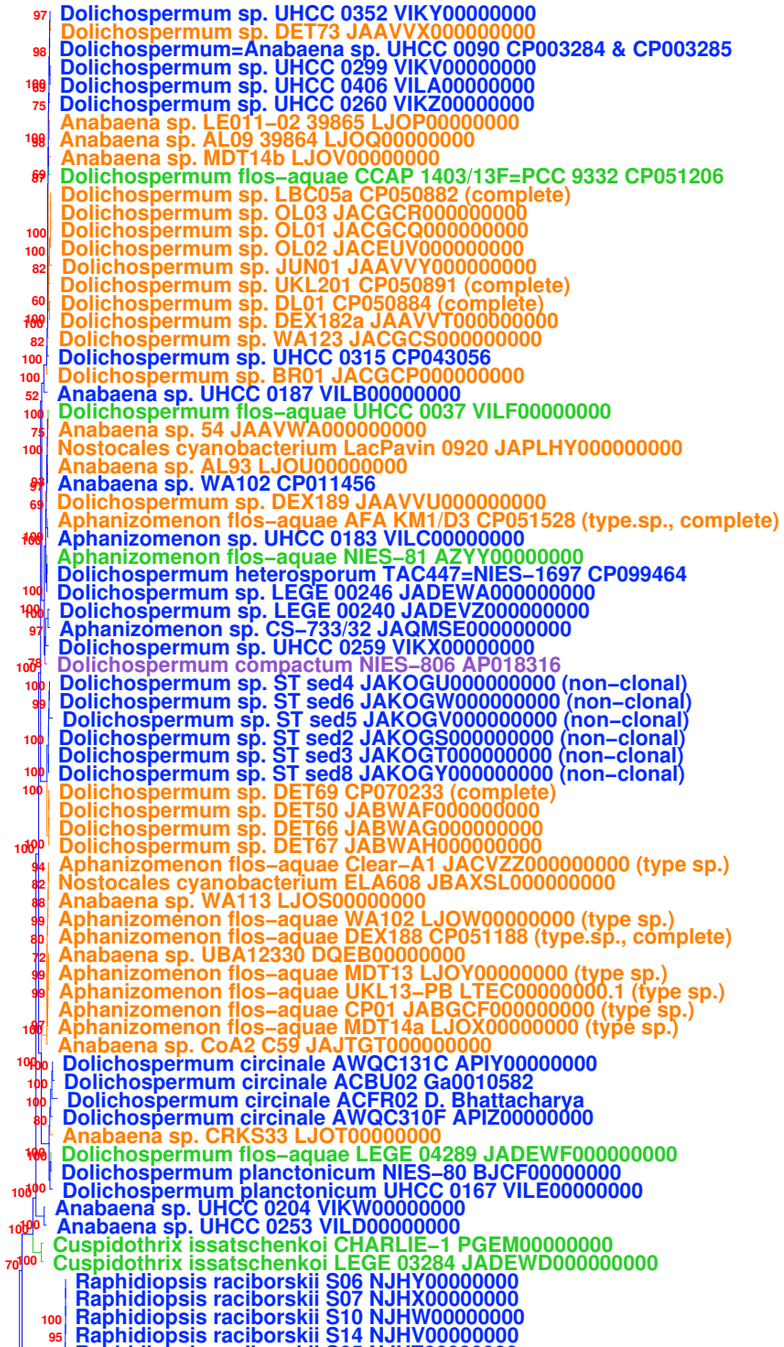
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Dolichospermum flos-aquae CCAP 1403/13F=PCC 9332 CP051206
Dolichospermum sp. LBC05a CP050882 (complete)
Dolichospermum sp. OL03 JACGCR000000000
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Dolichospermum sp. DEX182a JAAVVT000000000
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Nostocales cyanobacterium LacPavin 0920 JAPLHY000000000
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Aphanizomenon sp. UHCC 0183 VILC00000000
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Dolichospermum heterosporum TAC447=NIES-1697 CP099464
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Aphanizomenon sp. CS-733/32 JAQMSE000000000
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Dolichospermum sp. ST sed4 JAKOGU000000000 (non-clonal)
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Dolichospermum circinale ACFR02 D. Bhattacharya
Dolichospermum circinale AWQC310F APIZ00000000
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Dolichospermum flos-aquae LEGE 04289 JADEWF000000000
Dolichospermum planctonicum NIES-80 BJCF00000000
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Raphidiopsis raciborskii S06 NJHY00000000
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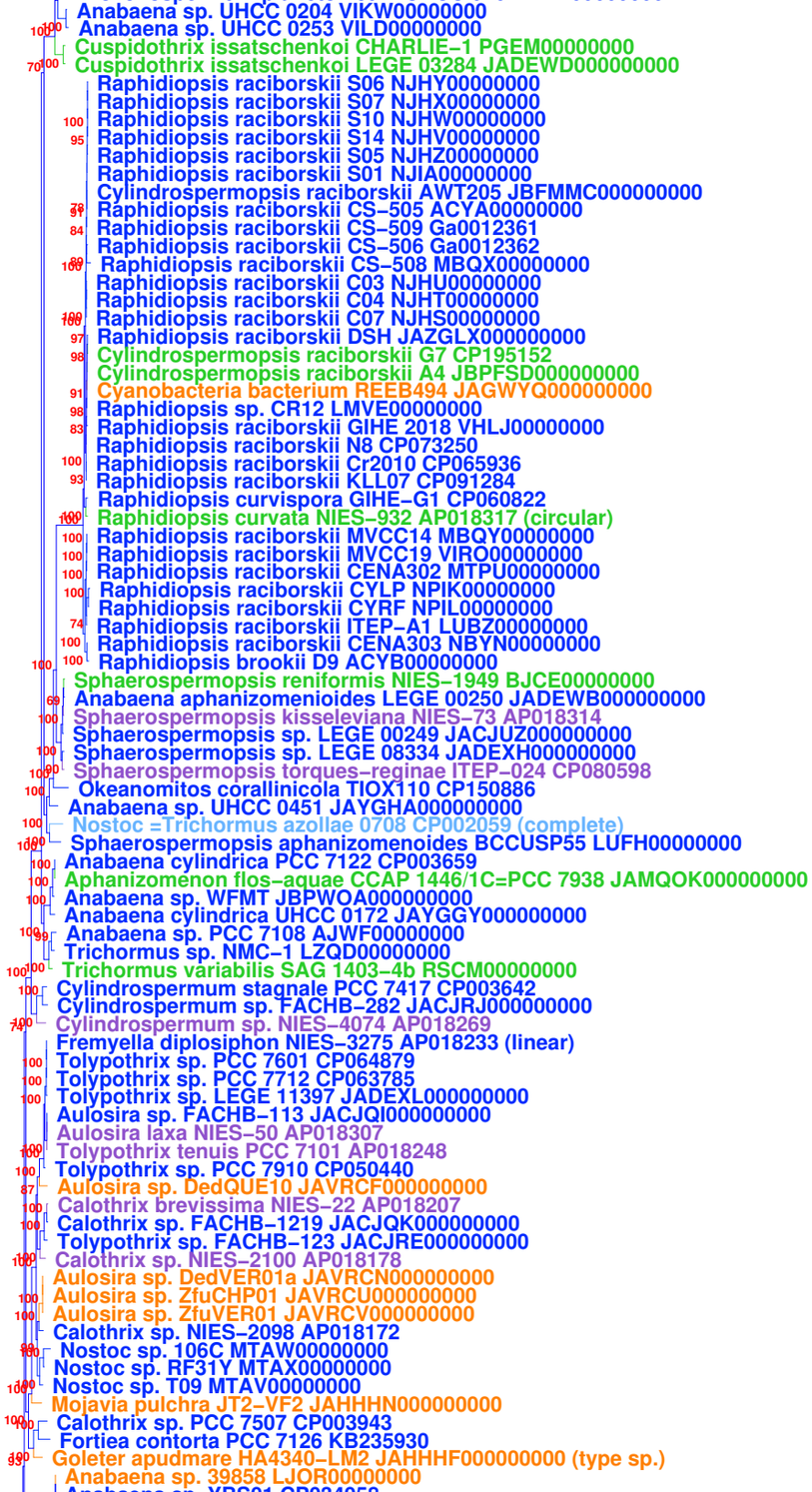
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Raphidiopsis raciborskii S06 NJHY00000000
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Cyanobacteria bacterium REEB494 JAGWYQ000000000
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Raphidiopsis curvispora GIHE−G1 CP060822
Raphidiopsis curvata NIES−932 AP018317 (circular)
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Sphaerospermopsis kisseleviana NIES−73 AP018314
Sphaerospermopsis sp. LEGE 00249 JACJUZ000000000
Sphaerospermopsis sp. LEGE 08334 JADEXH000000000
Sphaerospermopsis torques−reginae ITEP−024 CP080598
Okeanomitos corallinicola TIOX110 CP150886
Anabaena sp. UHCC 0451 JAYGHA000000000
Nostoc =Trichormus azollae 0708 CP002059 (complete)
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Anabaena sp. PCC 7108 AJWF00000000
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Trichormus variabilis SAG 1403−4b RSCM00000000
Cylindrospermum stagnale PCC 7417 CP003642
Cylindrospermum sp. FACHB−282 JACJRJ000000000
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Fremyella diplosiphon NIES−3275 AP018233 (linear)
Tolypothrix sp. PCC 7601 CP064879
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Aulosira sp. FACHB−113 JACJQI000000000
Aulosira laxa NIES−50 AP018307
Tolypothrix tenuis PCC 7101 AP018248
Tolypothrix sp. PCC 7910 CP050440
Aulosira sp. DedQUE10 JAVRCF000000000
Calothrix brevissima NIES−22 AP018207
Calothrix sp. FACHB−1219 JACJQK000000000
Tolypothrix sp. FACHB−123 JACJRE000000000
Calothrix sp. NIES−2100 AP018178
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Nostoc sp. T09 MTAV00000000
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Calothrix sp. PCC 7507 CP003943
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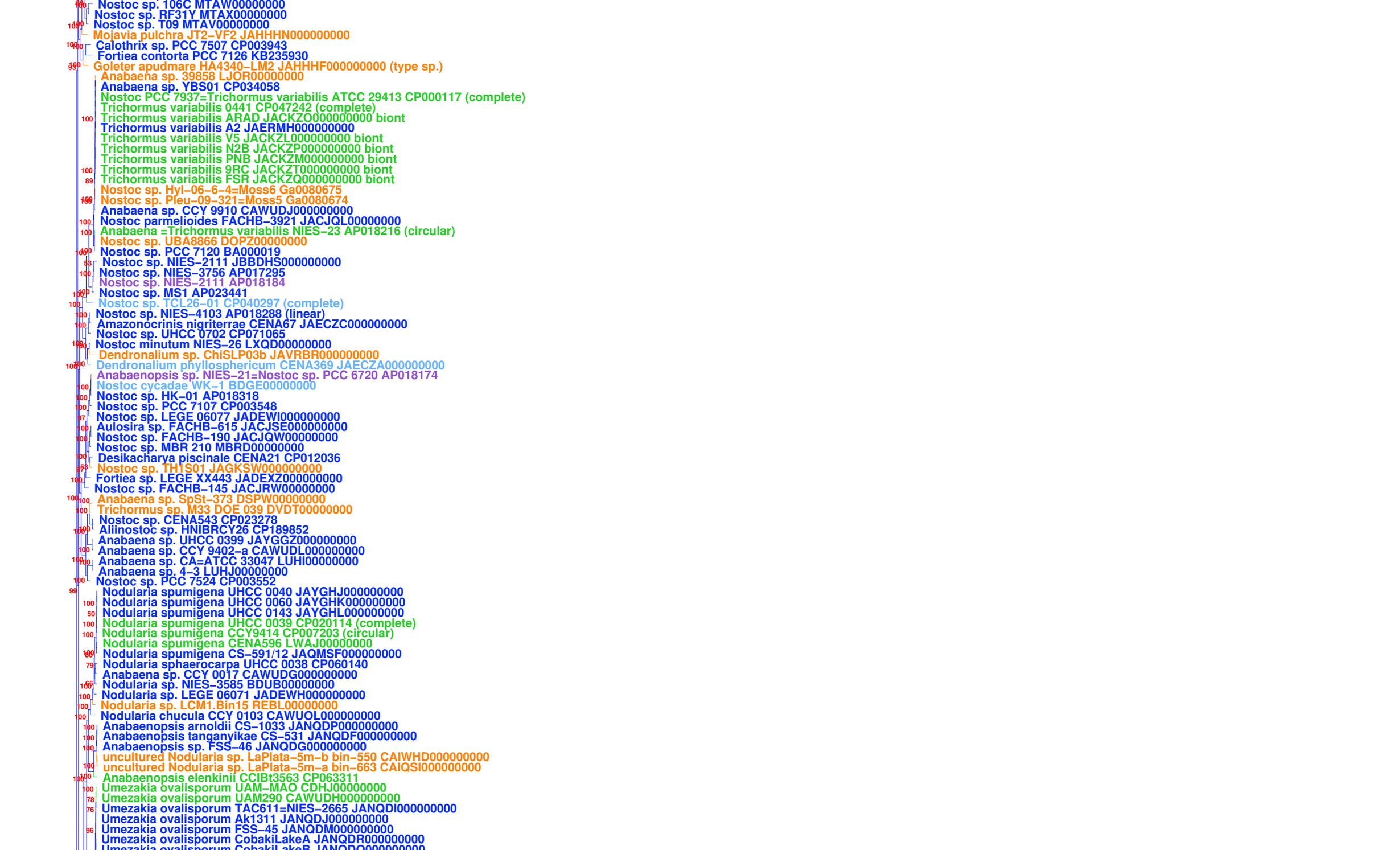
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Fortiea contorta PCC 7126 KB235930
Goleter apudmare HA4340-LM2 JAHHHF000000000 (type sp.)
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Anabaena sp. YBS01 CP034058
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Trichormus variabilis A2 JAERMH000000000
Trichormus variabilis V5 JACKZL000000000 biont
