**Supplemental Fig S1.** Representative graphical of taxonomic analysis of sample, 00RTS3.

**Supplemental Fig S2.** Representative graphical of taxonomic analysis of sample, SRR359291.

**Supplemental Fig S3.** Representative graphical of taxonomic analysis of sample, SRR359290.

**Supplemental Fig S4.** Representative graphical of taxonomic analysis of a normal brain sample from the BodyMap initiative.

**Supplemental Fig S5.** Representative graphical of taxonomic analysis of sample, CAUPRVE.

**Supplemental Fig S6.** Representative graphical of taxonomic analysis of sample, H8CPFRSJ.

**Supplemental Fig S7.** EBV and MuLV gene coverage analysis on RNA-seq datasets from GBM samples and JY cell line

**Supplemental Fig S8.** Gene expression profile of several tissue samples. These included a fibroblast-derived cell line, fibroblast-derived cell line infected with HCMV, JY cell line, and 2 primary GBMs. Relative viral mRNA expression (-fold) is represented as red (HCMV), purple (MuLV), and blue (EBV) columns and are the fold difference compared to the fibroblast-derived cell line values.

**Supplemental Fig S9.** Representative graphical of taxonomic analysis of sample, SRR1521352.

**Supplemental Fig S10.** Representative graphical of taxonomic analysis of sample, SRR1521353.

**Supplemental Fig S11.** Representative graphical of taxonomic analysis of sample, SRR1521354.

**Supplemental Fig S12.** Representative graphical of taxonomic analysis of sample, SRR1521355.

**Supplemental Fig S13.** Representative graphical of taxonomic analysis of sample, SRR1521356.

**Supplemental Fig S14.** Representative graphical of taxonomic analysis of sample, SRR1521357.

**Supplemental Fig S15.** Representative graphical of taxonomic analysis of sample, SRR1521358.

**Supplemental Fig S16.** Representative graphical of taxonomic analysis of sample, SRR1521359.

**Supplemental Fig S17.** Representative graphical of taxonomic analysis of sample, SRR1521360.

**Supplemental Fig S18.** Representative graphical of taxonomic analysis of sample, SRR1521361.

**Supplemental Fig S19.** Representative graphical of taxonomic analysis of sample, SRR1521362.

**Supplemental Fig S20.** Representative graphical of taxonomic analysis of sample, SRR1521363.

**Supplemental Fig S21.** Representative graphical of taxonomic analysis of sample, SRR1521364.

**Supplemental Fig S22.** Representative graphical of taxonomic analysis of sample,

SRR1521365.

**Supplemental Fig S23.** Representative graphical of taxonomic analysis of sample, SRR1521366.

**Supplemental Fig S24.** Representative graphical of taxonomic analysis of sample, SRR1521367.

**Supplemental Fig S25.** Representative graphical of taxonomic analysis of sample, SRR1521368.

**Supplemental Fig S26.** Representative graphical of taxonomic analysis of sample, SRR1521369.

**Supplemental Fig S27.** Representative graphical of taxonomic analysis of sample, SRR1521370.

**Supplemental Fig S28.** Representative graphical of taxonomic analysis of sample, SRR1521371.

**Supplemental Fig S29.** Representative graphical of taxonomic analysis of sample, SRR1521372.

**Supplemental Fig S30.** Representative graphical of taxonomic analysis of sample, SRR1521373.

**Supplemental Fig S31.** Representative graphical of taxonomic analysis of sample, SRR1521374.

**Supplemental Fig S32.** Representative graphical of taxonomic analysis of sample, SRR1521375.

**Supplemental Fig S33.** Representative graphical of taxonomic analysis of sample, SRR1521376.

**Supplemental Fig S34.** Representative graphical of taxonomic analysis of sample, SRR1521377.

**Supplemental Fig S35.** Representative graphical of taxonomic analysis of sample, SRR1521378.

**Supplemental Fig S36.** Representative graphical of taxonomic analysis of sample, SRR1521379.

**Supplemental Fig S37.** Representative graphical of taxonomic analysis of sample, SRR1521380.

**Supplemental Fig S38.** Representative graphical of taxonomic analysis of sample, SRR1521381.

**Supplemental Fig S39.** Representative graphical of taxonomic analysis of sample, SRR1521382.

**Supplemental Fig S40.** Representative graphical of taxonomic analysis of sample, SRR1521383.

**Supplemental Fig S41.** Representative graphical of taxonomic analysis of sample, SRR1521384.

**Supplemental Fig S42.** Representative graphical of taxonomic analysis of sample, SRR1521385.

**Supplemental Fig S43.** Representative graphical of taxonomic analysis of sample, SRR1521386.

**Supplemental Fig S44.** Representative graphical of taxonomic analysis of sample, SRR1521387.

**Supplemental Fig S45.** Representative graphical of taxonomic analysis of sample,

SRR1521388.

**Supplemental Fig S46.** Representative graphical of taxonomic analysis of sample, SRR1521389.

**Supplemental Fig S47.** Representative graphical of taxonomic analysis of sample, SRR1521390.

**Supplemental Fig S48.** Representative graphical of taxonomic analysis of sample, SRR1521391.

**Supplemental Fig S49.** Representative graphical of taxonomic analysis of sample, SRR1521392.

**Supplemental Fig S50.** Representative graphical of taxonomic analysis of sample, SRR1521393.

**Supplemental Fig S51.** Representative graphical of taxonomic analysis of sample, SRR1521394.

**Supplemental Fig S52.** Representative graphical of taxonomic analysis of sample, SRR1521395.

**Supplemental Fig S53.** Representative graphical of taxonomic analysis of sample, SRR1521396.

**Supplemental Fig S54.** Representative graphical of taxonomic analysis of sample, SRR1521397.

**Supplemental Fig S55.** Representative graphical of taxonomic analysis of sample, SRR1521398.

**Supplemental Fig S56.** Representative graphical of taxonomic analysis of sample, SRR1521399.

**Supplemental Fig S57.** Representative graphical of taxonomic analysis of sample, SRR1521400.

**Supplemental Fig S58.** Representative graphical of taxonomic analysis of sample, SRR1521401.

**Supplemental Fig S59.** Representative graphical of taxonomic analysis of sample, SRR1521402.

**Supplemental Fig S60.** Representative graphical of taxonomic analysis of sample, SRR1521403.

**Supplemental Fig S61.** Representative graphical of taxonomic analysis of sample, SRR1521404.

**Supplemental Fig S62.** Representative graphical of taxonomic analysis of sample, SRR1521405.

**Supplemental Fig S63.** Representative graphical of taxonomic analysis of sample, SRR1521406.

**Supplemental Fig S64.** Representative graphical of taxonomic analysis of sample, SRR1521407.

**Supplemental Fig S65.** Representative graphical of taxonomic analysis of sample, SRR1521408.

**Supplemental Fig S66.** Representative graphical of taxonomic analysis of sample, SRR1521409.

**Supplemental Fig S67.** Representative graphical of taxonomic analysis of sample, SRR1521410.

**Supplemental Fig S68.** Representative graphical of taxonomic analysis of sample,

SRR1521411.

**Supplemental Fig S69.** Representative graphical of taxonomic analysis of sample, SRR1521412.

**Supplemental Fig S70.** Representative graphical of taxonomic analysis of sample, SRR1521413.

**Supplemental Fig S71.** Representative graphical of taxonomic analysis of sample, SRR1521414.

**Supplemental Fig S72.** Representative graphical of taxonomic analysis of sample, SRR1521415.

**Supplemental Fig S73.** Representative graphical of taxonomic analysis of sample, SRR1521416.

**Supplemental Fig S74.** Representative graphical of taxonomic analysis of sample, SRR1521417.

**Supplemental Fig S75.** Representative graphical of taxonomic analysis of sample, SRR1521418.

**Supplemental Fig S76.** Representative graphical of taxonomic analysis of sample, SRR1521419.

**Supplemental Fig S77.** Representative graphical of taxonomic analysis of sample, SRR1521420.

**Supplemental Fig S78.** Representative graphical of taxonomic analysis of sample, SRR1521421.

**Supplemental Fig S79.** Representative graphical of taxonomic analysis of sample, SRR1521422.

**Supplemental Fig S80.** Representative graphical of taxonomic analysis of sample, SRR1521423.

**Supplemental Fig S81.** Representative graphical of taxonomic analysis of sample, SRR1521424.

**Supplemental Fig S82.** Representative graphical of taxonomic analysis of sample, SRR1521425.

**Supplemental Fig S83.** Representative graphical of taxonomic analysis of sample, SRR1521426.

**Supplemental Fig S84.** Representative graphical of taxonomic analysis of sample, SRR1521427.

**Supplemental Fig S85.** Representative graphical of taxonomic analysis of sample, SRR1521428.

**Supplemental Fig S86.** Representative graphical of taxonomic analysis of sample, SRR1521429.

**Supplemental Fig S87.** Representative graphical of taxonomic analysis of sample, SRR1521430.

**Supplemental Fig S88.** Representative graphical of taxonomic analysis of sample, SRR1521431.

**Supplemental Fig S89.** Representative graphical of taxonomic analysis of sample, SRR1521432.

**Supplemental Fig S90.** Representative graphical of taxonomic analysis of sample, SRR1521433.

**Supplemental Fig S91.** Representative graphical of taxonomic analysis of sample,

SRR1521434.

**Supplemental Fig S92.** Representative graphical of taxonomic analysis of sample, SRR1521435.

**Supplemental Fig S93.** Representative graphical of taxonomic analysis of sample, SRR1521436.

**Supplemental Fig S94.** Representative graphical of taxonomic analysis of sample, SRR1521437.

**Supplemental Fig S95.** Representative graphical of taxonomic analysis of sample, SRR1521438.

**Supplemental Fig S96.** Representative graphical of taxonomic analysis of sample, SRR1521439.

**Supplemental Fig S97.** Representative graphical of taxonomic analysis of sample, SRR1521440.

**Supplemental Fig S98.** Representative graphical of taxonomic analysis of sample, SRR1521441.

**Supplemental Fig S99.** Representative graphical of taxonomic analysis of sample, SRR1521442.

**Supplemental Fig S100.** Representative graphical of taxonomic analysis of sample, SRR1521443.

**Supplemental Fig S101.** Representative graphical of taxonomic analysis of sample, SRR1521444.

**Supplemental Fig S102.** Representative graphical of taxonomic analysis of sample, SRR1521445.

**Supplemental Fig S103.** HIV gene coverage analysis for MRI-localized biopsies

**Supplemental Fig S104.** MuLV gene coverage analysis for MRI-localized non-enhancing biopsies

**Supplemental Fig S105.** MuLV gene coverage analysis for MRI-localized contrast biopsies

**Supplemental Fig S106.** MuLV gene coverage analysis for MRI-localized non-neoplasm biopsies

**Supplemental Fig S107.** HCMV gene coverage analysis for MRI-localized non-enhancing biopsies

**Supplemental Fig S108.** HCMV gene coverage analysis for MRI-localized contrast biopsies

**Supplemental Fig S109.** Representative graphical of taxonomic analysis of sample, SRR608893.

**Supplemental Fig S110.** Representative graphical of taxonomic analysis of sample, SRR608894.

**Supplemental Fig S111.** Representative graphical of taxonomic analysis of sample, SRR608895.

**Supplemental Fig S112.** Representative graphical of taxonomic analysis of sample, SRR608896.

**Supplemental Fig S113.** Representative graphical of taxonomic analysis of sample, SRR608897.

**Supplemental Fig S114.** Representative graphical of taxonomic analysis of sample, SRR608898.

**Supplemental Fig S115.** Representative graphical of taxonomic analysis of sample, SRR608899.

**Supplemental Fig S116.** Representative graphical of taxonomic analysis of sample, SRR608900.

**Supplemental Fig S117.** Representative graphical of taxonomic analysis of sample, SRR608901.

**Supplemental Fig S118.** Representative graphical of taxonomic analysis of sample, SRR942849.

**Supplemental Fig S119.** Representative graphical of taxonomic analysis of sample, SRR942850.

**Supplemental Fig S120.** Representative graphical of taxonomic analysis of sample, SRR942851.

**Supplemental Fig S121.** Representative graphical of taxonomic analysis of sample, SRR942852.

**Supplemental Fig S122.** Representative graphical of taxonomic analysis of sample, SRR942853.

**Supplemental Fig S123.** Representative graphical of taxonomic analysis of sample, SRR942854.

**Supplemental Fig S124.** Representative graphical of taxonomic analysis of sample, SRR942855.

**Supplemental Fig S125.** Representative graphical of taxonomic analysis of sample, SRR942856.

**Supplemental Fig S126.** Representative graphical of taxonomic analysis of sample,

SRR942857.

**Supplemental Fig S127.** Representative graphical of taxonomic analysis of sample, SRR942858.

**Supplemental Fig S128.** Representative graphical of taxonomic analysis of sample, SRR942859.

**Supplemental Fig S129.** Representative graphical of taxonomic analysis of sample, SRR942860.

**Supplemental Fig S130.** Representative graphical of taxonomic analysis of sample, SRR942861.

**Supplemental Fig S131.** Representative graphical of taxonomic analysis of sample, SRR942862.

**Supplemental Fig S132.** Representative graphical of taxonomic analysis of sample, SRR942863.

**Supplemental Fig S133.** Human Adenovirus C gene coverage analysis for gliomas stem cell samples

**Supplemental Fig S134.** HCMV gene coverage analysis for gliomas stem cell samples

**Supplemental Fig S135.** HPV-16 gene coverage analysis for low grade gliomas

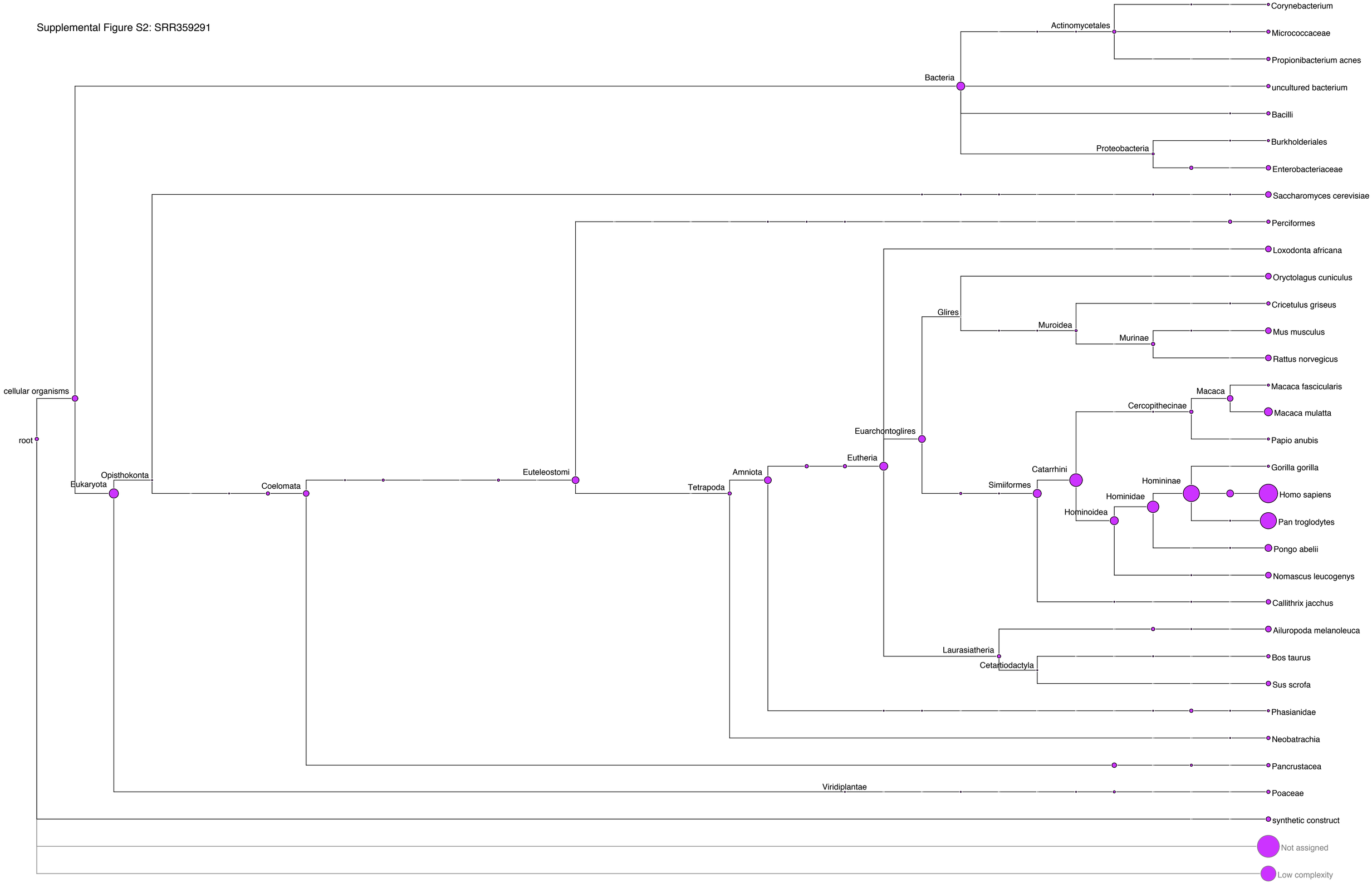
**Supplemental Fig S136.** HPV-58 gene coverage analysis for low grade gliomas

**Supplemental Fig S137.** Hepatitis B gene coverage analysis for low grade gliomas

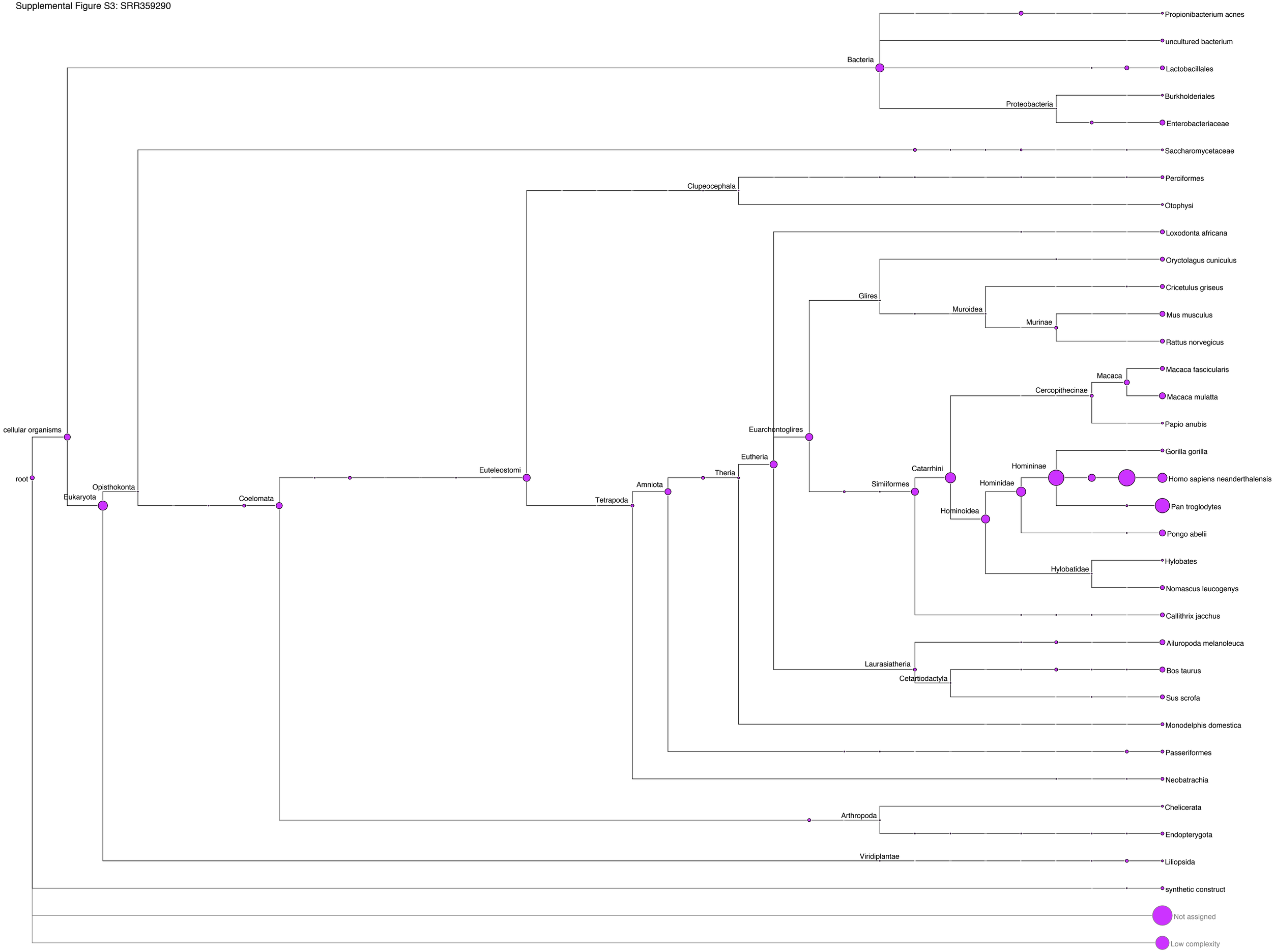
**Supplemental Fig S138.** WGS of EBV gene coverage for recurrent GBM samples

