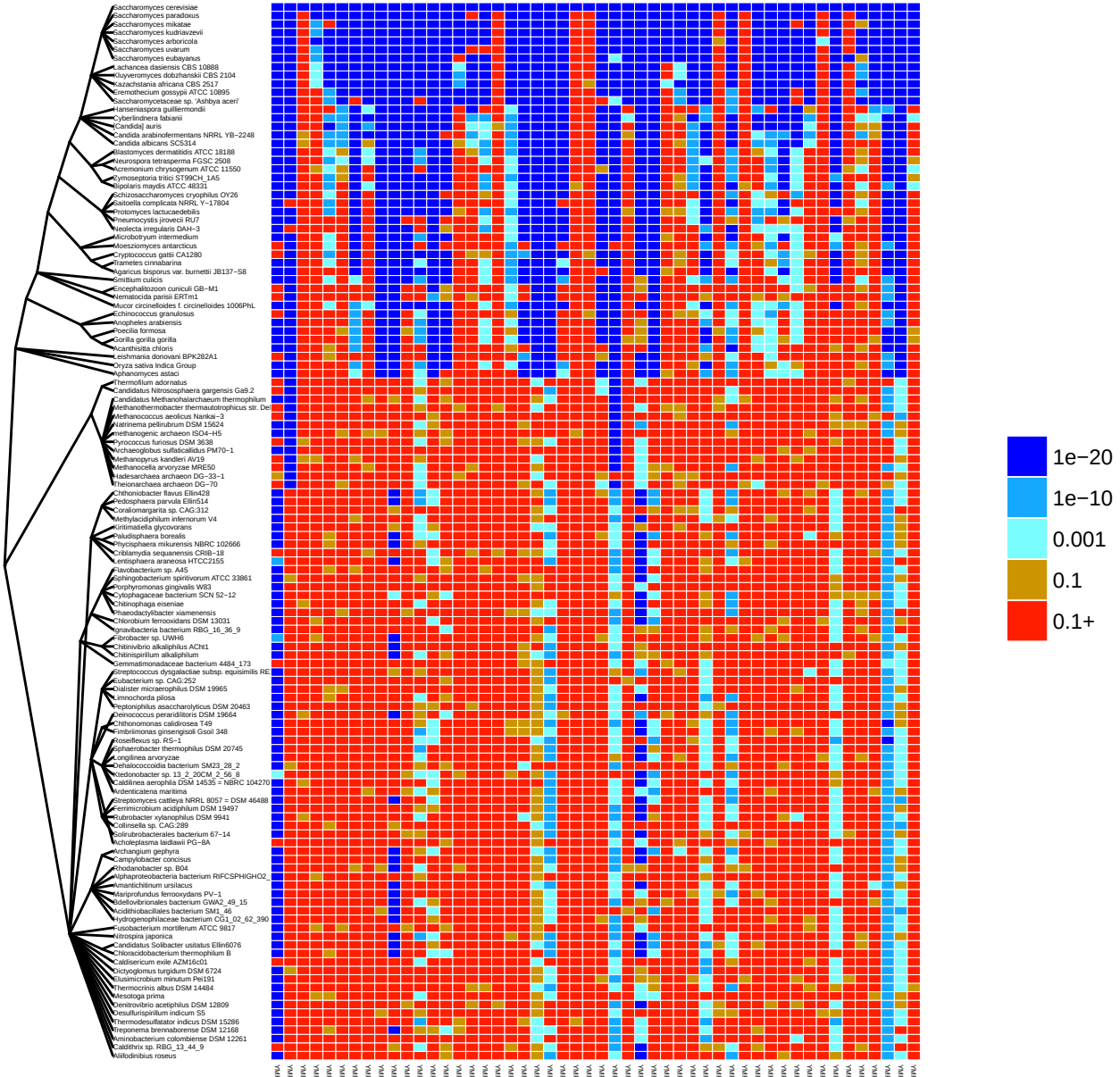

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilaginoidea virens
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Thermoarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus cobalami
Nitrosopumilus maritimus SCM1
Nitrosopumilus sp. AR
Nitrosopumilus sp. K
Nitrosopumilus sp. U
Nitrosopumilus sp. T
Nitrosopumilus sp. S
Nitrosopumilus sp. Z
Nitrosopumilus sp. Y
Nitrosopumilus sp. AD1
Nitrosopumilus sp. AD2
Nitrosopumilus sp. AD3
Nitrosopumilus sp. AD4
Nitrosopumilus sp. AD5
Nitrosopumilus sp. AD6
Nitrosopumilus sp. AD7
Nitrosopumilus sp. AD8
Nitrosopumilus sp. AD9
Nitrosopumilus sp. AD10
Nitrosopumilus sp. AD11
Nitrosopumilus sp. AD12
Nitrosopumilus sp. AD13
Nitrosopumilus sp. AD14
Nitrosopumilus sp. AD15
Nitrosopumilus sp. AD16
Nitrosopumilus sp. AD17
Nitrosopumilus sp. AD18
Nitrosopumilus sp. AD19
Nitrosopumilus sp. AD20
Nitrosopumilus sp. AD21
Nitrosopumilus sp. AD22
Nitrosopumilus sp. AD23
Nitrosopumilus sp. AD24
Nitrosopumilus sp. AD25
Nitrosopumilus sp. AD26
Nitrosopumilus sp. AD27
Nitrosopumilus sp. AD28
Nitrosopumilus sp. AD29
Nitrosopumilus sp. AD30
Nitrosopumilus sp. AD31
Nitrosopumilus sp. AD32
Nitrosopumilus sp. AD33
Nitrosopumilus sp. AD34
Nitrosopumilus sp. AD35
Nitrosopumilus sp. AD36
Nitrosopumilus sp. AD37
Nitrosopumilus sp. AD38
Nitrosopumilus sp. AD39
Nitrosopumilus sp. AD40
Nitrosopumilus sp. AD41
Nitrosopumilus sp. AD42
Nitrosopumilus sp. AD43
Nitrosopumilus sp. AD44
Nitrosopumilus sp. AD45
Nitrosopumilus sp. AD46
Nitrosopumilus sp. AD47
Nitrosopumilus sp. AD48
Nitrosopumilus sp. AD49
Nitrosopumilus sp. AD50
Nitrosopumilus sp. AD51
Nitrosopumilus sp. AD52
Nitrosopumilus sp. AD53
Nitrosopumilus sp. AD54
Nitrosopumilus sp. AD55
Nitrosopumilus sp. AD56
Nitrosopumilus sp. AD57
Nitrosopumilus sp. AD58
Nitrosopumilus sp. AD59
Nitrosopumilus sp. AD60
Nitrosopumilus sp. AD61
Nitrosopumilus sp. AD62
Nitrosopumilus sp. AD63
Nitrosopumilus sp. AD64
Nitrosopumilus sp. AD65
Nitrosopumilus sp. AD66
Nitrosopumilus sp. AD67
Nitrosopumilus sp. AD68
Nitrosopumilus sp. AD69
Nitrosopumilus sp. AD70
Nitrosopumilus sp. AD71
Nitrosopumilus sp. AD72
1e−20
1e−10
0.001
0.1
0.1+

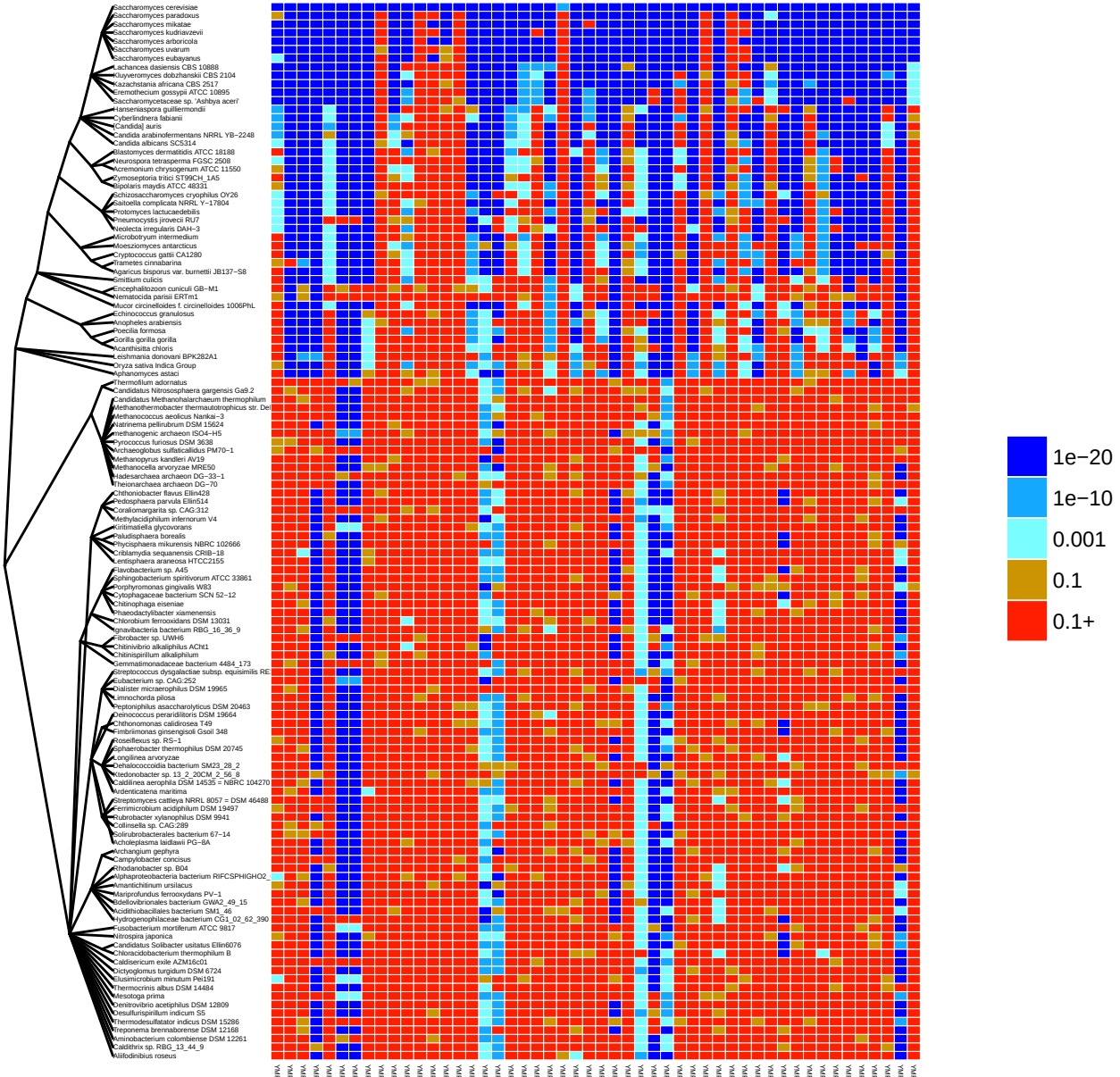

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YAL017C
YAL018C
YAL019C
YAL020C
YAL021C
YAL022C
YAL023C
YAL024C
YAL025C
YAL026W
YAL027W
YAL028W
YAL029C
YAL030W
YAL031C
YAL032W
YAL033W
YAL034W
YAL035C−A
YAL036C
YAL037W
YAL038W
YAL039C
YAL040C
YAL041W
YAL042W
YAL043C
YAL044C
YAL045W
YAL046C
YAL047C
YAL048C
YAL049C
YAL050C
YAL051W
YAL052W
YAL053W
YAL054C
YAL055C
YAL056W
YAL057C
YAL058W
YAL059W
YAL060W
YAL061W
YAL062W
1e−20
1e−10
0.001
0.1
0.1+

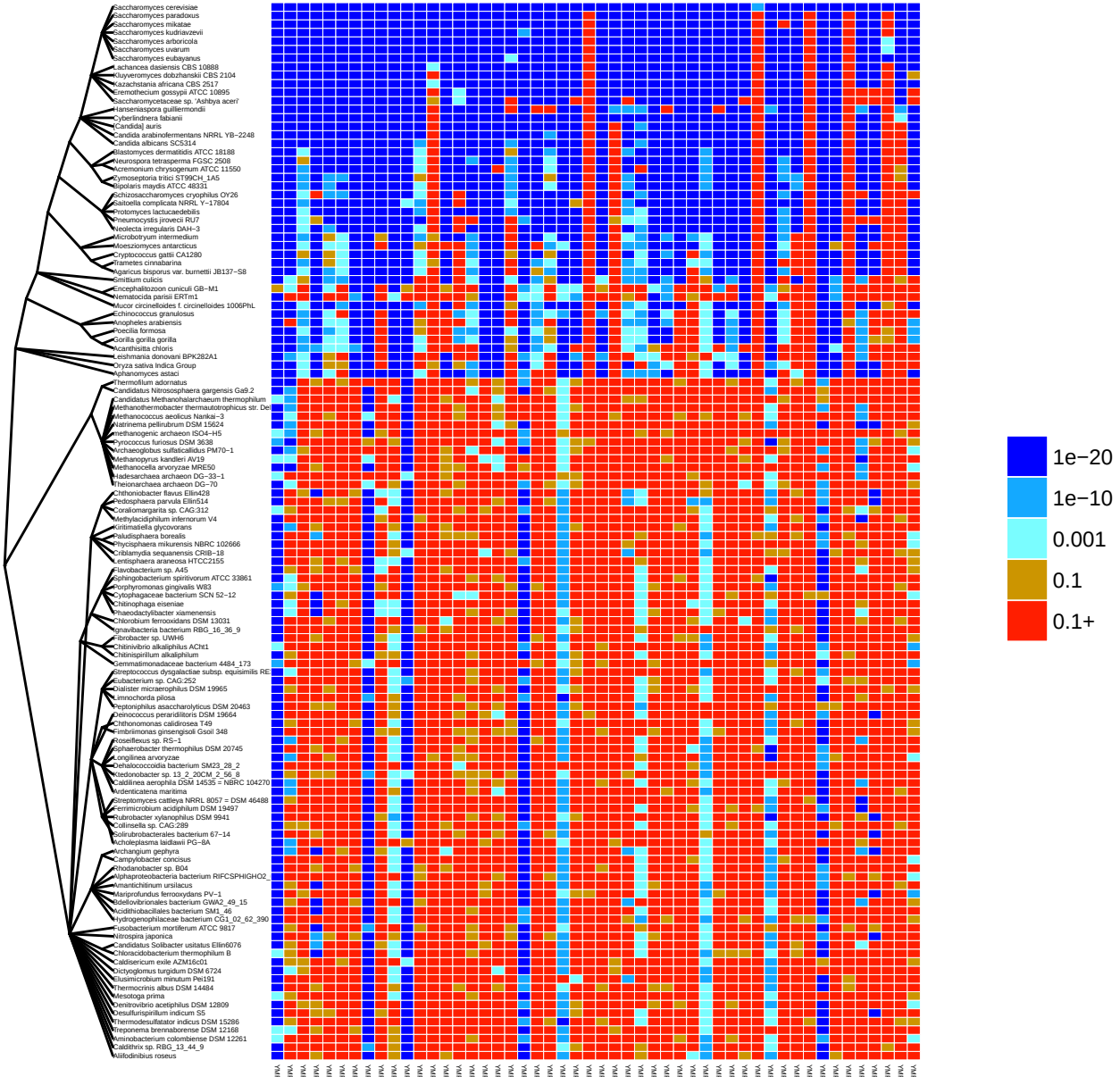

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

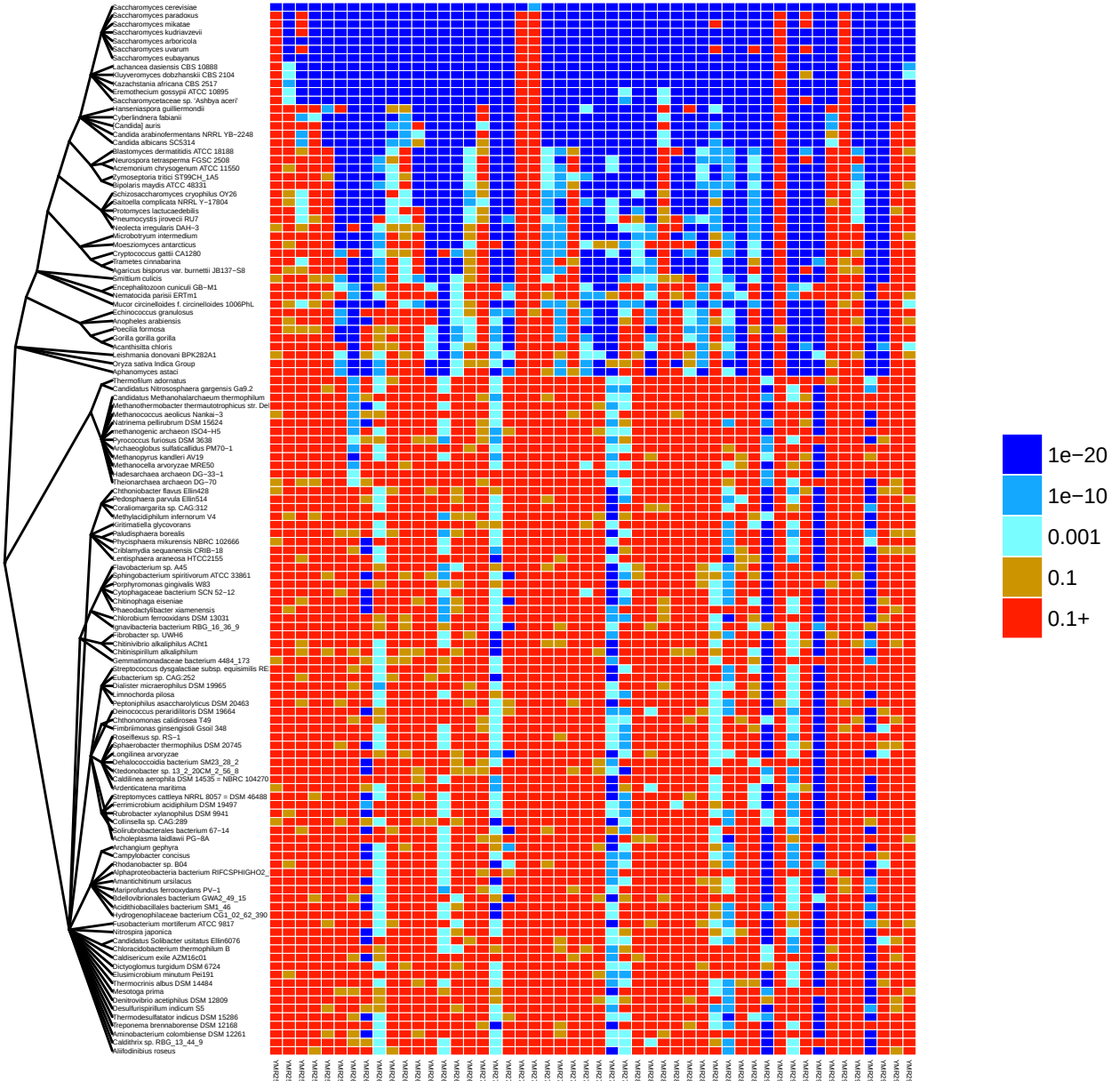

1e−20
1e−10
0.001
0.1
0.1+

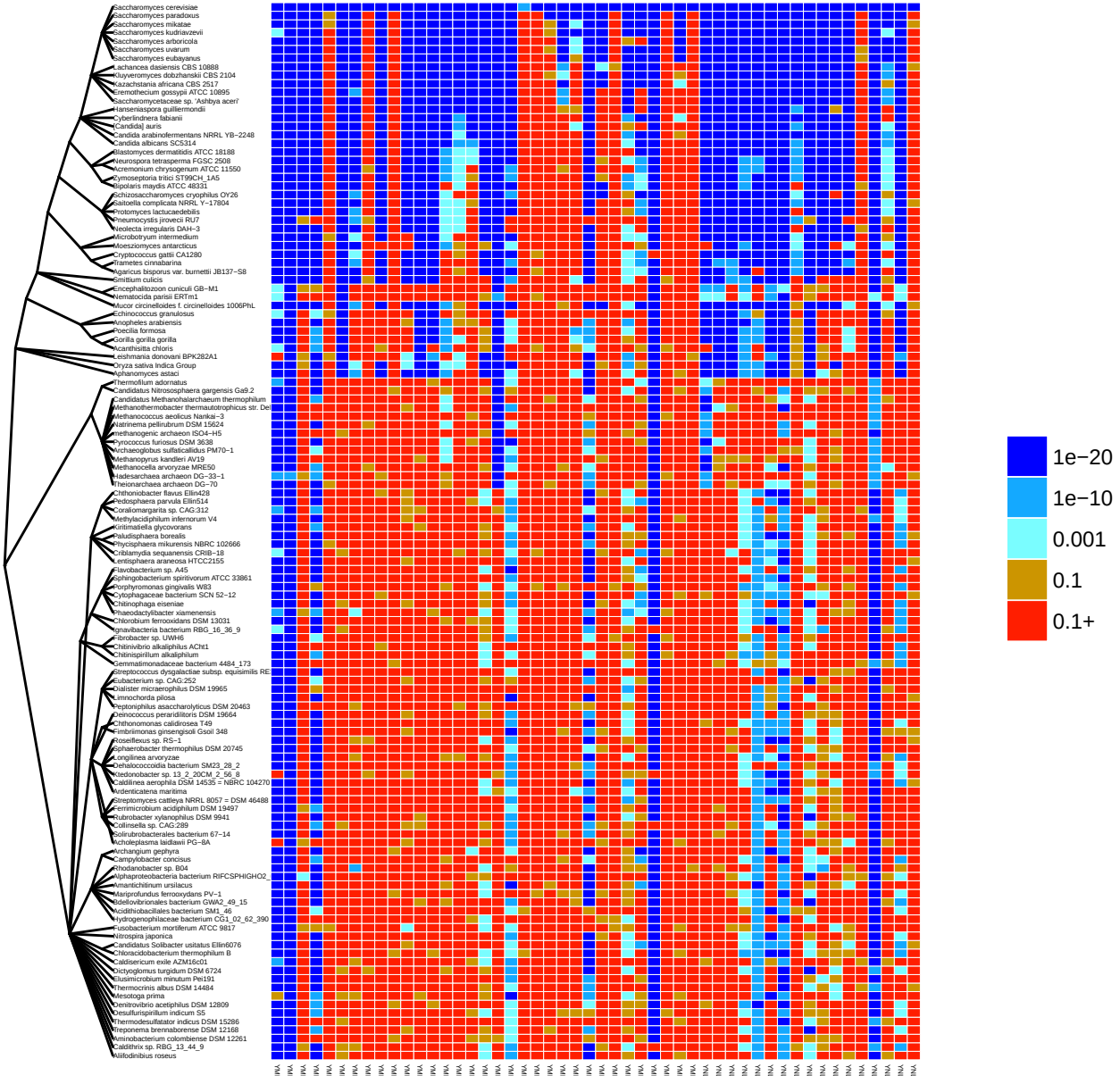

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosopumilus maritimus SCM1
1e−20
1e−10
0.001
0.1
0.1+

