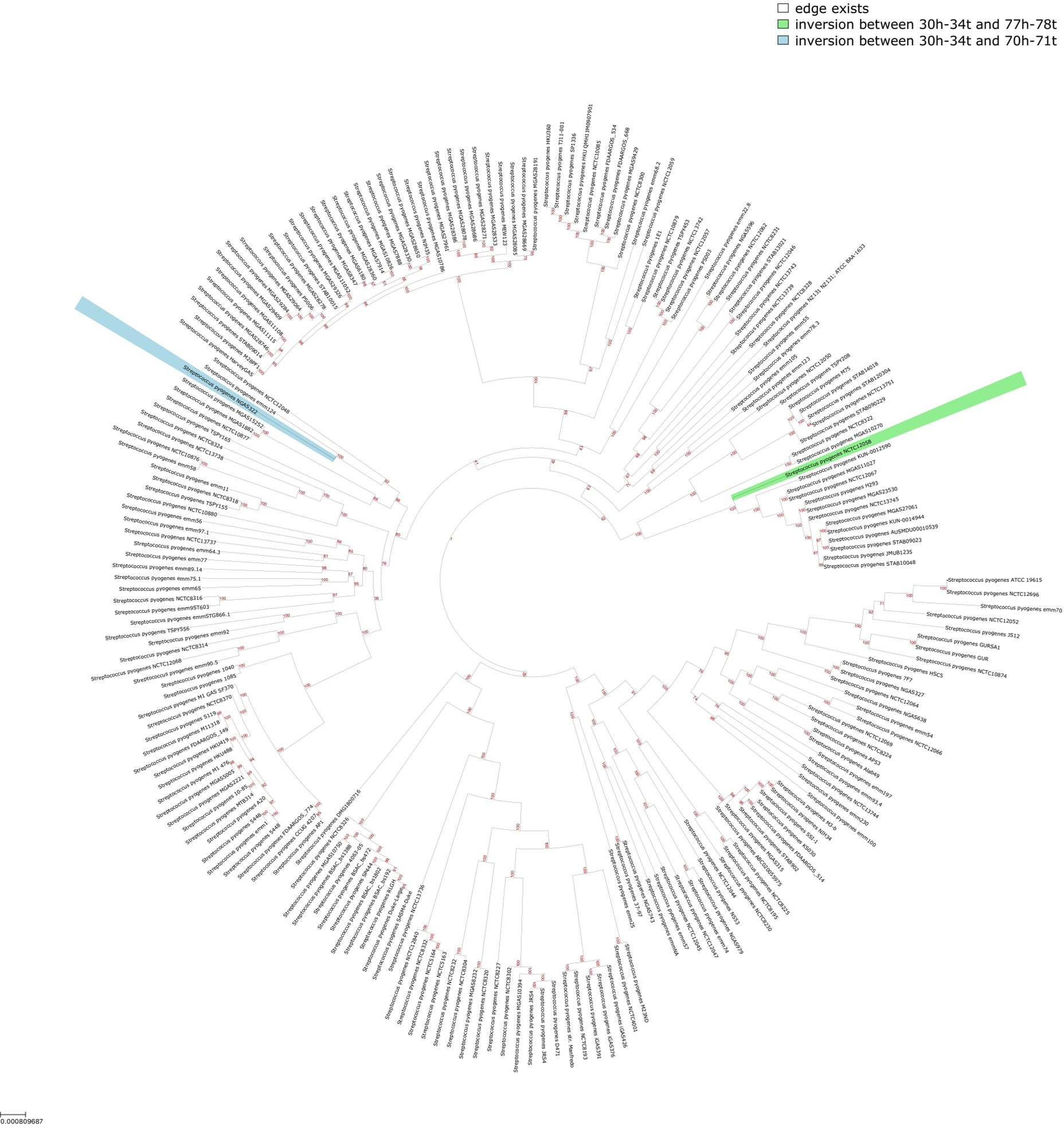
edge exists
inversion between 30h-34t and 77h-78t
inversion between 30h-34t and 70h-71t
Streptococcus pyogenes ATCC 19615
Streptococcus pyogenes NCTC12696
Streptococcus pyogenes emm70
Streptococcus pyogenes NCTC12052
Streptococcus pyogenes JS12
Streptococcus pyogenes GURSA1
Streptococcus pyogenes GUR
Streptococcus pyogenes NCTC10874
Streptococcus pyogenes HSC5
Streptococcus pyogenes 7F7
Streptococcus pyogenes NGAS327
Streptococcus pyogenes NCTC12064
Streptococcus pyogenes NGAS638
Streptococcus pyogenes emm54
Streptococcus pyogenes NCTC12066
Streptococcus pyogenes NCTC12069
Streptococcus pyogenes NCTC8224
Streptococcus pyogenes AP53
Streptococcus pyogenes Alab49
Streptococcus pyogenes emm197
Streptococcus pyogenes emm83.4
Streptococcus pyogenes NCTC13744
Streptococcus pyogenes emm230
Streptococcus pyogenes emm100
Streptococcus pyogenes M3-b
Streptococcus pyogenes NIH34
Streptococcus pyogenes SSI-1
Streptococcus pyogenes KS030
Streptococcus pyogenes FDAARGOS_514
Streptococcus pyogenes STAB902
Streptococcus pyogenes NGAS315
Streptococcus pyogenes ABCD00055975
Streptococcus pyogenes NCTC8195
Streptococcus pyogenes NCTC8225
Streptococcus pyogenes NCTC8230
Streptococcus pyogenes NGAS979
Streptococcus pyogenes emm74
Streptococcus pyogenes NCTC12047
Streptococcus pyogenes NCTC12045
Streptococcus pyogenes NCTC12044
Streptococcus pyogenes NS53
Streptococcus pyogenes emm57
Streptococcus pyogenes emmA
Streptococcus pyogenes NGAS943
Streptococcus pyogenes 37-97
Streptococcus pyogenes emm25
Streptococcus pyogenes M23ND
Streptococcus pyogenes NCTC4001
Streptococcus pyogenes IGAS426
Streptococcus pyogenes IGAS376
Streptococcus pyogenes NCTC3193
Streptococcus pyogenes IGAS391
Streptococcus pyogenes str. Manfredo
Streptococcus pyogenes D471
Streptococcus pyogenes 3R54
Streptococcus pyogenes JR54
Streptococcus pyogenes NGAS10394
Streptococcus pyogenes NCTC8302
Streptococcus pyogenes NCTC8227
Streptococcus pyogenes NCTC8320
Streptococcus pyogenes NGAS8223
Streptococcus pyogenes NCTC8304
Streptococcus pyogenes NCTC8232
Streptococcus pyogenes NCTC3163
Streptococcus pyogenes NCTC5164
Streptococcus pyogenes NCTC8333
Streptococcus pyogenes NCTC12840
Streptococcus pyogenes NCTC13726
Streptococcus pyogenes SA5H4-Duke
Streptococcus pyogenes Duke-Large
Streptococcus pyogenes KLG14
Streptococcus pyogenes SP444