Supplemental Figure S1: 00RTS3

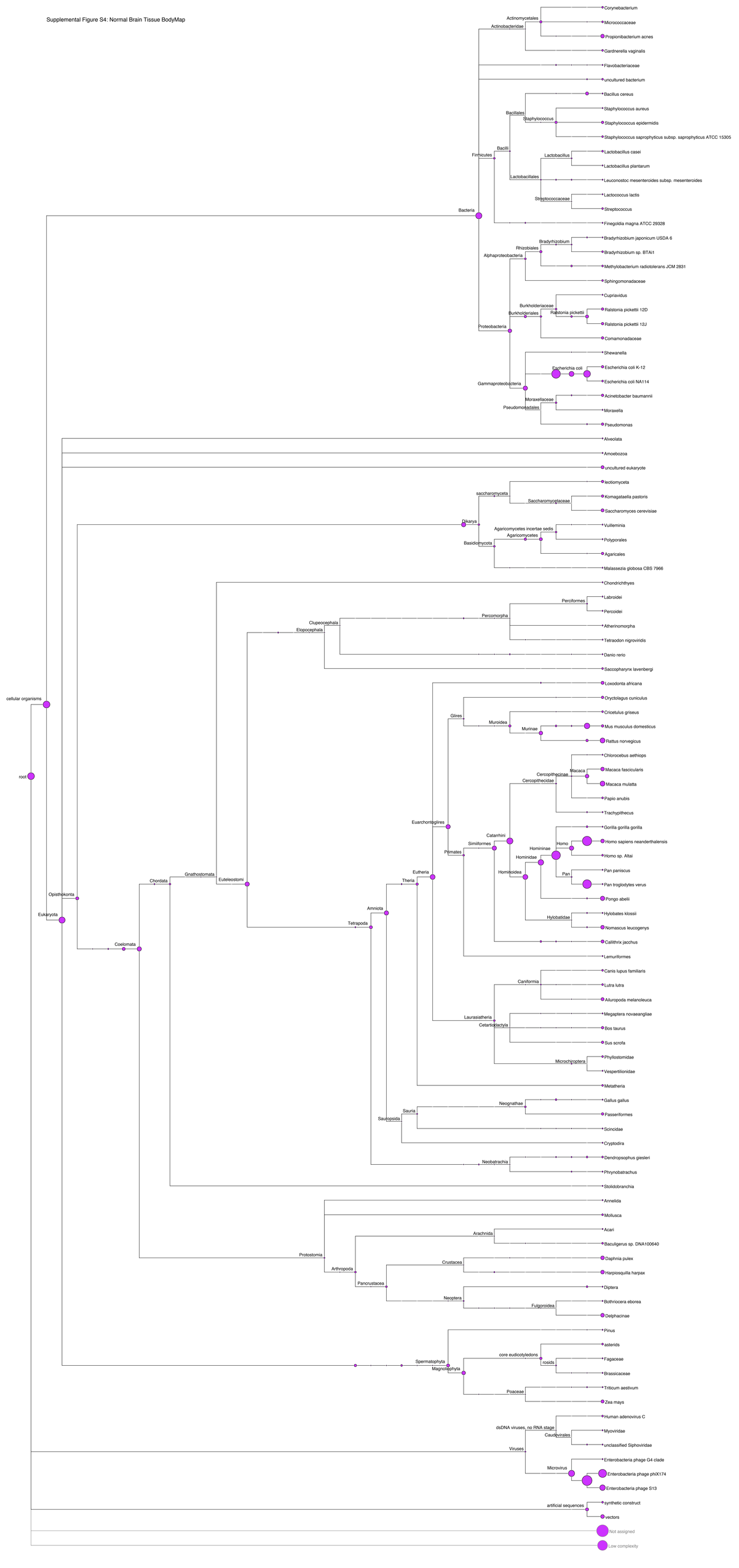
Supplemental Figure S2: SRR359291



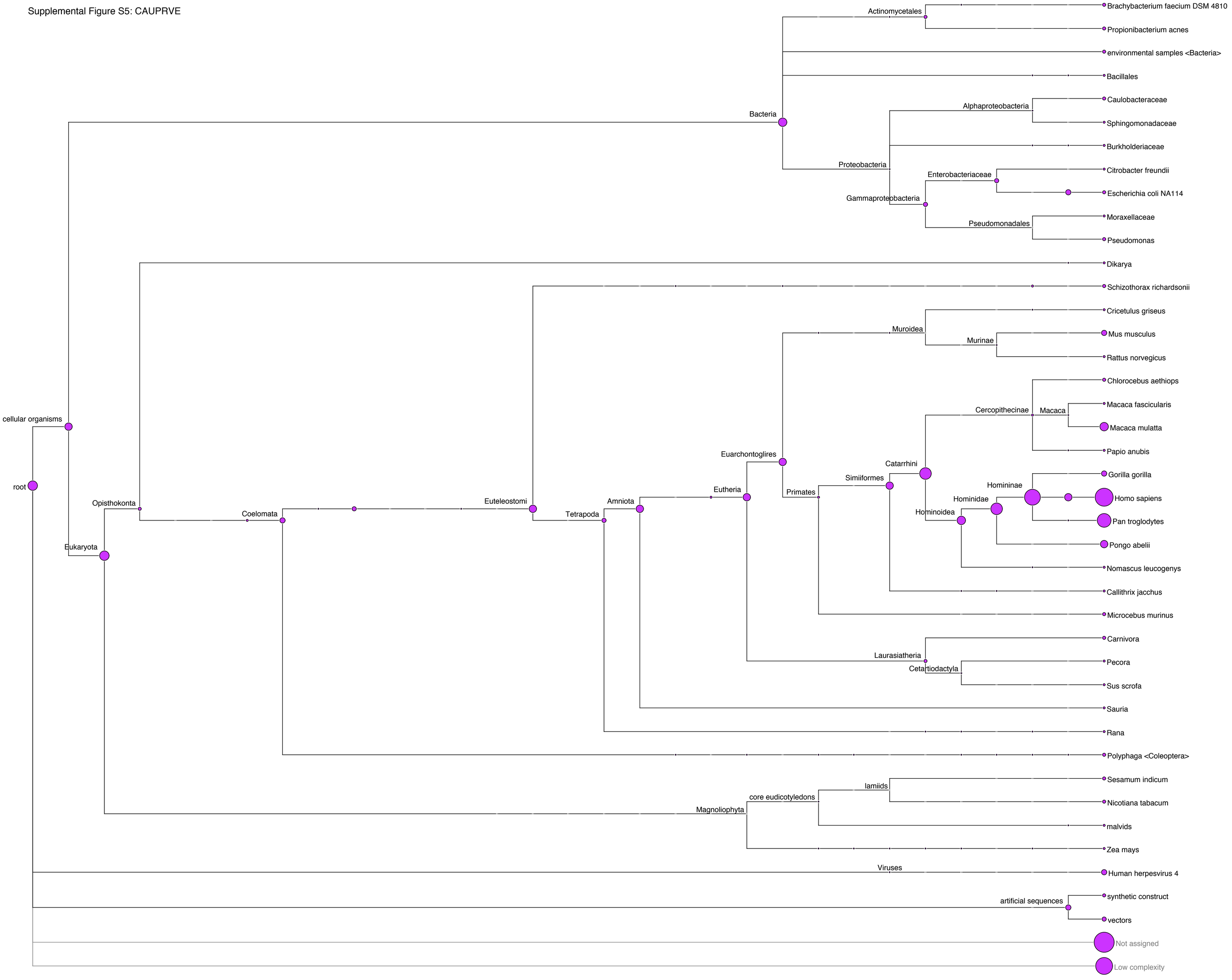
Supplemental Figure S3: SRR359290



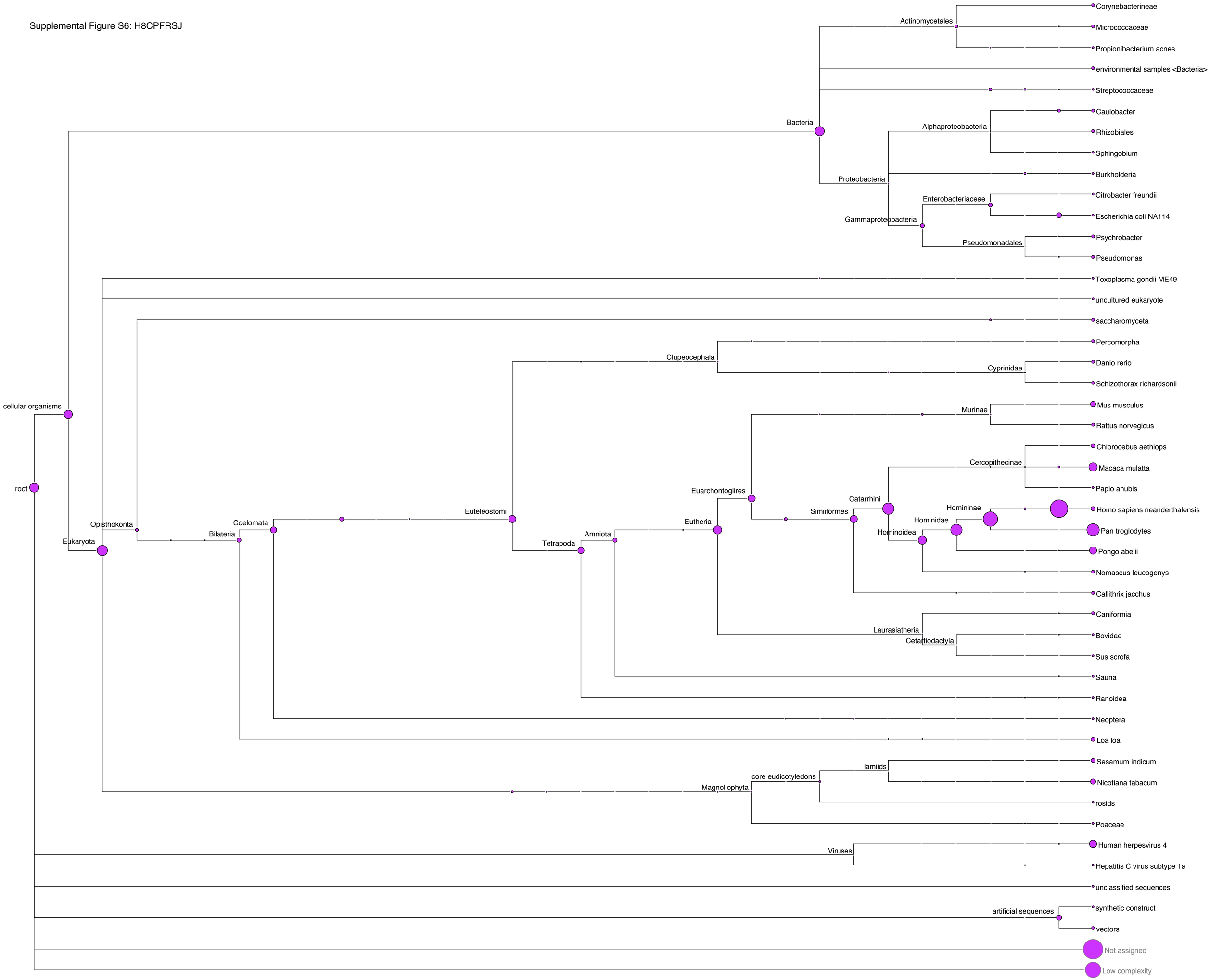
Supplemental Figure S4: Normal Brain Tissue BodyMap

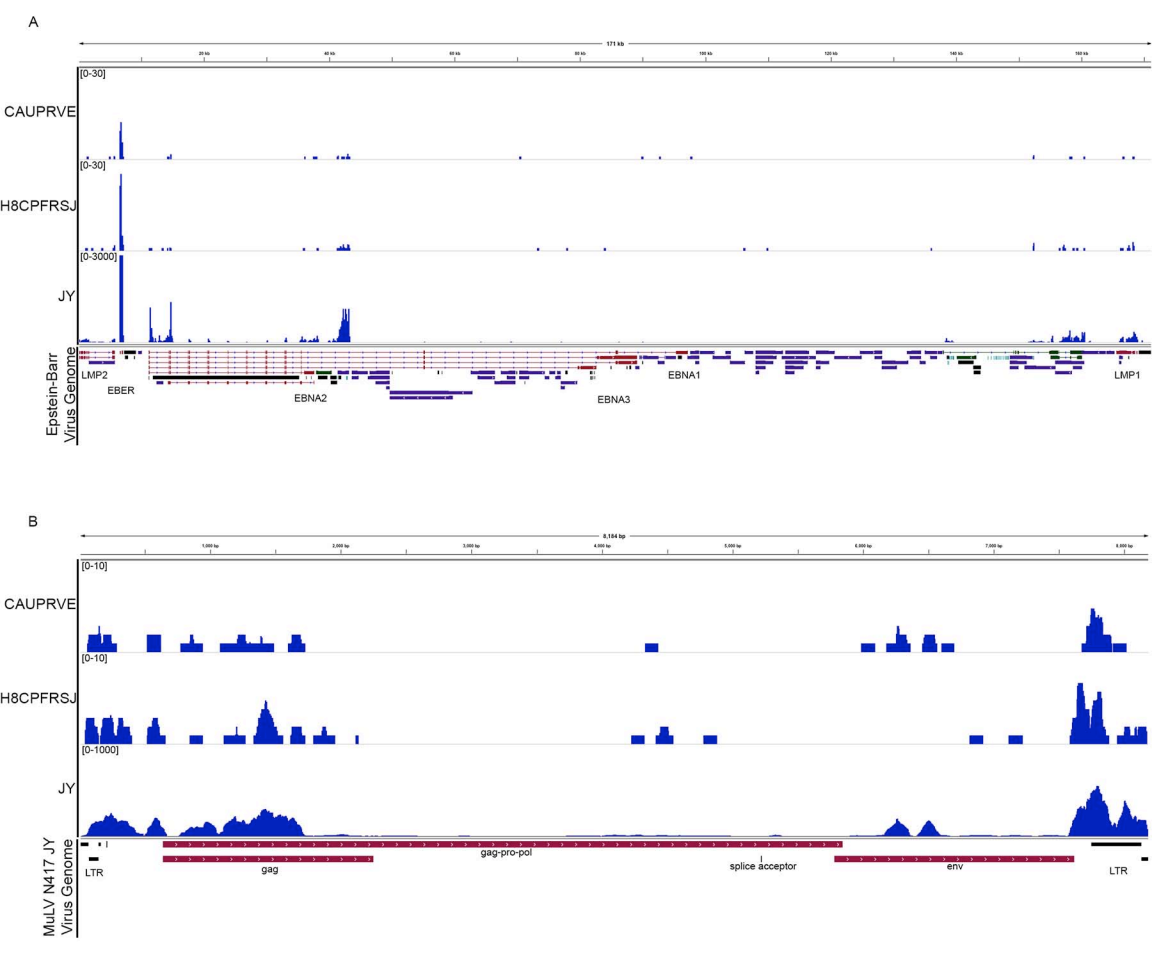


Supplemental Figure S5: CAUPRVE



Supplemental Figure S6: H8CPFRSJ

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EBER
EBNA2
EBNA3
EBNA1
LMP1
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2,000 bp
3,000 bp
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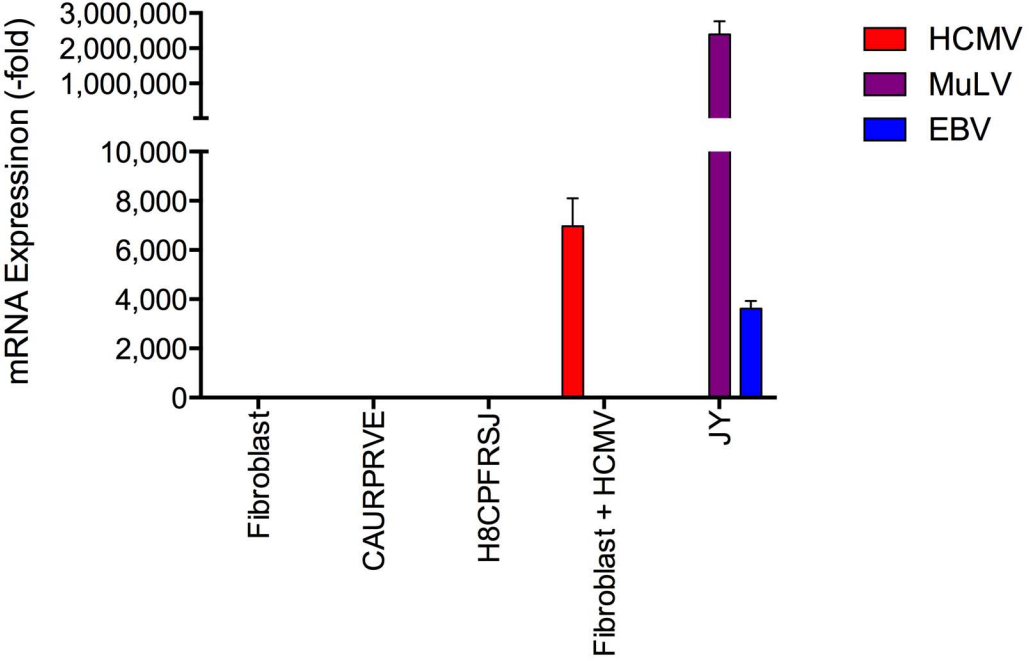
env
LTR


mRNA Expressinon (-fold)
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1,000,000
10,000
8,000
6,000
4,000
2,000
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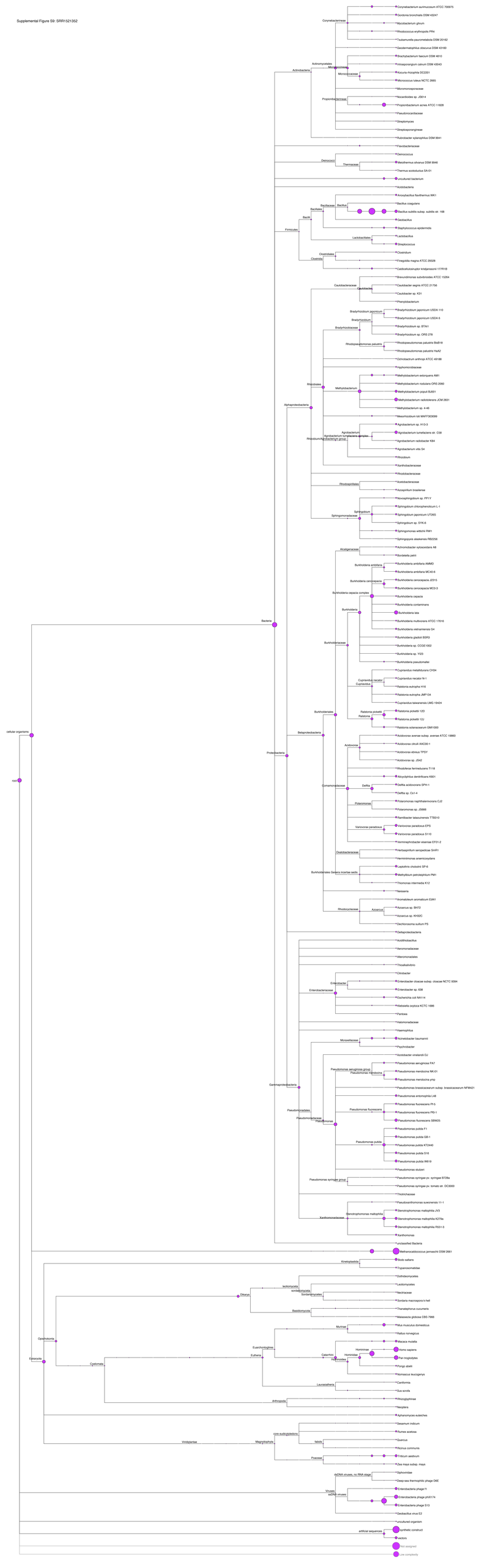
Fibroblast
CAURPRVE
H8CPFRSJ
Fibroblast + HCMV
JY
HCMV
MuLV
EBV

