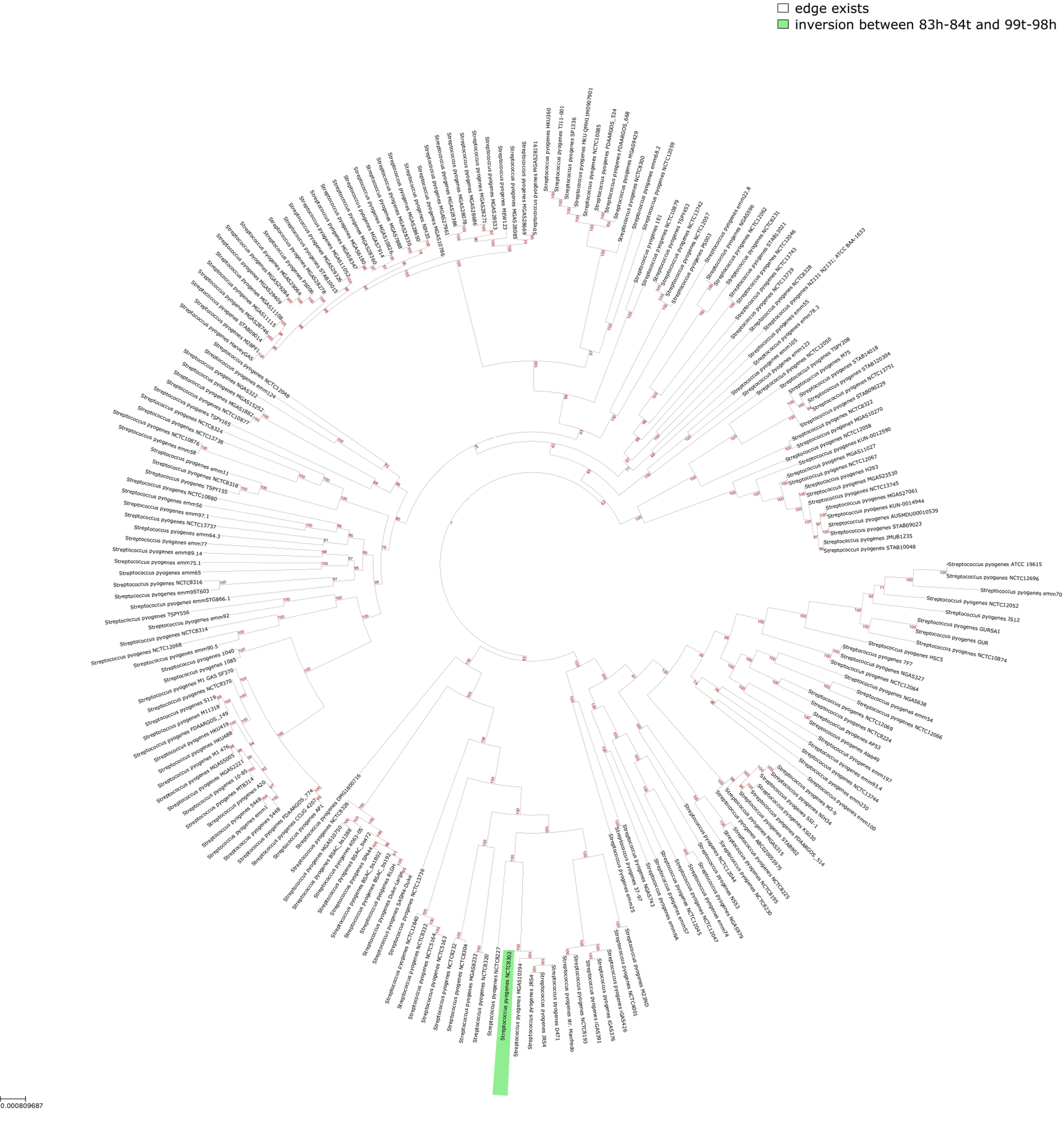
edge exists
inversion between 83h-84t and 99t-98h
Streptococcus pyogenes ATCC 19615
Streptococcus pyogenes NCTC12696
Streptococcus pyogenes emm70
Streptococcus pyogenes NCTC12052
Streptococcus pyogenes JS12
Streptococcus pyogenes GURSA1
Streptococcus pyogenes GUR
Streptococcus pyogenes NCTC10874
Streptococcus 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 APS3
Streptococcus pyogenes Alab49
Streptococcus pyogenes emm197
Streptococcus pyogenes emm93.4
Streptococcus pyogenes NCTC13744
Streptococcus pyogenes emm230
Streptococcus pyogenes emm100
Streptococcus pyogenes M3-b
Streptococcus pyogenes NIH34
Streptococcus pyogenes SSI-1
Streptococcus pyogenes K3030
Streptococcus pyogenes FDAARGOS_514
Streptococcus pyogenes STAB802
Streptococcus pyogenes NGAS315
Streptococcus pyogenes ABC02005975
Streptococcus pyogenes NCTC8225
Streptococcus pyogenes NCTC8195
Streptococcus pyogenes NCTC8230
Streptococcus pyogenes NS53
Streptococcus pyogenes NGAS979
Streptococcus pyogenes NCTC12044
Streptococcus pyogenes NCTC12045
Streptococcus pyogenes emm74
Streptococcus pyogenes NCTC12047
Streptococcus pyogenes emm57
Streptococcus pyogenes emmNA
Streptococcus pyogenes NGAS743
Streptococcus pyogenes 37-97
Streptococcus pyogenes emm25
Streptococcus pyogenes M23ND
Streptococcus pyogenes NCTC4001
Streptococcus pyogenes IGAS376
Streptococcus pyogenes IGAS391
Streptococcus pyogenes IGAS426
Streptococcus pyogenes NCTC8193
Streptococcus pyogenes str. Manfredo
Streptococcus pyogenes D471
Streptococcus pyogenes JRS4
Streptococcus pyogenes JRS4
Streptococcus pyogenes MGAS10394
Streptococcus pyogenes NCTC8302
Streptococcus pyogenes NCTC8227
Streptococcus pyogenes NCTC8320
Streptococcus pyogenes MGAS8232
Streptococcus pyogenes NCTC8304
Streptococcus pyogenes NCTC8232
Streptococcus pyogenes NCTC5163
Streptococcus pyogenes NCTC5164
Streptococcus pyogenes NCTC8332
Streptococcus pyogenes NCTC12840
Streptococcus pyogenes NCTC13736
Streptococcus pyogenes SASMA-Duke
Streptococcus pyogenes Duke-Large
Streptococcus pyogenes RLGH
Streptococcus pyogenes BSAC_bs472
Streptococcus pyogenes BSAC_bs1802
Streptococcus pyogenes 4065-05
Streptococcus pyogenes BSAC_bs1192
Streptococcus pyogenes SK444
Streptococcus pyogenes BSAC_bs1388
Streptococcus pyogenes MGAS10750