Streptococcus pyogenes BSAC_bs472
Streptococcus pyogenes BSAC_bs1802
Streptococcus pyogenes BSAC_bs192
Streptococcus pyogenes 4083-05
Streptococcus pyogenes BSAC_bs1388
Streptococcus pyogenes MGAS10750
Streptococcus pyogenes NCTC8326
Streptococcus pyogenes DMG1800716
Streptococcus pyogenes AP1
Streptococcus pyogenes CCUG 42074
Streptococcus pyogenes FDAARGOS_774
Streptococcus pyogenes 5448
Streptococcus pyogenes emm1
Streptococcus pyogenes 5448
Streptococcus pyogenes A20
Streptococcus pyogenes MTB314
Streptococcus pyogenes 10-85
Streptococcus pyogenes MGAS2221
Streptococcus pyogenes MGAS005
Streptococcus pyogenes M1 476
Streptococcus pyogenes HKU488
Streptococcus pyogenes HKU419
Streptococcus pyogenes FDAARGOS_149
Streptococcus pyogenes M11318
Streptococcus pyogenes S119
Streptococcus pyogenes NCTC8370
Streptococcus pyogenes M1 GAS SF370
Streptococcus pyogenes 1085
Streptococcus pyogenes 1040
Streptococcus pyogenes emm90.5
Streptococcus pyogenes NCTC12068
Streptococcus pyogenes NCTC8314
Streptococcus pyogenes emm92
Streptococcus pyogenes TSPY556
Streptococcus pyogenes emmSTG866.1
Streptococcus pyogenes emm9ST603
Streptococcus pyogenes NCTC8316
Streptococcus pyogenes emm65
Streptococcus pyogenes emm75.1
Streptococcus pyogenes emm89.14
Streptococcus pyogenes emm77
Streptococcus pyogenes emm64.3
Streptococcus pyogenes NCTC13737
Streptococcus pyogenes emm97.1
Streptococcus pyogenes emm56
Streptococcus pyogenes NCTC10880
Streptococcus pyogenes TSPy155
Streptococcus pyogenes NCTC8318
Streptococcus pyogenes emm11
Streptococcus pyogenes emm58
Streptococcus pyogenes NCTC13738
Streptococcus pyogenes NCTC8324
Streptococcus pyogenes NCTC10876
Streptococcus pyogenes TSPy165
Streptococcus pyogenes NCTC10877
Streptococcus pyogenes MGAS1882
Streptococcus pyogenes MGAS15252
Streptococcus pyogenes NGAS3222
Streptococcus pyogenes emm124
Streptococcus pyogenes NCTC12048
Streptococcus pyogenes HarveyGAS
Streptococcus pyogenes M28P1
Streptococcus pyogenes STAB00014
Streptococcus pyogenes MGAS28746
Streptococcus pyogenes MGAS11115
Streptococcus pyogenes MGAS11108
Streptococcus pyogenes MGAS20409
Streptococcus pyogenes MGAS20284
Streptococcus pyogenes MGAS20064
Streptococcus pyogenes PS006
Streptococcus pyogenes MGAS28878
Streptococcus pyogenes STAB10015
Streptococcus pyogenes MGAS29326
Streptococcus pyogenes MGAS11052