Trichormus variabilis N2B JACKZP000000000 biont
Trichormus variabilis PNB JACKZM000000000 biont
Trichormus variabilis 9RC JACKZT000000000 biont
Trichormus variabilis FSR JACKZQ000000000 biont
Nostoc sp. Hyl-06-6-4=Moss6 Ga0080675
Nostoc sp. Pleu-09-321=Moss5 Ga0080674
Anabaena sp. CCY 9910 CAWUDJ000000000
Nostoc parmelioides FACHB-3921 JACJQL00000000
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Nostoc sp. NIES-2111 AP018184
Nostoc sp. MS1 AP023441
Nostoc sp. TCL26-01 CP040297 (complete)
Nostoc sp. NIES-4103 AP018288 (linear)
Amazonocrinis nigriterrae CENA67 JAECZC000000000
Nostoc sp. UHCC 0702 CP071065
Nostoc minutum NIES-26 LXQD00000000
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Dendronalium phyllosphericum CENA369 JAECZA000000000
Anabaenopsis sp. NIES-21=Nostoc sp. PCC 6720 AP018174
Nostoc cycadae WK-1 BDGE00000000
Nostoc sp. HK-01 AP018318
Nostoc sp. PCC 7107 CP003548
Nostoc sp. LEGE 06077 JADEWI000000000
Aulosira sp. FACHB-615 JACJSE000000000
Nostoc sp. FACHB-190 JACJQW00000000
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Nostoc sp. TH1S01 JAGKSW000000000
Fortiea sp. LEGE XX443 JADEXZ000000000
Nostoc sp. FACHB-145 JACJRW00000000
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Trichormus sp. M33 DOE 039 DVDT00000000
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Nodularia spumigena UHCC 0040 JAYGHJ000000000
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Anabaenopsis arnoldii CS-1033 JANQDP000000000
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Umezakia ovalisporum UAM-MAO CDHJ00000000
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Umezakia ovalisporum CobakiLakeA JANQDR000000000
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Umezakia ovalisporum FSS-43 JANQDO000000000
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Halotia wernerae UHCC 0503 JAYGHB000000000
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Kaarinaea lacus PCC 9237 CAXOSP00000000
Nostoc sp. KVJ20 LSSA00000000
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Nostoc sp. FACHB-892 JACJTR00000000
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Nostoc linckia FACHB-391 JACJTE00000000
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Nostoc sp. UCD121 JACKZS000000000
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Nostoc sp. Peltigera membranacea 213 NOLI00000000
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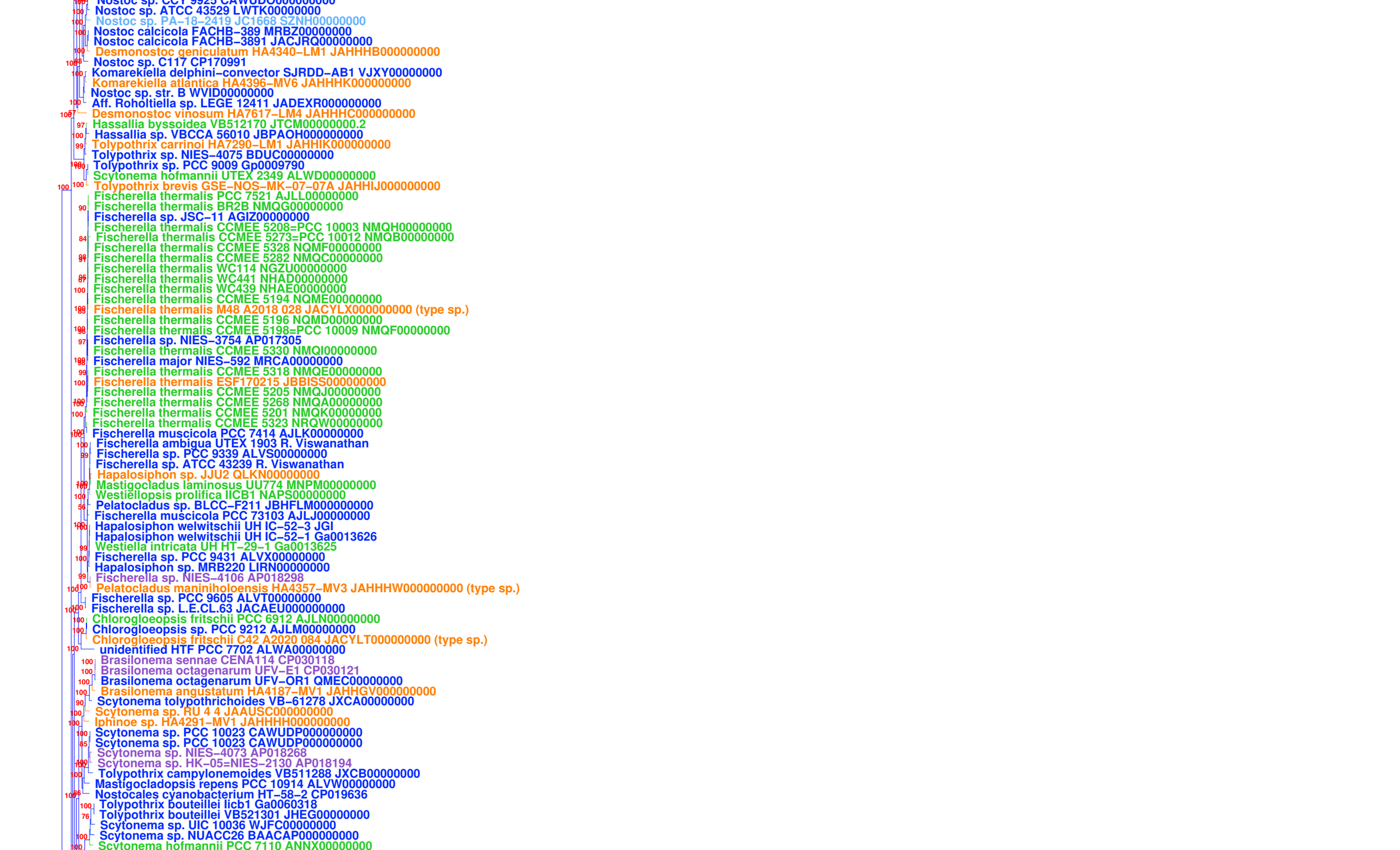
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Tolypothrix carrinoi HA7290-LM1 JAHHIK000000000
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Fischerella thermalis PCC 7521 AJLL00000000
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Fischerella thermalis CCMEE 5201 NMQK00000000
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Fischerella muscicola PCC 7414 AJLK00000000
Fischerella ambigua UTEX 1903 R. Viswanathan
Fischerella sp. PCC 9339 ALVS00000000
Fischerella sp. ATCC 43239 R. Viswanathan
Hapalosiphon sp. JJU2 QLKN00000000
Mastigocladus laminosus UU774 MNPM00000000
Westiellopsis prolifica IICB1 NAPS00000000
Pelatocladus sp. BLCC-F211 JBHFLM000000000
Fischerella muscicola PCC 73103 AJLJ00000000
Hapalosiphon welwitschii UH IC-52-3 JGI
Hapalosiphon welwitschii UH IC-52-1 Ga0013626
Westiella intricata UH HT-29-1 Ga0013625
Fischerella sp. PCC 9431 ALVX00000000
Hapalosiphon sp. MRB220 LIRN00000000
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Pelatocladus maniniholoensis HA4357-MV3 JAHHHW000000000 (type sp.)