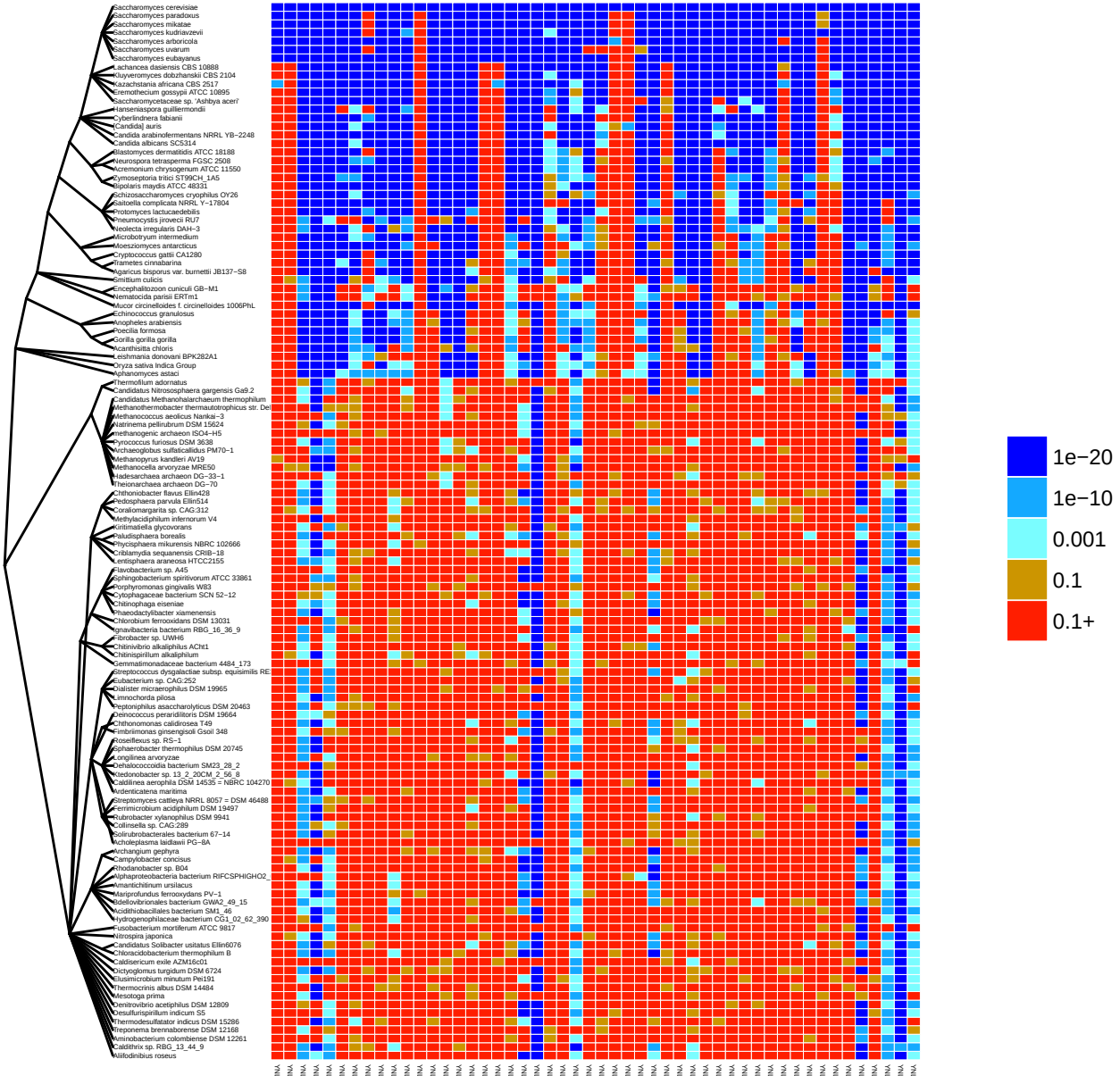

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia globosa
Malassezia restricta
Ustilago maydis
Cryptococcus neoformans var. grubii
Cryptococcus gattii
Cryptococcus deuterogattii
Cryptococcus neoformans var. neoformans
Cryptococcus neoformans var. neoformans
Cryptococcus neoformans var. neoformans

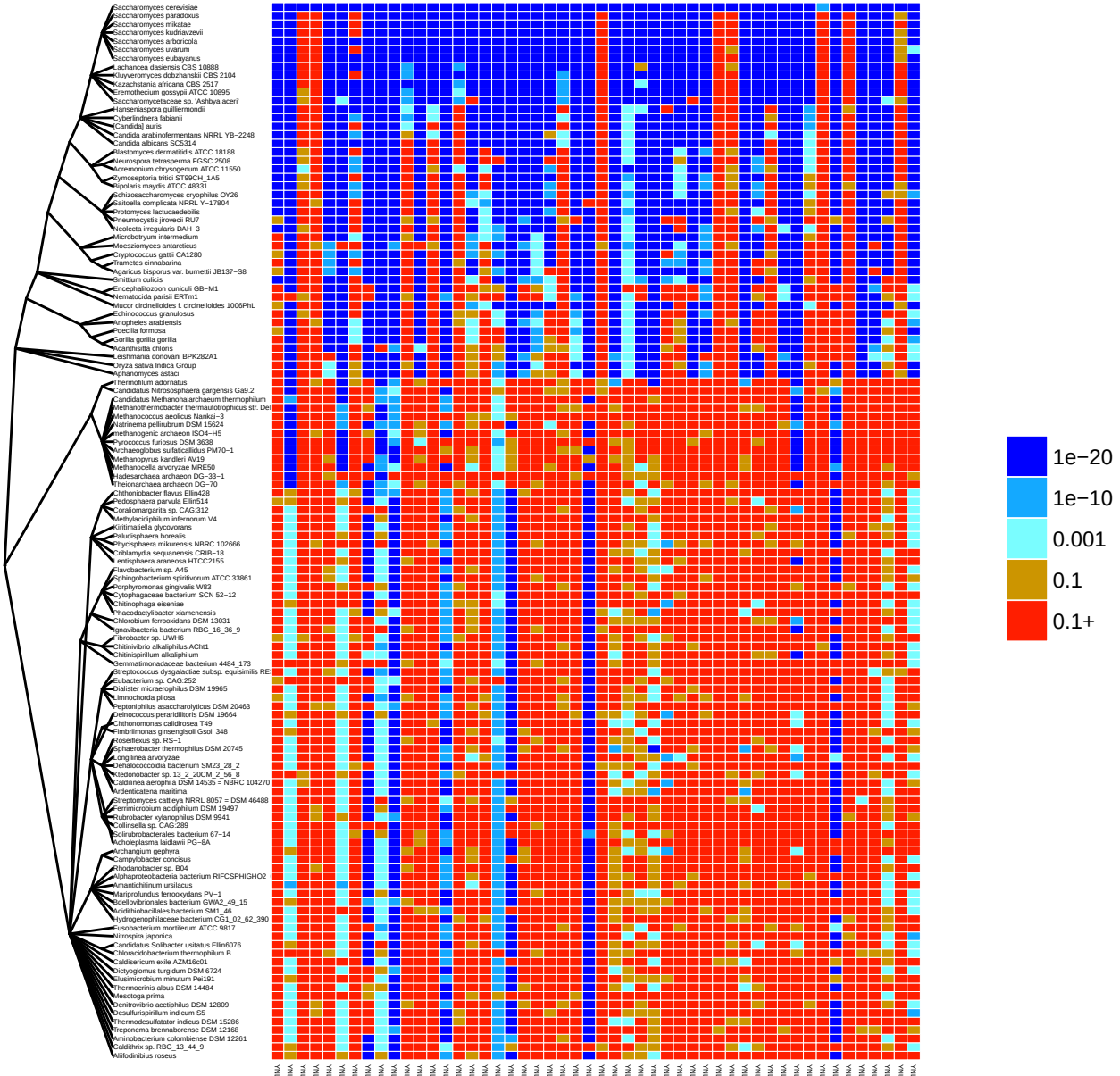

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonio bacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
YAR18AC
YAR18GC
YAR18GC
YAR18AV
YAR18GC
YAR18GC
YAR12C
YAR12C
YAR12C−A
YAR12AV
YAR12AV−A
YAR12C
YAR12SW
YAR12SW−A
YAR12SW
YAR12AV
YAR12SW
YAR12SW
YAR12C
YAR12GC
YAR12GC
YAR12GC
YAR12GC
YAR12GC
YAR12GC
YAR12GC−A
YAR12AW
YAR12AW
YAR12AW
YAR12AW
YAR12C
YAR12GC
YAR12GW
YAR12GC
YAR12GC
YAR12AW
YAR12AV
YAR12SW
YAR12SW−A
YAR12SW−A
YAR12SW−B
YAR12AW
YAR12SW
YAR12SW
YAR12C
YAR12GW
YAR12GW
YAR12GW
YAR12GW
YAR12GW
YAR12GW
YAR12GC
YAR12GC
YAR12GW
1e−20
1e−10
0.001
0.1
0.1+