Streptococcus pyogenes MGAS8347
Streptococcus pyogenes MGAS6480
Streptococcus pyogenes MGAS23360
Streptococcus pyogenes MGAS7914
Streptococcus pyogenes MGAS10826
Streptococcus pyogenes MGAS7880
Streptococcus pyogenes MGAS28930
Streptococcus pyogenes MGAS28850
Streptococcus pyogenes NIH35
Streptococcus pyogenes MGAS10786
Streptococcus pyogenes MGAS2961
Streptococcus pyogenes MGAS28386
Streptococcus pyogenes MGAS28878
Streptococcus pyogenes MGAS28686
Streptococcus pyogenes MGAS28271
Streptococcus pyogenes MGAS28553
Streptococcus pyogenes MGAS28085
Streptococcus pyogenes MGAS28699
Streptococcus pyogenes MGAS28191
Streptococcus pyogenes HKU360
Streptococcus pyogenes T311-001
Streptococcus pyogenes SP1336
Streptococcus pyogenes HKU QMH1M090901
Streptococcus pyogenes NCTC10085
Streptococcus pyogenes FDAARGOS_534
Streptococcus pyogenes FDAARGOS_668
Streptococcus pyogenes MGAS9429
Streptococcus pyogenes NCTC8320
Streptococcus pyogenes emm68.2
Streptococcus pyogenes NCTC12059
Streptococcus pyogenes 1E1
Streptococcus pyogenes NCTC10879
Streptococcus pyogenes TSPY453
Streptococcus pyogenes NCTC13742
Streptococcus pyogenes NCTC12057
Streptococcus pyogenes PS003
Streptococcus pyogenes emm22.8
Streptococcus pyogenes NGAS596
Streptococcus pyogenes NCTC12062
Streptococcus pyogenes NCTC8231
Streptococcus pyogenes STAB13021
Streptococcus pyogenes NCTC12046
Streptococcus pyogenes NCTC13743
Streptococcus pyogenes NCTC13739
Streptococcus pyogenes NCTC8328
Streptococcus pyogenes NZ131 NZ131; ATCC BAA-1633
Streptococcus pyogenes emm55
Streptococcus pyogenes emm78.3
Streptococcus pyogenes emm105
Streptococcus pyogenes emm123
Streptococcus pyogenes NCTC12050
Streptococcus pyogenes TSPY208
Streptococcus pyogenes M75
Streptococcus pyogenes STAB14018
Streptococcus pyogenes STAB120304
Streptococcus pyogenes NCTC13751
Streptococcus pyogenes STAB090229
Streptococcus pyogenes NCTC8322
Streptococcus pyogenes MGAS10270
Streptococcus pyogenes NCTC12058
Streptococcus pyogenes KUN-0012590
Streptococcus pyogenes MGAS11027
Streptococcus pyogenes NCTC12067
Streptococcus pyogenes H293
Streptococcus pyogenes MGAS23530
Streptococcus pyogenes NCTC13745
Streptococcus pyogenes MGAS27061
Streptococcus pyogenes KUN-0014944
Streptococcus pyogenes AUSMDU00010539
Streptococcus pyogenes STAB09023
Streptococcus pyogenes JMUB1235
Streptococcus pyogenes STAB10048
0.000809687