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Chlorogloeopsis fritschii PCC 6912 AJLN00000000
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unidentified HTF PCC 7702 ALWA00000000
Brasilonema sennae CENA114 CP030118
Brasilonema octagenarum UFV-E1 CP030121
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Brasilonema angustatum HA4187-MV1 JAHHGV000000000
Scytonema tolypothrichoides VB-61278 JXCA00000000
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Tolypothrix campylonemoides VB511288 JXCB00000000
Mastigocladopsis repens PCC 10914 ALVW00000000
Nostocales cyanobacterium HT-58-2 CP019636
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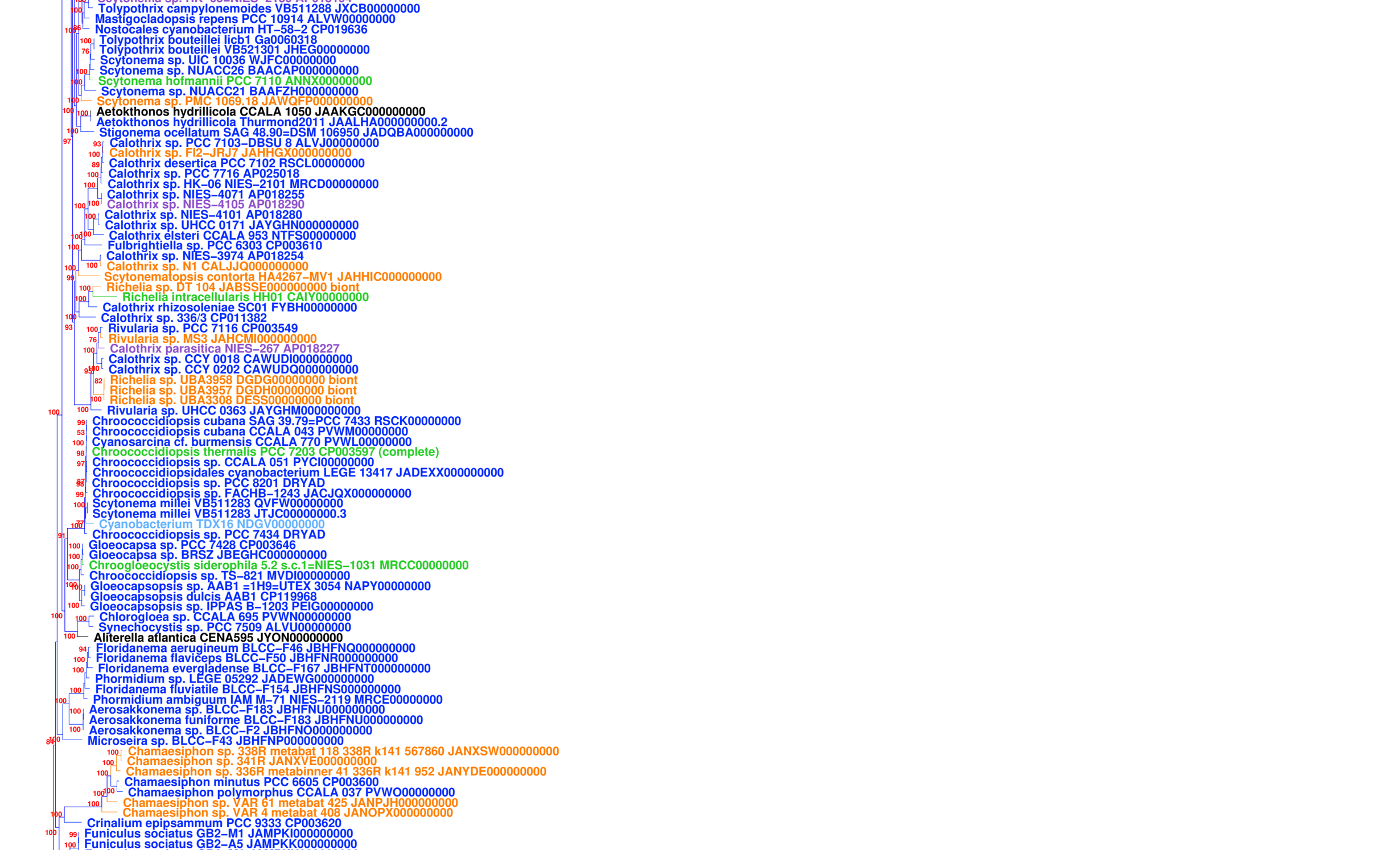
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Scytonematopsis contorta HA4267-MV1 JAHHIC000000000
Richelia sp. DT 104 JABSSE000000000 biont
Richelia intracellularis HH01 CAIY00000000
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Rivularia sp. PCC 7116 CP003549
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Richelia sp. UBA3958 DGDG00000000 biont
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Cyanobacterium TDX16 NDGV00000000
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Floridanema aerugineum BLCC-F46 JBHFNQ000000000
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Phormidium ambiguum IAM M-71 NIES-2119 MRCE00000000
Aerosakkonema sp. BLCC-F183 JBHFNU000000000
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Chamaesiphon sp. 336R metabinner 41 336R k141 952 JANYDE000000000
