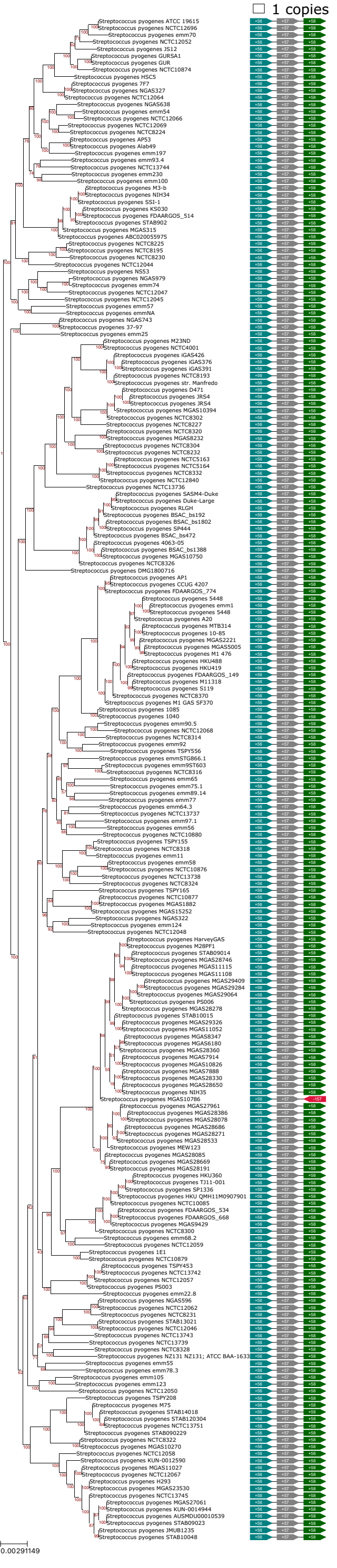
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Streptococcus pyogenes NCTC12696
Streptococcus pyogenes emm70
Streptococcus pyogenes NCTC12052
Streptococcus pyogenes JS12
Streptococcus pyogenes GURSA1
Streptococcus pyogenes GUR
Streptococcus pyogenes NCTC10874
Streptococcus pyogenes HSC5
Streptococcus 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 emm93.4
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 MGAS315
Streptococcus pyogenes ABC020055975
Streptococcus pyogenes NCTC8225
Streptococcus pyogenes NCTC8195
Streptococcus pyogenes NCTC8230
Streptococcus pyogenes NCTC12044
Streptococcus pyogenes NS53
Streptococcus pyogenes NGAS979
Streptococcus pyogenes emm74
Streptococcus pyogenes NCTC12047
Streptococcus pyogenes NCTC12045
Streptococcus pyogenes emm57
Streptococcus pyogenes emmNA
Streptococcus pyogenes NGAS743
Streptococcus pyogenes 37-97
Streptococcus pyogenes emm25
Streptococcus pyogenes M23ND
Streptococcus pyogenes NCTC4001
Streptococcus pyogenes iGAS426
Streptococcus pyogenes iGAS376
Streptococcus pyogenes iGAS391
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 SASM4-Duke
Streptococcus pyogenes Duke-Large
Streptococcus pyogenes RLGH
Streptococcus pyogenes BSAC_bs192
Streptococcus pyogenes BSAC_bs1802
Streptococcus pyogenes SP444
Streptococcus pyogenes BSAC_bs472
Streptococcus pyogenes 4063-05
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Streptococcus pyogenes HKU488
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Streptococcus pyogenes FDAARGOS_149
Streptococcus pyogenes M11318
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Streptococcus pyogenes M1 GAS SF370
Streptococcus pyogenes 1085
Streptococcus pyogenes 1040
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Streptococcus pyogenes NCTC8314
Streptococcus pyogenes emm92
Streptococcus pyogenes TSPY556
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Streptococcus pyogenes PS006
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Streptococcus pyogenes TJ11-001
Streptococcus pyogenes SP1336
Streptococcus pyogenes HKU QMH11M0907901
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Streptococcus pyogenes NCTC12059
Streptococcus pyogenes 1E1
Streptococcus pyogenes NCTC10879
Streptococcus pyogenes TSPY453
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Streptococcus pyogenes NCTC12057
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Streptococcus pyogenes emm105
Streptococcus pyogenes emm123
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Streptococcus pyogenes KUN-0014944
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Streptococcus pyogenes STAB09023
Streptococcus pyogenes JMUB1235
Streptococcus pyogenes STAB10048
+56
+57
+58
-157
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