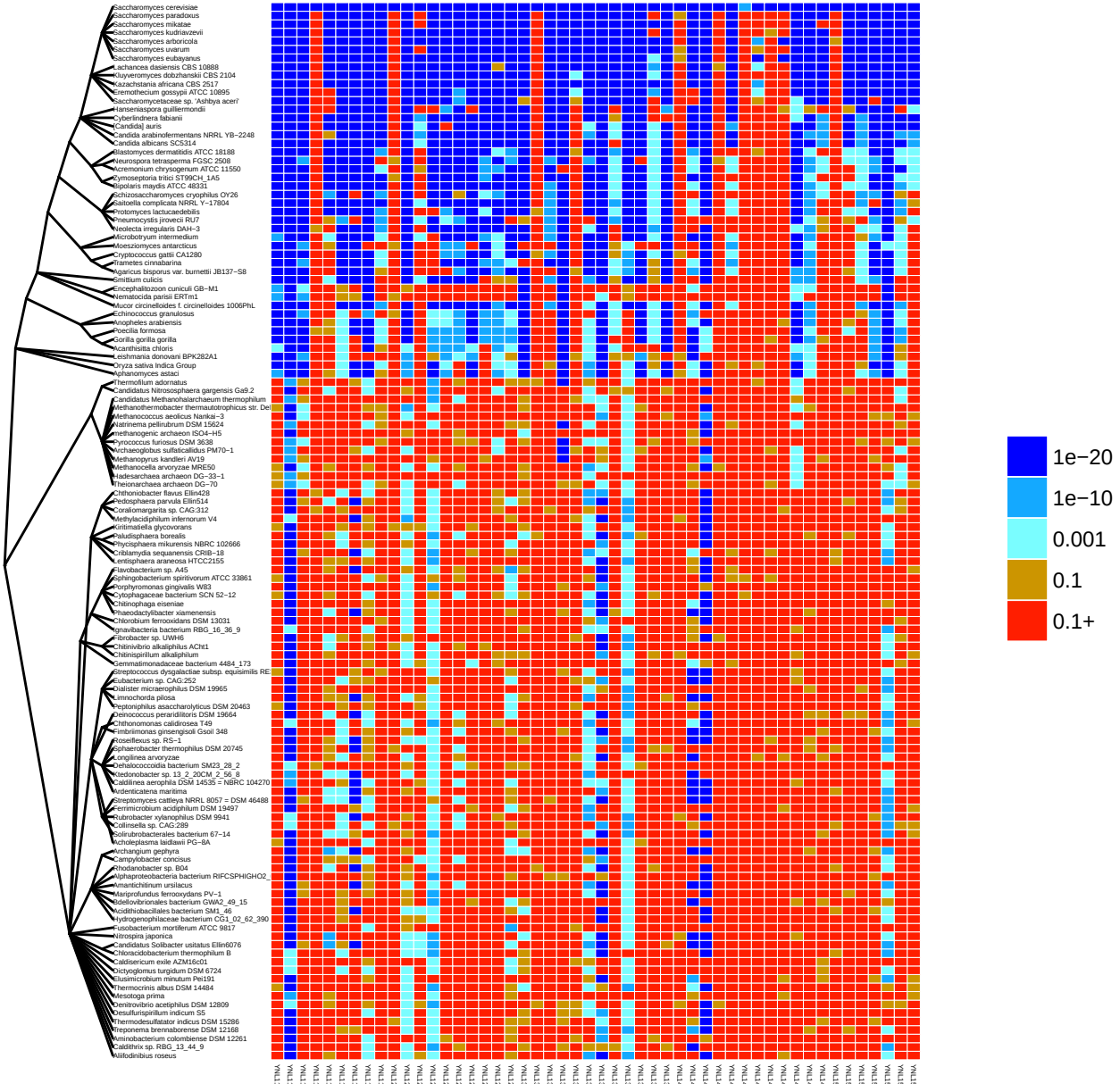

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

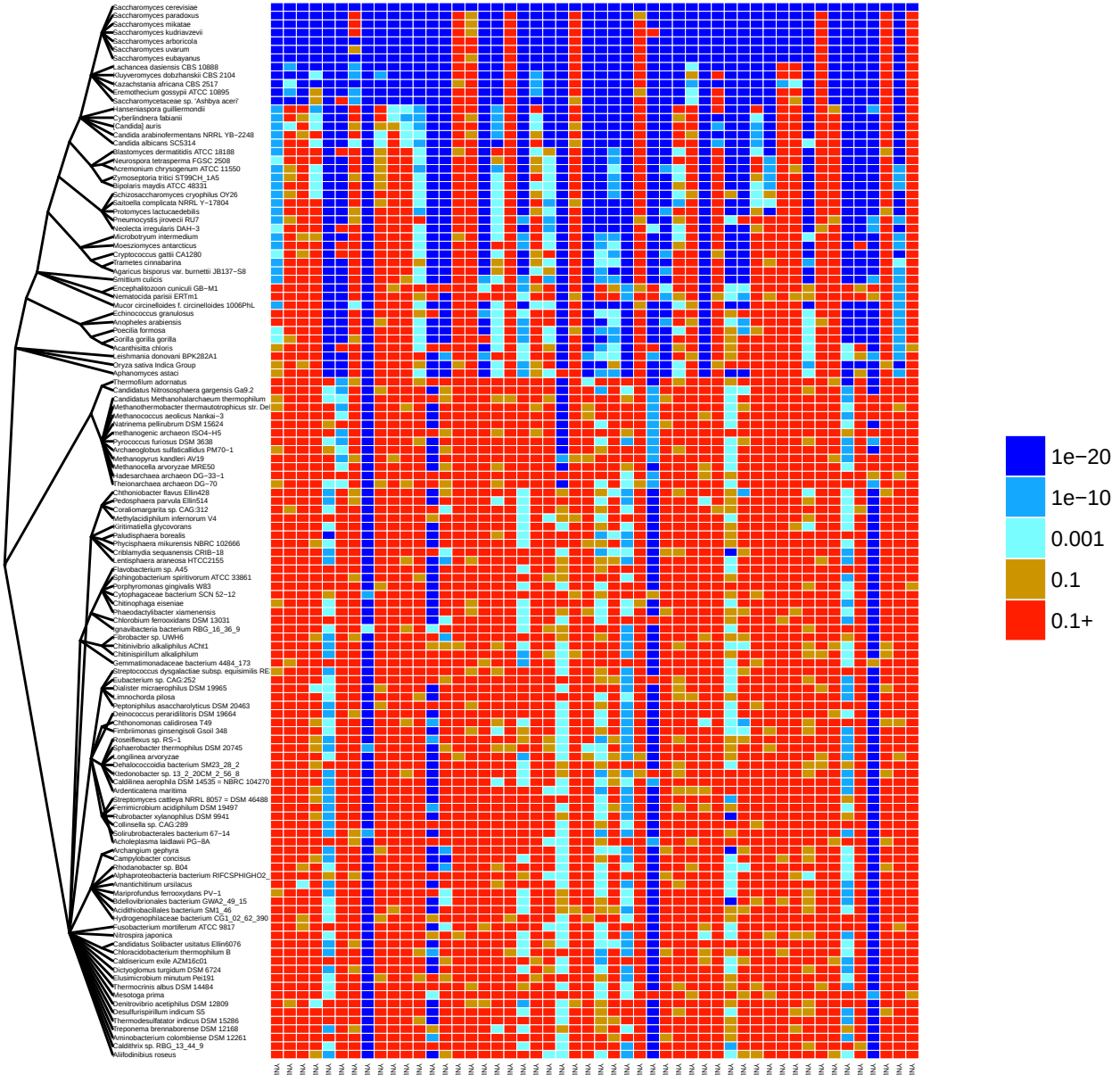

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

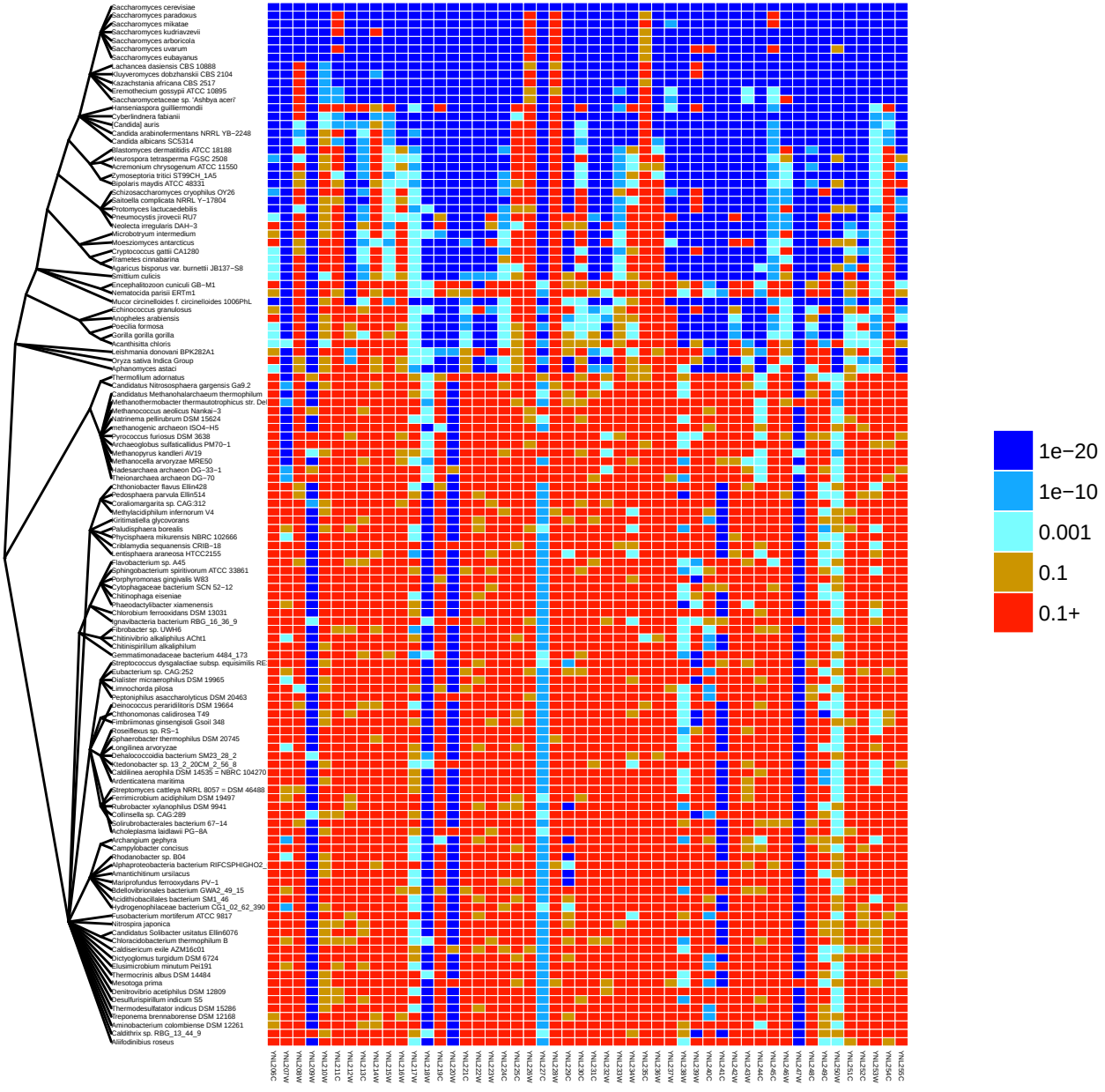

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
YMR280C
YDR080C
YCR028C
YCR028C-A
YMR290C
YGR060W
YGR060W-A
YMR290C-A
YMR280W
YDR080W
YMR280C-A
YMR280C
YDR080C
YCR028C
YDR081C
YMR281W
YDR081W
YMR281C
YMR281W
YMR281C-A
YMR281C
YMR281W-A
YMR281W-B
YMR281C-B
YMR281W
YMR281C-C
YMR281C-D
YMR281C-E
YMR281C-F
YMR281C-G
YMR281C-H
YMR281C-I
YMR281C-J
YMR281C-K
YMR281C-L
YMR281C-M
YMR281C-N
YMR281C-O
YMR281C-P
YMR281C-Q
YMR281C-R
YMR281C-S
YMR281C-T
YMR281C-U
YMR281C-V
YMR281C-W
YMR281C-X
YMR281C-Y
YMR281C-Z
YLR010W
YLR010C
YLR009W
YLR009C
YLR008C
YLR008W
YLR007W
YLR007C
YLR006C
YLR006W
YLR005W
YLR005C
YLR004C
YLR004W
YLR003W
YLR003C
YLR002C
YLR001W
YLR001C
1e−20
1e−10
0.001
0.1
0.1+

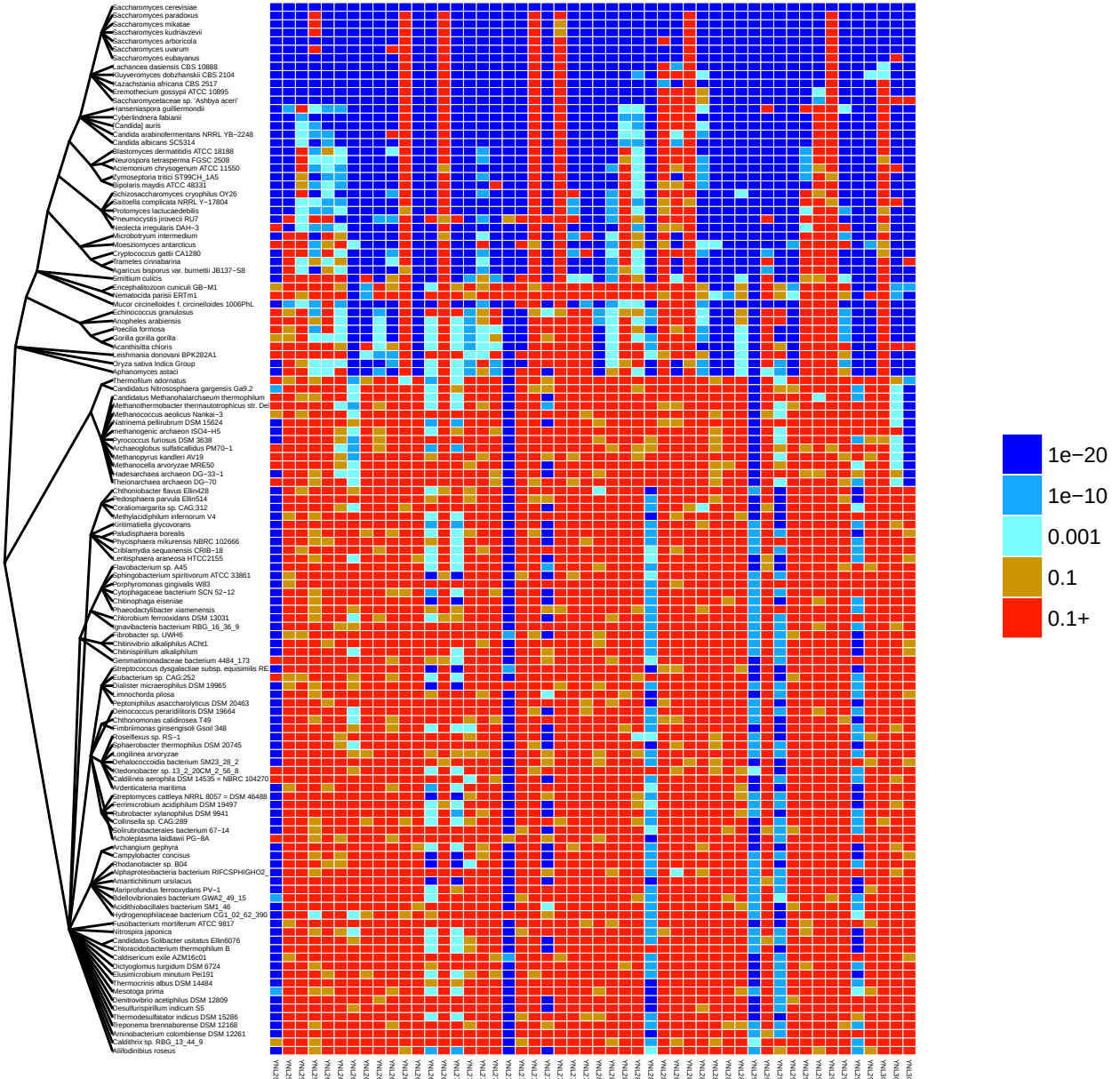

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonio bacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbrimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

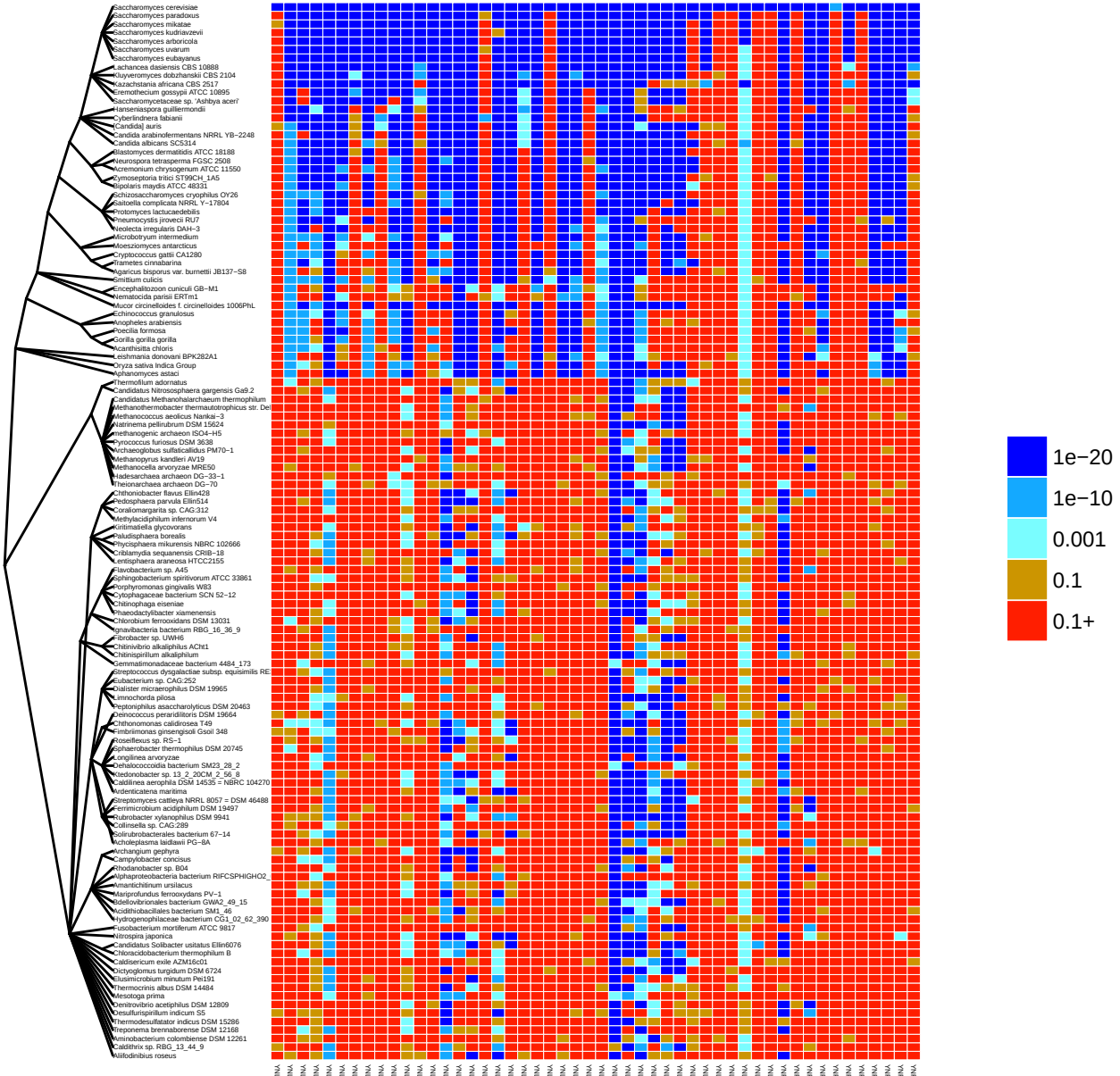

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseroë rubra
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolancetibacter roseus
1e−20
1e−10
0.001
0.1
0.1+

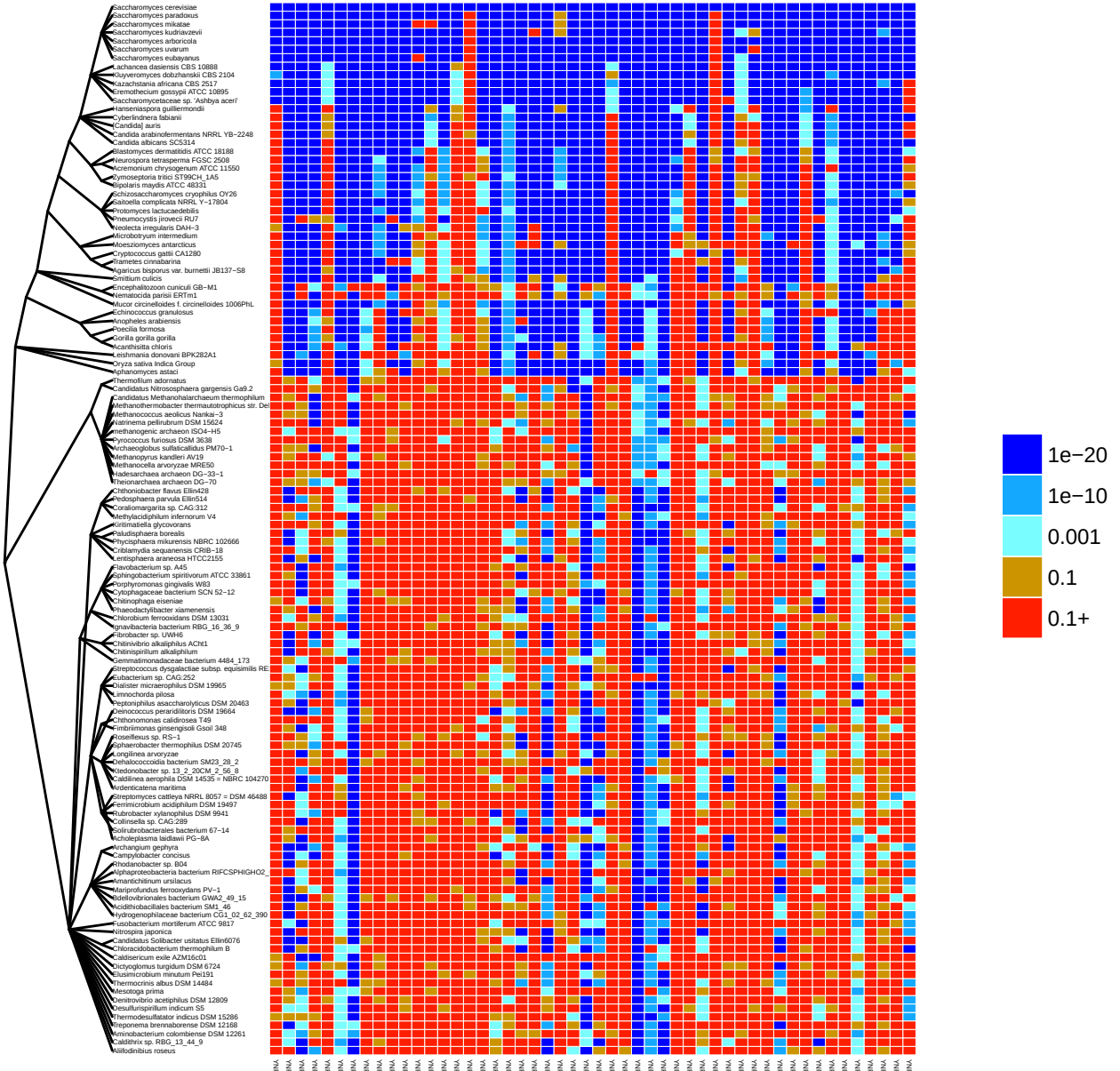

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Ignisphaera aggerensis
Nitrosopumilus maritimus SCM1
Candidatus Korarchaeum cryptofilum OPA67
Candidatus Caldiarchaeum subterranum
Candidatus Aenigmarchaeota archaeon
Candidatus Parvarchaeum acidiphilum ARMAN−4
Candidatus Micrarchaeota archaeon
Candidatus Pacearchaeota archaeon
Candidatus Nanohaloarchaeota archaeon SG8−32−1
Candidatus Aenigmatarchaeotum
Candidatus Woesearchaeota archaeon
Candidatus Parvarchaeota archaeon
YAL112C
YAL112W
YAL113W
YAL115C
YAL116W
YAL117W
YAL118C
YAL119W
YAL120C
YAL121C
YAL122C
YAL123W
YAL124W
YAL125C
YAL126C
YAL127W
YAL128W
YAL129W
YAL130C
YAL130C-A
YAL131W
YAL132W
YAL133C
YAL134C
YAL135W
YAL136C
YAL137C
YAL138W
YAL138W-A
YAL139C
YAL140W
YAL141W
YAL142W
YAL143C
YAL144C
YAL144W-A
YAL145W
YAL146C-A
YAL147W
YAL147W
YAL148C
YAL149C
YAL150W
YAL151C
YAL152W
YAL153C
YAL154C
YAL155W
YAL156C
1e−20
1e−10
0.001
0.1
0.1+

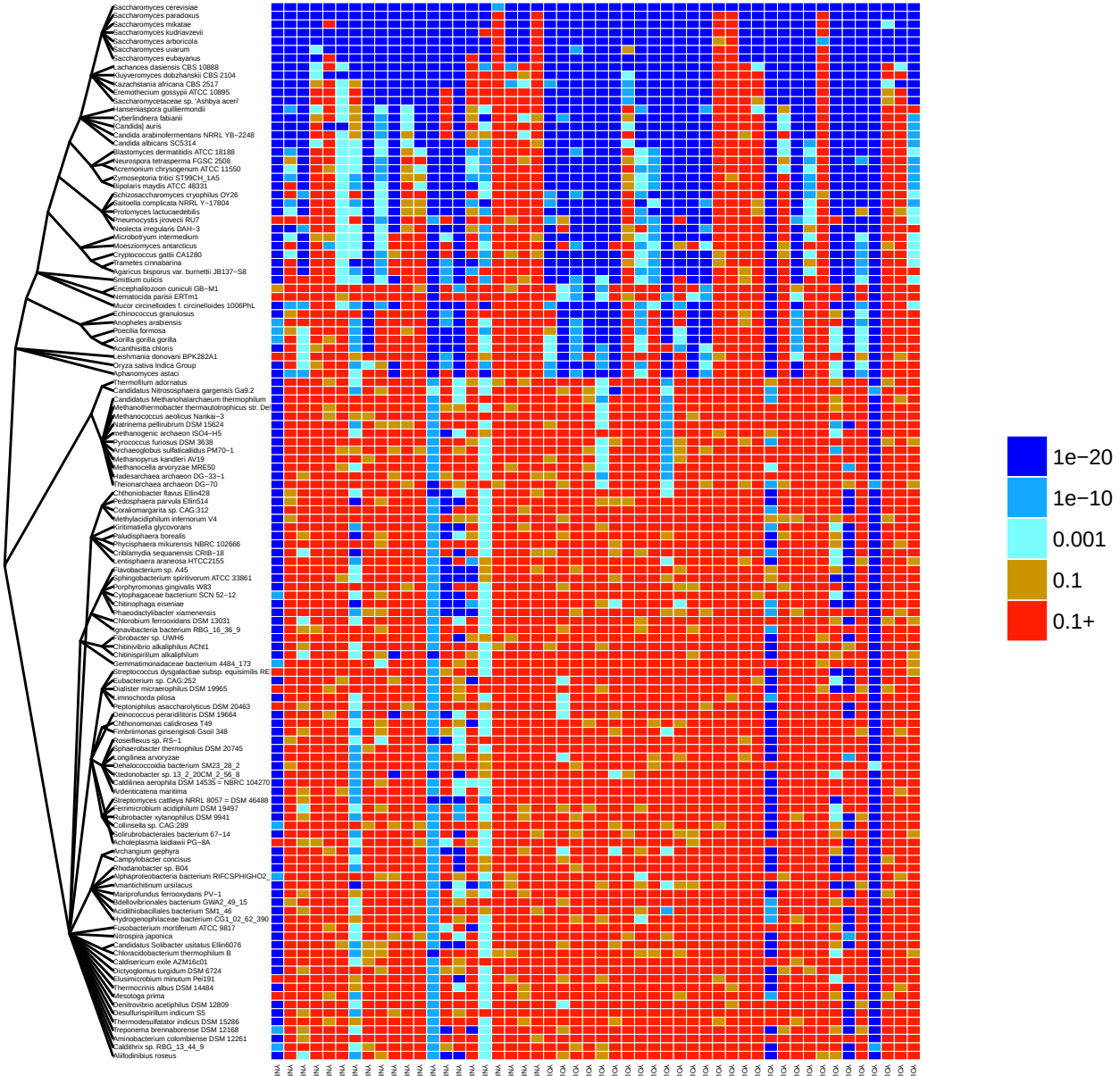

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YAL5T1M
YAL1T1M
YAL1T1C
YAL1T1W
YAL1T1M
YAL1T1W
YAL1T1C
YAL1T1W-A
YAL1T1C
YAL1T1C
YAL1T1W
YAL1T1W
YAL1T1C
YAL1T1C
YAL1T1C
YAL1T1C
YAL1T1W
YAL1T1C
YAL1T1C
YAL1T1C
YAL1T1W
YAL1T1C
YAL1T1C
YAL1T1C
YAL1T1W
YAL1T1C
YAL1T1C
YAL1T1C
YAL1T1W
YAL1T1C
YAL1T1C
YAL1T1C
YAL1T1W
YAL1T1W
YAL1T1W