Chamaesiphon minutus PCC 6605 CP003600
Chamaesiphon polymorphus CCALA 037 PVWO00000000
Chamaesiphon sp. VAR 61 metabat 425 JANPJH000000000
Chamaesiphon sp. VAR 4 metabat 408 JANOPX000000000
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Funiculus sociatus GB2-M1 JAMPKI000000000
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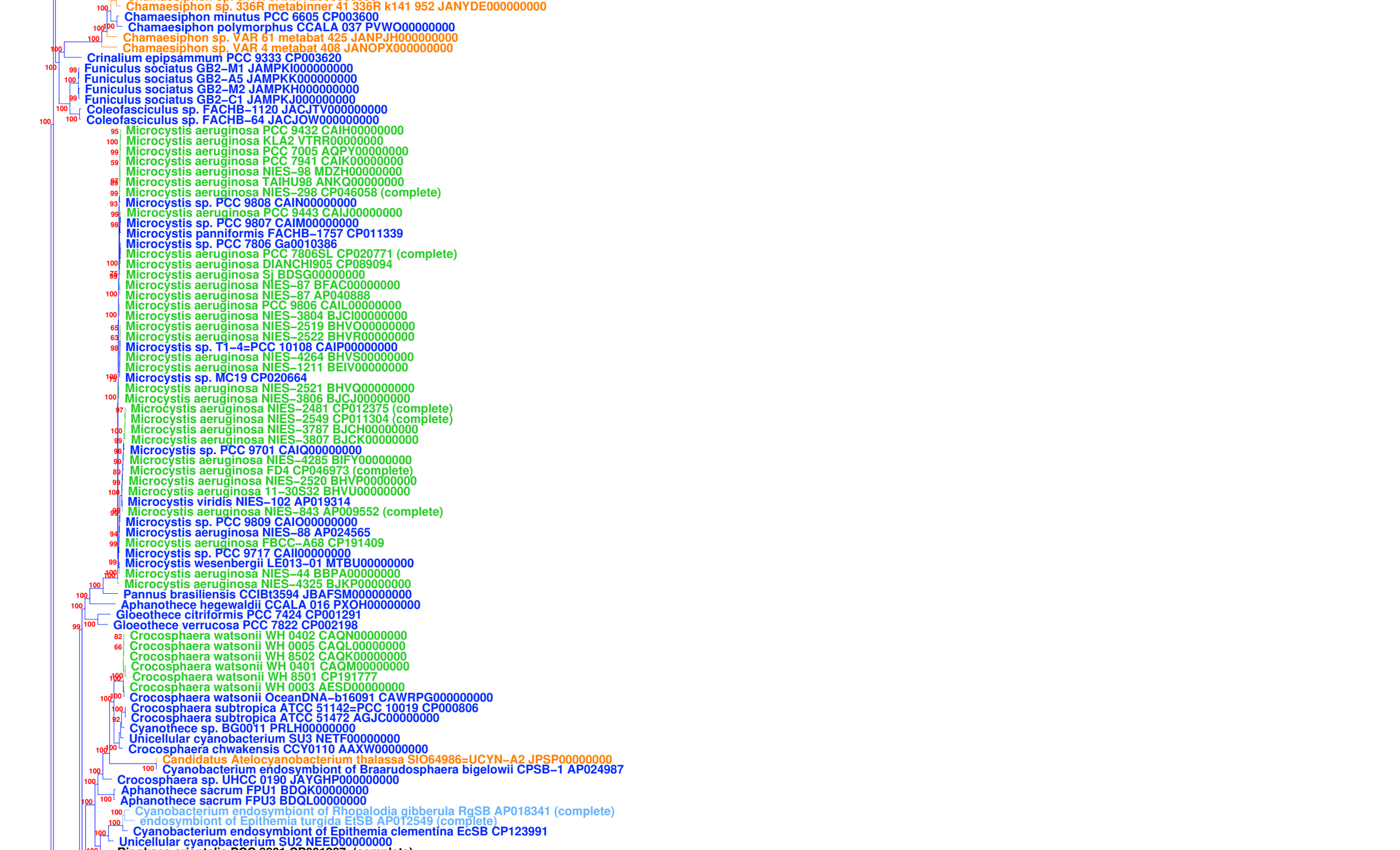
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Microcystis aeruginosa TAIHU98 ANKQ00000000
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Crocosphaera sp. UHCC 0190 JAYGHP000000000
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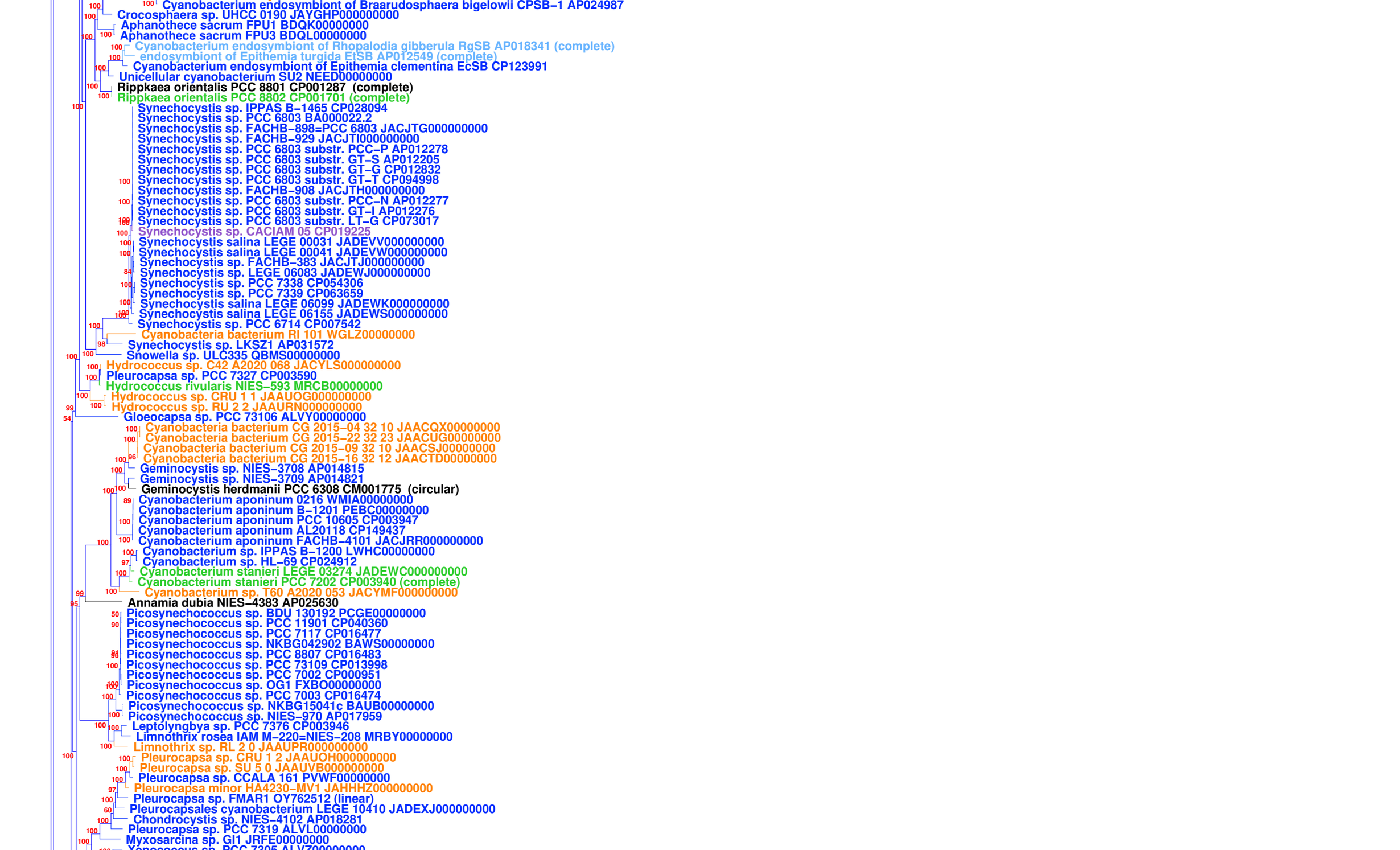
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Synechocystis salina LEGE 06099 JADEWK000000000
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Snowella sp. ULC335 QBMS00000000
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Picosynechococcus sp. BDU 130192 PCGE00000000
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Picosynechococcus sp. OG1 FXBO00000000
Picosynechococcus sp. PCC 7003 CP016474
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Leptolyngbya sp. PCC 7376 CP003946
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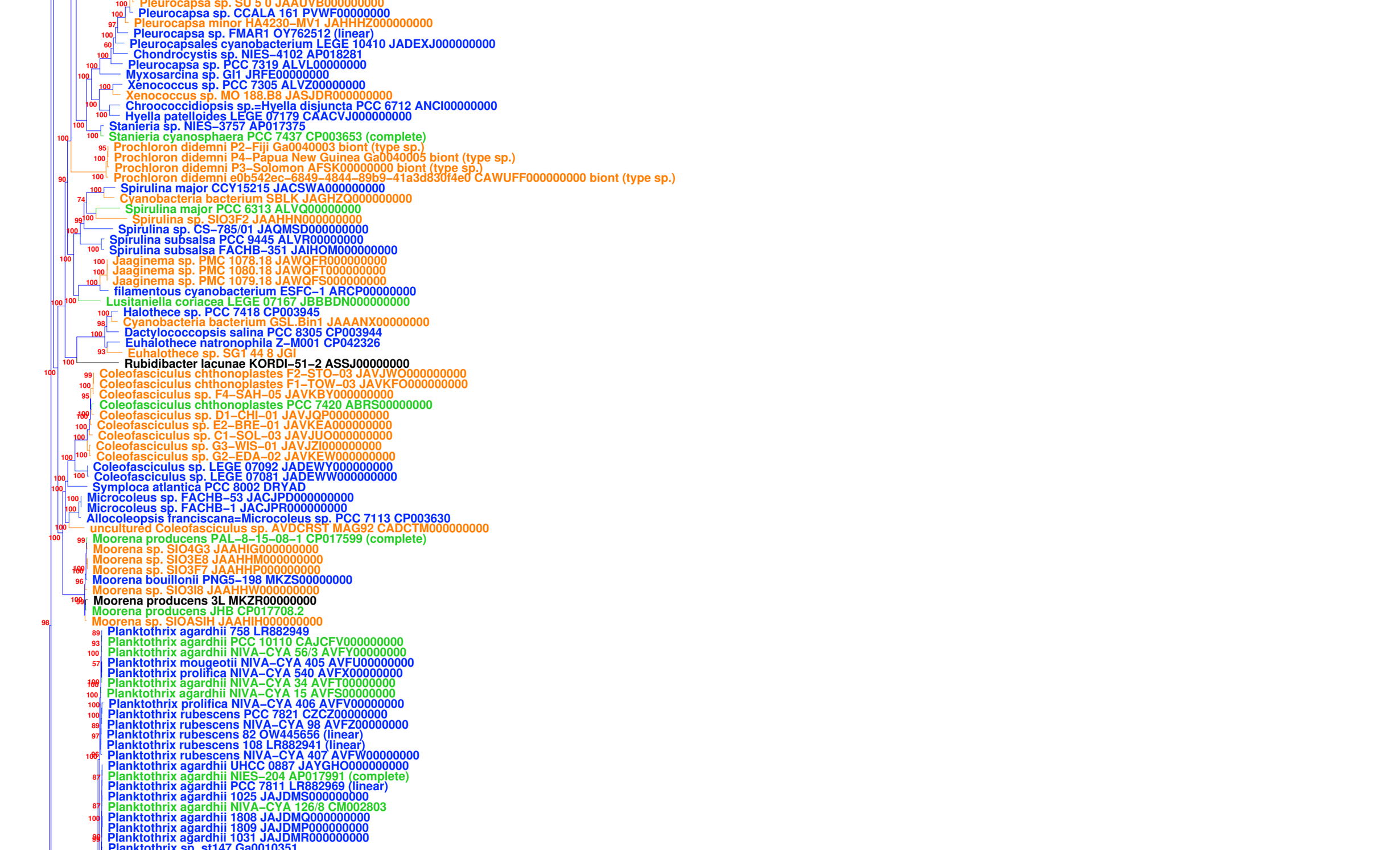
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Chroococcidiopsis sp.=Hyella disjuncta PCC 6712 ANCI00000000
Hyella patelloides LEGE 07179 CAACVJ000000000
Stanieria sp. NIES-3757 AP017375
Stanieria cyanosphaera PCC 7437 CP003653 (complete)
Prochloron didemni P2-Fiji Ga0040003 biont (type sp.)