Supplemental Figure S9: SRR11521352


cellular organisms
root
Bacteria
Proteobacteria
Betaproteobacteria
Burkholderiales
Burkholderiaceae
Burkholderia cepacia complex
Burkholderia
Burkholderia ambifaria
Burkholderia ambifaria AMMD
Burkholderia ambifaria MC40-6
Burkholderia cenocepacia
Burkholderia cenocepacia J2315
Burkholderia cenocepacia MCO-3
Burkholderia cepacia
Burkholderia contaminans
Burkholderia lata
Burkholderia multivorans ATCC 17616
Burkholderia vietnamiensis G4
Burkholderia gladioli BSR3
Burkholderia sp. CCGE1002
Burkholderia sp. YI23
Burkholderia pseudomallei
Cupriavidus metallidurans CH34
Cupriavidus
Cupriavidus necator
Cupriavidus necator N-1
Ralstonia eutropha H16
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Ralstonia pickettii
Ralstonia pickettii 12D
Ralstonia pickettii 12J
Ralstonia solanacearum GMI1000
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Leptothrix cholodnii SP-6
Methylibium petroleiphilum PM1
Thiomonas intermedia K12
Neisseria
Rhodocyclaceae
Azoarcus
Azoarcus sp. BH72
Azoarcus sp. KH32C
Dechloromonas suillum PS
Comamonadaceae
Delftia
Delftia acidovorans SPH-1
Delftia sp. Cs1-4
Polaromonas
Polaromonas naphthalenivorans CJ2
Polaromonas sp. JS666
Rhenibacter tataouinensis TTB310
Variovorax paradoxus
Variovorax paradoxus EPS
Variovorax paradoxus S110
Herminiimonas arsenicoxydans
Hierarchicorpus arsenicoxydans
Acidovorax
Acidovorax avenae subsp. avenae ATCC 19860
Acidovorax citrulli AAC00-1
Acidovorax ebreus TPSY
Acidovorax sp. JS42
Rhodoferax ferrireducens T118
Alicycliphilus denitrificans K601
Betaproteobacteria
Gallionellales
Gallionella capsiferriformans ES-2
Gallionella
Gallionella acerbi
Gallionella acerbi Cl-2
Gallionella capsiferriformans
Gallionella capsiferriformans ES-2
Sideroxydans
Sideroxydans lithotrophicus ES-1
Sideroxydans lithotrophicus
Methylophilales
Methylophilaceae
Methylophilus
Methylophilus methylotrophus
Methylophilus methylotrophus AS1
Methylophilus sp. 5
Methylophilus sp. 7
Methylophilus sp. 8
Methylophilus sp. 9
Methylophilus sp. 12
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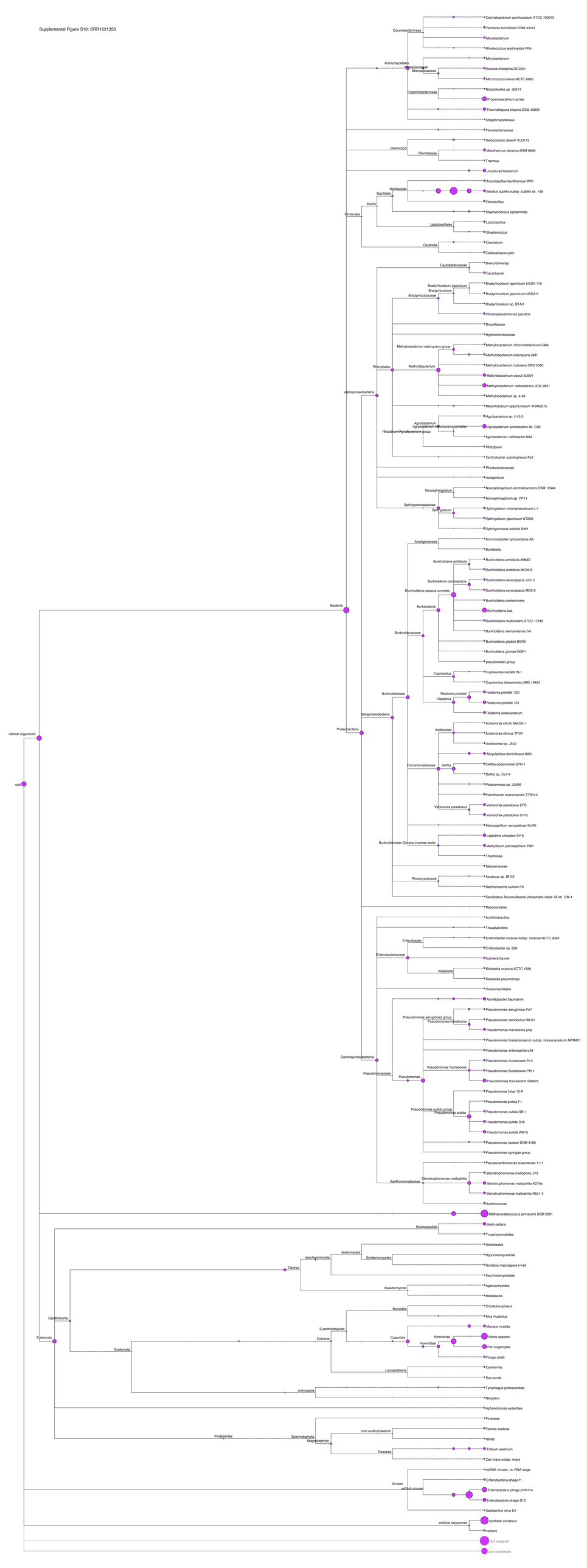
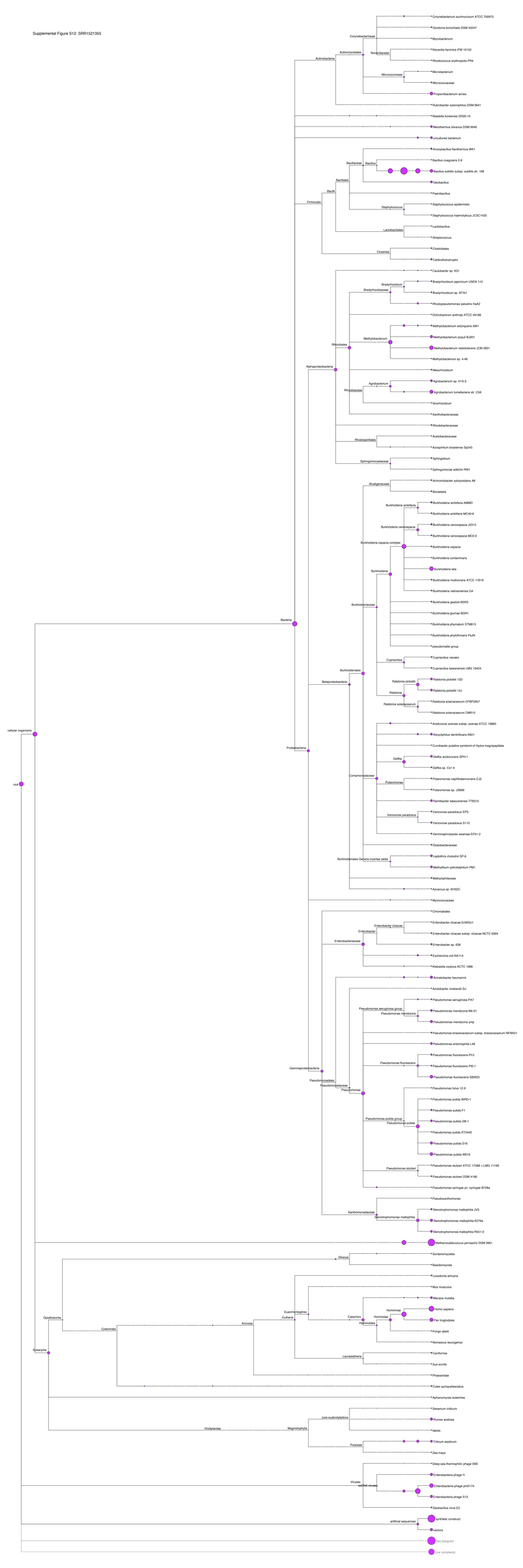
Supplemental Figure S10: SRR1521353



Supplemental Figure S11 SRR1021354

Supplemental Figure S12: SRR1521355



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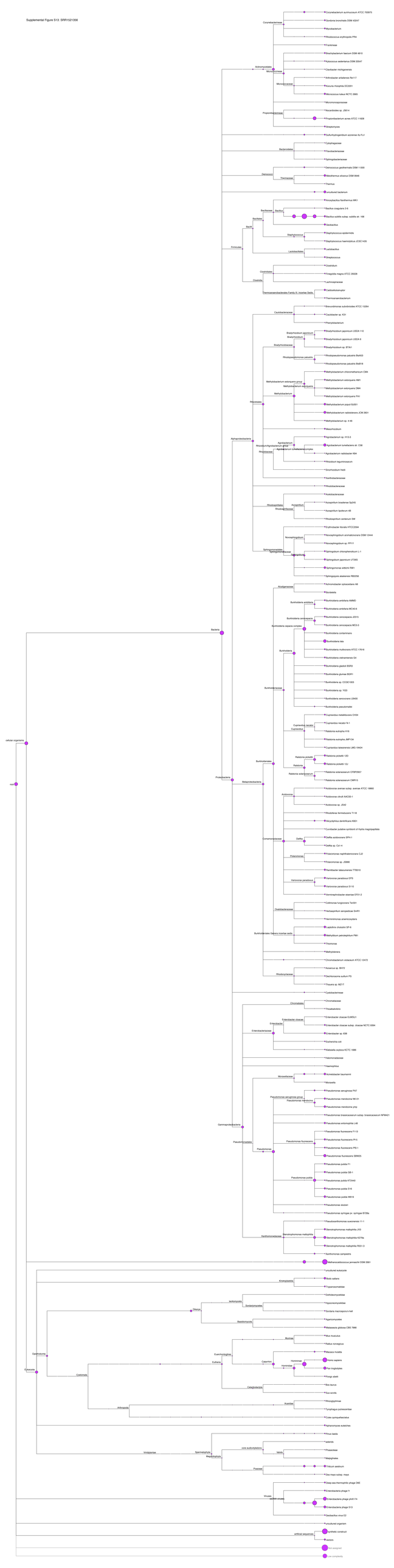
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Actinobacteria
Actinomycetales
Micrococcineae
Corynebacteriaceae
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Gordonia bronchialis DSM 43247
Mycobacterium
Rhodococcus erythropolis PR4
Frankineae
Brachybacterium faecium DSM 4810
Dietzia cinnamea
Kytococcus sedentarius DSM 20547
Cellulomonadaceae
Cellulomonas cellulans
Clavibacter michiganensis
Micrococcaceae
Arthrobacter arilaitensis Re117
Micrococcus luteus NCTC 2665
Rothia mucilaginosa DY-18
Yaniellaceae
Yaniella halotolerans
Microbacteriaceae
Agromyces
Agromyces ramosus
Amnibacterium
Amnibacterium kyonggiense
Aureobacterium
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Clavibacter
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Curtobacterium
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Frigoribacterium
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Gulosibacter
Gulosibacter molinativorax
Herbiconiux
Herbiconiux ginsengi
Humibacillus
Humibacillus xanthopallidus
Leifsonia
Leifsonia aquatica
Leucobacter
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Microbacterium
Microbacterium arborescens
Microbacterium chocolatum
Microbacterium esteraromaticum
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Microbacterium imperiale
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Microbacterium phyllosphaerae
Microbacterium testaceum
Microbacterium trichothecenolyticum
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Plantibacter
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Salinibacterium
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Propionibacteriales
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Tessaracoccus
Tessaracoccus bendigoensis
Acidimicrobiia
Acidimicrobiales
Ferrimicrobiaceae
Ferrimicrobium
Ferrimicrobium acidiphilum
Sulfuricaulis
Sulfuricaulis limicola
Solirubrobacterales
Conexibacteraceae
Conexibacter
Conexibacter woesei
Solirubrobacteraceae
Solirubrobacter
Solirubrobacter soli
Thermoleophilia
Gaiellales
Gaiellaceae
Gaiella
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Gaiella occulta SPH-1
Gaiella sp. Cc1-4
Gaiellales bacterium
Gaiellales bacterium KS13
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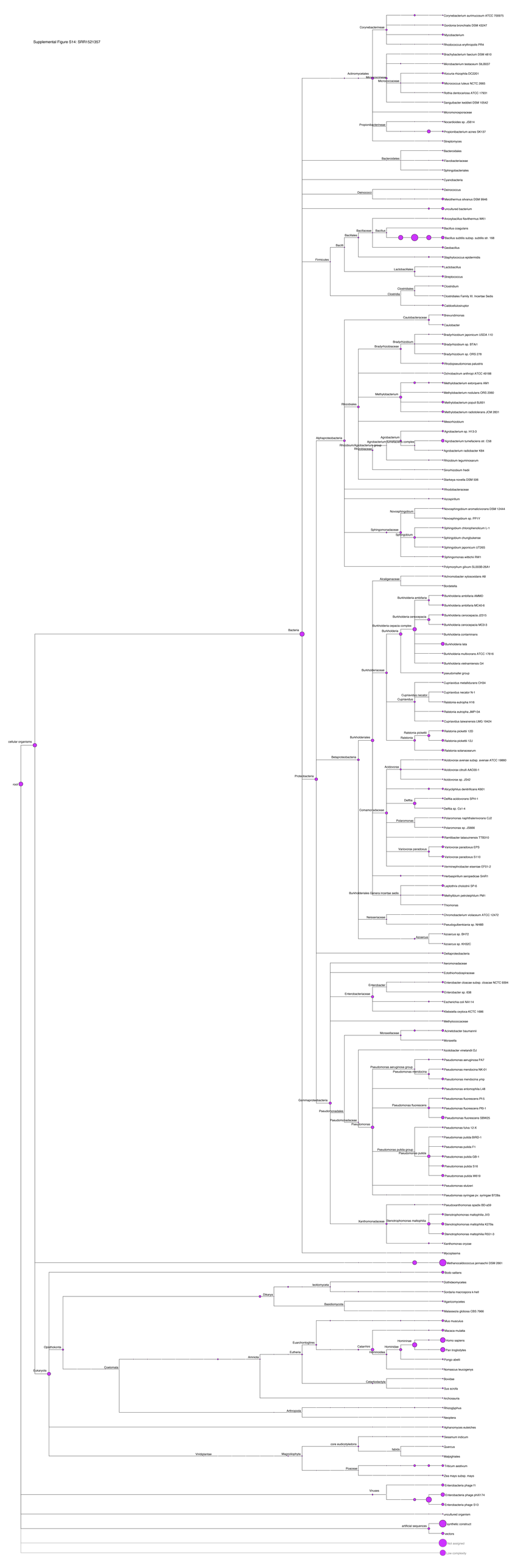
Supplemental Figure S14: SRR1521357



Supplemental Figure S15: SRR1521358

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Betaproteobacteria
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Burkholderia contaminans
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Supplemental Figure S16. SRR13213938

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Bacilli
Bacillales
Bacillus
Bacillus cereus
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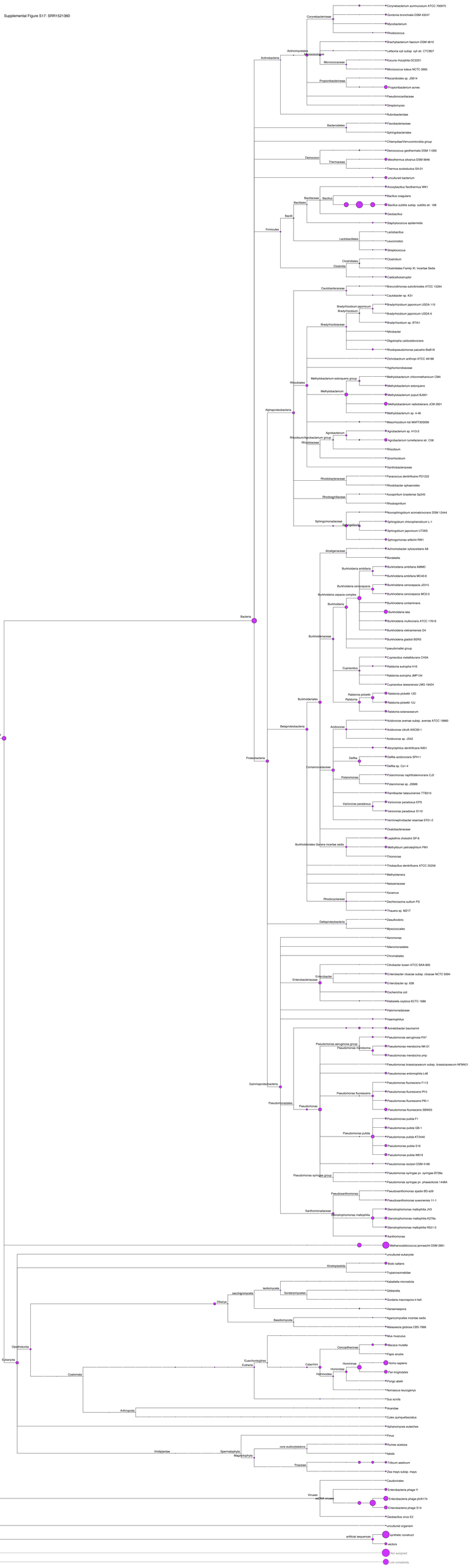
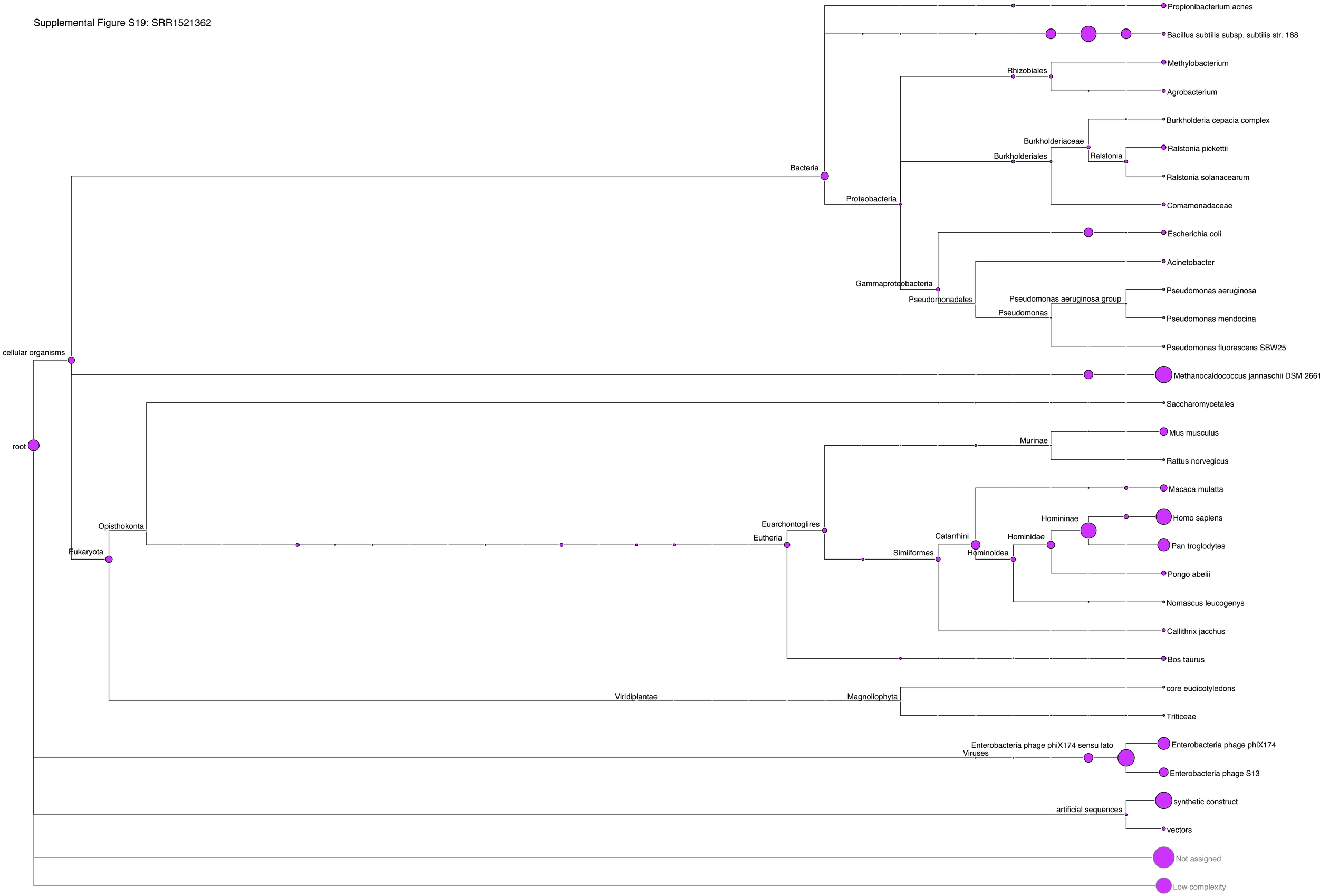
Geobacillus sp. WCH70
Staphylococcus epidermidis
Lactobacillales
Lactobacillus
Streptococcus
Clostridia
Clostridiales
Clostridium
Clostridiales Family XI. Incertae Sedis
Anaerofilum
Lachnoanaerobaculum saburreum ATCC 15264
Cyanobacteriaceae
Cyanothece
Cyanothece sp. PCC 7424
Flavobacteriaceae
Flavobacterium
Flavobacterium psychrophilum JIP02/86
Flavobacterium sp. CF136
Flavobacterium xanthum ATCC 43828
Proteobacteria
Alphaproteobacteria
Rhodobacterales
Rhodobacteraceae
Rhodobacter
Rhodobacter capsulatus
Rhodobacter sphaeroides
Paracoccus denitrificans PD1222
Rhodobacter sphaeroides
Rhodospirillales
Acetobacteraceae
Acetobacter
Acetobacter pasteurianus
Acetobacter sp. SXCC1
Magnetospirillaceae
Magnetospirillum
Magnetospirillum gryphiswaldense
Magnetospirillum magneticum
Magnetospirillum sp. SO-1
Rhodospirillaceae
Rhodospirillum
Rhodospirillum rubrum
Sphingomonadales
Sphingomonadaceae
Sphingomonas
Sphingomonas elodea
Sphingomonas sp. ERGS4
Sphingomonas wittichii RW1
Sphingopyxis alaskensis RB2256
Myxococcales
Myxococcus
Myxococcus fulvus
Myxococcus xanthus
Nannocystis exedens
Sorangium cellulosum
Deltaproteobacteria
Desulfobacterales
Desulfobacteraceae
Desulfobacter
Desulfobacter postgatei
Desulfobacter sp. BG7
Desulfobacula
Desulfobacula toluolica
Desulfobacula sp. BG7
Desulfobulbaceae
Desulfobulbus
Desulfobulbus propionicus
Desulfobulbus sp. H1
Desulfovibrionales
Desulfovibrionaceae
Desulfovibrio
Desulfovibrio desulfuricans
Desulfovibrio desulfuricans ND132
Desulfovibrio fructosivorans
Desulfovibrio magneticus
Desulfovibrio magneticus RS-1
Desulfovibrio piger
Desulfovibrio vulgaris
Desulfovibrio vulgaris DP4
Desulfovibrio vulgaris Hildenborough
Desulfovibrio vulgaris RCH1
Desulfovibrio vulgaris str. 'Miyazaki F'
Desulfovibrio vulgaris str. 'Miyazaki F' (ATCC 29579)
Desulfovibrio vulgaris str. 'Miyazaki F' (DSM 19637)
Desulfovibrio vulgaris str. 'Miyazaki F' (JCM 20893)
Desulfovibrio vulgaris str. 'Miyazaki F' (NCIMB 8303)
Desulfovibrio vulgaris str. 'Miyazaki F' (NCTC 11302)
Desulfovibrio vulgaris str. 'Miyazaki F' (NCTC 11303)
Desulfovibrio vulgaris str. 'Miyazaki F' (NCTC 11304)
Desulfovibrio vulgaris str. 'Miyazaki F' (NCTC 11305)
Desulfovibrio vulgaris str. 'Miyazaki F' (NCTC 11306)
Desulfovibrio vulgaris str. 'Miyazaki F' (NCTC