Streptococcus pyogenes NCTC8326
Streptococcus pyogenes DMG1800716
Streptococcus pyogenes CCUG 4207
Streptococcus pyogenes AP1
Streptococcus pyogenes FDAARGOS_774
Streptococcus pyogenes 5448
Streptococcus pyogenes emm1
Streptococcus pyogenes 5446
Streptococcus pyogenes MTB314
Streptococcus pyogenes A20
Streptococcus pyogenes 10-85
Streptococcus pyogenes MGAS2221
Streptococcus pyogenes MGAS5005
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 NCTC10876
Streptococcus pyogenes NCTC13738
Streptococcus pyogenes NCTC8324
Streptococcus pyogenes TSPY165
Streptococcus pyogenes NCTC10877
Streptococcus pyogenes MGAS1682
Streptococcus pyogenes MGAS1252
Streptococcus pyogenes NGAS322
Streptococcus pyogenes emm124
Streptococcus pyogenes NCTC12048
Streptococcus pyogenes HarveyGAS
Streptococcus pyogenes M28PF1
Streptococcus pyogenes STAB9014
Streptococcus pyogenes MGAS28746
Streptococcus pyogenes MGAS11115
Streptococcus pyogenes MGAS11108
Streptococcus pyogenes MGAS29409
Streptococcus pyogenes MGAS29326
Streptococcus pyogenes MGAS29064
Streptococcus pyogenes PS006
Streptococcus pyogenes MGAS28278
Streptococcus pyogenes STAB10015
Streptococcus pyogenes MGAS9326
Streptococcus pyogenes MGAS11052
Streptococcus pyogenes MGAS6347
Streptococcus pyogenes MGAS6180
Streptococcus pyogenes MGAS28560
Streptococcus pyogenes MGAS7914
Streptococcus pyogenes MGAS10026
Streptococcus pyogenes MGAS988
Streptococcus pyogenes MGAS8330
Streptococcus pyogenes MGAS28650
Streptococcus pyogenes NIH35
Streptococcus pyogenes MGAS10786
Streptococcus pyogenes MGAS7961
Streptococcus pyogenes MGAS28386
Streptococcus pyogenes MGAS28078
Streptococcus pyogenes MGAS28686
Streptococcus pyogenes MGAS28271
Streptococcus pyogenes MGAS28533
Streptococcus pyogenes MGAS28085
Streptococcus pyogenes MEW123
Streptococcus pyogenes MGAS28191
Streptococcus phylomes MGAS29869
Streptococcus pyogenes HKU360
Streptococcus pyogenes T311-001
Streptococcus pyogenes SP1336
Streptococcus pyogenes HKU QMH11H0907901
Streptococcus pyogenes NCTC10085
Streptococcus pyogenes FDAARGOS_534
Streptococcus pyogenes FDAARGOS_668
Streptococcus pyogenes MGAS9429
Streptococcus pyogenes NCTC8300
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 NGAS11027
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
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