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Rubidibacter lacunae KORDI-51-2 ASSJ00000000
Coleofasciculus chthonoplastes F2-STO-03 JAVJWO000000000
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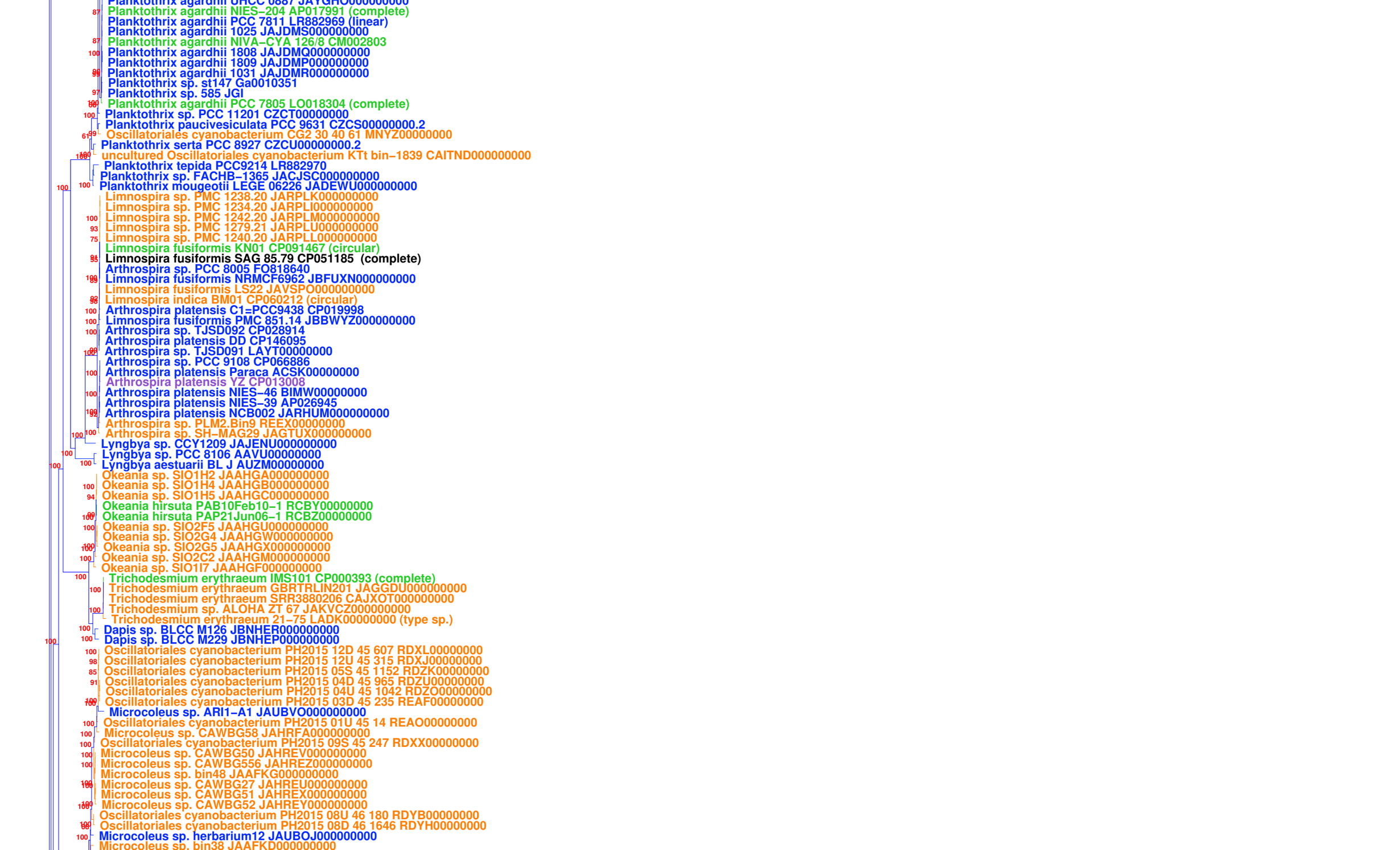
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Arthrospira sp. PCC 8005 FO818640
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Arthrospira platensis NCB002 JARHUM000000000
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Dapis sp. BLCC M126 JBNHER000000000
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Oscillatoriales cyanobacterium PH2015 08U 46 180 RDYB00000000
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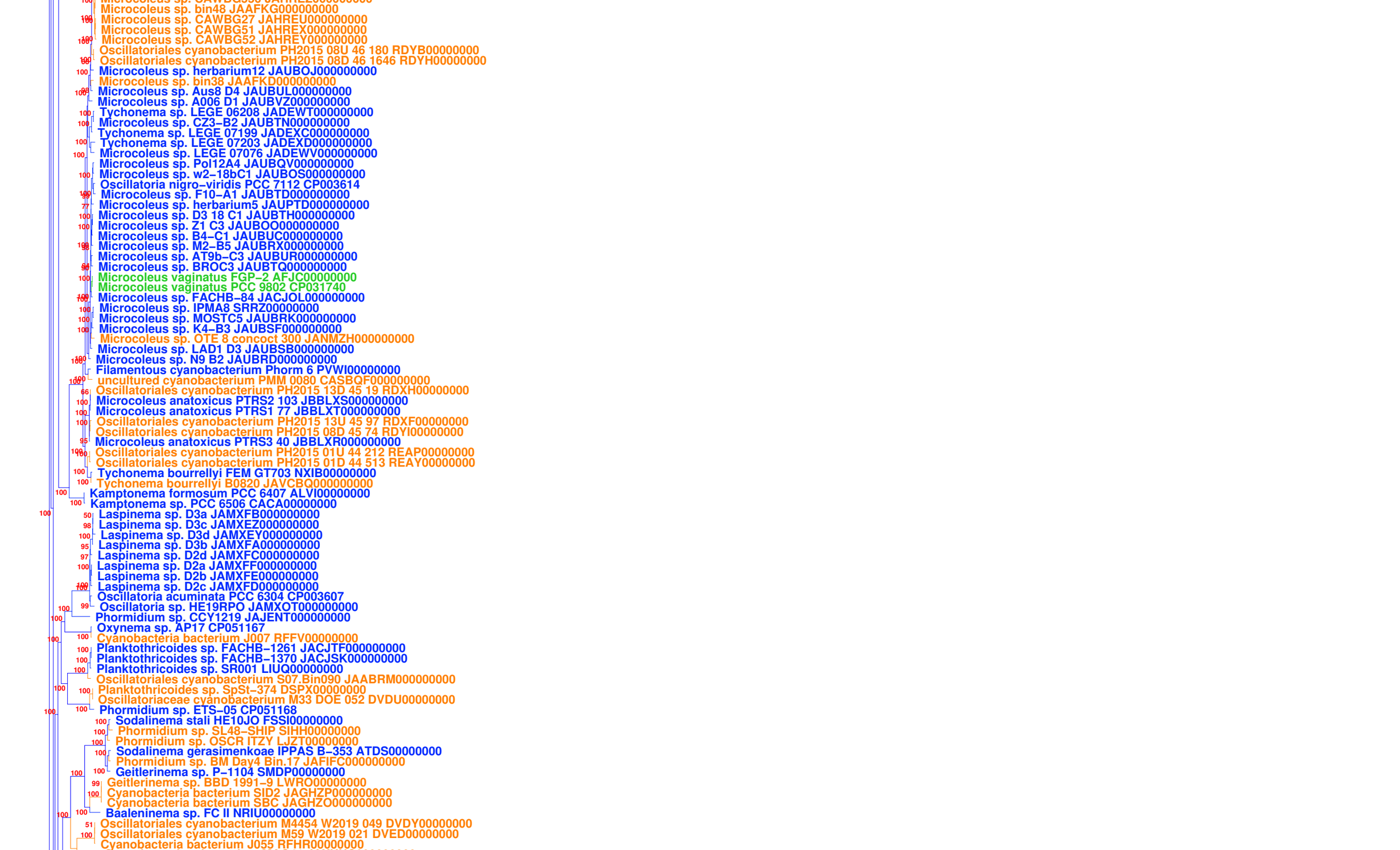
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Tychonema sp. LEGE 06208 JADEWT000000000
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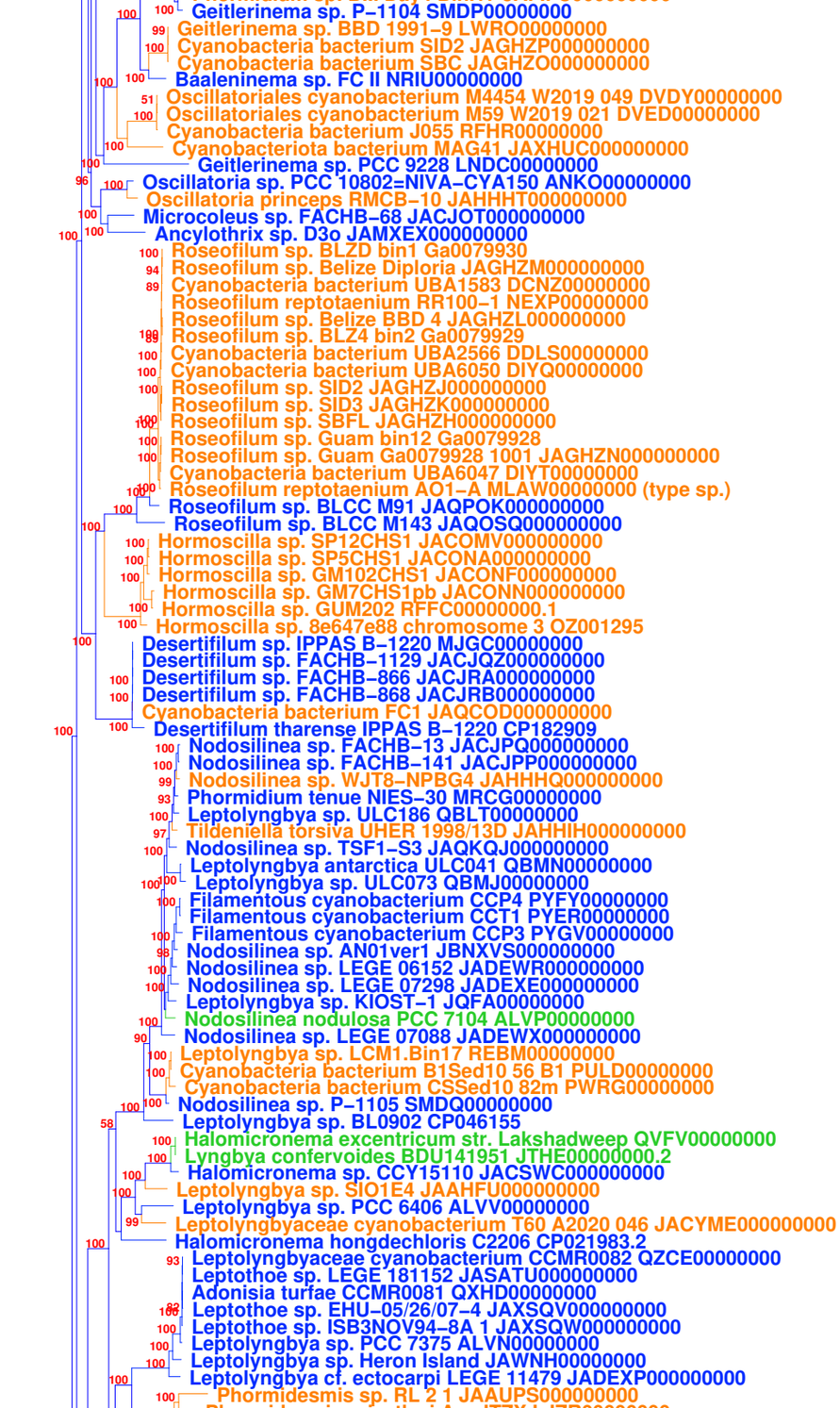
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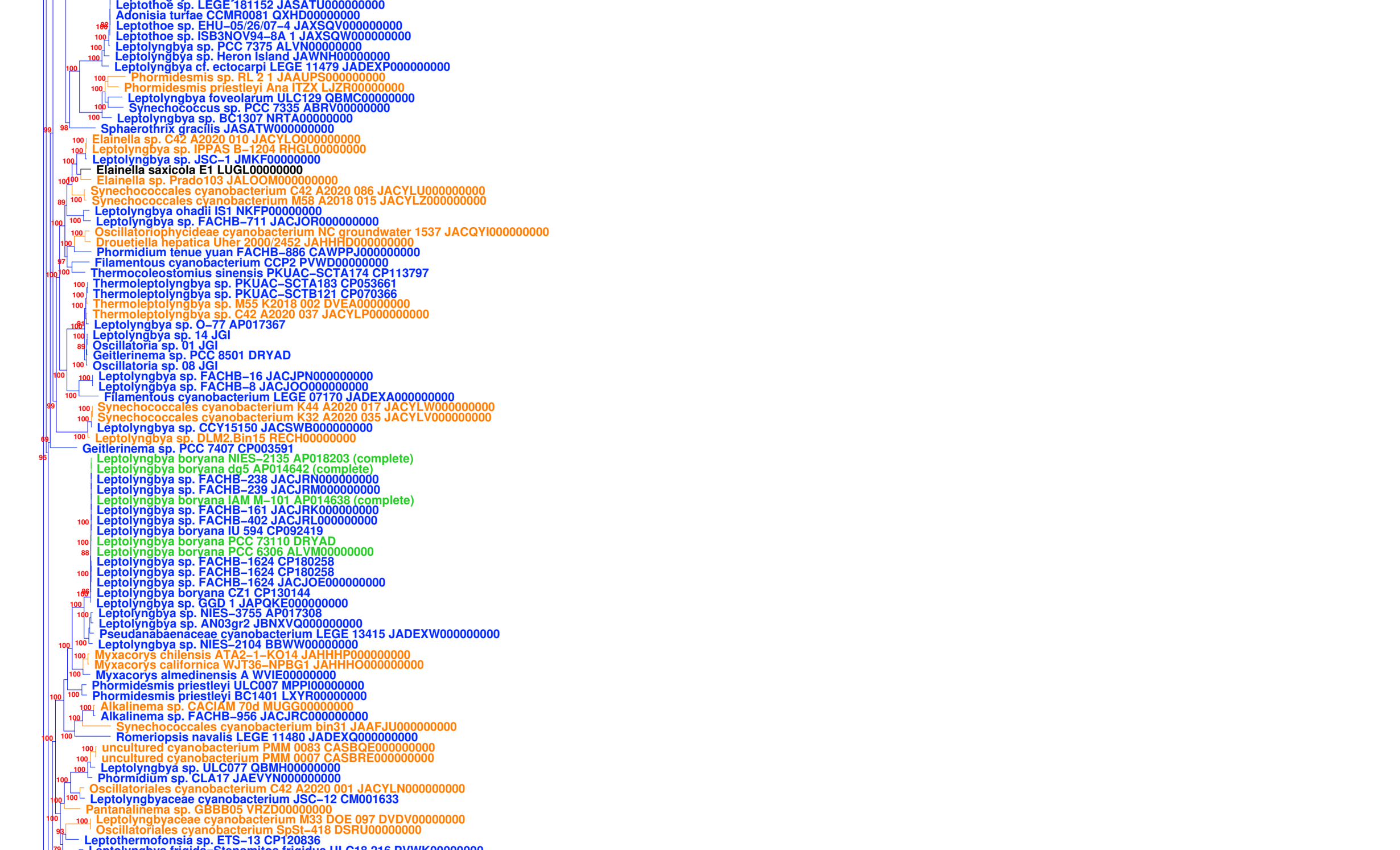
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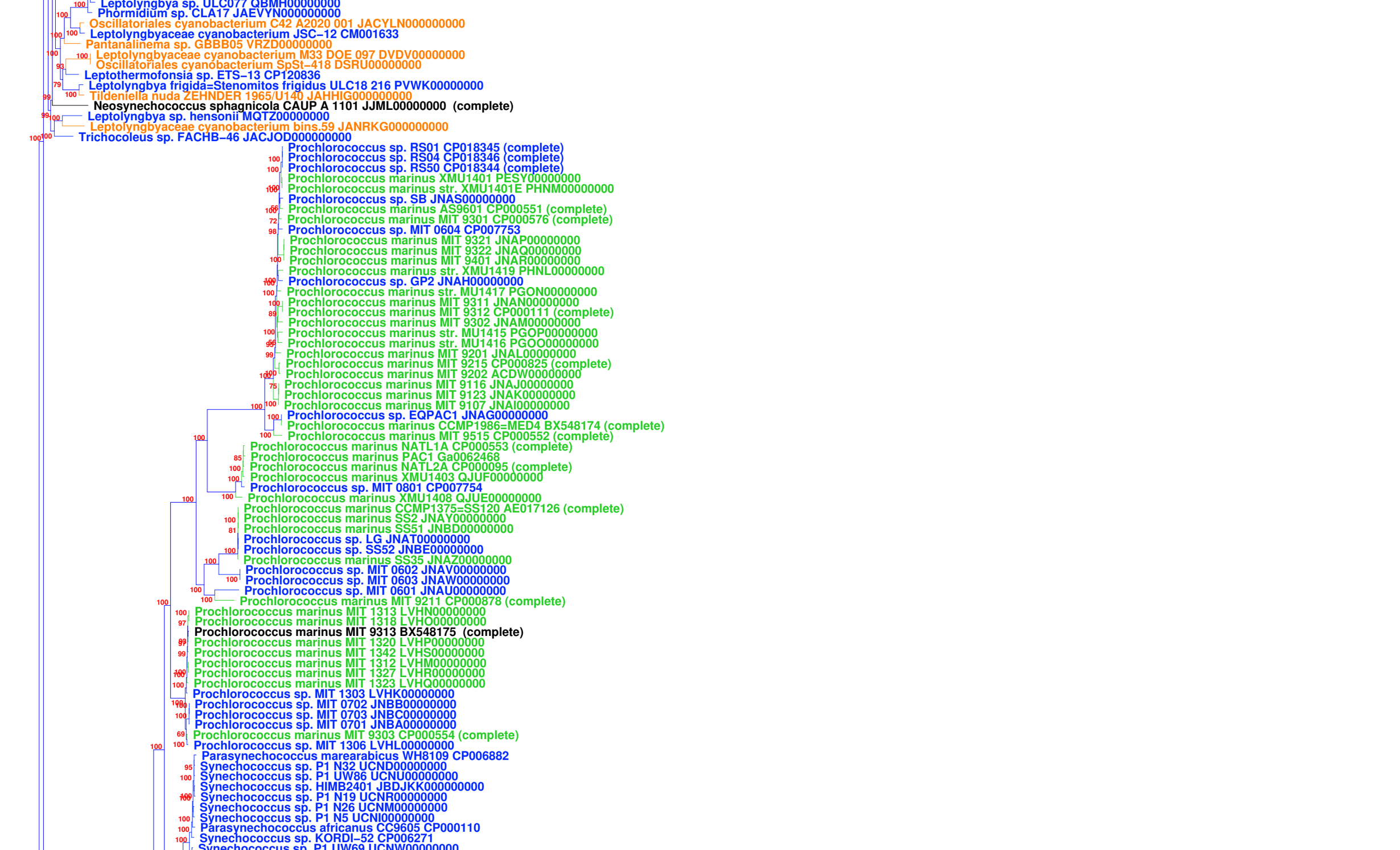
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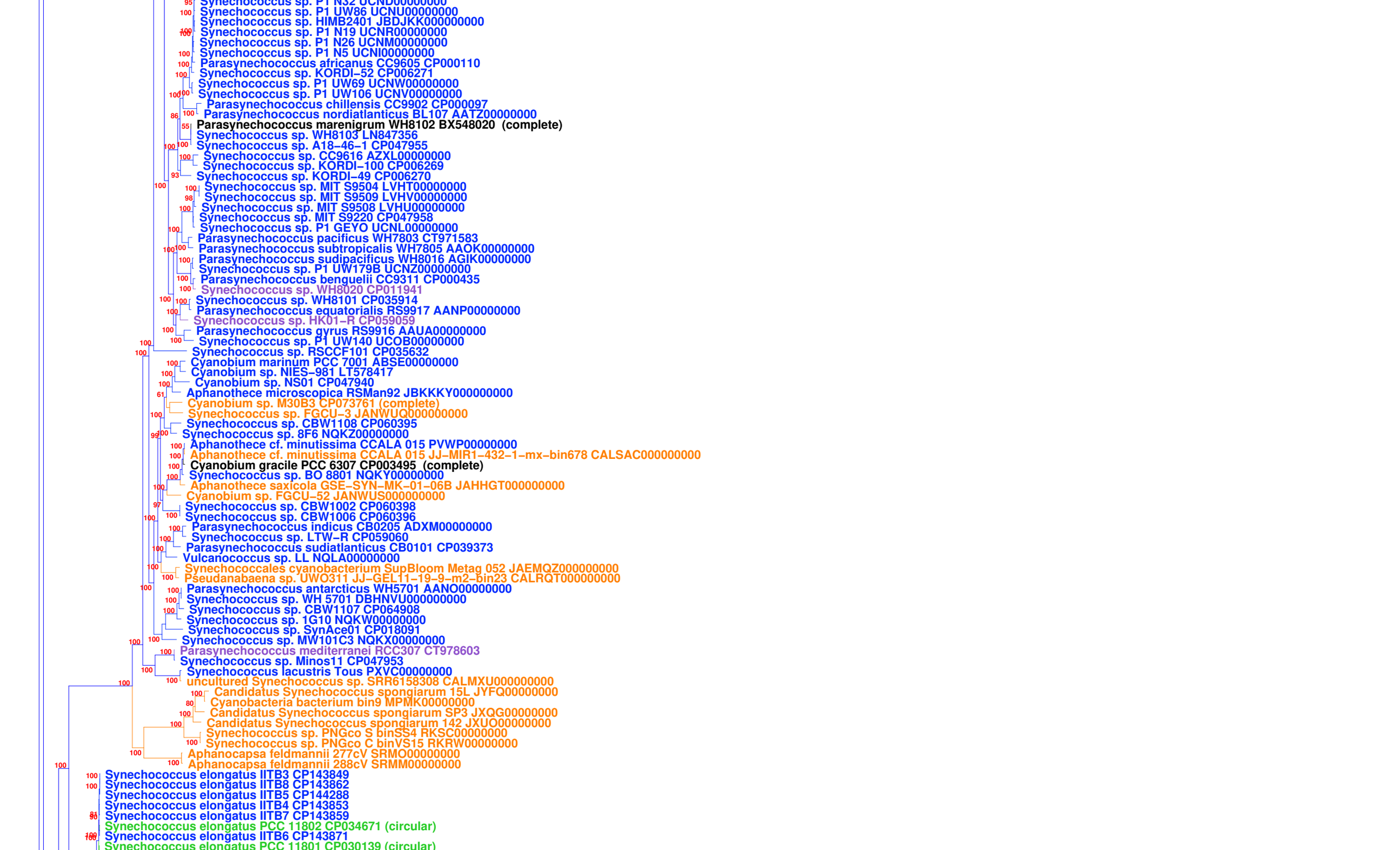
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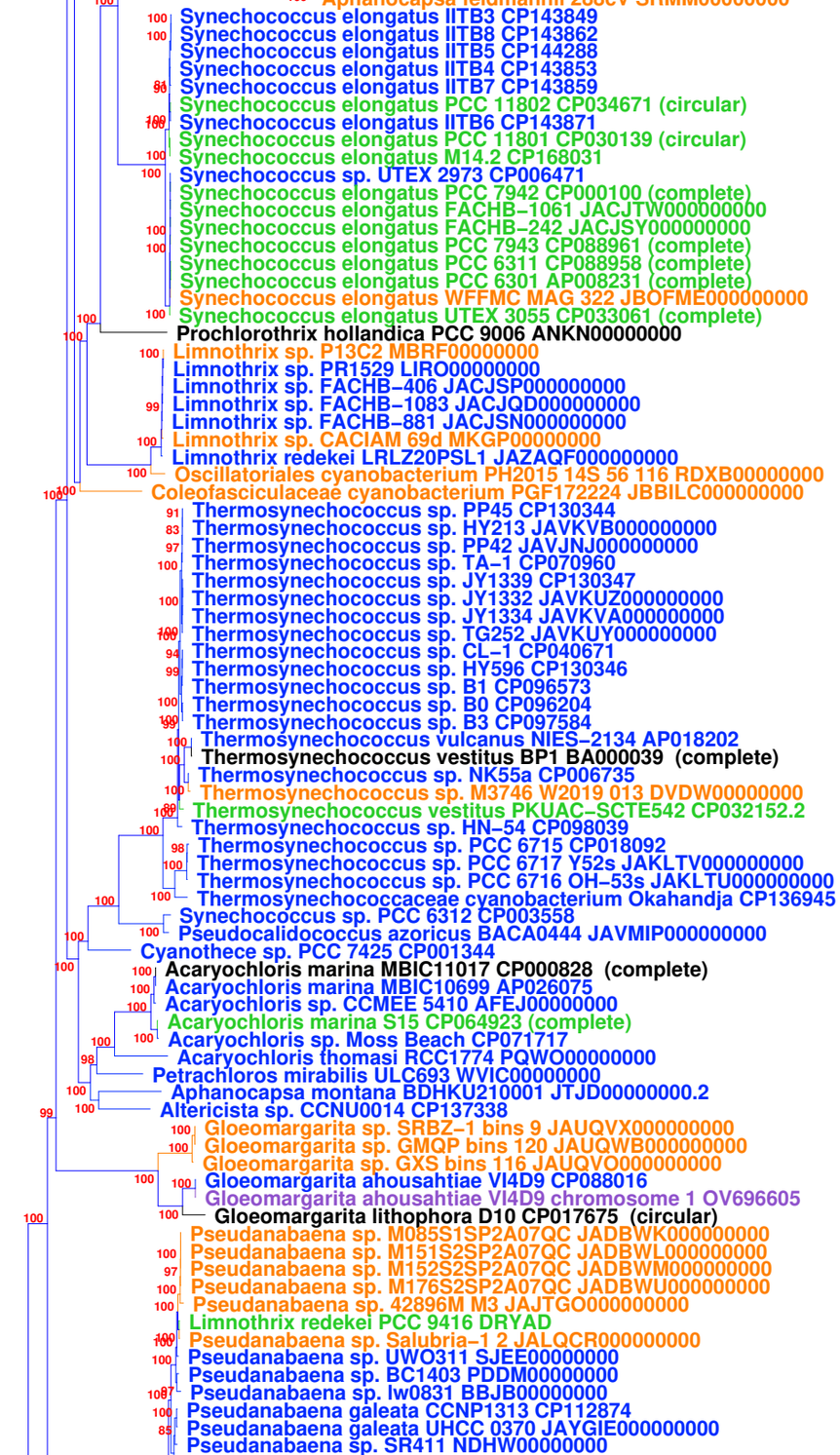
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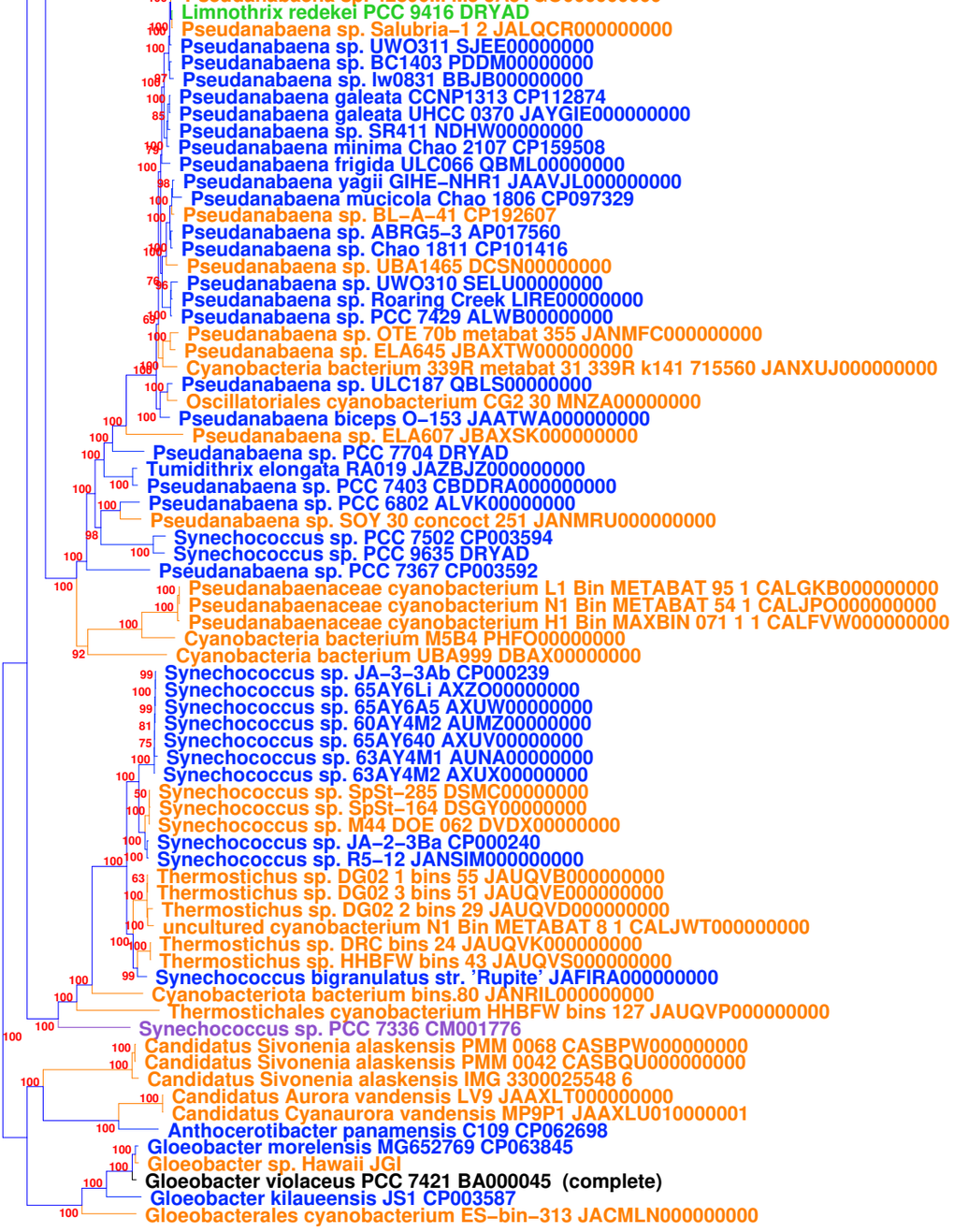
Thermosynechococcus sp. JY1332 JAVKUZ000000000
Thermosynechococcus sp. JY1334 JAVKVA000000000
Thermosynechococcus sp. TG252 JAVKUY000000000
Thermosynechococcus sp. CL-1 CP040671
Thermosynechococcus sp. HY596 CP130346
Thermosynechococcus sp. B1 CP096573
Thermosynechococcus sp. B0 CP096204
Thermosynechococcus sp. B3 CP097584