Supplemental Figure S17: SRR1521360


cellular organisms
root
Bacteria
Actinobacteria
Actinomycetales
Micrococcineae
Corynebacterineae
Corynebacterium aurimucosum ATCC 700975
Gordonia bronchialis DSM 43247
Mycobacterium
Rhodococcus
Micrococcaceae
Brachybacterium faecium DSM 4810
Leifsonia xyli subsp. xyli str. CTCB07
Kocuria rhizophila DC2201
Micrococcus luteus NCTC 2665
Propionibacterineae
Nocardioides sp. JS614
Propionibacterium acnes
Pseudonocardiaceae
Streptomyces
Rubrobacteridae
Bacteroidetes
Flavobacteriaceae
Sphingobacteriales
Chlamydiae/Verrucomicrobia group
Deinococcus-Thermus
Deinococcus geothermalis DSM 11300
Deinococci
Thermaceae
Meiothermus silvanus DSM 9946
Thermus scotoductus SA-01
uncultured bacterium
Firmicutes
Bacilli
Bacillales
Bacillaceae
Bacillus
Anoxybacillus flavithermus WK1
Bacillus coagulans
Bacillus subtilis subsp. subtilis str. 168
Geobacillus
Staphylococcus epidermidis
Lactobacillales
Lactobacillus
Leuconostoc
Streptococcus
Clostridia
Clostridiales
Clostridium
Clostridiales Family XI. Incertae Sedis
Caldicellulosiruptor
Alphaproteobacteria
Rhizobiales
Caulobacteraceae
Brevundimonas subvibrioides ATCC 15264
Caulobacter sp. K31
Bradyrhizobiaceae
Bradyrhizobium japonicum
Bradyrhizobium japonicum USDA 110
Bradyrhizobium japonicum USDA 6
Bradyrhizobium sp. BTAi1
Nitrobacter
Oligotropha carboxidovorans
Rhodopseudomonas palustris BisB18
Ochrobactrum anthropi ATCC 49188
Hyphomicrobiaceae
Methylobacterium extorquens group
Methylobacterium chloromethanicum CM4
Methylobacterium extorquens
Methylobacterium
Methylobacterium populi BJ001
Methylobacterium radiotolerans JCM 2831
Methylobacterium sp. 4-46
Mesorhizobium loti MAFF303099
Rhizobium/Agrobacterium group
Agrobacterium
Agrobacterium sp. H13-3
Agrobacterium tumefaciens str. C58
Rhizobiaceae
Rhizobium
Sinorhizobium
Xanthobacteraceae
Rhodobacteraceae
Paracoccus denitrificans PD1222
Rhodobacter sphaeroides
Rhodospirillaceae
Azospirillum brasilense Sp245
Rhodospirillum
Sphingomonadaceae
Novosphingobium aromaticivorans DSM 12444
Sphingobium
Sphingobium chlorophenolicum L-1
Sphingobium japonicum UT26S
Sphingomonas wittichii RW1
Betaproteobacteria
Burkholderiales
Alcaligenaceae
Achromobacter xylosoxidans A8
Bordetella
Burkholderiaceae
Burkholderia ambifaria
Burkholderia ambifaria AMMD
Burkholderia ambifaria MC40-6
Burkholderia cenocepacia
Burkholderia cenocepacia J2315
Burkholderia cenocepacia MC0-3
Burkholderia cepacia complex
Burkholderia
Burkholderia contaminans
Burkholderia lata
Burkholderia multivorans ATCC 17616
Burkholderia vietnamiensis G4
Burkholderia gladioli BSR3
pseudomallei group
Cupriavidus
Cupriavidus metallidurans CH34
Ralstonia eutropha H16
Ralstonia eutropha JMP134
Cupriavidus taiwanensis LMG 19424
Ralstonia
Ralstonia pickettii
Ralstonia pickettii 12D
Ralstonia pickettii 12J
Ralstonia solanacearum
Oxalobacteraceae
Acidovorax
Acidovorax avenae subsp. avenae ATCC 19860
Acidovorax citrulli AAC00-1
Acidovorax sp. JS42
Alcaligenes
Alcaligenes denitrificans K601
Delftia
Delftia acidovorans SPH-1
Delftia sp. Cs1-4
Comamonadaceae
Polaromonas
Polaromonas naphthalenivorans CJ2
Polaromonas sp. JS666
Rhamibacter tataouinensis TTB310
Variovorax
Variovorax paradoxus EPS
Variovorax paradoxus S110
Verminephrobacter eiseniae EF01-2
Chromobacteriaceae
Chromobacterium violaceum ATCC 12472
Chromobacterium violaceum ATCC 31532
Chromobacterium violaceum ATCC 31533
Chromobacterium violaceum ATCC 31534
Chromobacterium violaceum ATCC 31535
Chromobacterium violaceum ATCC 31536
Chromobacterium violaceum ATCC 31537
Chromobacterium violaceum ATCC 31538
Chromobacterium violaceum ATCC 31539
Chromobacterium violaceum ATCC 31540
Chromobacterium violaceum ATCC 31541
Chromobacterium violaceum ATCC