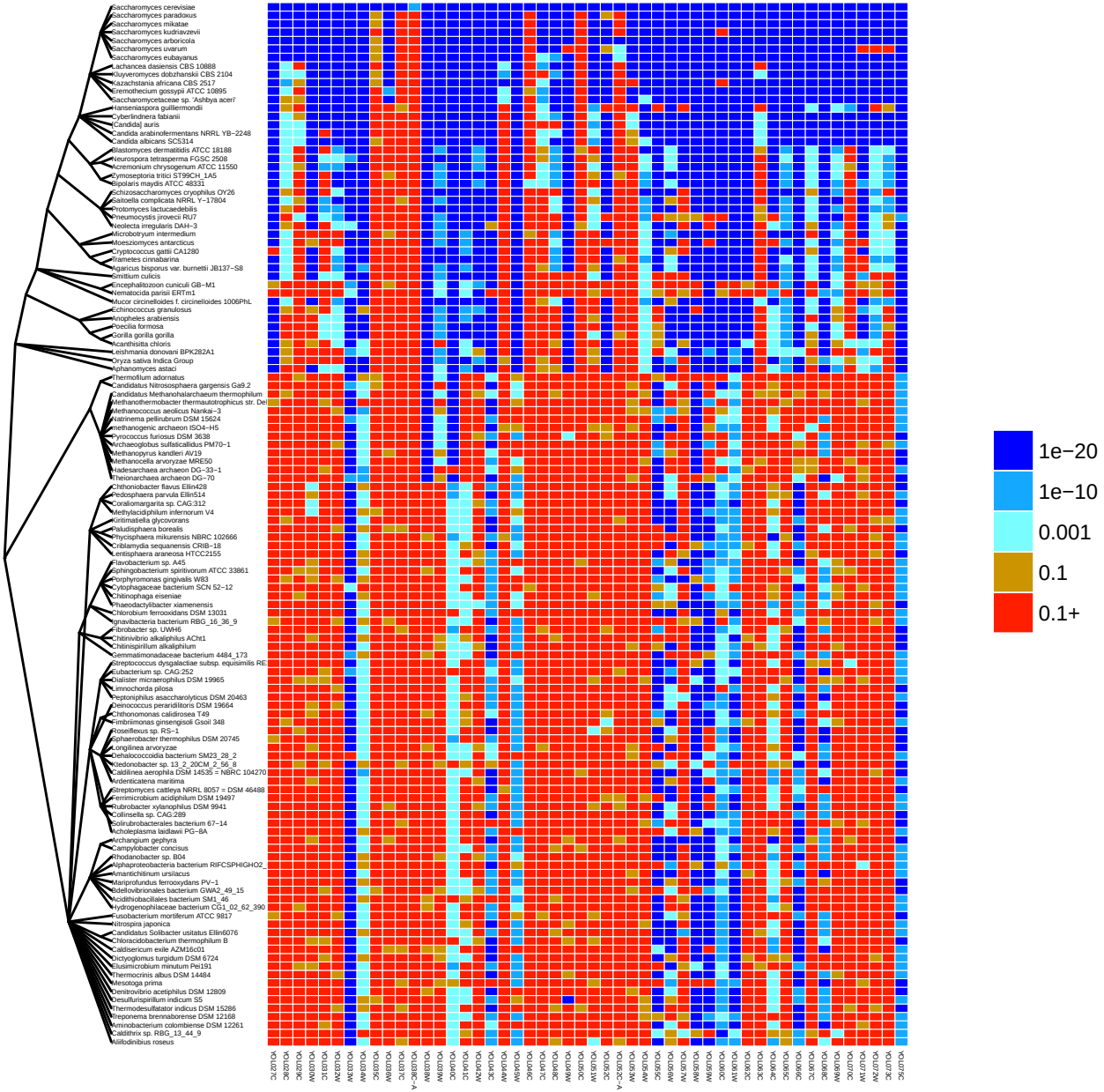

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
YKL206C
YKL207W
YKL208W
YKL209W
YKL210W
YKL211C
YKL212W
YKL213C
YKL214W
YKL215W
YKL216W
YKL217W
YKL218W
YKL219C
YKL220W
YKL221C
YKL222W
YKL223W
YKL224C
YKL225C
YKL226W
YKL227C
YKL228W
YKL229C
YKL230C
YKL231C
YKL232W
YKL233W
YKL234W
YKL235C
YKL236W
YKL237W
YKL238W
YKL239W
YKL240C
YKL241C
YKL242W
YKL243W
YKL244C
YKL245C
YKL246W
YKL247W
YKL248C
YKL249C
YKL250W
YKL251C
YKL252C
YKL253W
YKL254C
YKL255C
1e−20
1e−10
0.001
0.1
0.1+

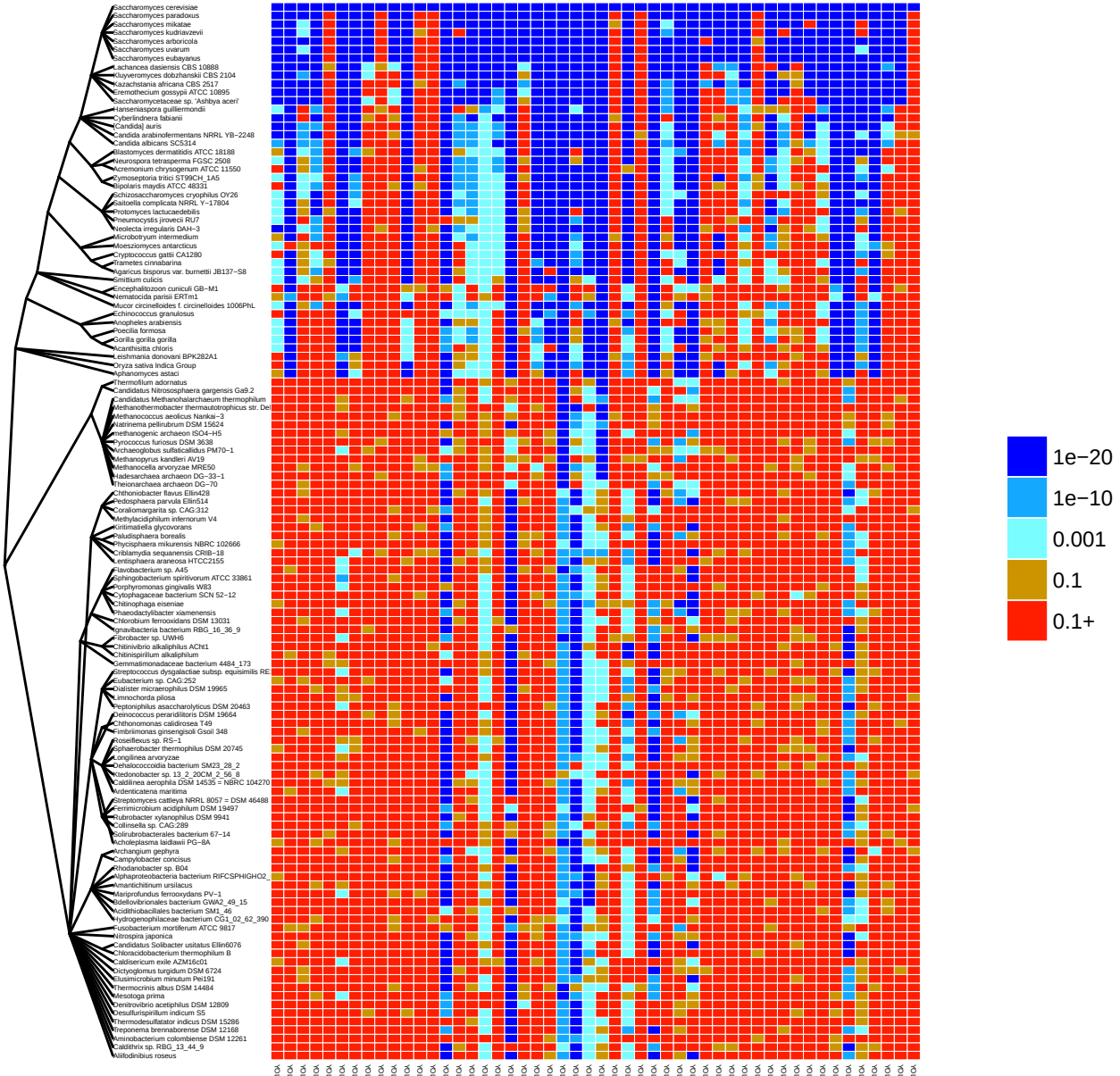

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Kiritimatiella glycovorans
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xenodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrolodinibius roseus
YAL236W
YAL237C
YAL238C
YAL239C
YAL240C
YAL241W
YAL242W
YAL243C
YAL244C
YAL245W
YAL246W
YAL247C
YAL248W
YAL249W
YAL250C
YAL251C
YAL252C
YAL253W
YAL254C
YAL255W
YAL256C
YAL257W
YAL258C
YAL259C
YAL260W
YAL261C
YAL262W
YAL263C
YAL264C
YAL265W
YAL266W
YAL267W
YAL268W
YAL269W
YAL270C
YAL271C
YAL272C
YAL273W
YAL274C
YAL275W
YAL276C
YAL277W
YAL277W-A
YAL278W
YAL279C
YAL280C
YAL281W
YAL282W
YAL283C
YAL284C
YAL284C-A
YAL284C-B
YAL285W
YAL286W
YAL287W
YAL288W
YAL289W
YAL290W
YAL291C
YAL292W
YAL293W
YAL294C
YAL295W
YAL296C
YAL297C
YAL298W
YAL299W
YAL300W
YAL301C
YAL302C
1e−20
1e−10
0.001
0.1
0.1+

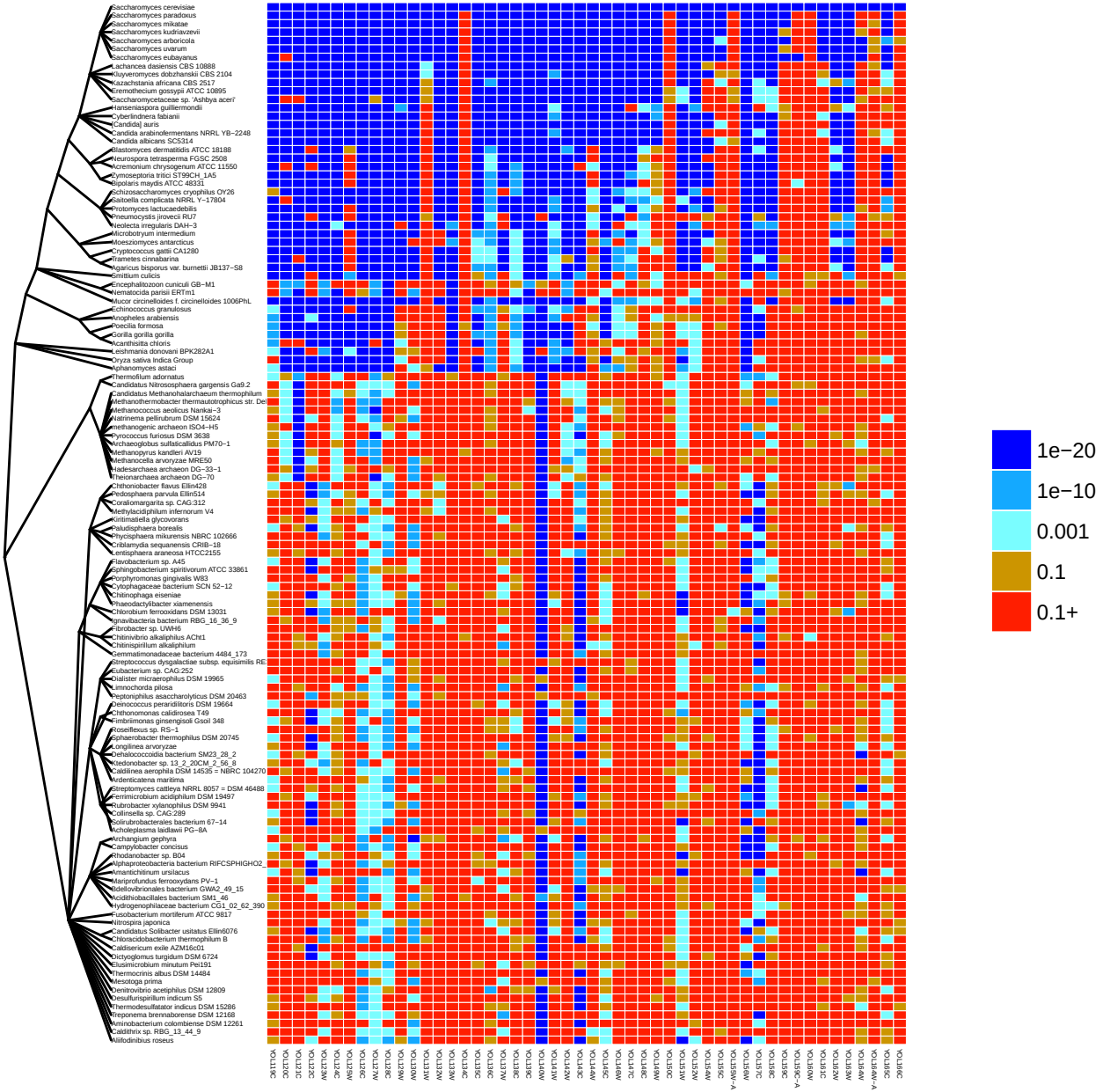

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Meeszomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermotilium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Ciliamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YAL30DW
YAL30AW
YAL30FC
YAL30EW
YAL30BC
YAL30CC
YAL30DW
YAL30GC
YAL31DC
YAL31CW
YAL31GC
YAL31AW
YAL31EC
YAL31BC
YAL31FW
YAL31BW
YAL32DW
YAL32AW
YAL32FC
YAL32BW
YAL32GC
YAL32EC
YAL32FW
YAL32BC
YAL32DC
YAL33DC
YAL33GC
YAL33CC
YAL33FW
YAL33EW
YAL33AW
YAL33CW
YAL33BW
YAL33FW
YAL33GC
YAL33AW-A
YAL33AW-B
YAR01DC
YAR01W-A
YAR02C
YAR03C
YAR03W-A
YAR02G
YAR02AW
YAR02W
YAR02C
YAR02W
1e−20
1e−10
0.001
0.1
0.1+