Thermosynechococcus vulcanus NIES-2134 AP018202
Thermosynechococcus vestitus BP1 BA000039 (complete)
Thermosynechococcus sp. NK55a CP006735
Thermosynechococcus sp. M3746 W2019 013 DVDW00000000
Thermosynechococcus vestitus PKUAC-SCTE542 CP032152.2
Thermosynechococcus sp. HN-54 CP098039
Thermosynechococcus sp. PCC 6715 CP018092
Thermosynechococcus sp. PCC 6717 Y52s JAKLTV000000000
Thermosynechococcus sp. PCC 6716 OH-53s JAKLTU000000000
Thermosynechococcaceae cyanobacterium Okahandja CP136945
Synechococcus sp. PCC 6312 CP003558
Pseudocalidococcus azoricus BACA0444 JAVMIP000000000
Cyanothece sp. PCC 7425 CP001344
Acaryochloris marina MBIC11017 CP000828 (complete)
Acaryochloris marina MBIC10699 AP026075
Acaryochloris sp. CCMEE 5410 AFEJ00000000
Acaryochloris marina S15 CP064923 (complete)
Acaryochloris sp. Moss Beach CP071717
Acaryochloris thomasi RCC1774 PQWO00000000
Petrachloros mirabilis ULC693 WVIC00000000
Aphanocapsa montana BDHKU210001 JTJD00000000.2
Altericista sp. CCNU0014 CP137338
Gloeomargarita sp. SRBZ-1 bins 9 JAUQVX000000000
Gloeomargarita sp. GMQP bins 120 JAUQWB000000000
Gloeomargarita sp. GXS bins 116 JAUQVO000000000
Gloeomargarita ahousahtiae VI4D9 CP088016
Gloeomargarita ahousahtiae VI4D9 chromosome 1 OV696605
Gloeomargarita lithophora D10 CP017675 (circular)
Pseudanabaena sp. M085S1SP2A07QC JADBWK000000000
Pseudanabaena sp. M151S2SP2A07QC JADBWL000000000
Pseudanabaena sp. M152S2SP2A07QC JADBWM000000000
Pseudanabaena sp. M176S2SP2A07QC JADBWU000000000
Pseudanabaena sp. 42896M M3 JAJTGO000000000
Limnothrix redekei PCC 9416 DRYAD
Pseudanabaena sp. Salubria-1 2 JALQCR000000000
Pseudanabaena sp. UWO311 SJEE00000000
Pseudanabaena sp. BC1403 PDDM00000000