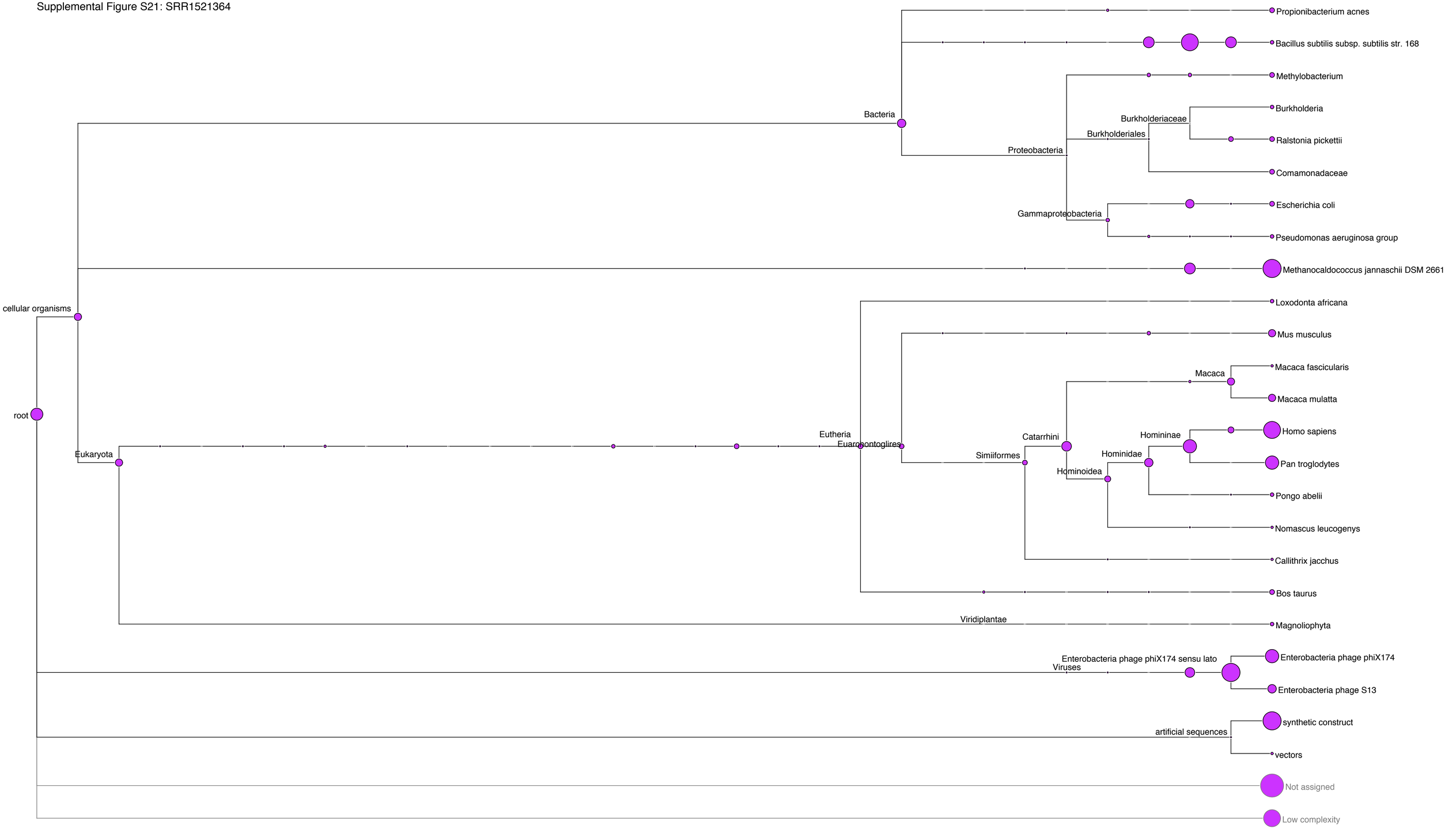
Supplemental Figure S18: SRR1521361

Supplemental Figure S19: SRR1521362

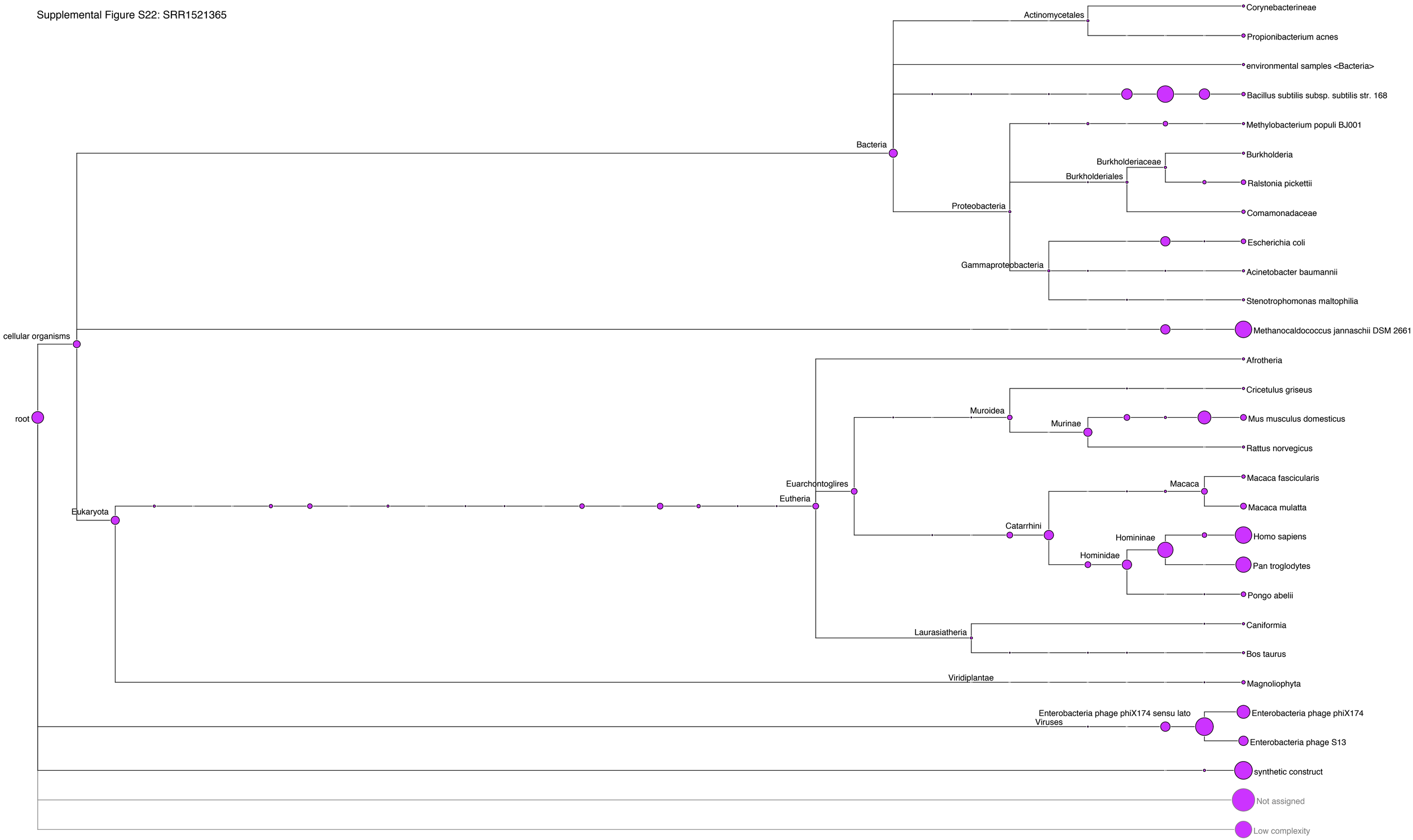


Supplemental Figure S20: SRR1521363

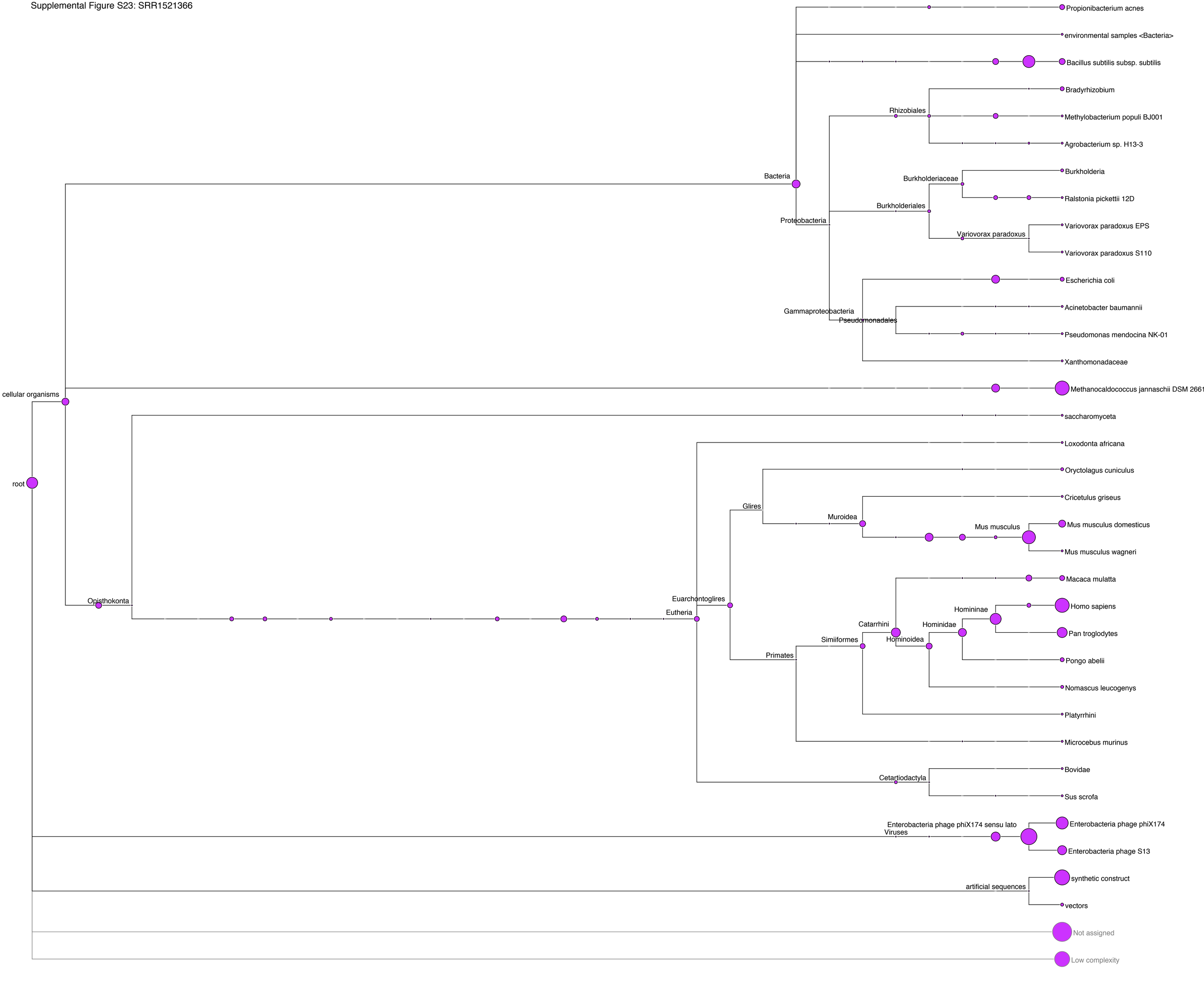
Supplemental Figure S21: SRR1521364



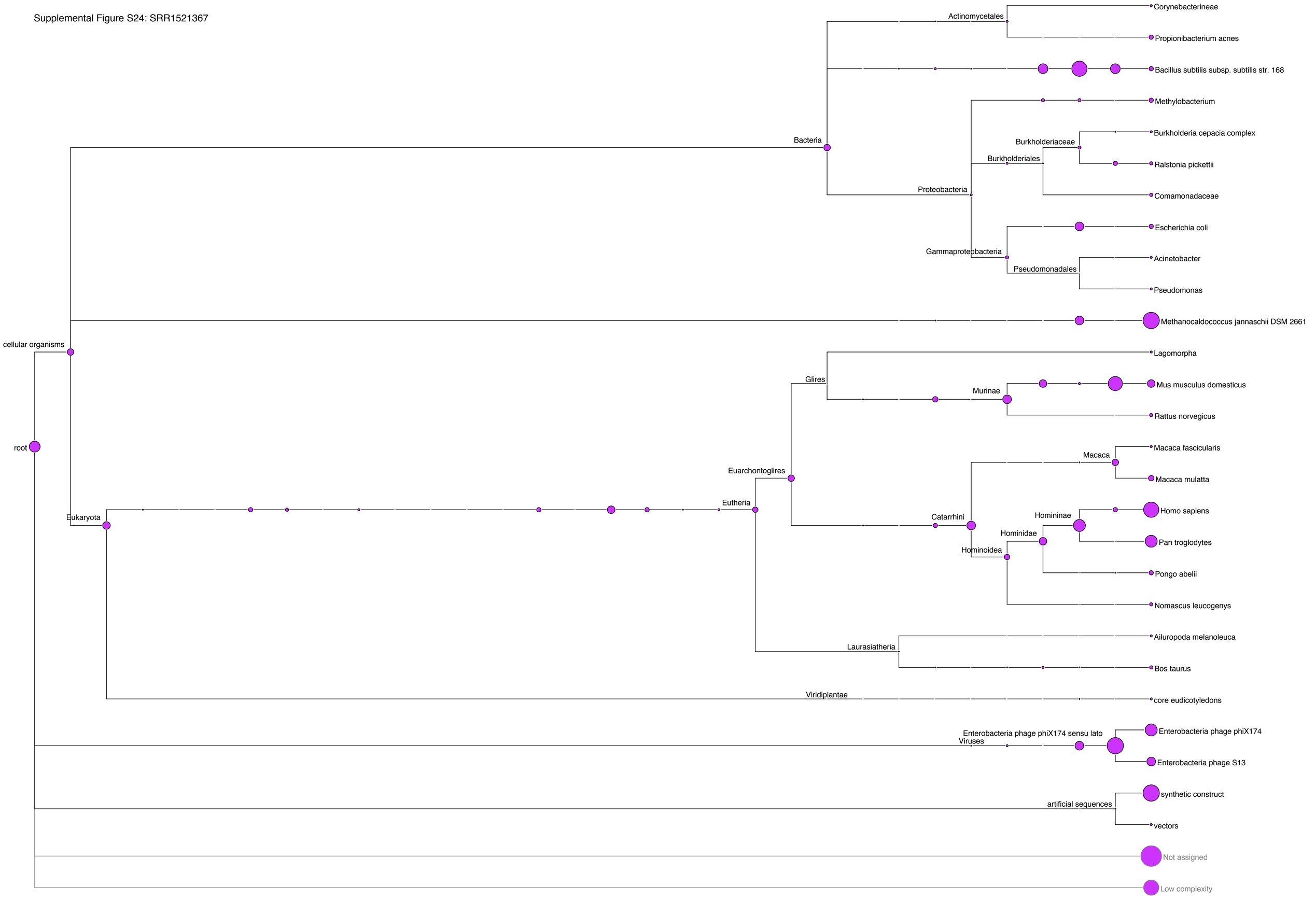
Supplemental Figure S22: SRR1521365



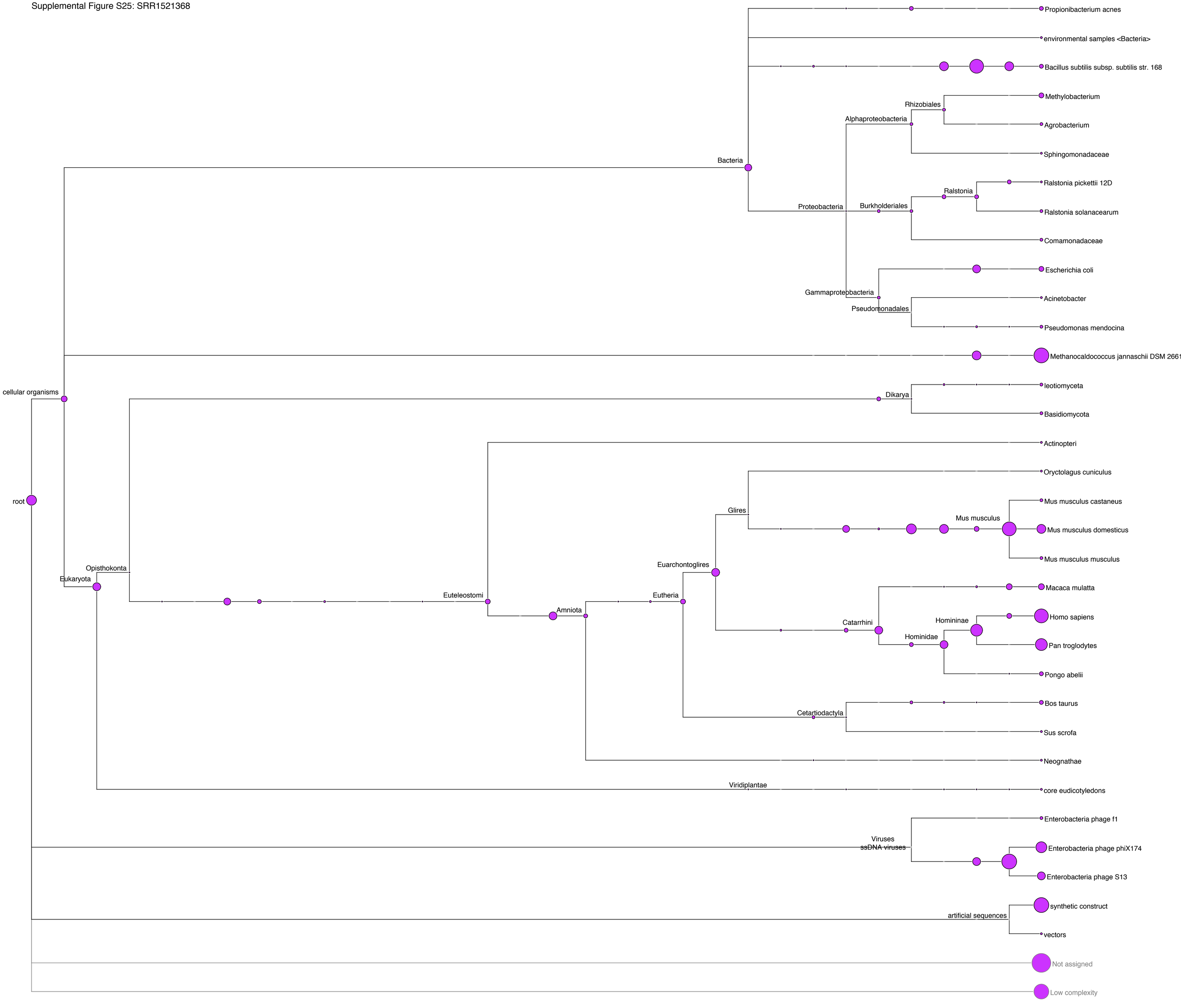
Supplemental Figure S23: SRR1521366



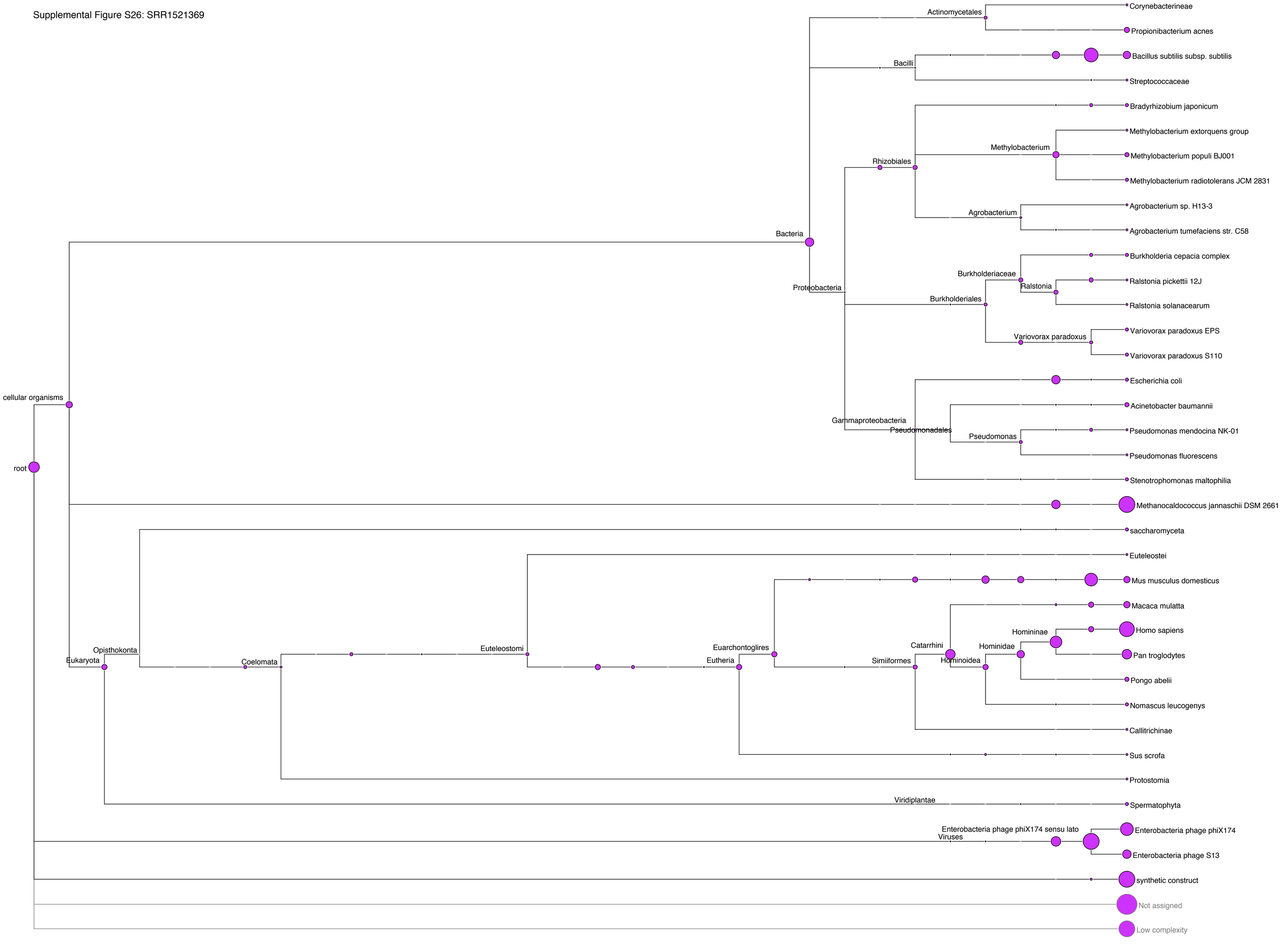
Supplemental Figure S24: SRR1521367