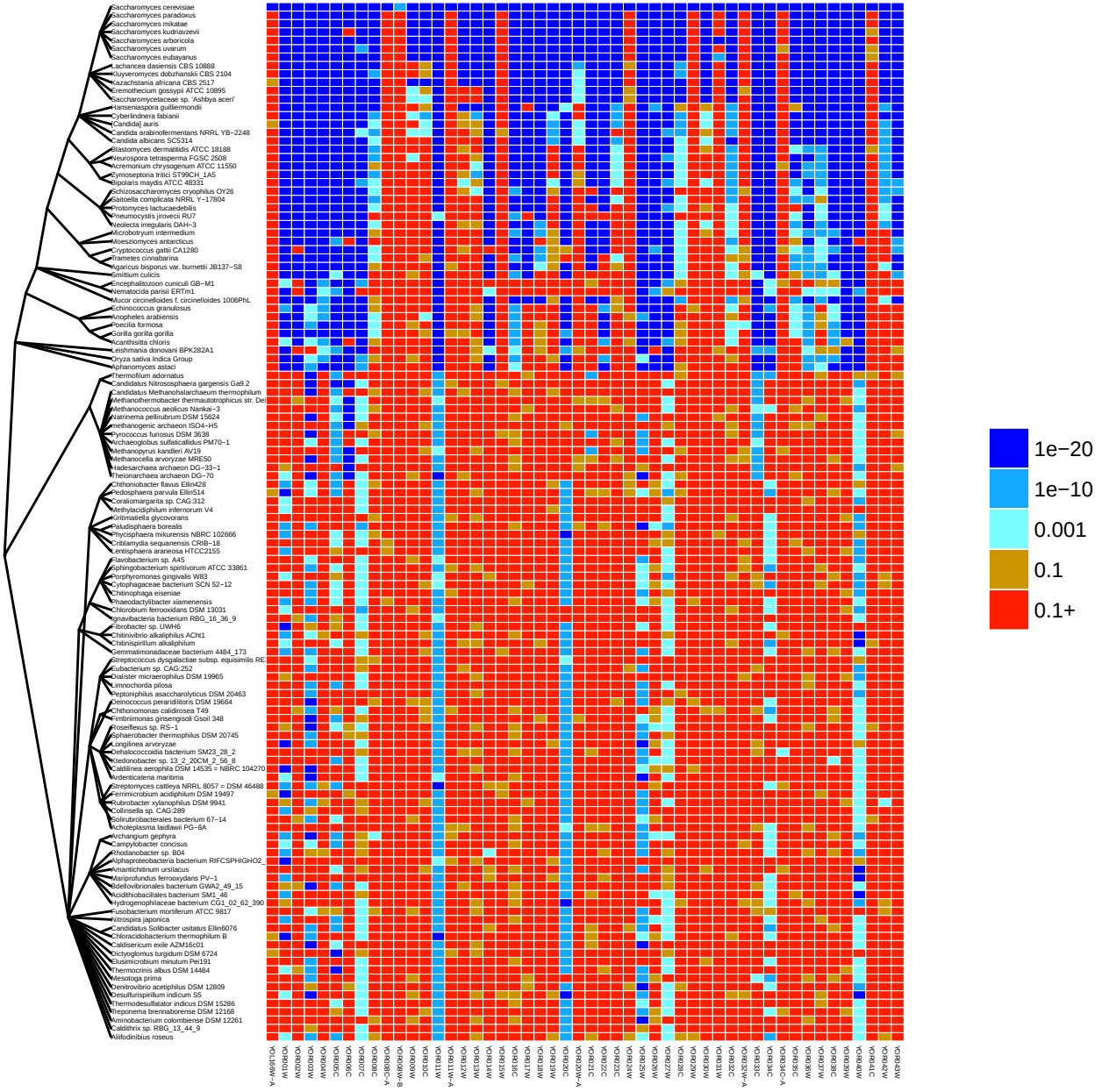

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

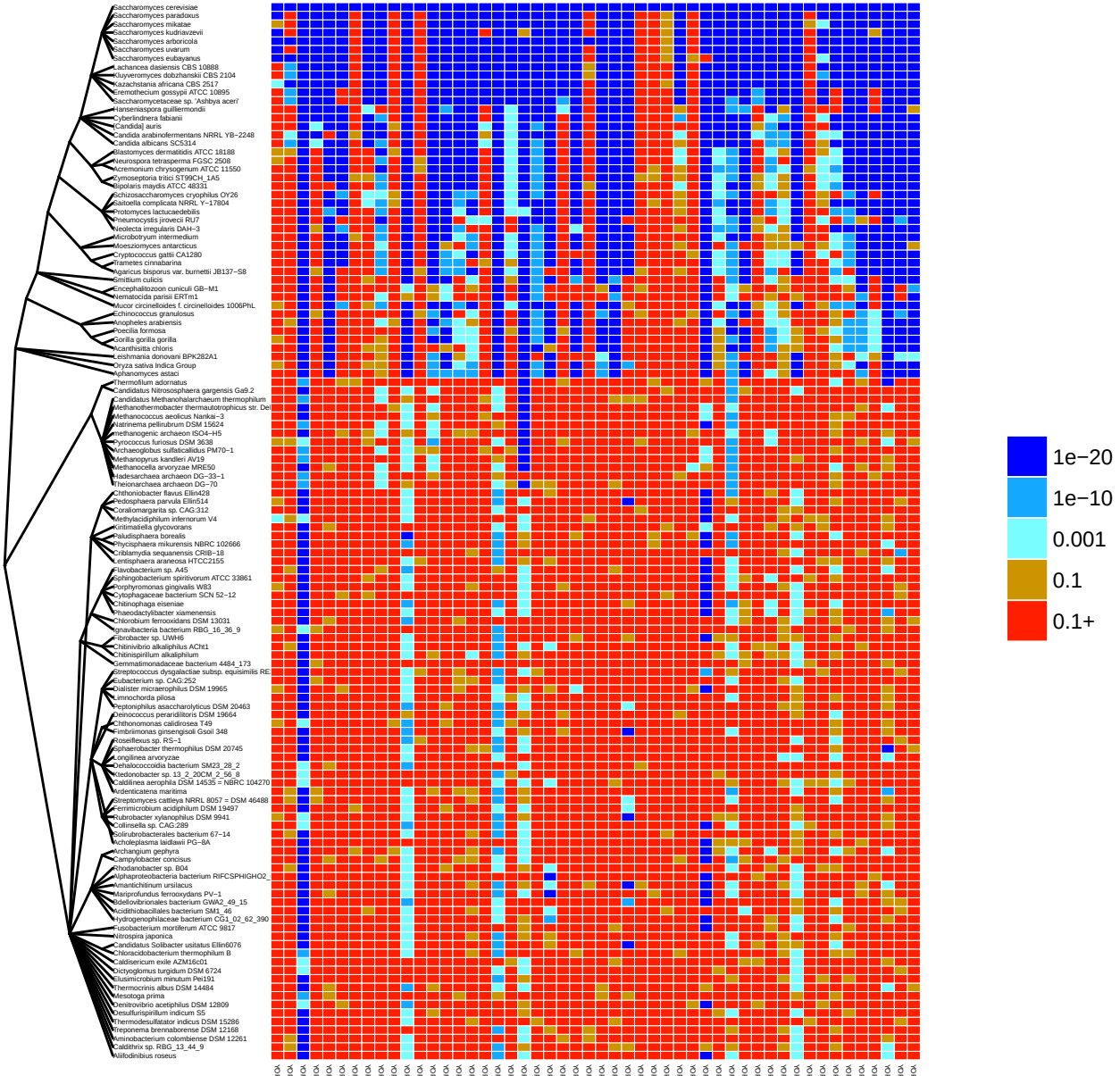

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

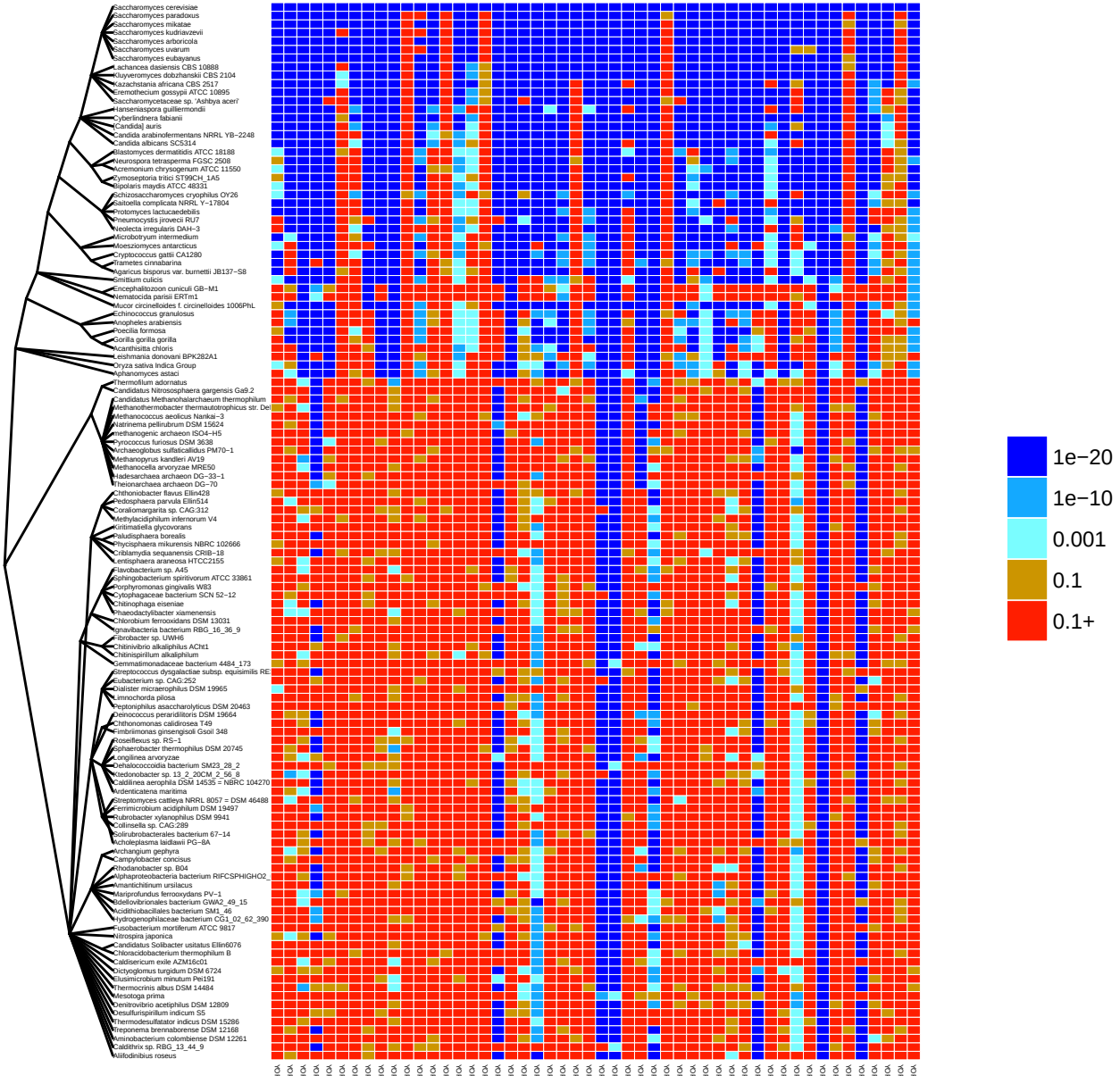

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

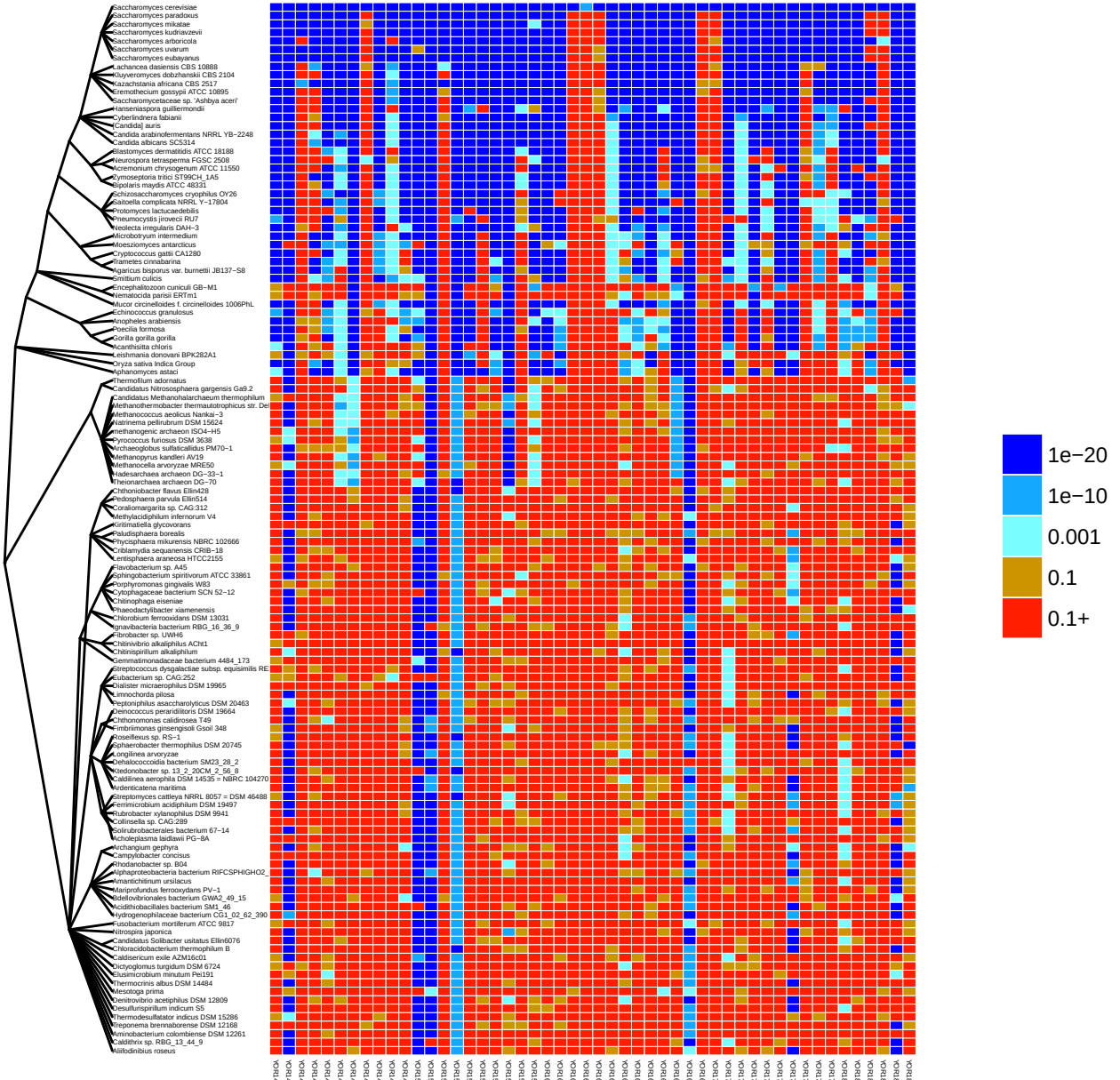

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
1e−20
1e−10
0.001
0.1
0.1+

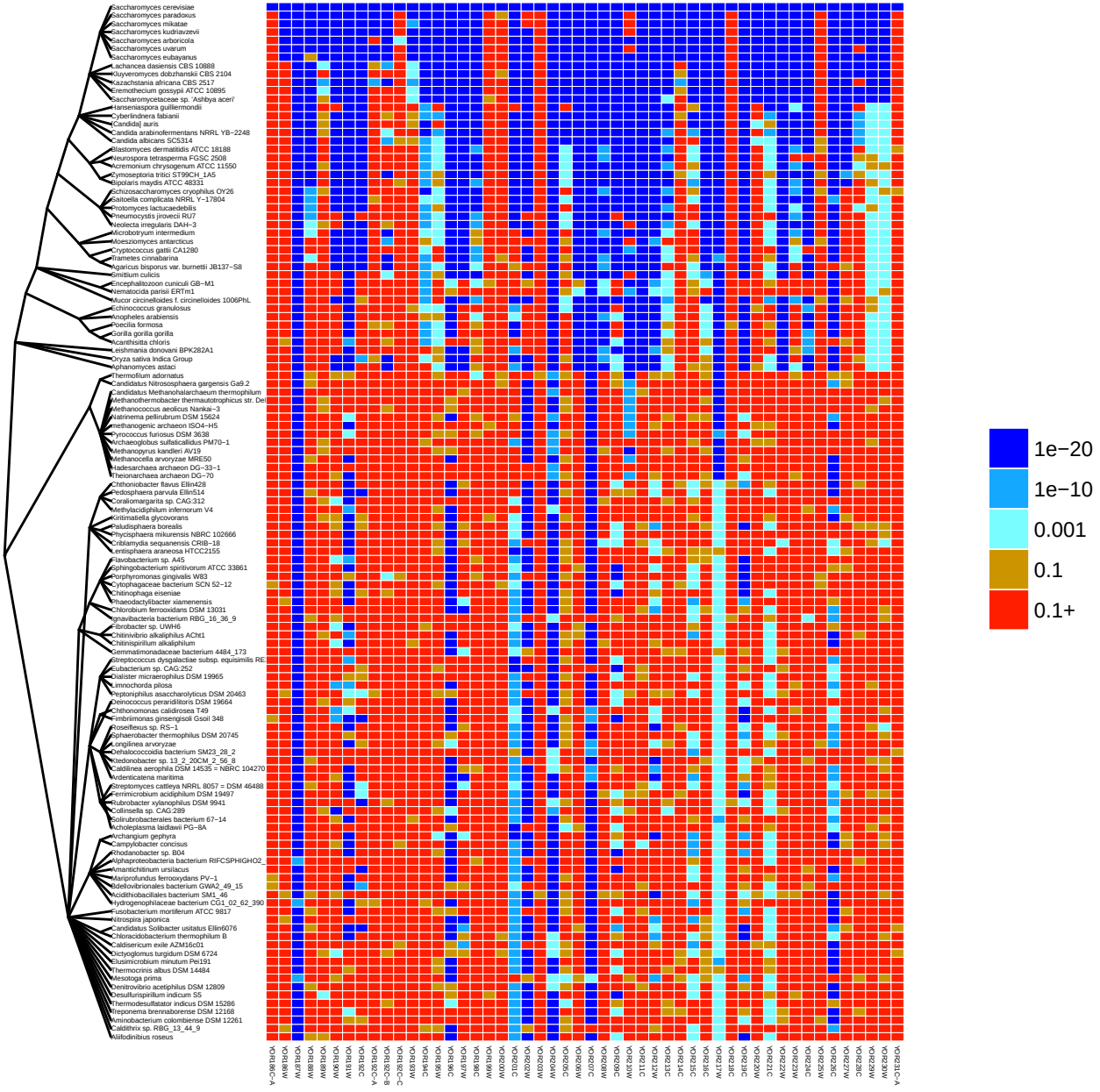

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

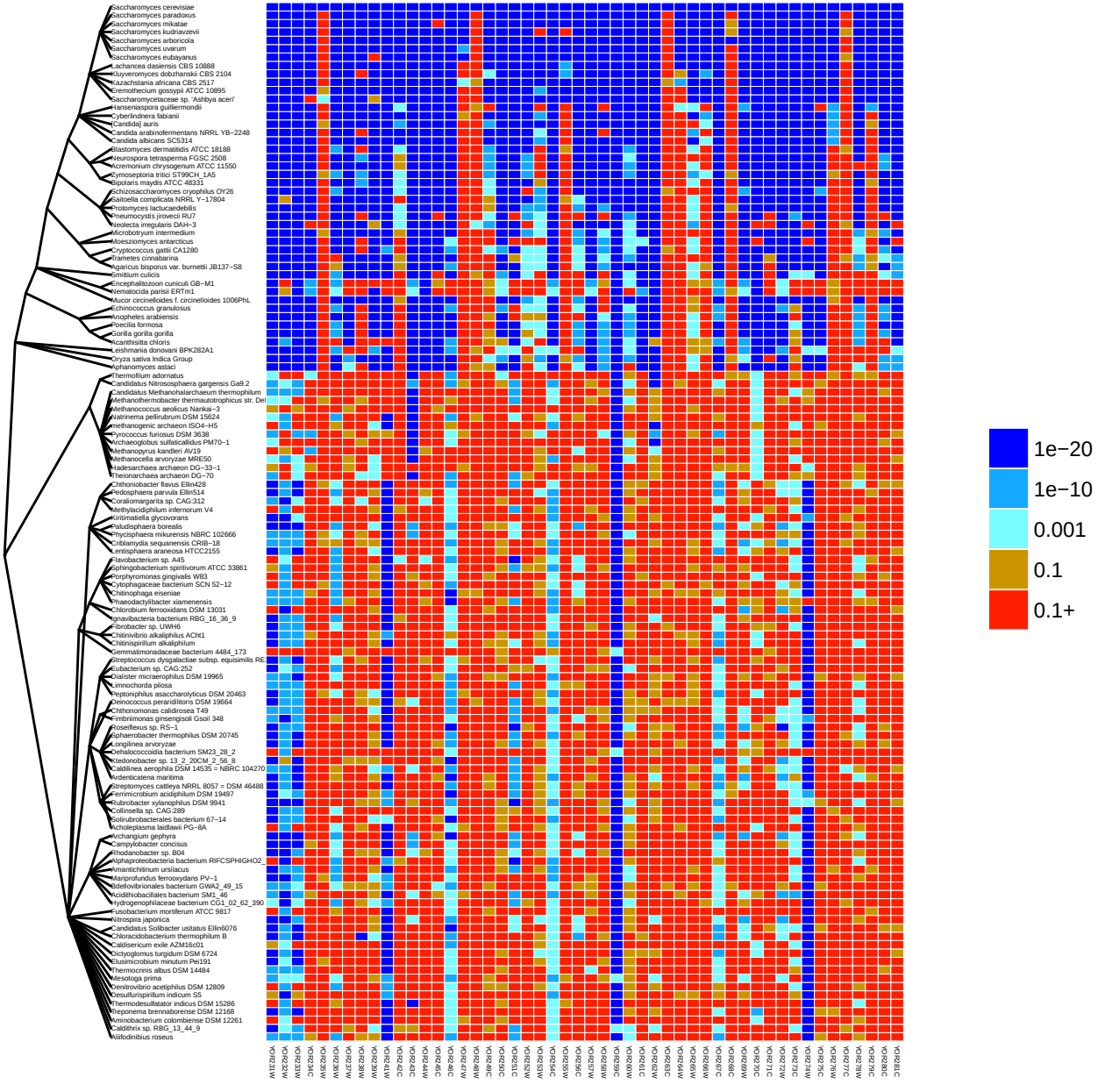

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

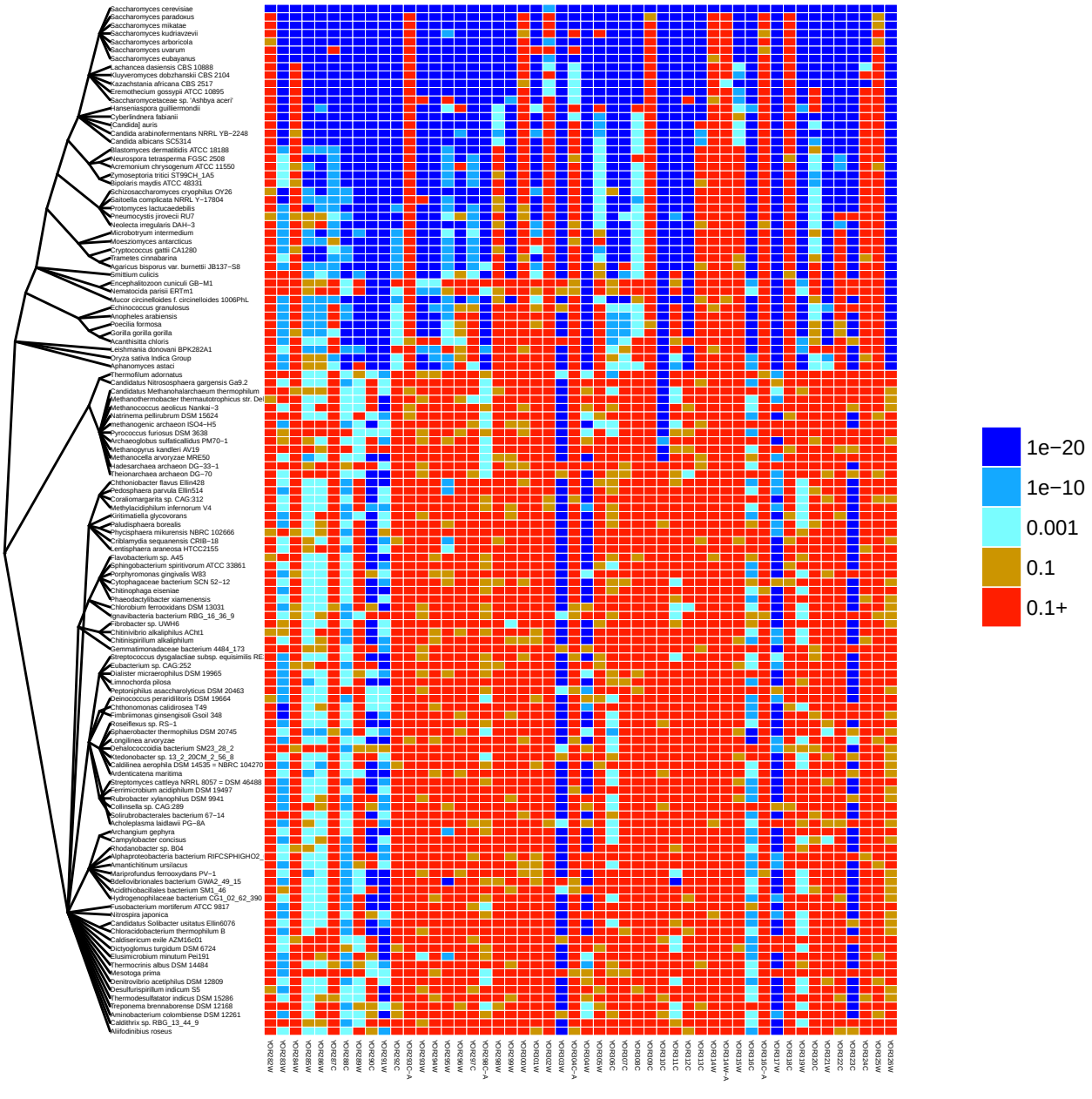

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrosospharaea gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus Caldithrix sp. RBG_13_44_9
Nitrosococcus watsoni C−113
Nitrosomonas sp. Is79A3
Nitrosomonas europaea ATCC 19718
Nitrosomonas eutropha C91
Nitrosomonas sp. Is79A3
Nitrosomonas nitrosa Nm90
Nitrosomonas sp. Nm51
Nitrosomonas sp. Nm33
Nitrosomonas sp. Nm22
Nitrosomonas sp. Nm143
Nitrosomonas sp. Nm132
Nitrosomonas sp. Nm107
Nitrosomonas sp. Nm84
Nitrosomonas sp. Nm58
Nitrosomonas sp. Nm41
Nitrosomonas sp. Nm36
Nitrosomonas sp. Nm34
Nitrosomonas sp. Nm26
Nitrosomonas sp. Nm23
Nitrosomonas sp. Nm21
Nitrosomonas sp. Nm20
Nitrosomonas sp. Nm18
Nitrosomonas sp. Nm16
Nitrosomonas sp. Nm14
Nitrosomonas sp. Nm13
Nitrosomonas sp. Nm12
Nitrosomonas sp. Nm11
Nitrosomonas sp. Nm10
Nitrosomonas sp. Nm9
Nitrosomonas sp. Nm8
Nitrosomonas sp. Nm7
Nitrosomonas sp. Nm6
Nitrosomonas sp. Nm5
Nitrosomonas sp. Nm4
Nitrosomonas sp. Nm3
Nitrosomonas sp. Nm2
Nitrosomonas sp. Nm1
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A2
Nitrosomonas sp. Is79A1
Nitrosomonas sp. Is74
Nitrosomonas sp. Is73
Nitrosomonas sp. Is72
Nitrosomonas sp. Is71
Nitrosomonas sp. Is70
Nitrosomonas sp. Is69
Nitrosomonas sp. Is68
Nitrosomonas sp. Is67
Nitrosomonas sp. Is66
Nitrosomonas sp. Is65
Nitrosomonas sp. Is64
Nitrosomonas sp. Is63