Pseudanabaena sp. lw0831 BBJB00000000
Pseudanabaena galeata CCNP1313 CP112874
Pseudanabaena galeata UHCC 0370 JAYGIE000000000
Pseudanabaena sp. SR411 NDHW00000000


Limnothrix redekei PCC 9416 DRYAD
Pseudanabaena sp. Salubria−1 2 JALQCR000000000
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Pseudanabaena sp. lw0831 BBJB00000000
Pseudanabaena galeata CCNP1313 CP112874
Pseudanabaena galeata UHCC 0370 JAYGIE000000000
Pseudanabaena sp. SR411 NDHW00000000
Pseudanabaena minima Chao 2107 CP159508
Pseudanabaena frigida ULC066 QBML00000000
Pseudanabaena yagii GIHE−NHR1 JAAVJL000000000
Pseudanabaena mucicola Chao 1806 CP097329
Pseudanabaena sp. BL−A−41 CP192607
Pseudanabaena sp. ABRG5−3 AP017560
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Pseudanabaena sp. UBA1465 DCSN00000000
Pseudanabaena sp. UWO310 SELU00000000
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Pseudanabaena sp. PCC 7429 ALWB00000000
Pseudanabaena sp. OTE 70b metabat 355 JANMFC000000000
Pseudanabaena sp. ELA645 JBAXTW000000000
Cyanobacteria bacterium 339R metabat 31 339R k141 715560 JANXUJ000000000
Pseudanabaena sp. ULC187 QBLS00000000
Oscillatoriales cyanobacterium CG2 30 MNZA00000000
Pseudanabaena biceps O−153 JAATWA000000000
Pseudanabaena sp. ELA607 JBAXSK000000000
Pseudanabaena sp. PCC 7704 DRYAD
Tumidithrix elongata RA019 JAZBJZ000000000
Pseudanabaena sp. PCC 7403 CBDDRA000000000
Pseudanabaena sp. PCC 6802 ALVK00000000
Pseudanabaena sp. SOY 30 concoct 251 JANMRU000000000
Synechococcus sp. PCC 7502 CP003594
Synechococcus sp. PCC 9635 DRYAD
Pseudanabaena sp. PCC 7367 CP003592
Pseudanabaenaceae cyanobacterium L1 Bin METABAT 95 1 CALGKB000000000
Pseudanabaenaceae cyanobacterium N1 Bin METABAT 54 1 CALJPO000000000