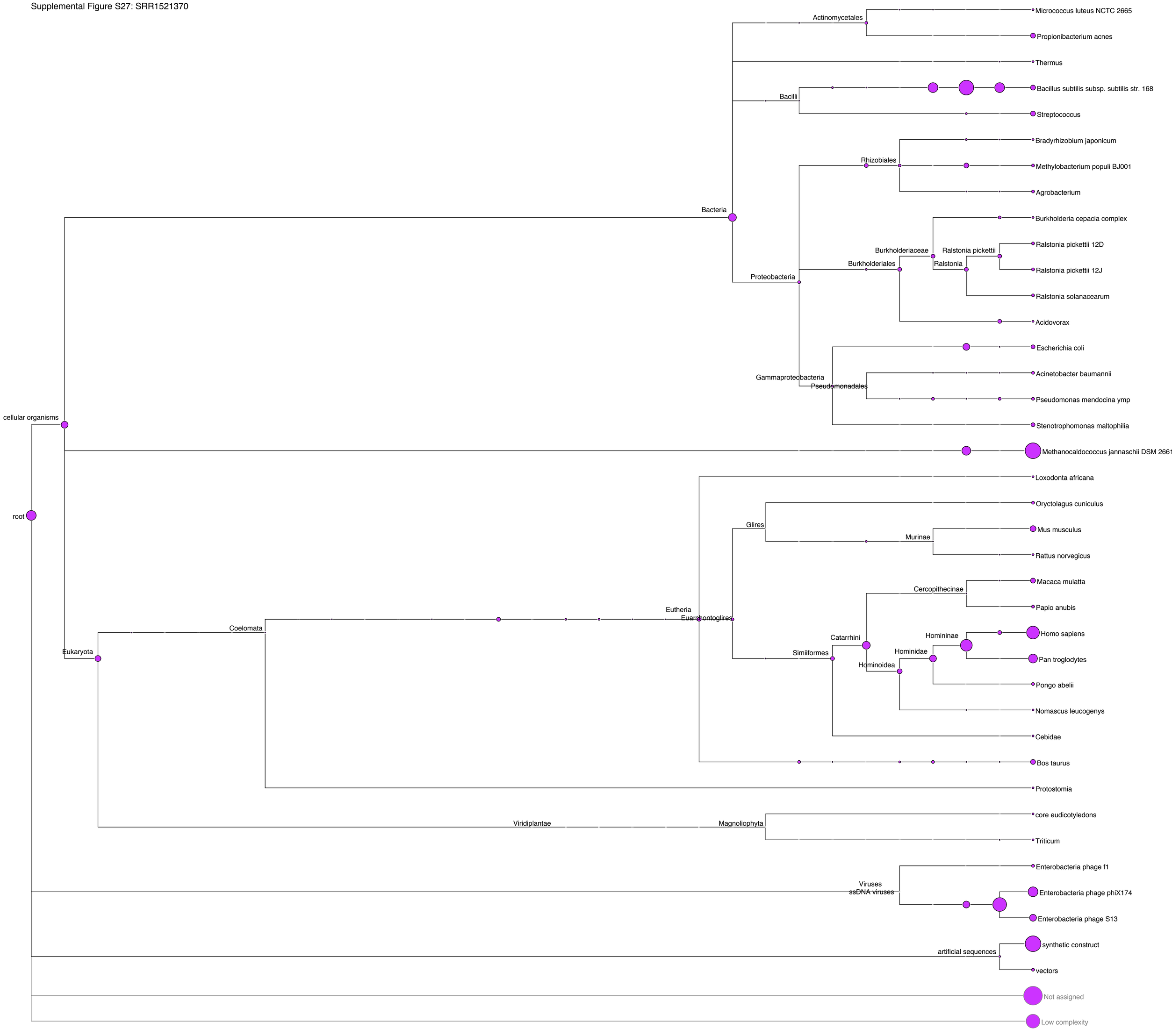
Supplemental Figure S25: SRR1521368



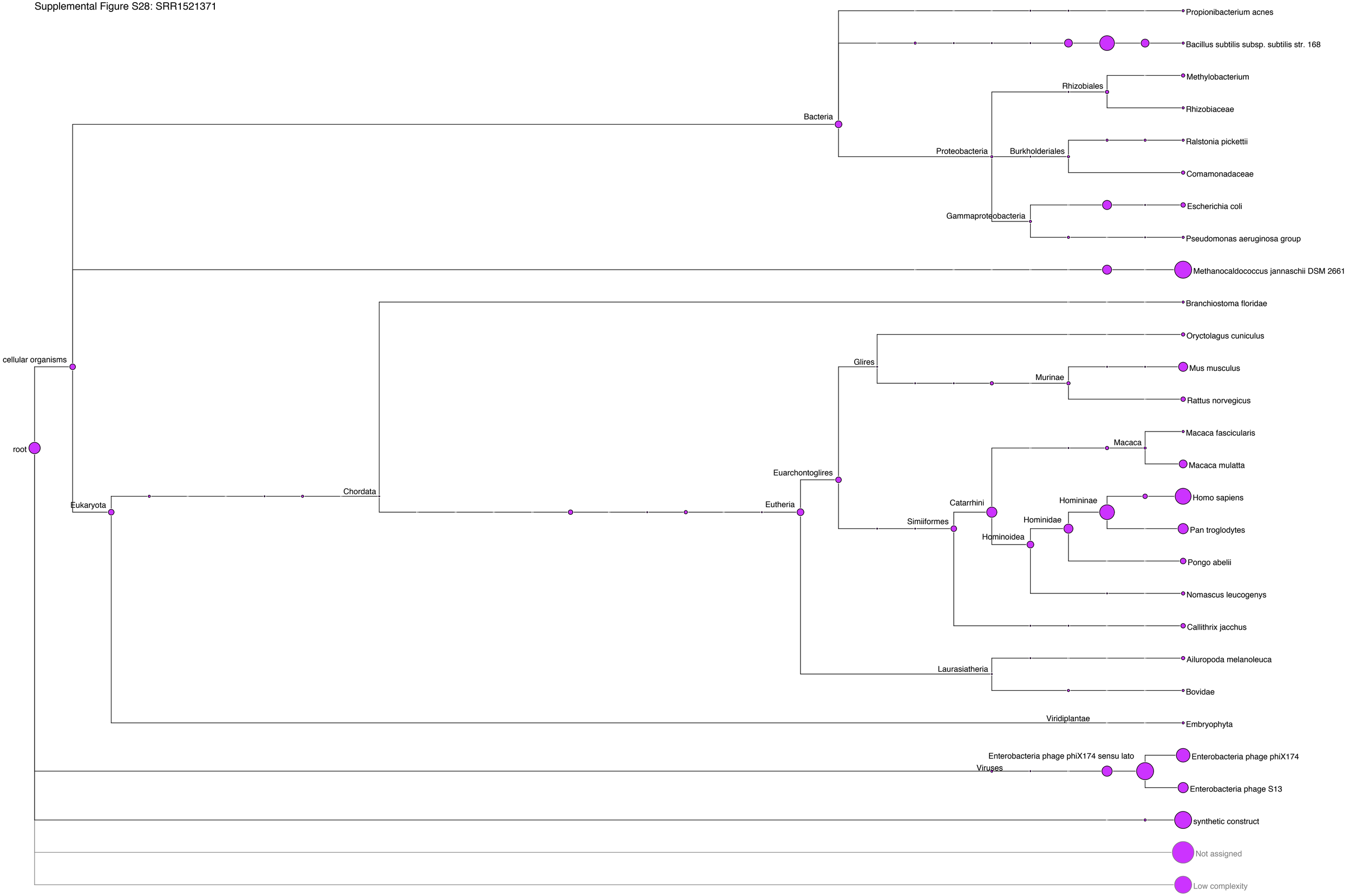
Supplemental Figure S26: SRR1521369



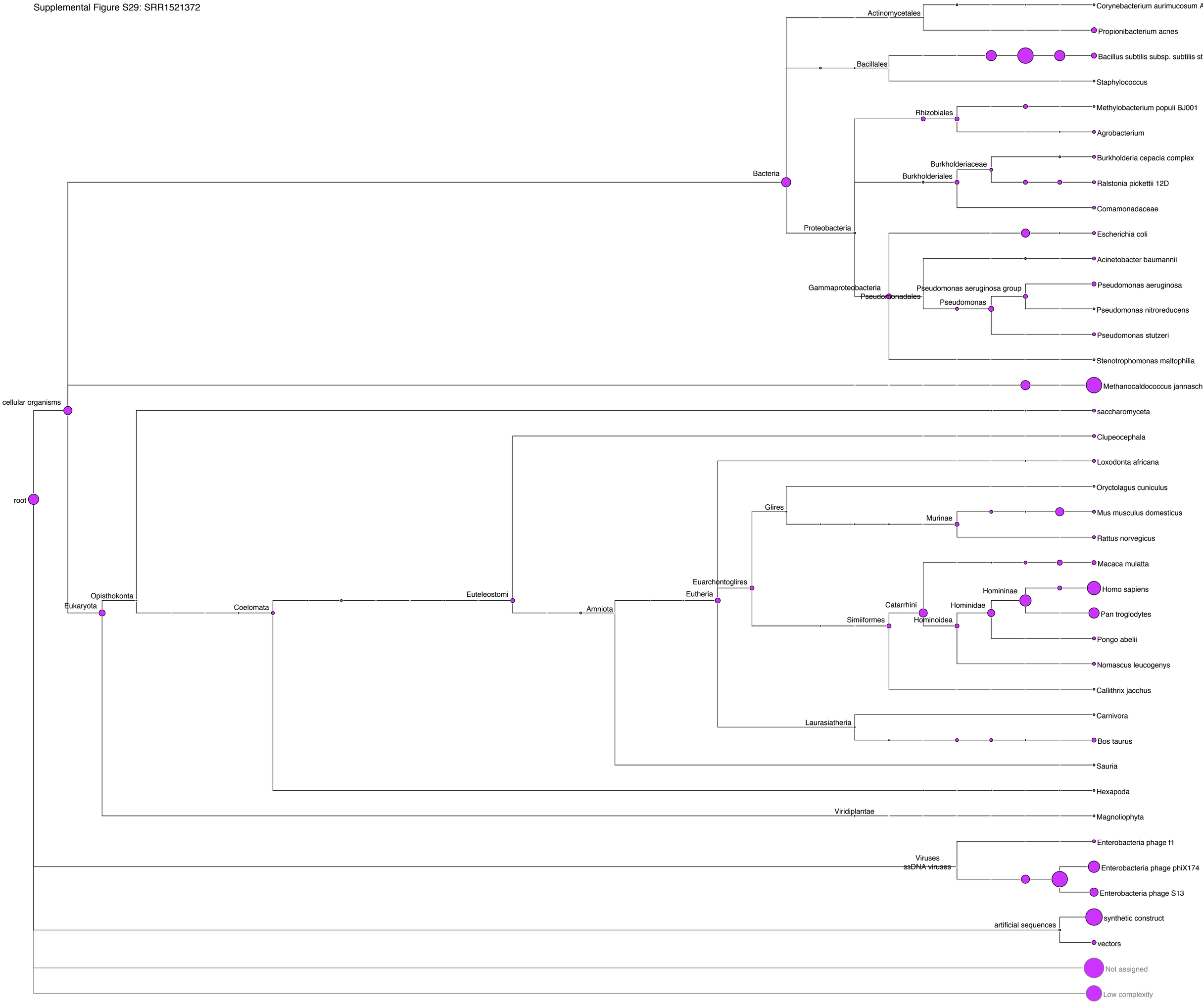
Supplemental Figure S27: SRR1521370



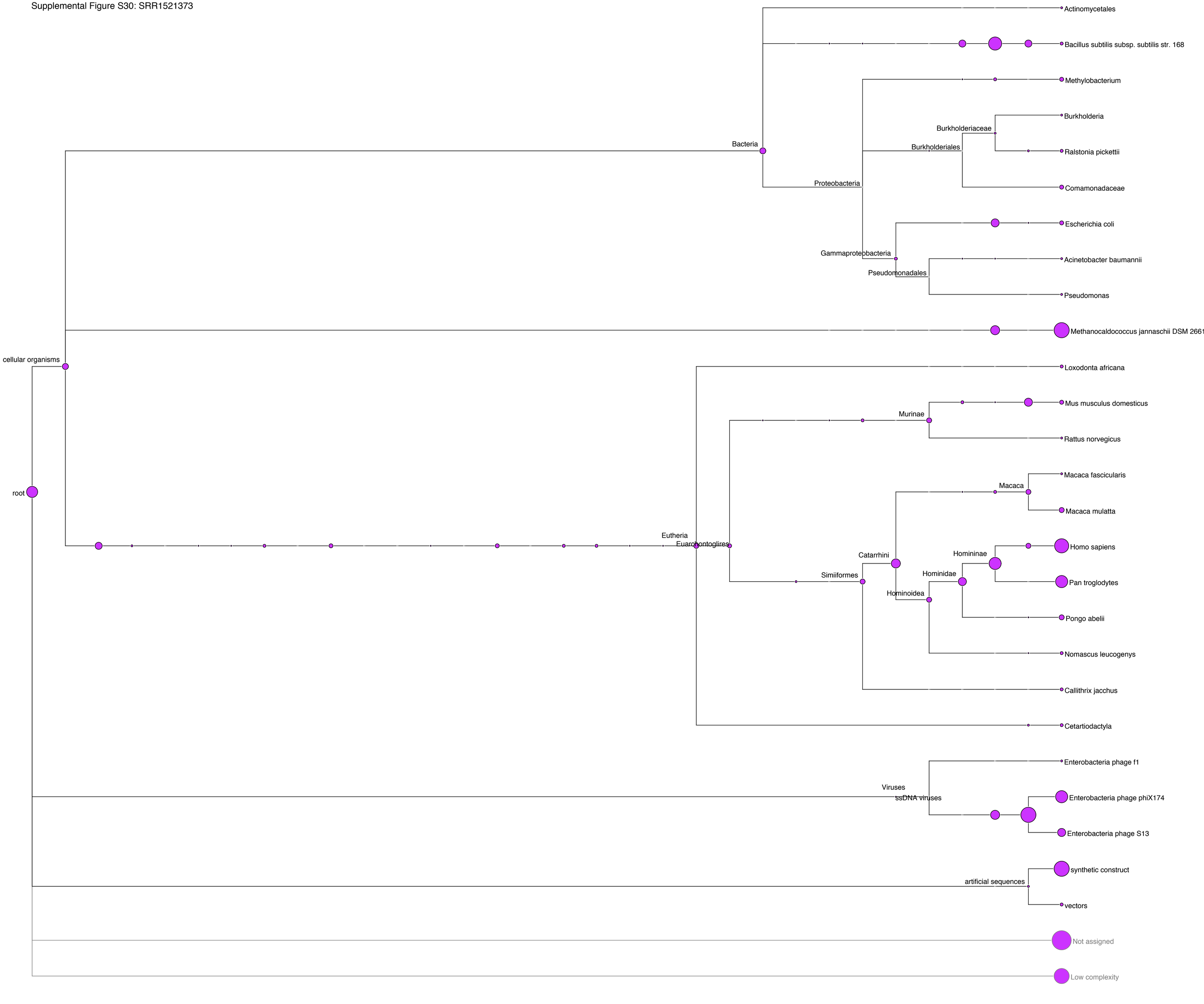
Supplemental Figure S28: SRR1521371



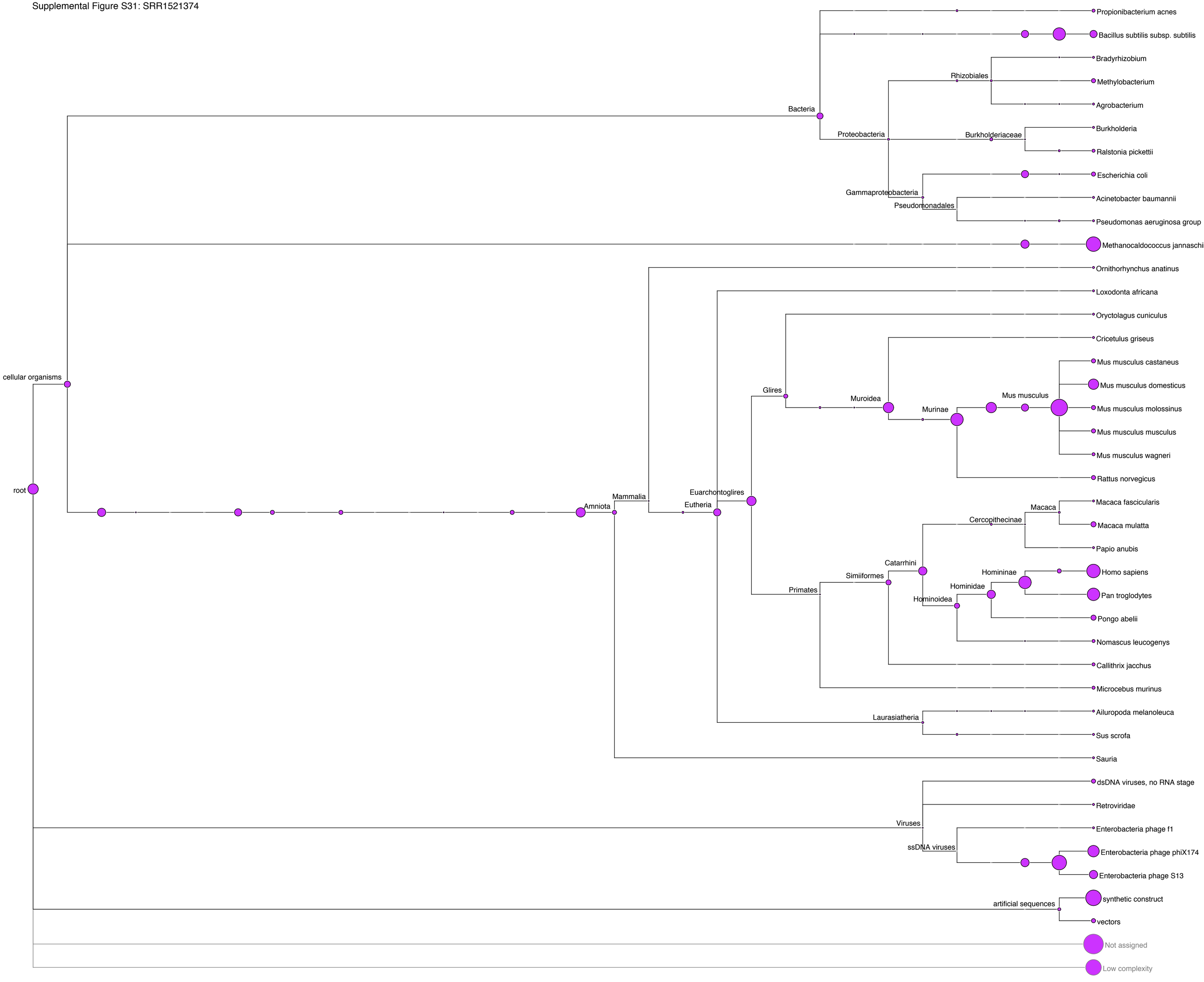
Supplemental Figure S29: SRR1521372



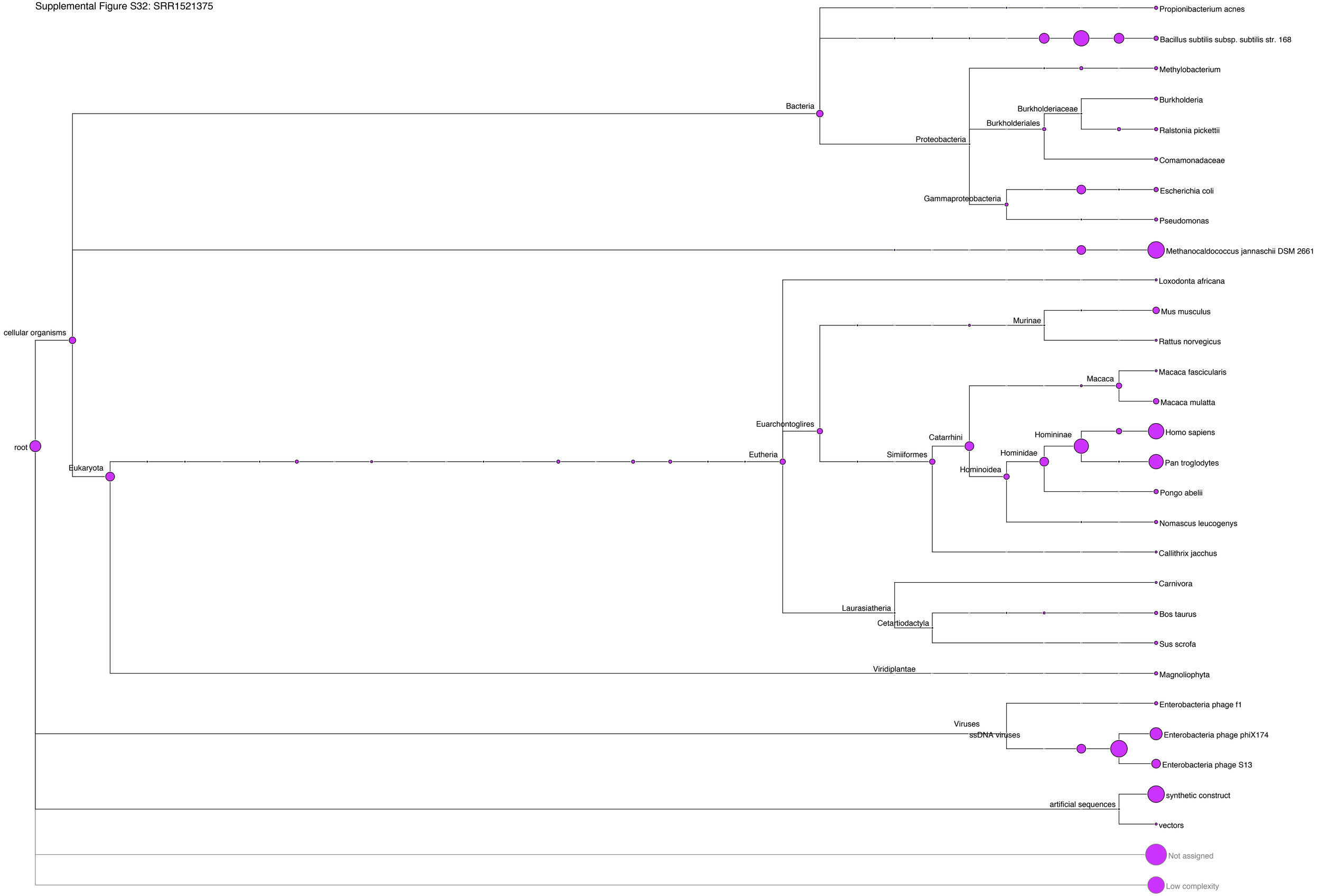
Supplemental Figure S30: SRR1521373



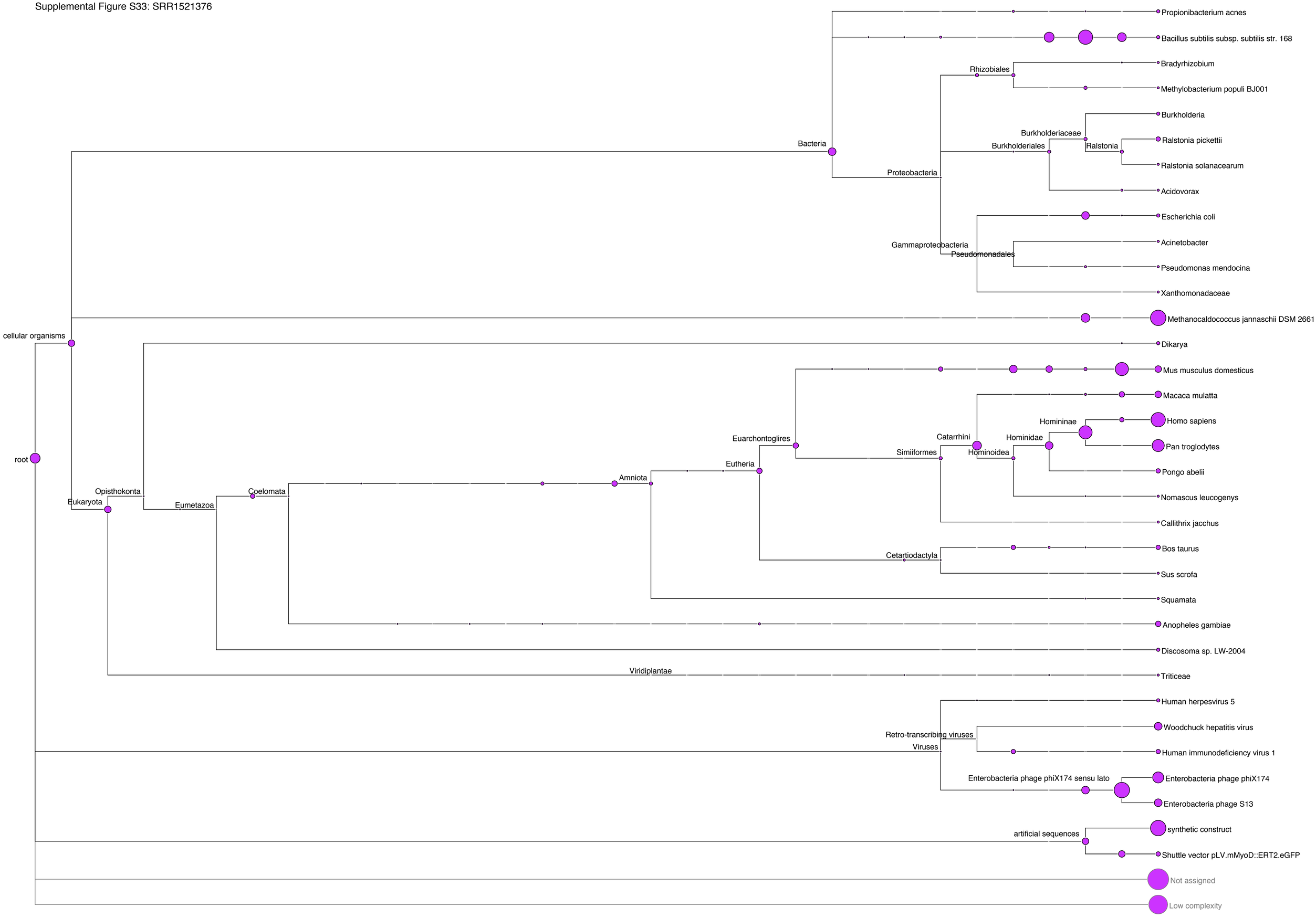