Nitrosomonas sp. Is62
Nitrosomonas sp. Is61
Nitrosomonas sp. Is60
Nitrosomonas sp. Is59
Nitrosomonas sp. Is58
Nitrosomonas sp. Is57
Nitrosomonas sp. Is56
Nitrosomonas sp. Is55
Nitrosomonas sp. Is54
Nitrosomonas sp. Is53
Nitrosomonas sp. Is52
Nitrosomonas sp. Is51
Nitrosomonas sp. Is50
Nitrosomonas sp. Is49
Nitrosomonas sp. Is48
Nitrosomonas sp. Is47
Nitrosomonas sp. Is46
Nitrosomonas sp. Is45
Nitrosomonas sp. Is44
Nitrosomonas sp. Is43
Nitrosomonas sp. Is42
Nitrosomonas sp. Is41
Nitrosomonas sp. Is40
Nitrosomonas sp. Is39
Nitrosomonas sp. Is38
Nitrosomonas sp. Is37
Nitrosomonas sp. Is36
Nitrosomonas sp. Is35
Nitrosomonas sp. Is34
Nitrosomonas sp. Is33
Nitrosomonas sp. Is32
Nitrosomonas sp. Is31
Nitrosomonas sp. Is30
Nitrosomonas sp. Is29
Nitrosomonas sp. Is28
Nitrosomonas sp. Is27
Nitrosomonas sp. Is26
Nitrosomonas sp. Is25
Nitrosomonas sp. Is24
Nitrosomonas sp. Is23
Nitrosomonas sp. Is22
Nitrosomonas sp. Is21
Nitrosomonas sp. Is20
Nitrosomonas sp. Is19
Nitrosomonas sp. Is18
Nitrosomonas sp. Is17
Nitrosomonas sp. Is16
Nitrosomonas sp. Is15
Nitrosomonas sp. Is14
Nitrosomonas sp. Is13
Nitrosomonas sp. Is12
Nitrosomonas sp. Is11
Nitrosomonas sp. Is10
Nitrosomonas sp. Is9
Nitrosomonas sp. Is8
Nitrosomonas sp. Is7
Nitrosomonas sp. Is6
Nitrosomonas sp. Is5
Nitrosomonas sp. Is4
Nitrosomonas sp. Is3
Nitrosomonas sp. Is2
Nitrosomonas sp. Is1
1e−20
1e−10
0.001
0.1
0.1+

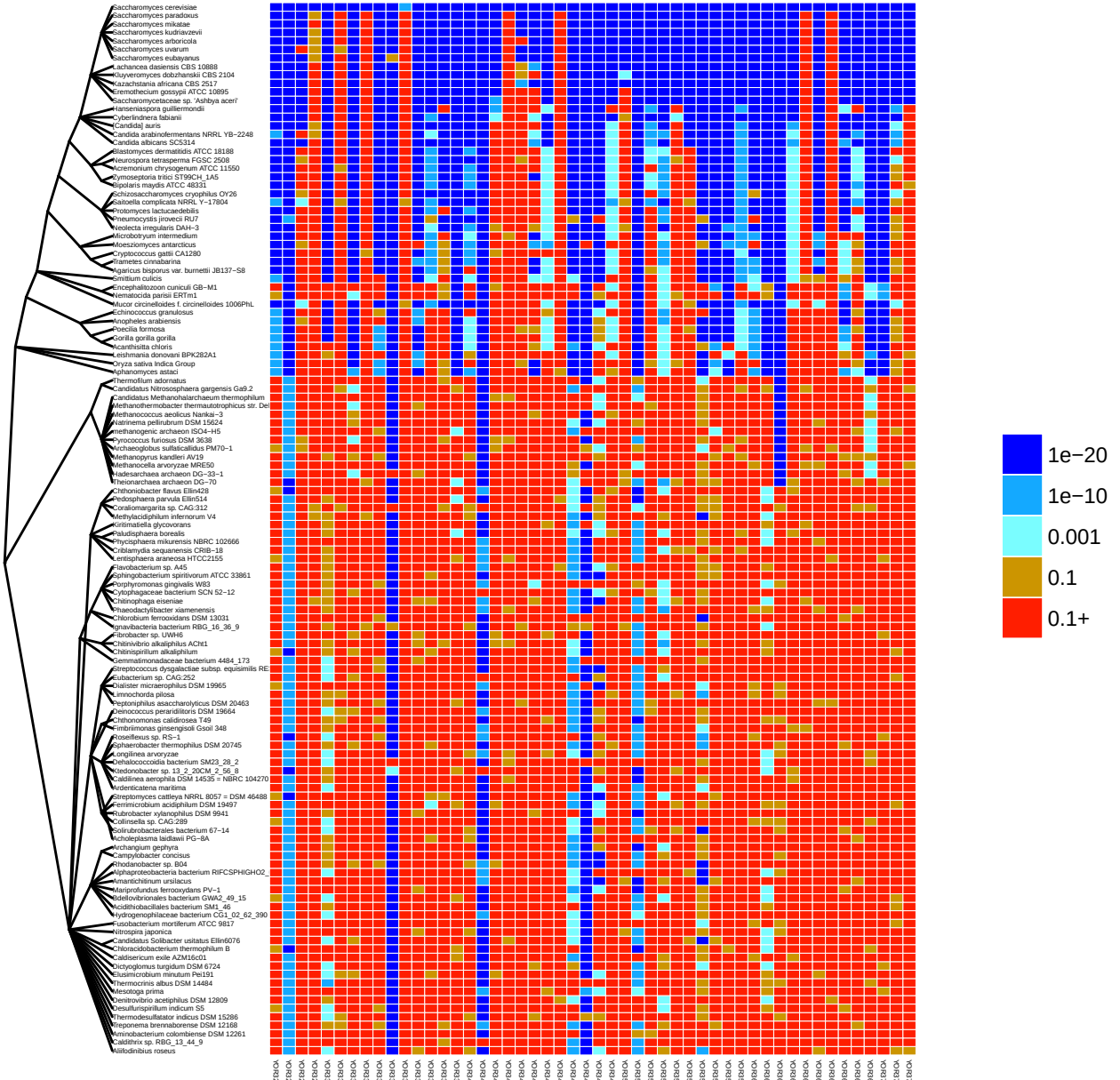

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseszoimyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

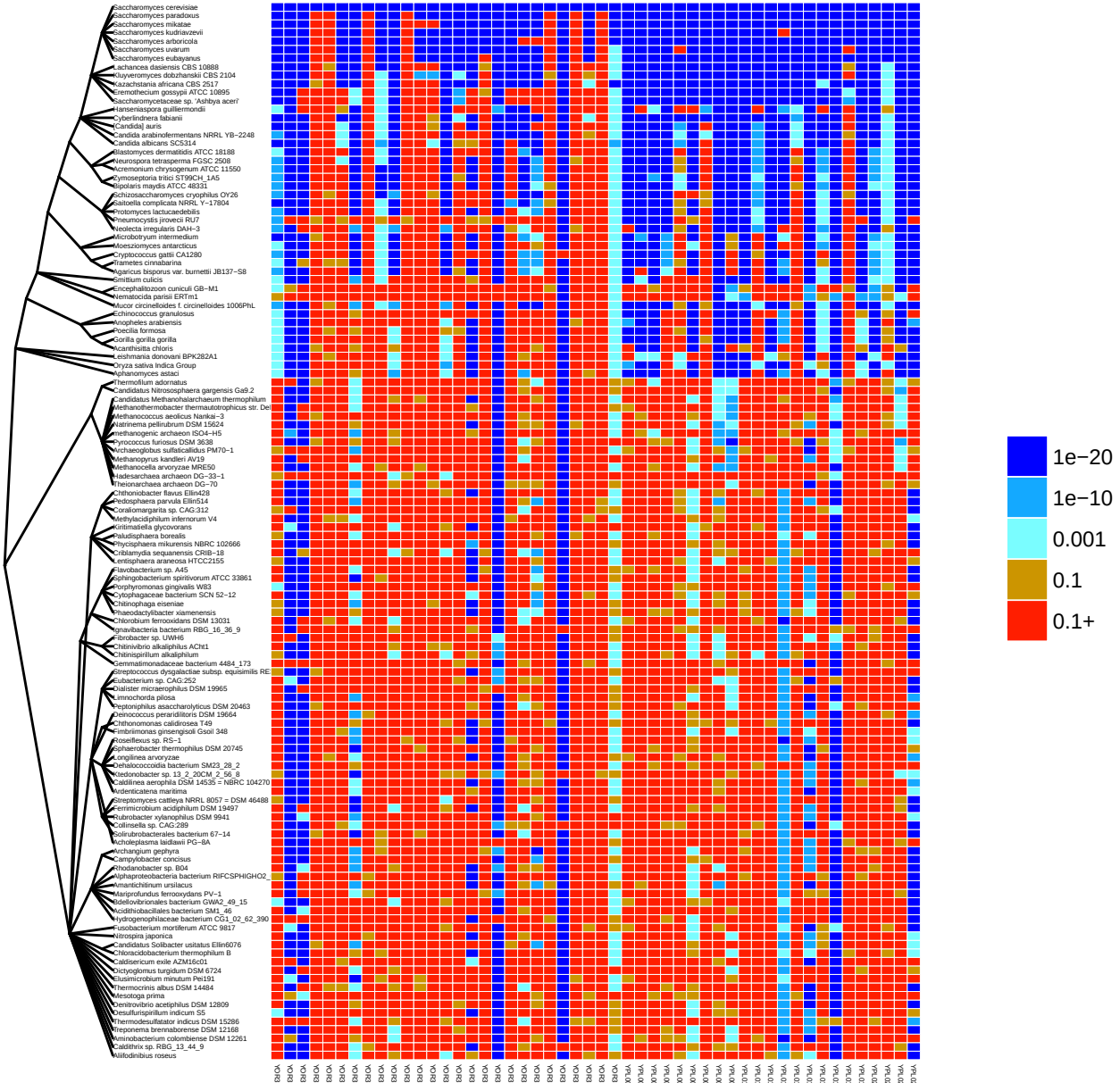

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

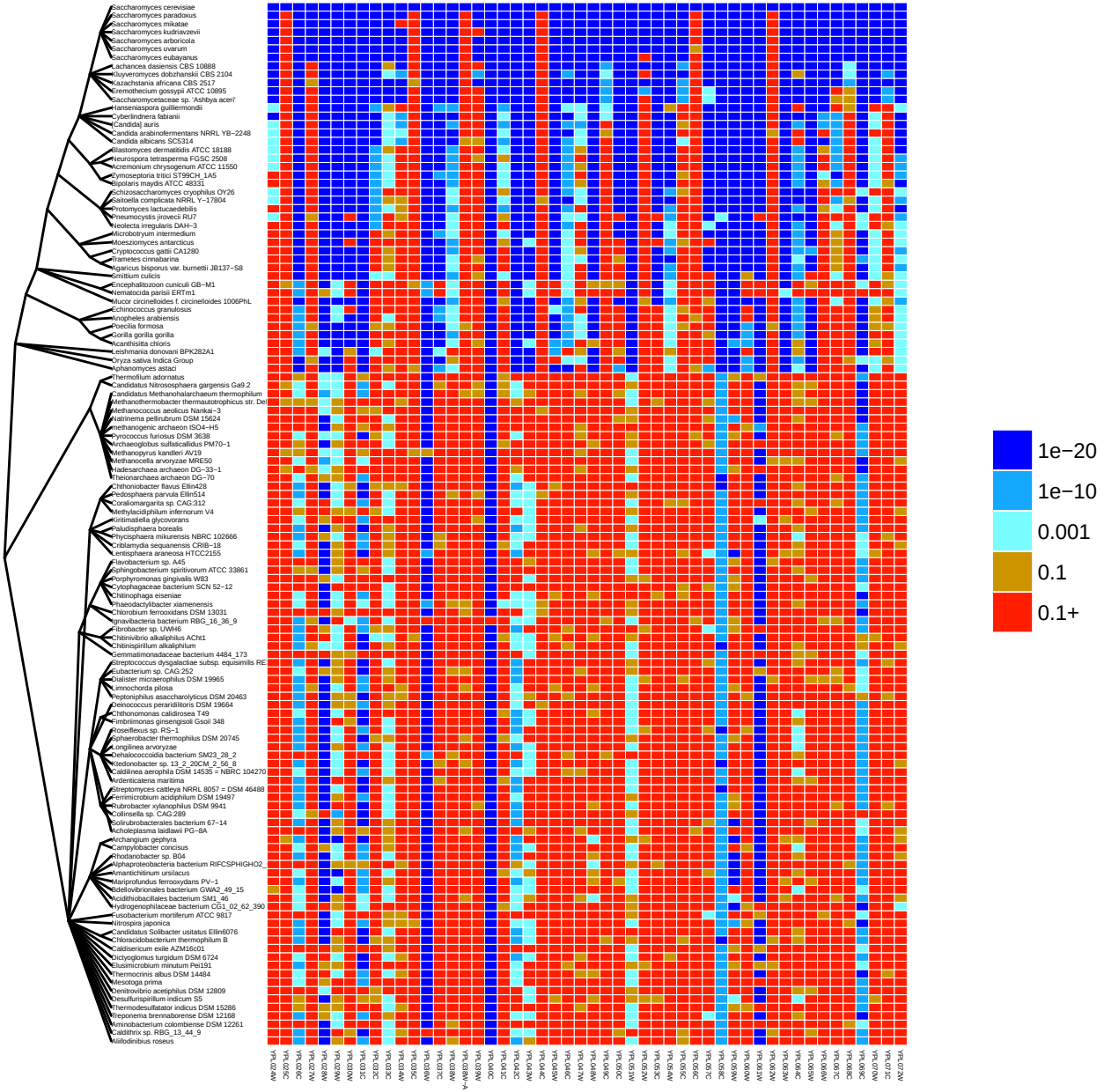

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Candidatus sp. RBG_13_44_9
Niastella koreensis
1e−20
1e−10
0.001
0.1
0.1+

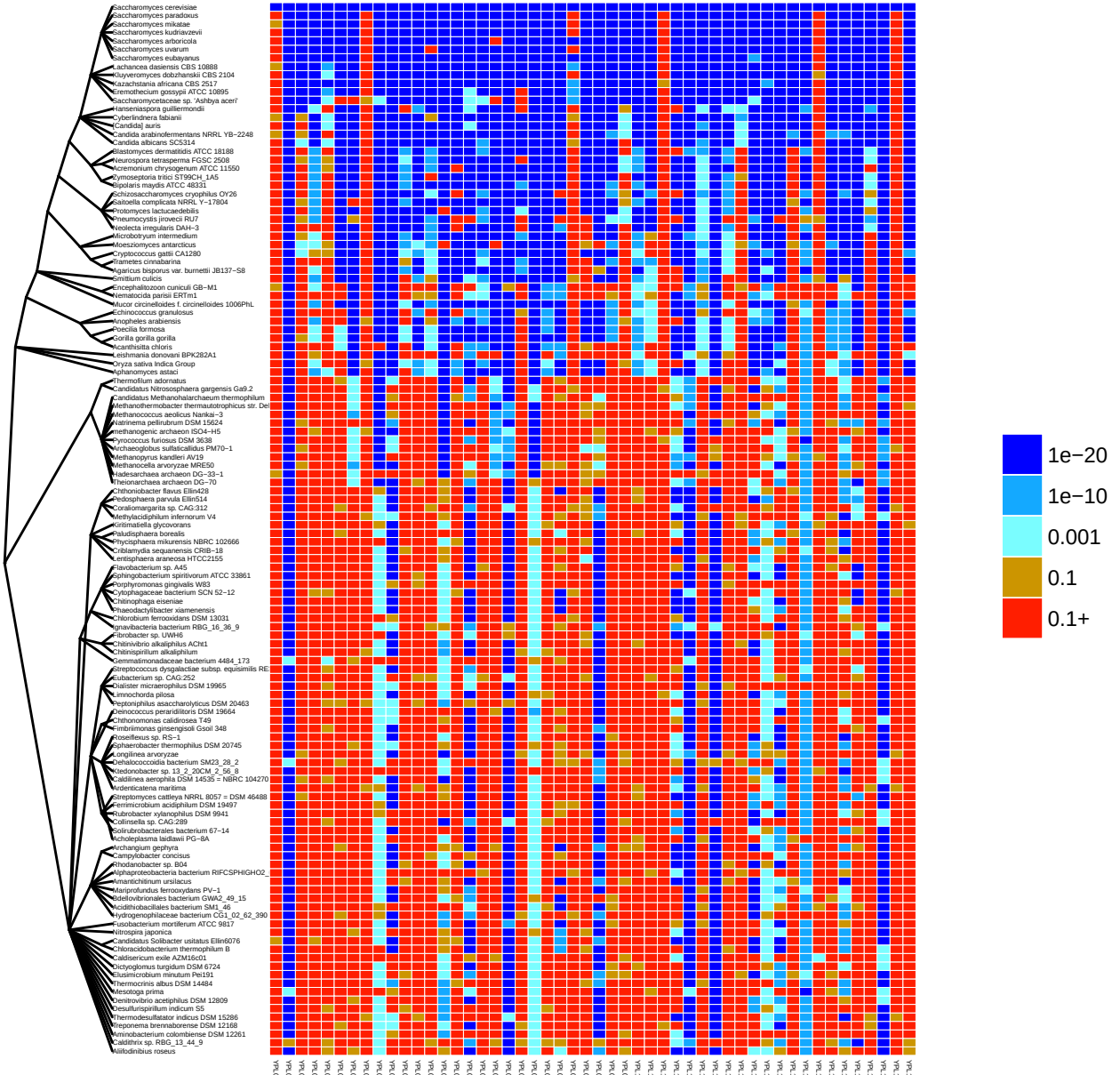

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanohalarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