Pseudanabaenaceae cyanobacterium H1 Bin MAXBIN 071 1 1 CALFVW000000000
Cyanobacteria bacterium M5B4 PHFO00000000
Cyanobacteria bacterium UBA999 DBAX00000000
Synechococcus sp. JA−3−3Ab CP000239
Synechococcus sp. 65AY6Li AXZO00000000
Synechococcus sp. 65AY6A5 AXUW00000000
Synechococcus sp. 60AY4M2 AUMZ00000000
Synechococcus sp. 65AY640 AXUV00000000
Synechococcus sp. 63AY4M1 AUNA00000000
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Synechococcus sp. SpSt−285 DSMC00000000
Synechococcus sp. SpSt−164 DSGY00000000
Synechococcus sp. M44 DOE 062 DVDX00000000
Synechococcus sp. JA−2−3Ba CP000240
Synechococcus sp. R5−12 JANSIM000000000
Thermostichus sp. DG02 1 bins 55 JAUQVB000000000
Thermostichus sp. DG02 3 bins 51 JAUQVE000000000
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uncultured cyanobacterium N1 Bin METABAT 8 1 CALJWT000000000
Thermostichus sp. DRC bins 24 JAUQVK000000000
Thermostichus sp. HHBFW bins 43 JAUQVS000000000
Synechococcus bigranulatus str. 'Rupite' JAFIRA000000000
Cyanobacteriota bacterium bins.80 JANRIL000000000
Thermostichales cyanobacterium HHBFW bins 127 JAUQVP000000000
Synechococcus sp. PCC 7336 CM001776
Candidatus Sivonenia alaskensis PMM 0068 CASBPW000000000
Candidatus Sivonenia alaskensis PMM 0042 CASBQU000000000
Candidatus Sivonenia alaskensis IMG 3300025548 6
Candidatus Aurora vandensis LV9 JAAXLT000000000
Candidatus Cyanaurora vandensis MP9P1 JAAXLU010000001
Anthocerotibacter panamensis C109 CP062698
Gloeobacter morelensis MG652769 CP063845
Gloeobacter sp. Hawaii JGI
Gloeobacter violaceus PCC 7421 BA000045 (complete)
Gloeobacter kilaueensis JS1 CP003587
Gloeobacterales cyanobacterium ES−bin−313 JACMLN000000000
0.10