Supplemental Figure S31: SRR1521374



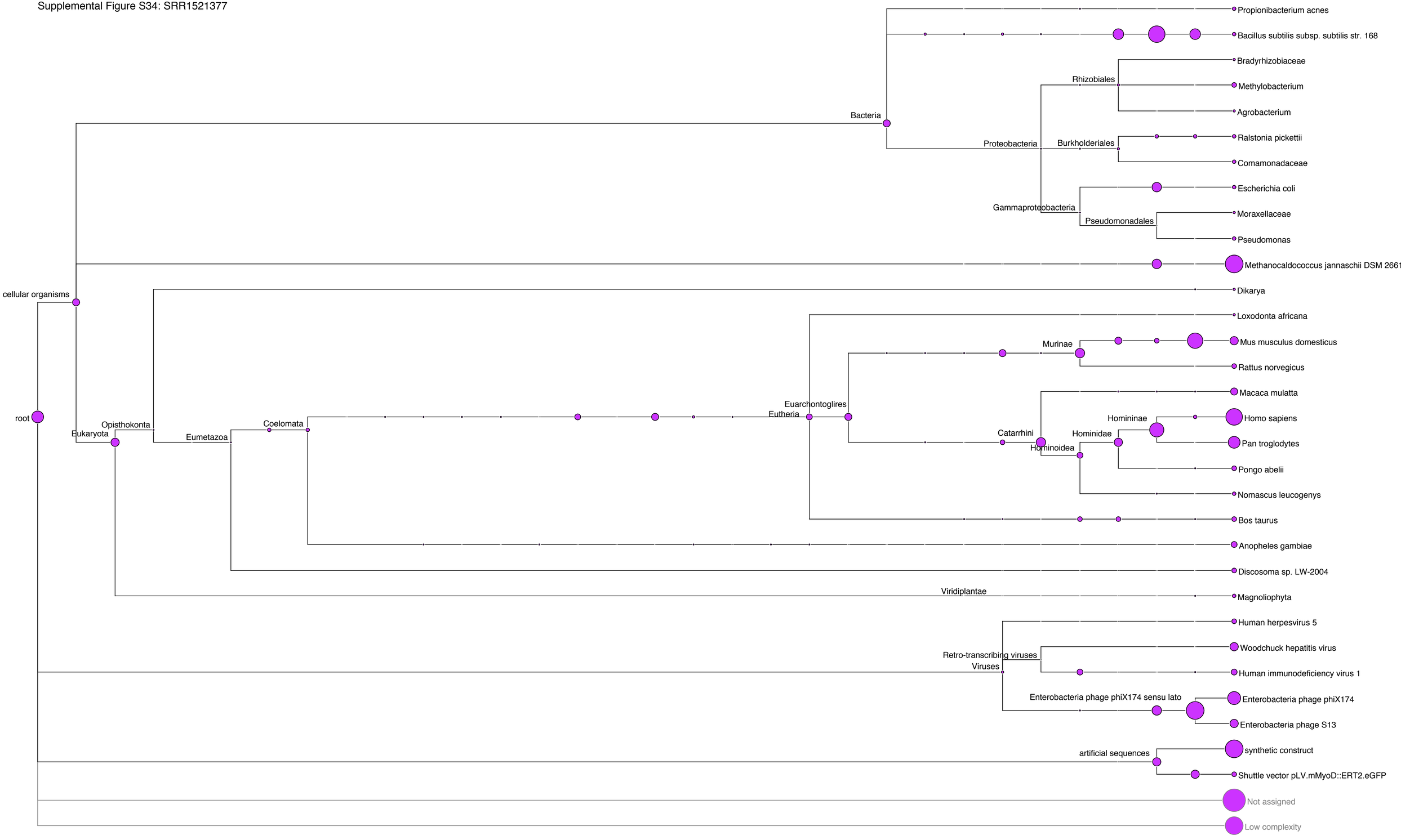
Supplemental Figure S32: SRR1521375



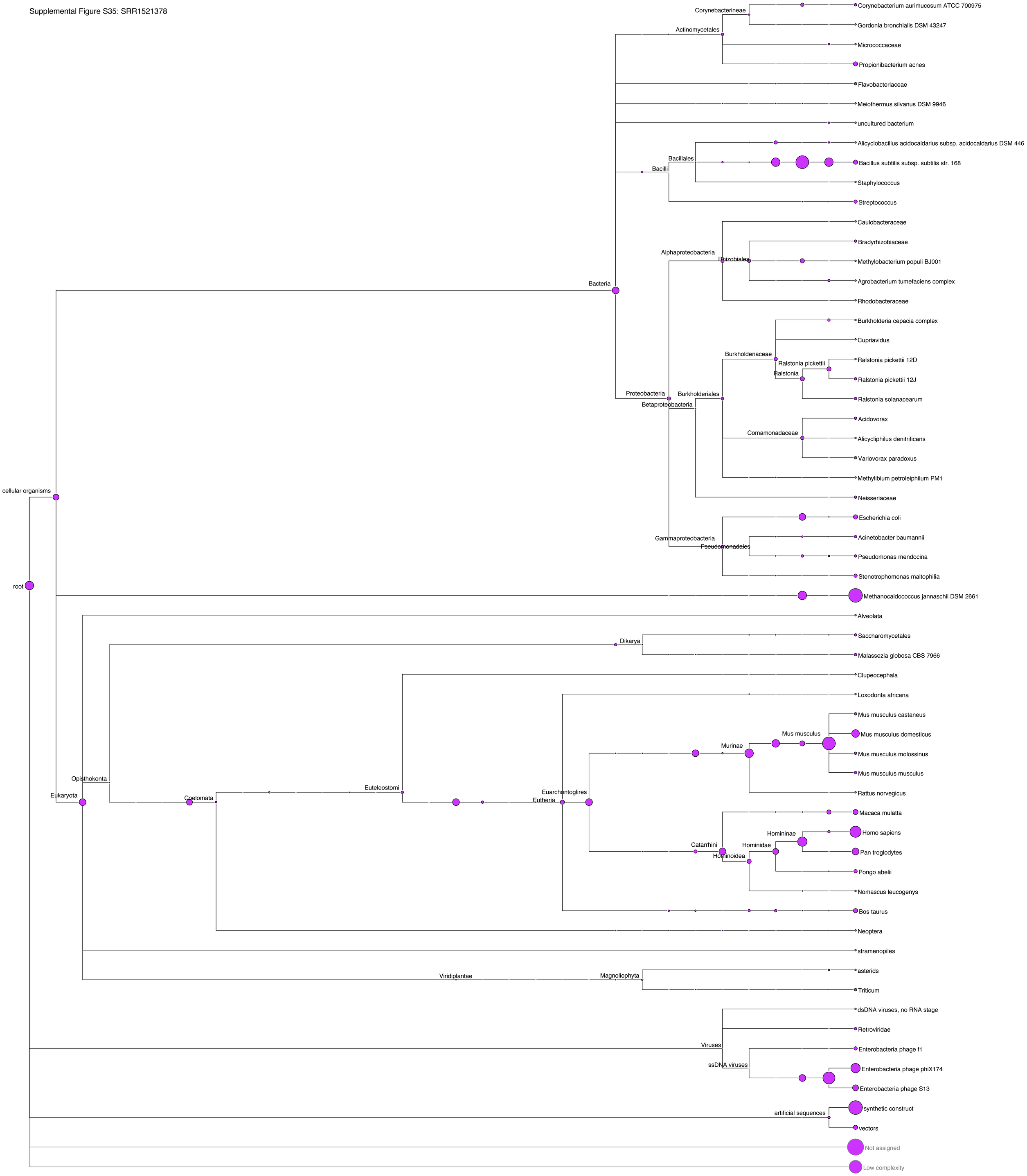
Supplemental Figure S33: SRR1521376



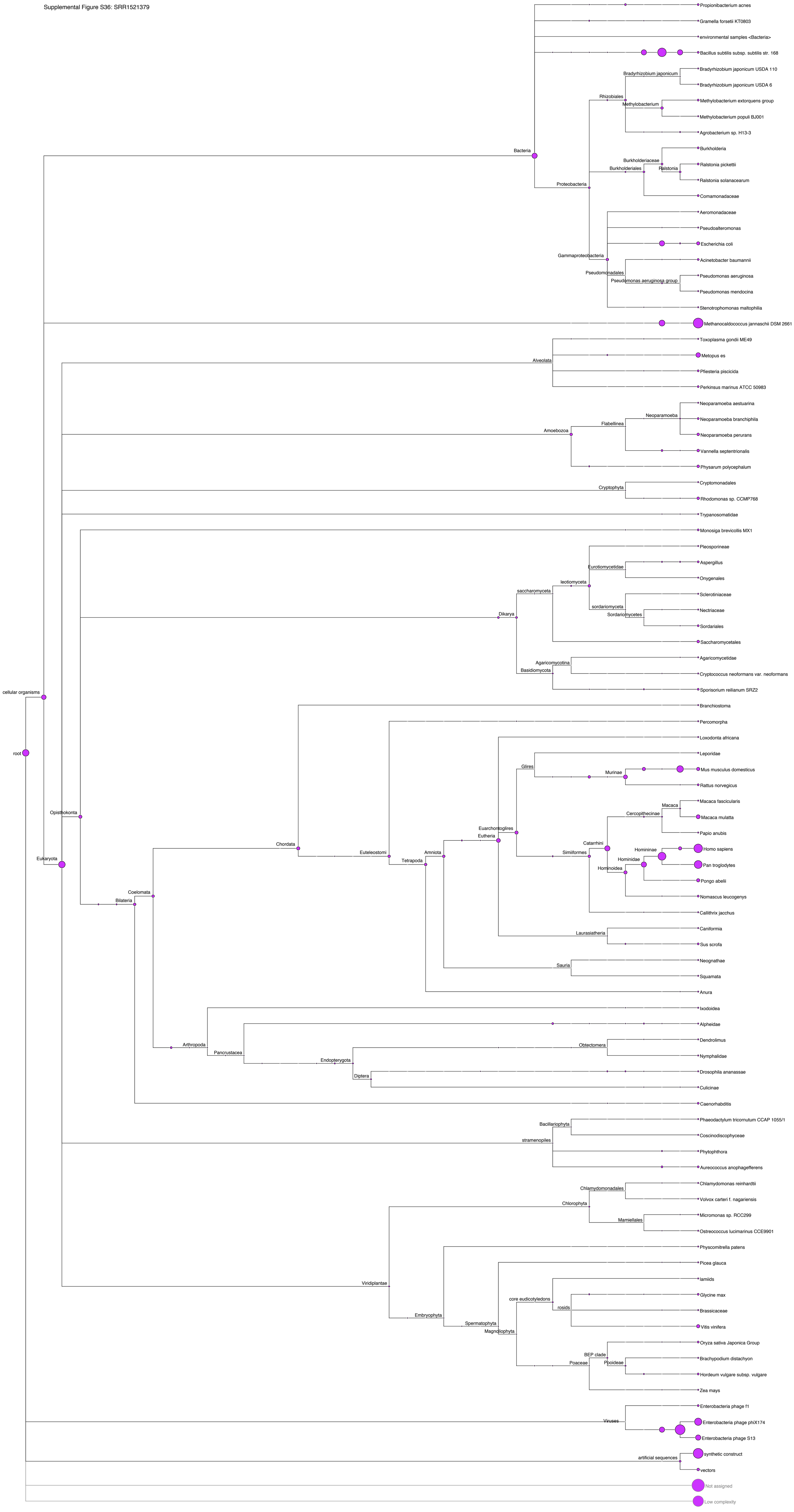
Supplemental Figure S34: SRR1521377



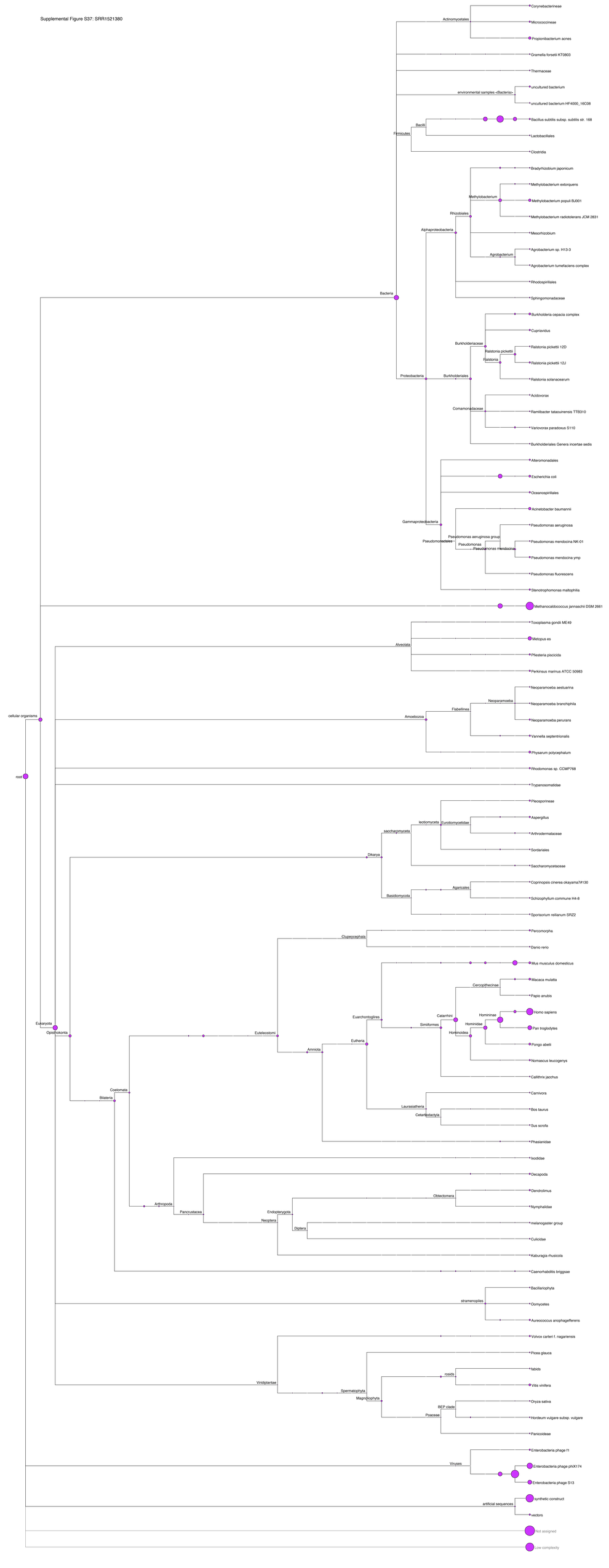
Supplemental Figure S35: SRR1521378



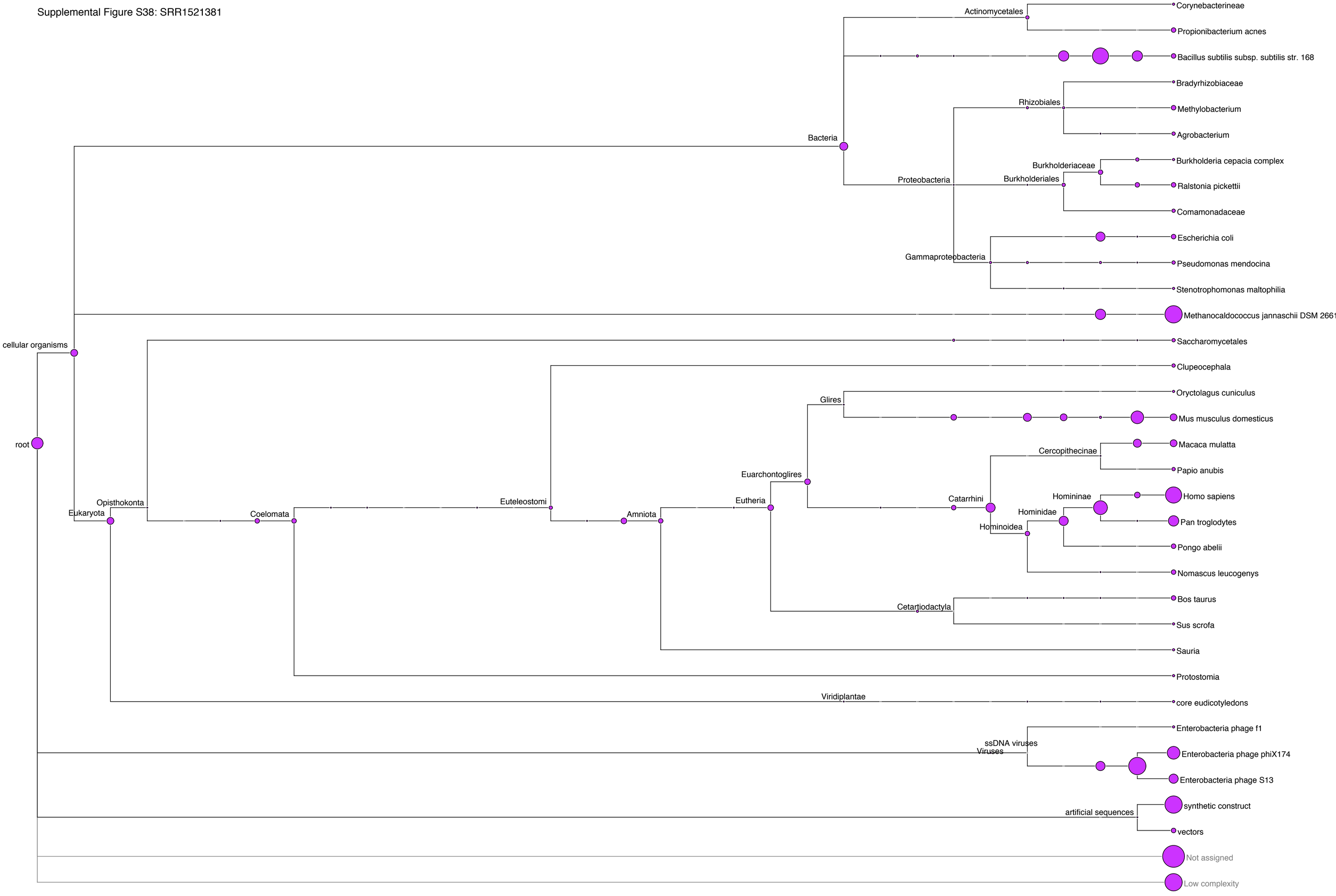
Supplemental Figure S36: SRR1521379



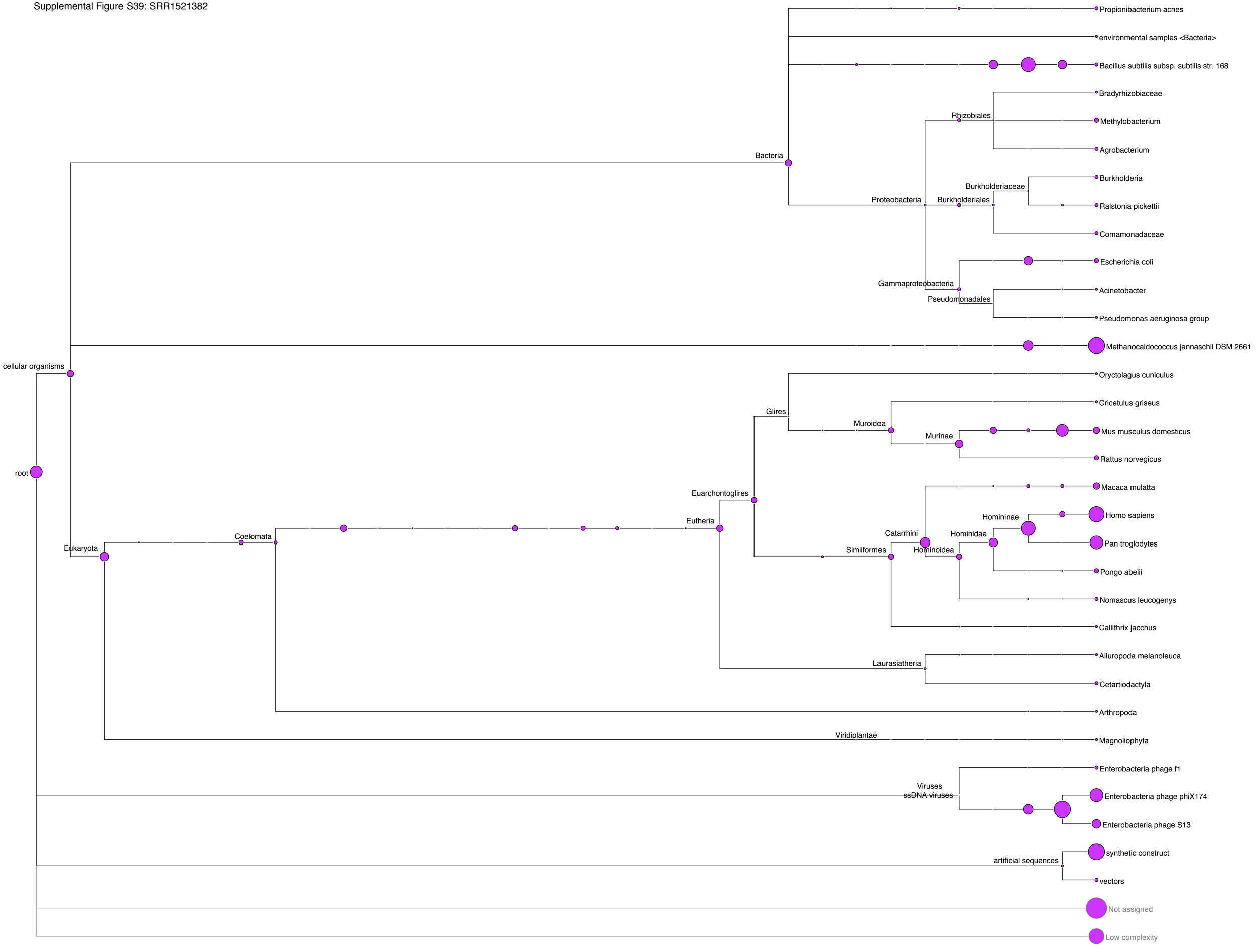
Supplemental Figure S37: SRR1521380