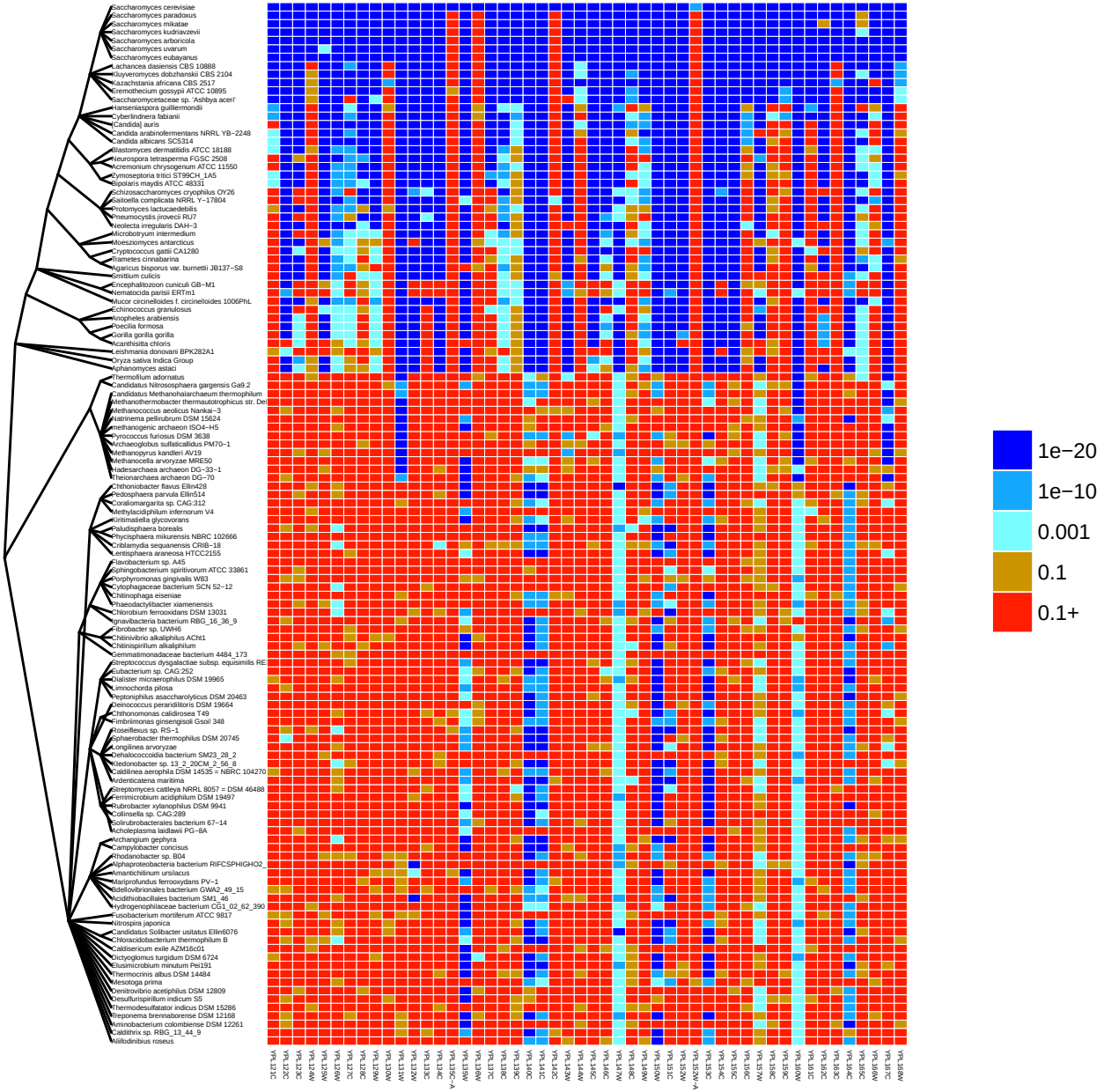

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezodonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Nitrosomonas sp. Is79A3
Nitrosomonas europaea ATCC 19718
Nitrosomonas eutropha C91
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A3
Nitrosomonas sp. Is79A3

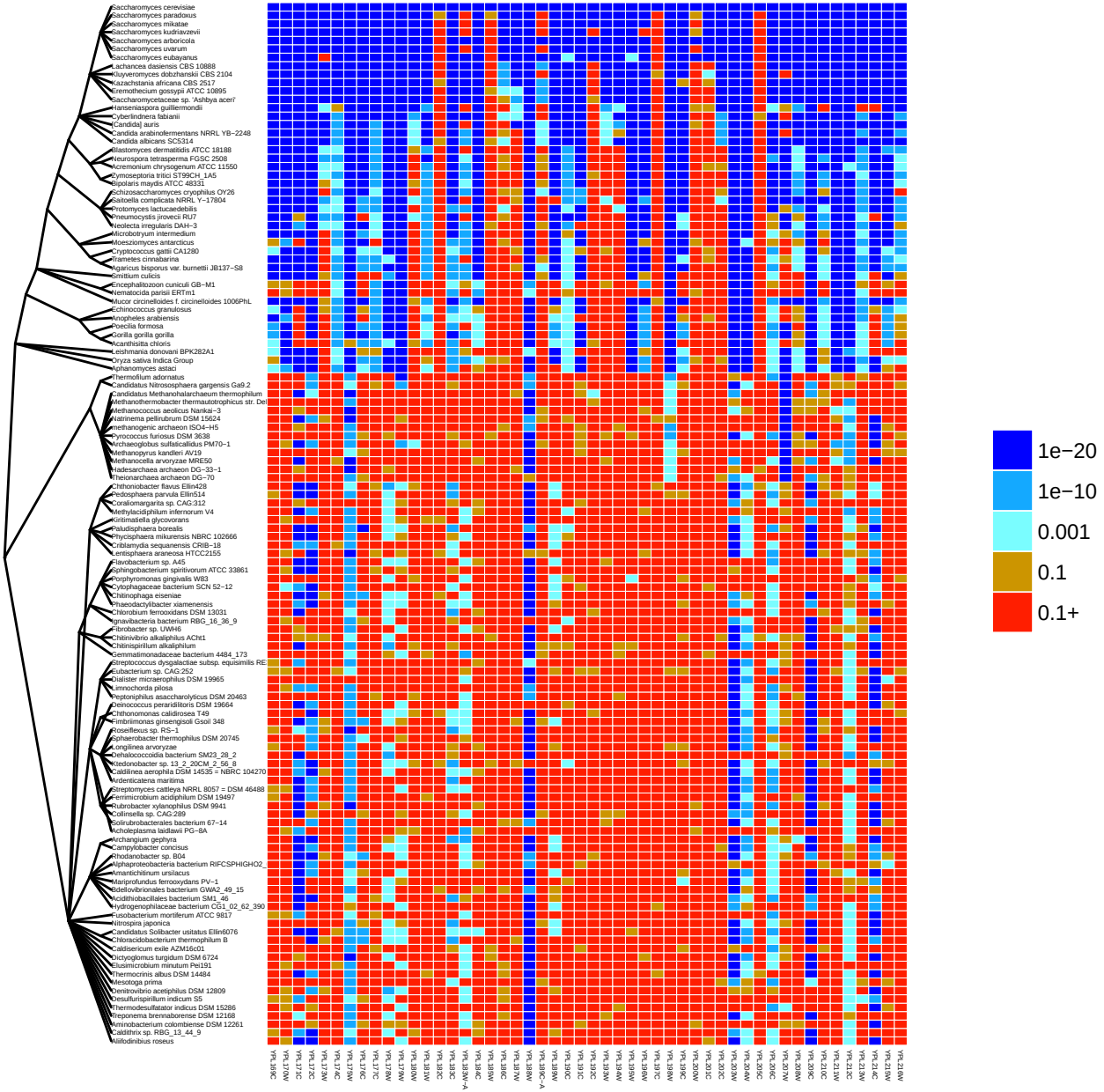

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonioibacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloromargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

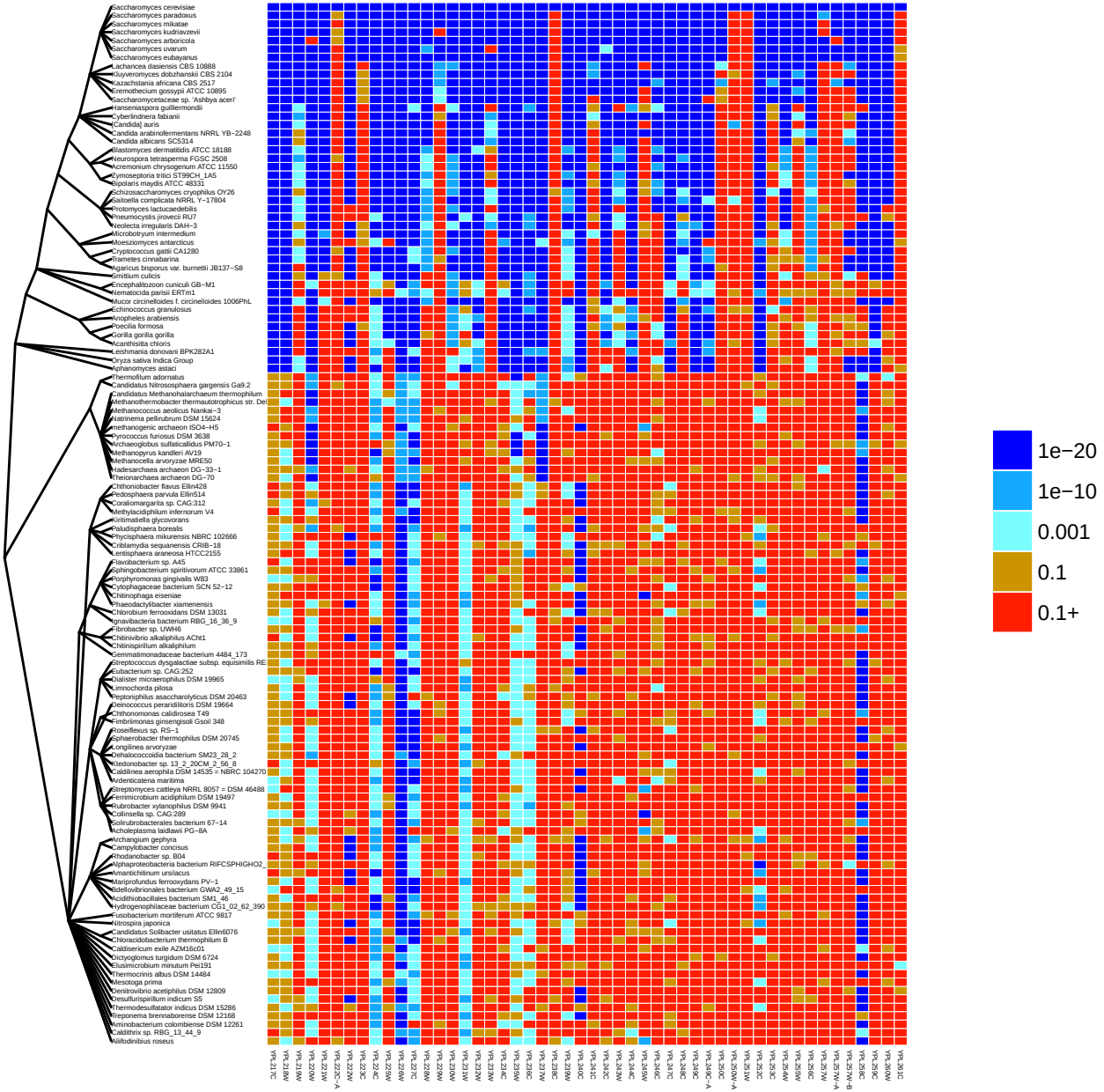

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Nuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

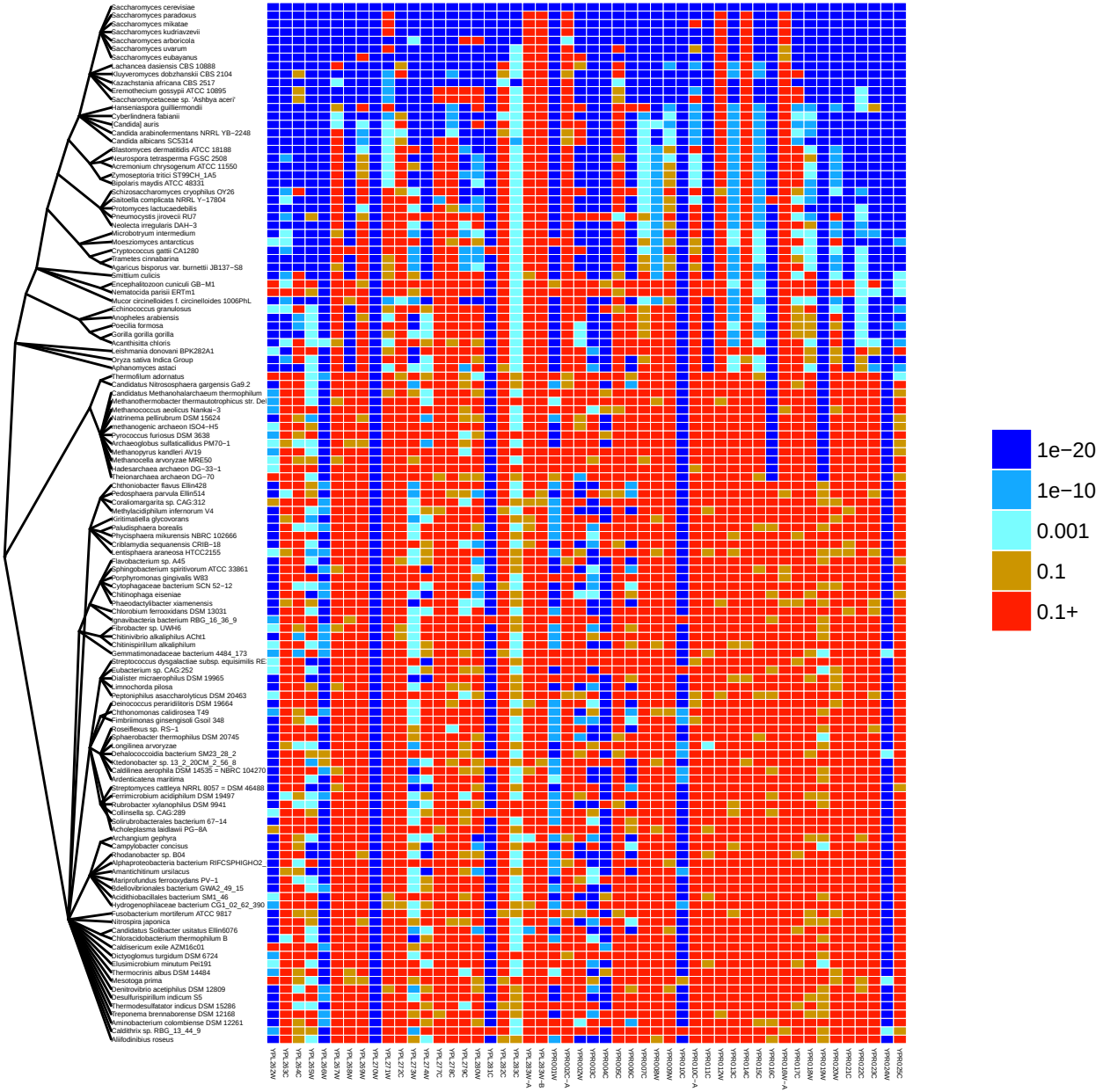

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kluyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloramgaria sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

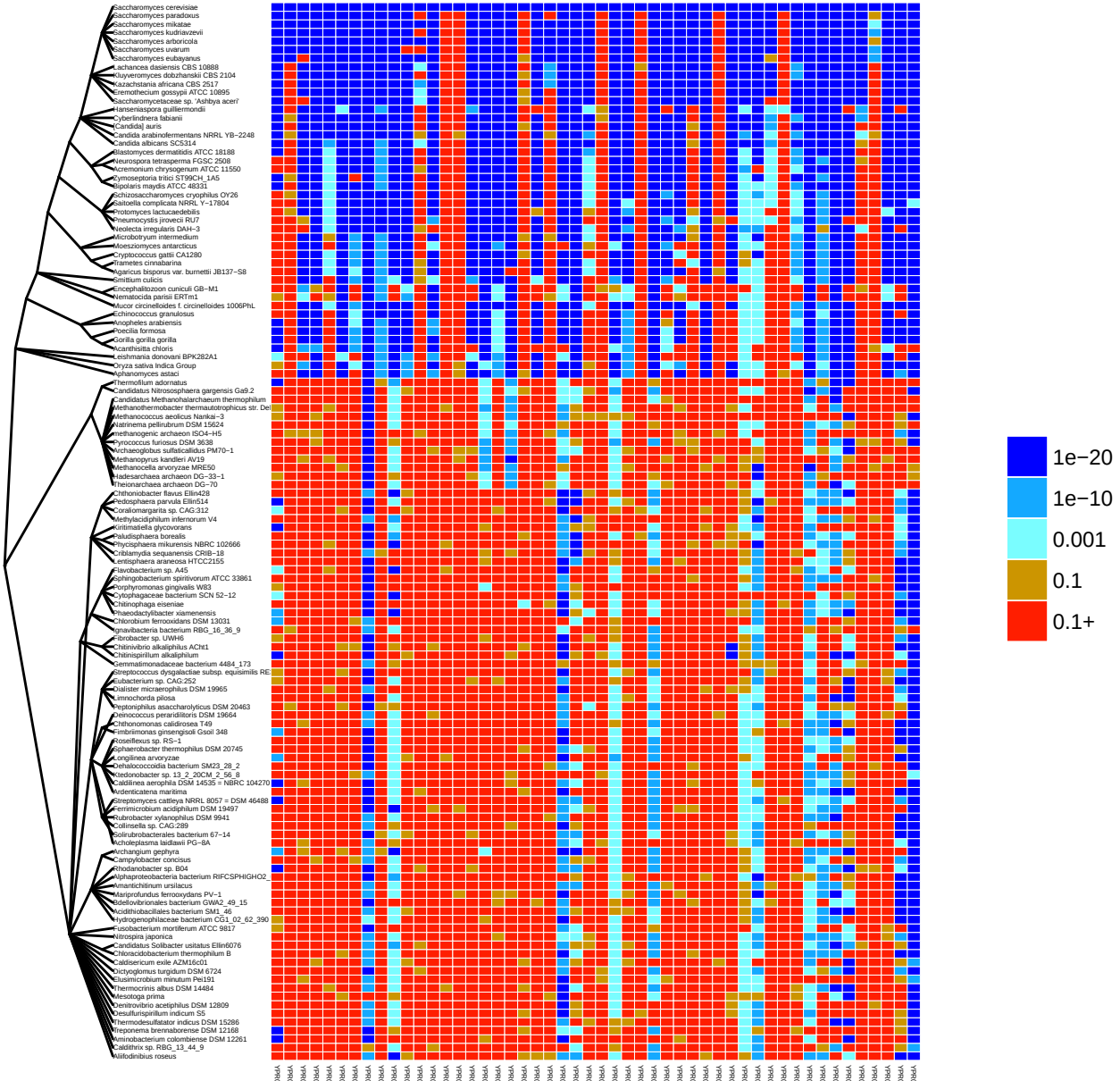

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Guyeromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Aseroiomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coralomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+

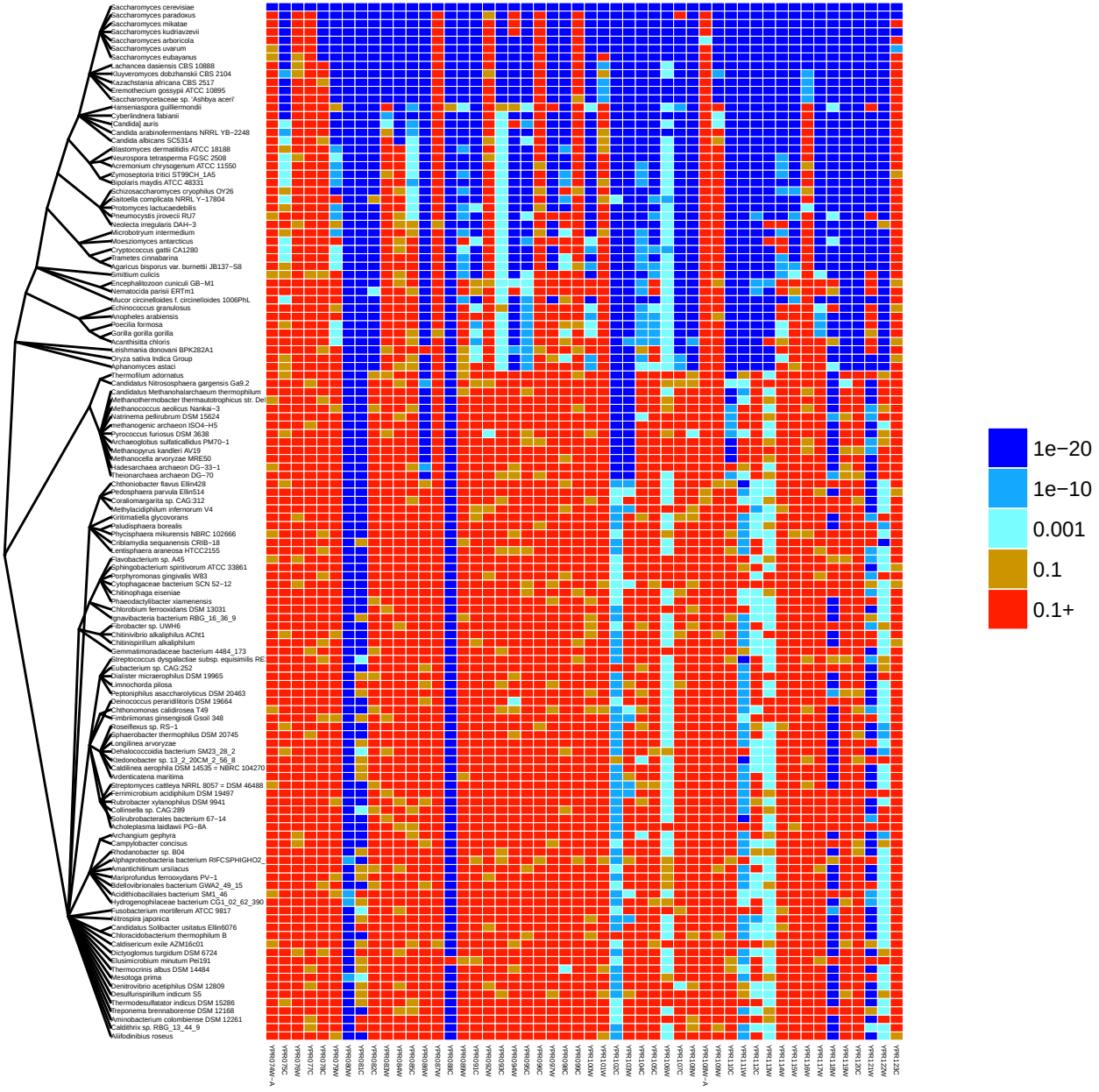

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrosodinubius roseus
YPL121C
YPL123C
YPL123W
YPL124W
YPL125W
YPL126C
YPL128C
YPL129W
YPL130W
YPL131W
YPL132W
YPL133C
YPL134C
YPL135C−A
YPL135W
YPL136W
YPL137C
YPL138C
YPL139C
YPL140C
YPL141C
YPL142C
YPL143W
YPL144W
YPL145C
YPL146C
YPL147W
YPL148C
YPL149W
YPL150W
YPL151C
YPL152W
YPL152W−A
YPL153C
YPL154C
YPL155C
YPL156C
YPL157W
YPL158C
YPL159C
YPL160W
YPL161C
YPL162C
YPL163C
YPL164C
YPL165C
YPL166W
YPL167C
YPL168W
1e−20
1e−10
0.001
0.1
0.1+

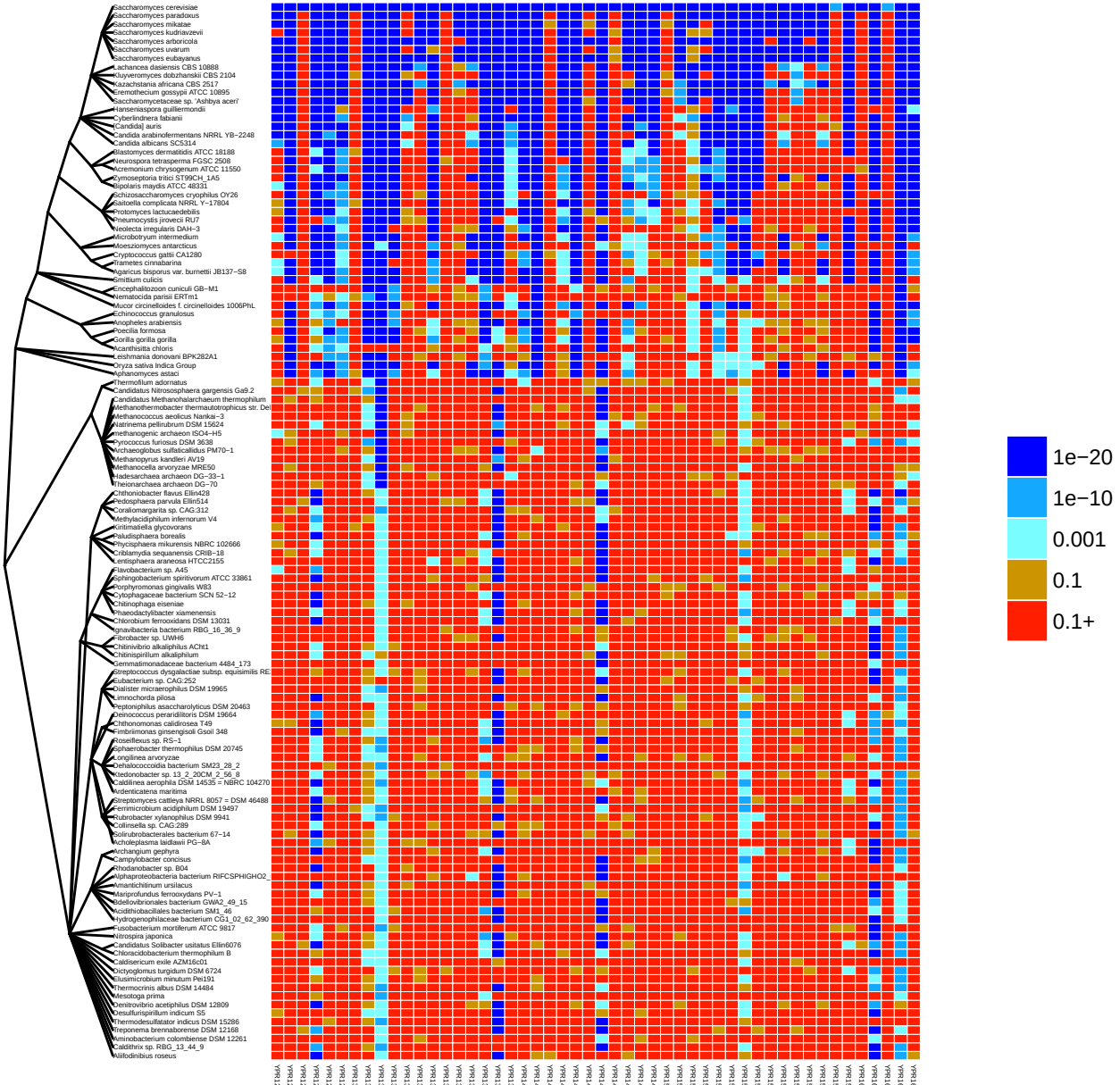

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermoflium adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycnisphaera mikurensis NBRC 102666
Cribilamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eisseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursiacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserucum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
YPL164C
YPL170W
YPL171C
YPL172C
YPL174C
YPL175W
YPL176C
YPL177C
YPL178W
YPL179W
YPL180W
YPL181W
YPL182C
YPL183C
YPL183W−A
YPL184C
YPL185W
YPL186C
YPL187W
YPL188W
YPL189C−A
YPL189W
YPL190C
YPL191C
YPL192C
YPL193W
YPL194W
YPL195W
YPL196W
YPL197C
YPL198W
YPL199C
YPL200W
YPL201C
YPL202C
YPL203W
YPL204W
YPL205C
YPL206C
YPL207W
YPL208W
YPL209C
YPL210C
YPL211W
YPL212C
YPL213W
YPL214C
YPL215W
YPL216W
1e−20
1e−10
0.001
0.1
0.1+

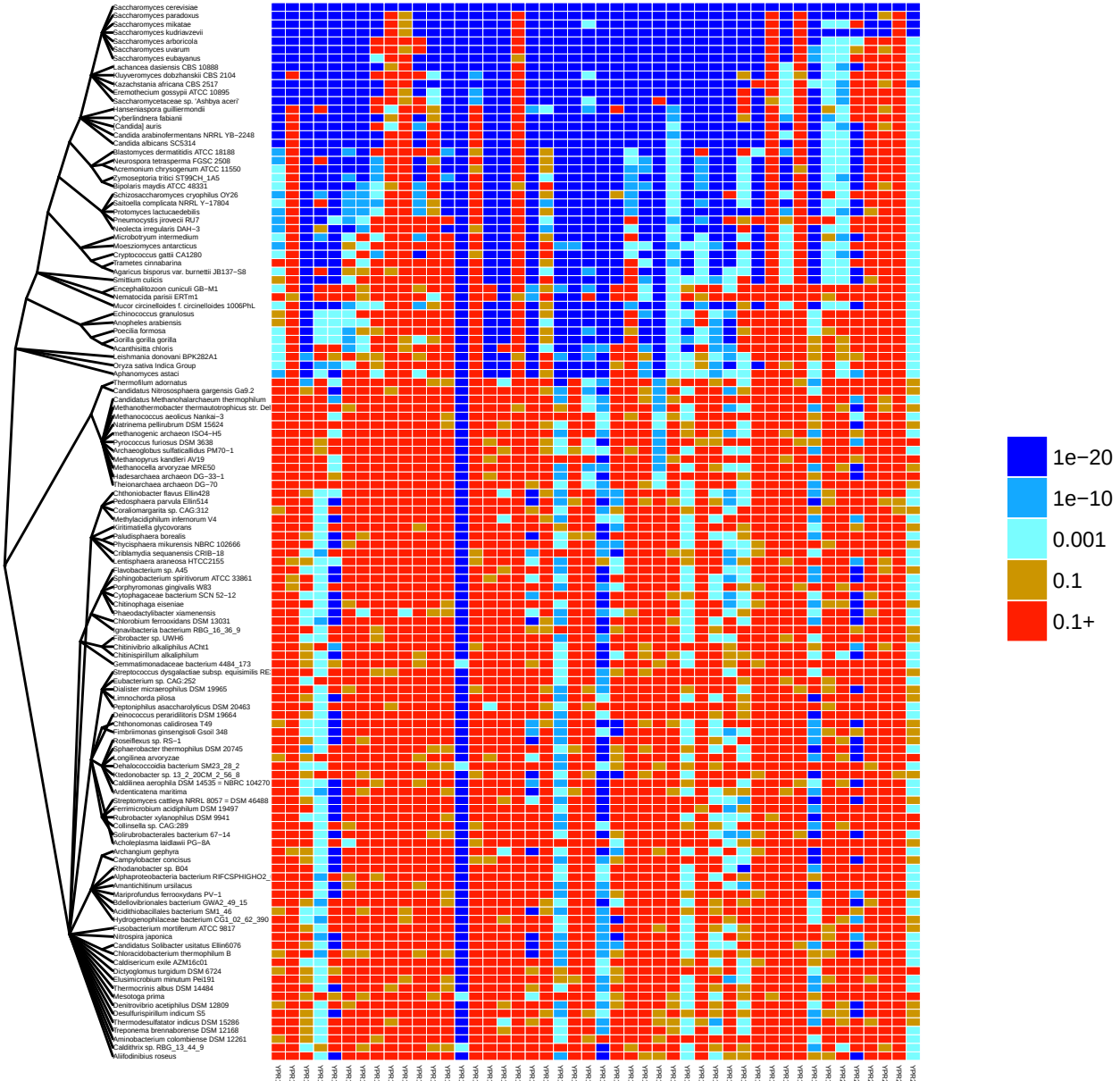

Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Vuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YPL217C
YPL218W
YPL219W
YPL220W
YPL221W
YPL222C−A
YPL222C
YPL223C
YPL224C
YPL225W
YPL226W
YPL227C
YPL228W
YPL229W
YPL230W
YPL231W
YPL232W
YPL233W
YPL234C
YPL235W
YPL236C
YPL237W
YPL238C
YPL239W
YPL240C
YPL241C
YPL242C
YPL243W
YPL244C
YPL245W
YPL246C
YPL247C
YPL248C
YPL249C
YPL249C−A
YPL250C
YPL250W−A
YPL251W
YPL252C
YPL253C
YPL254W
YPL255W
YPL256C
YPL257W
YPL257W−A
YPL257W−B
YPL258C
YPL259C
YPL260W
YPL261C
1e−20
1e−10
0.001
0.1
0.1+


Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Bipolaris maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Koeszóomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. De
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Phycisphaera mikurensis NBRC 102666
Cribriamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichilinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserricum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
YPA_283_N
YPA_283_C
YPA_283_C
YPA_283_W
YPA_283_W
YPA_283_W
YPA_283_W
YPA_270_W
YPA_272_C
YPA_272_W
YPA_272_W
YPA_272_W
YPA_272_C
YPA_272_C
YPA_272_C
YPA_283_W
YPA_283_C
YPA_283_C
YPA_283_C
YPA_283_W-A
YPA_283_W-B
YPA_003_W
YPA_003_C-A
YPA_003_N
YPA_003_C
YPA_003_C
YPA_003_C
YPA_003_C
YPA_003_C
YPA_003_W
YPA_003_W
YPA_003_W
YPA_003_C
YPA_003_C-A
YPA_003_C
YPA_003_C
YPA_003_N
YPA_003_C
YPA_003_C
YPA_003_C
YPA_003_C
YPA_003_W-A
YPA_003_C
YPA_003_W
YPA_003_W
YPA_003_W
YPA_003_W
YPA_003_C
YPA_003_C
YPA_003_C
YPA_003_C
YPA_003_W
1e−20
1e−10
0.001
0.1
0.1+


Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Corallomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Physiosphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. AA5
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Xiezonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldisericum exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Caldithrix sp. RBG_13_44_9
Nitrofodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+


1e−20
1e−10
0.001
0.1
0.1+


Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Malassezia pachydermatis CBS 1879
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Moesziomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoha larchaeum thermophilum
Methanothermobacter thermautotrophicus str. Delta H
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthonioba cter flavus Ellin428
Pedosphaera parvula Ellin514
Coralloma rgarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatella glycovorans
Paludisphaera borealis
Pirellula staleyi DSM 12132
Pirellula sp. CA1
Pirellula sp. CA2
Pirellula sp. CA3
Pirellula sp. CA4
Pirellula sp. CA5
Pirellula sp. CA6
Pirellula sp. CA7
Pirellula sp. CA8
Pirellula sp. CA9
Pirellula sp. CA10
Pirellula sp. CA11
Pirellula sp. CA12
Pirellula sp. CA13
Pirellula sp.


Saccharomyces cerevisiae
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces kudriavzevii
Saccharomyces arboricola
Saccharomyces uvarum
Saccharomyces eubayanus
Lachancea dasiensis CBS 10888
Kuyveromyces dobzhanskii CBS 2104
Kazachstania africana CBS 2517
Eremothecium gossypii ATCC 10895
Saccharomycetaceae sp. 'Ashbya aceri'
Hanseniaspora guilliermondii
Cyberlindnera fabianii
Candida] auris
Candida arabinofermentans NRRL YB−2248
Candida albicans SC5314
Blastomyces dermatitidis ATCC 18188
Neurospora tetrasperma FGSC 2508
Acremonium chrysogenum ATCC 11550
Zymoseptoria tritici ST99CH_1A5
Ustilago maydis ATCC 48331
Schizosaccharomyces cryophilus OY26
Saitoella complicata NRRL Y−17804
Protomyces lactucaedebilis
Pneumocystis jirovecii RU7
Neolecta irregularis DAH−3
Microbotryum intermedium
Meeszomyces antarcticus
Cryptococcus gattii CA1280
Trametes cinnabarina
Agaricus bisporus var. burnettii JB137−S8
Smittium culicis
Encephalitozoon cuniculi GB−M1
Nematocida parisii ERTm1
Mucor circinelloides f. circinelloides 1006PhL
Echinococcus granulosus
Anopheles arabiensis
Poecilia formosa
Gorilla gorilla gorilla
Acanthisitta chloris
Leishmania donovani BPK282A1
Oryza sativa Indica Group
Aphanomyces astaci
Thermofilum adornatus
Candidatus Nitrososphaera gargensis Ga9.2
Candidatus Methanoharlarchaeum thermophilum
Methanothermobacter thermautotrophicus str. Del
Methanococcus aeolicus Nankai−3
Natrinema pellirubrum DSM 15624
Methanogenic archaeon ISO4−H5
Pyrococcus furiosus DSM 3638
Archaeoglobus sulfaticallidus PM70−1
Methanosyrus kandleri AV19
Methanocella arvoryzae MRE50
Hadesarchaea archaeon DG−33−1
Theionarchaea archaeon DG−70
Chthoniobacter flavus Ellin428
Pedosphaera parvula Ellin514
Coraliomargarita sp. CAG:312
Methylacidiphilum infernorum V4
Giritimatiella glycovorans
Paludisphaera borealis
Pycsiphaera mikurensis NBRC 102666
Criblamydia sequanensis CRIB−18
Lentisphaera araneosa HTCC2155
Flavobacterium sp. A45
Sphingobacterium spiritivorum ATCC 33861
Porphyromonas gingivalis W83
Cytophagaceae bacterium SCN 52−12
Chitinophaga eiseniae
Phaeodactylibacter xiamenensis
Chlorobium ferrooxidans DSM 13031
Ignavibacteria bacterium RBG_16_36_9
Fibrobacter sp. UWH6
Chitinivibrio alkaliphilus ACht1
Chitinispirillum alkaliphilum
Gemmatimonadaceae bacterium 4484_173
Streptococcus dysgalactiae subsp. equisimilis RE
Eubacterium sp. CAG:252
Dialister micraerophilus DSM 19965
Limnochorda pilosa
Peptoniphilus asaccharolyticus DSM 20463
Deinococcus peraridilitoris DSM 19664
Chthonomonas calidirosea T49
Fimbriimonas ginsengisoli Gsoil 348
Roseiflexus sp. RS−1
Sphaerobacter thermophilus DSM 20745
Longilinea arvoryzae
Dehalococcoidia bacterium SM23_28_2
Ktedonobacter sp. 13_2_20CM_2_56_8
Caldilinea aerophila DSM 14535 = NBRC 104270
Ardenticatena maritima
Streptomyces cattleya NRRL 8057 = DSM 46488
Ferrimicrobium acidiphilum DSM 19497
Rubrobacter xylanophilus DSM 9941
Collinsella sp. CAG:289
Solirubrobacterales bacterium 67−14
Acholeplasma laidlawii PG−8A
Archangium gephyra
Campylobacter concisus
Rhodanobacter sp. B04
Alphaproteobacteria bacterium RIFCSPHIGHO2_
Amantichitinum ursilacus
Mariprofundus ferrooxydans PV−1
Bdellovibrionales bacterium GWA2_49_15
Acidithiobacillales bacterium SM1_46
Hydrogenophilaceae bacterium CG1_02_62_390
Fusobacterium mortiferum ATCC 9817
Nitrospira japonica
Candidatus Solibacter usitatus Ellin6076
Chloracidobacterium thermophilum B
Caldiserium exile AZM16c01
Dictyoglomus turgidum DSM 6724
Elusimicrobium minutum Pei191
Thermocrinis albus DSM 14484
Mesotoga prima
Denitrovibrio acetiphilus DSM 12809
Desulfurispirillum indicum S5
Thermodesulfatator indicus DSM 15286
Treponema brennaborense DSM 12168
Aminobacterium colombiense DSM 12261
Calditrichs sp. RBG_13_44_9
Niiifodinibius roseus
1e−20
1e−10
0.001
0.1
0.1+