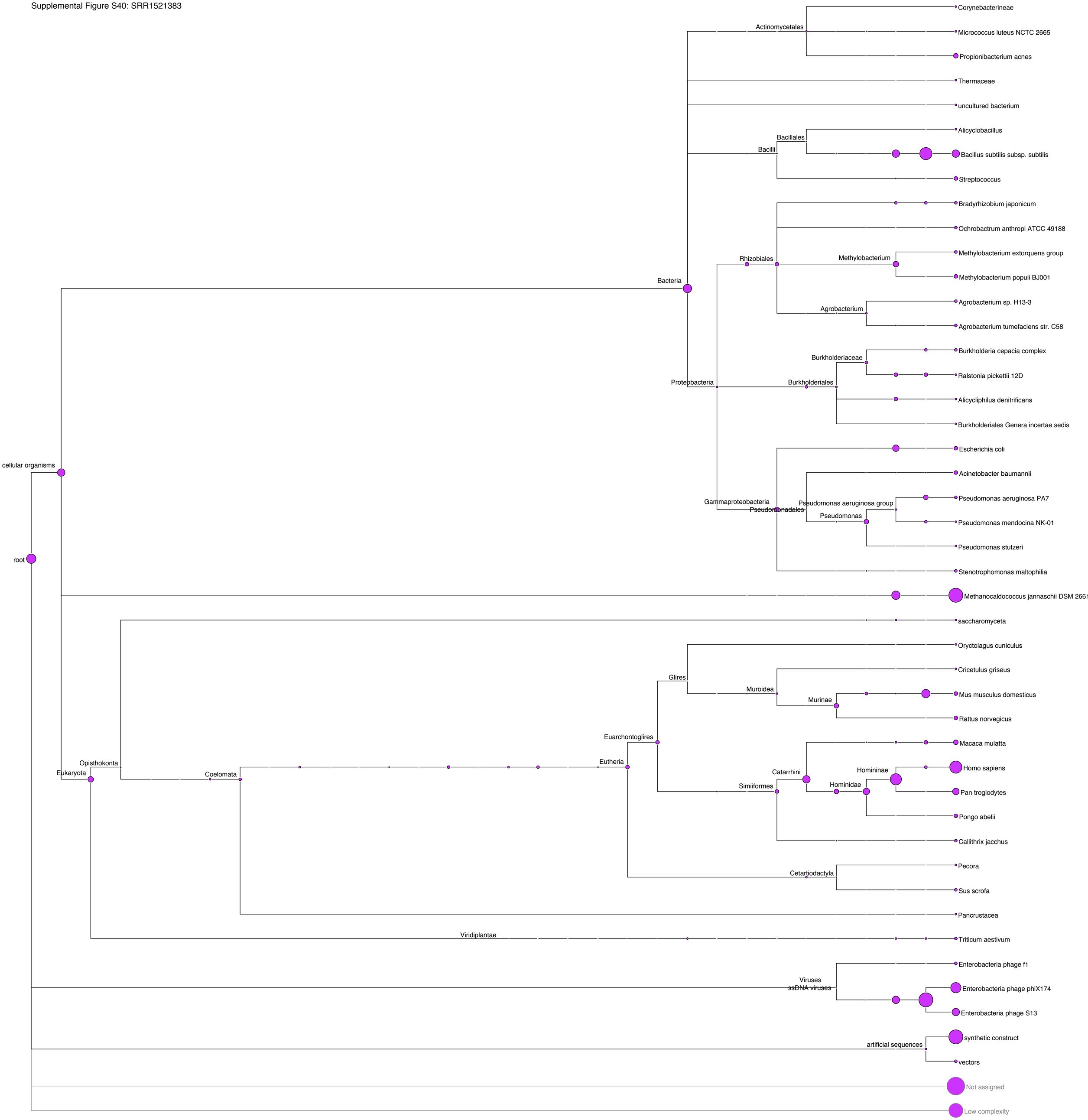
Supplemental Figure S38: SRR1521381



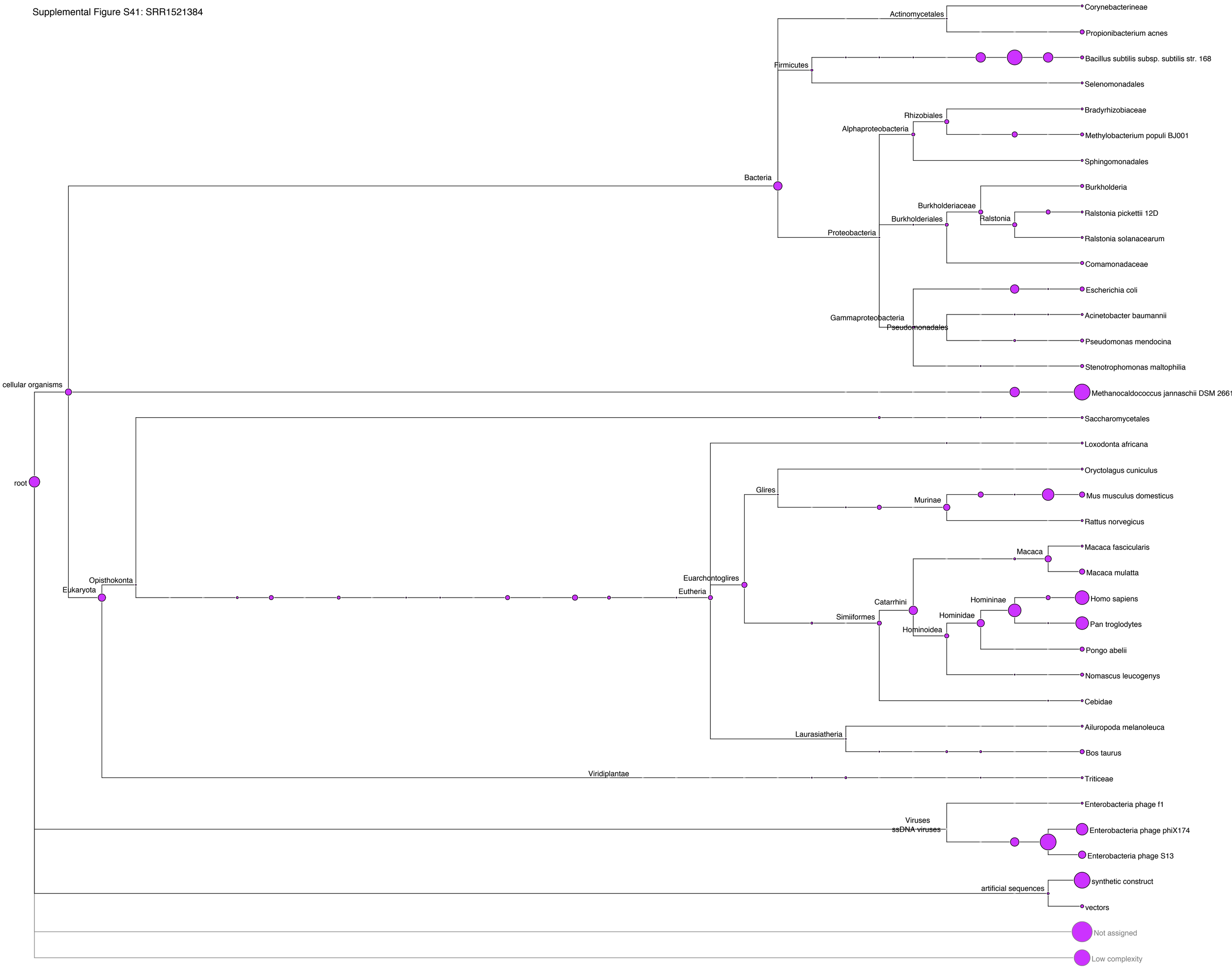
Supplemental Figure S39: SRR1521382



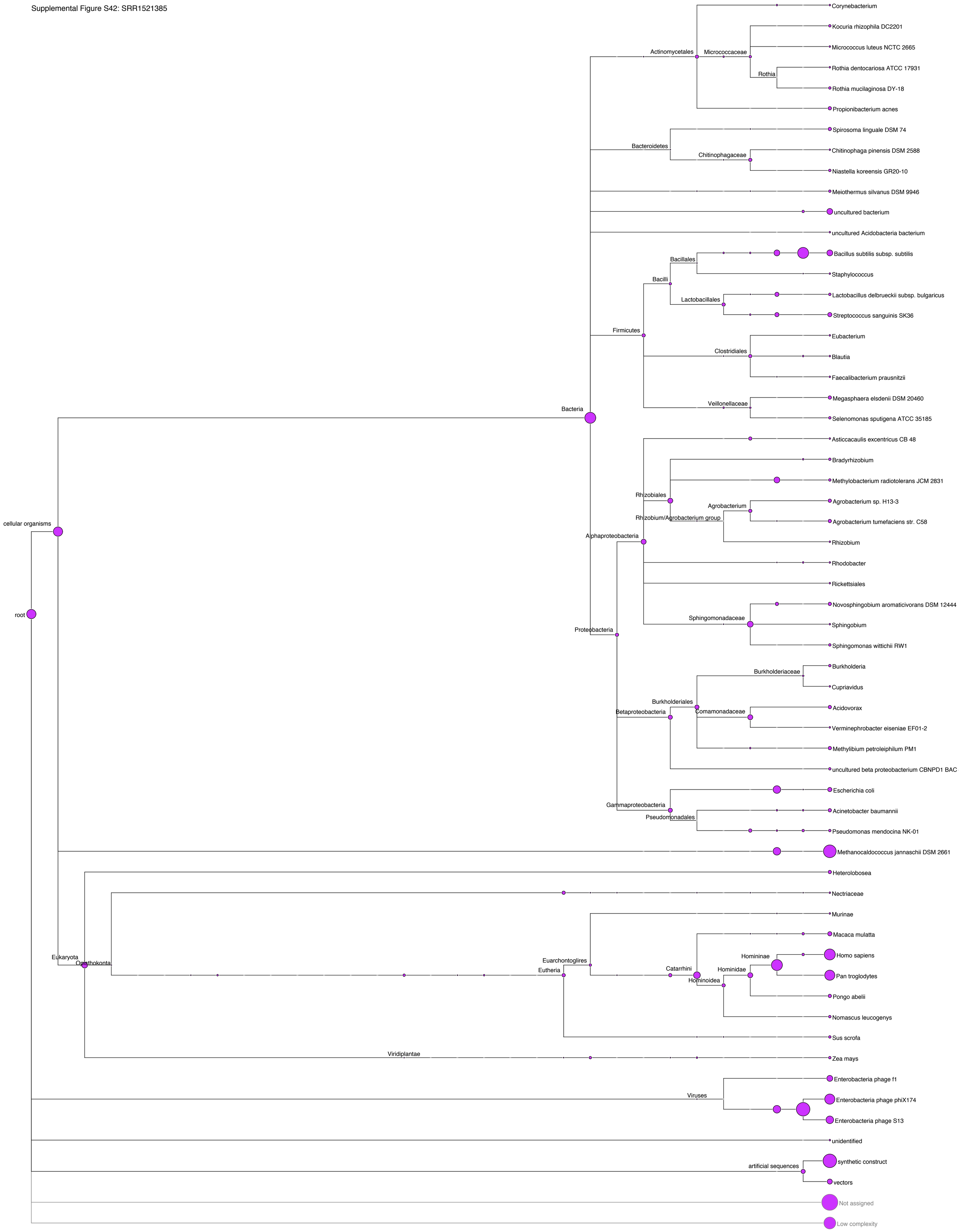
Supplemental Figure S40: SRR1521383



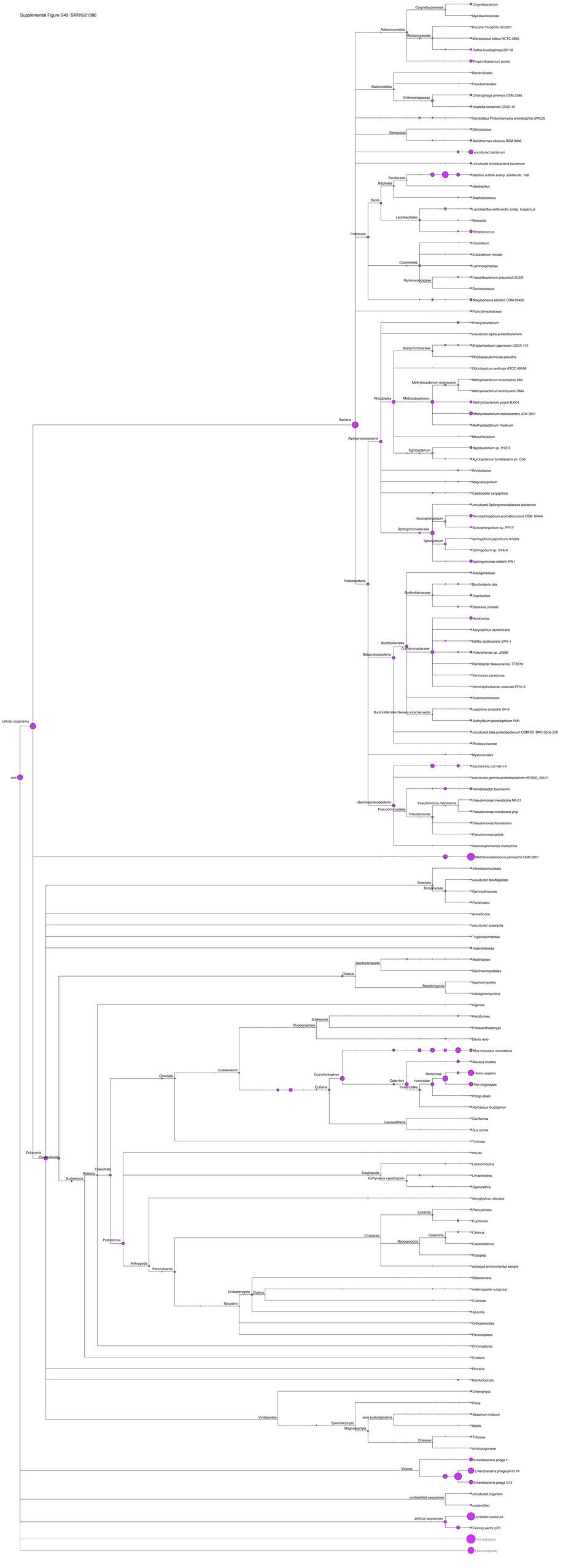
Supplemental Figure S41: SRR1521384



Supplemental Figure S42: SRR1521385

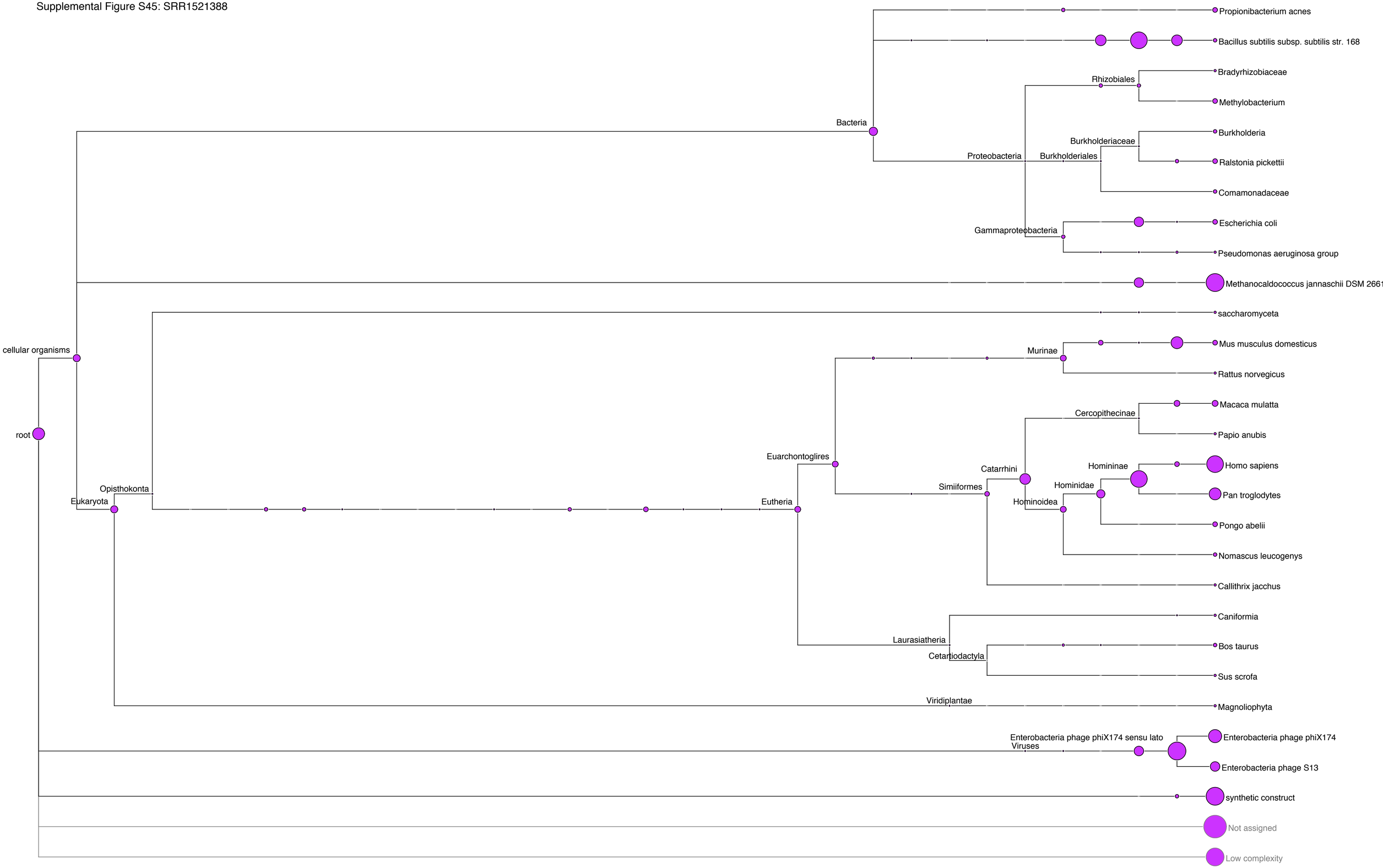


Supplemental Figure S43: SRR1521386

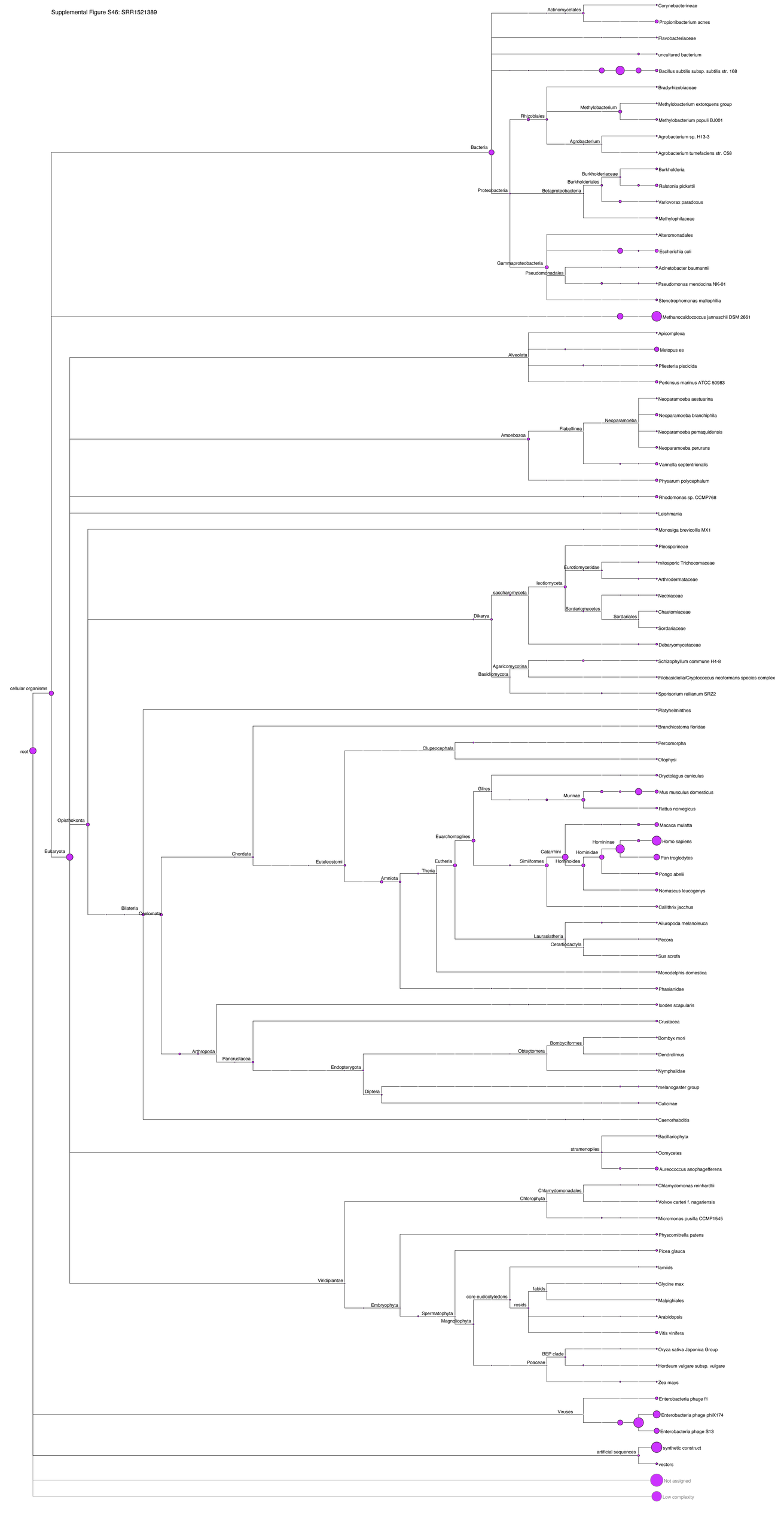


Supplemental Figure S44: SRR1521387

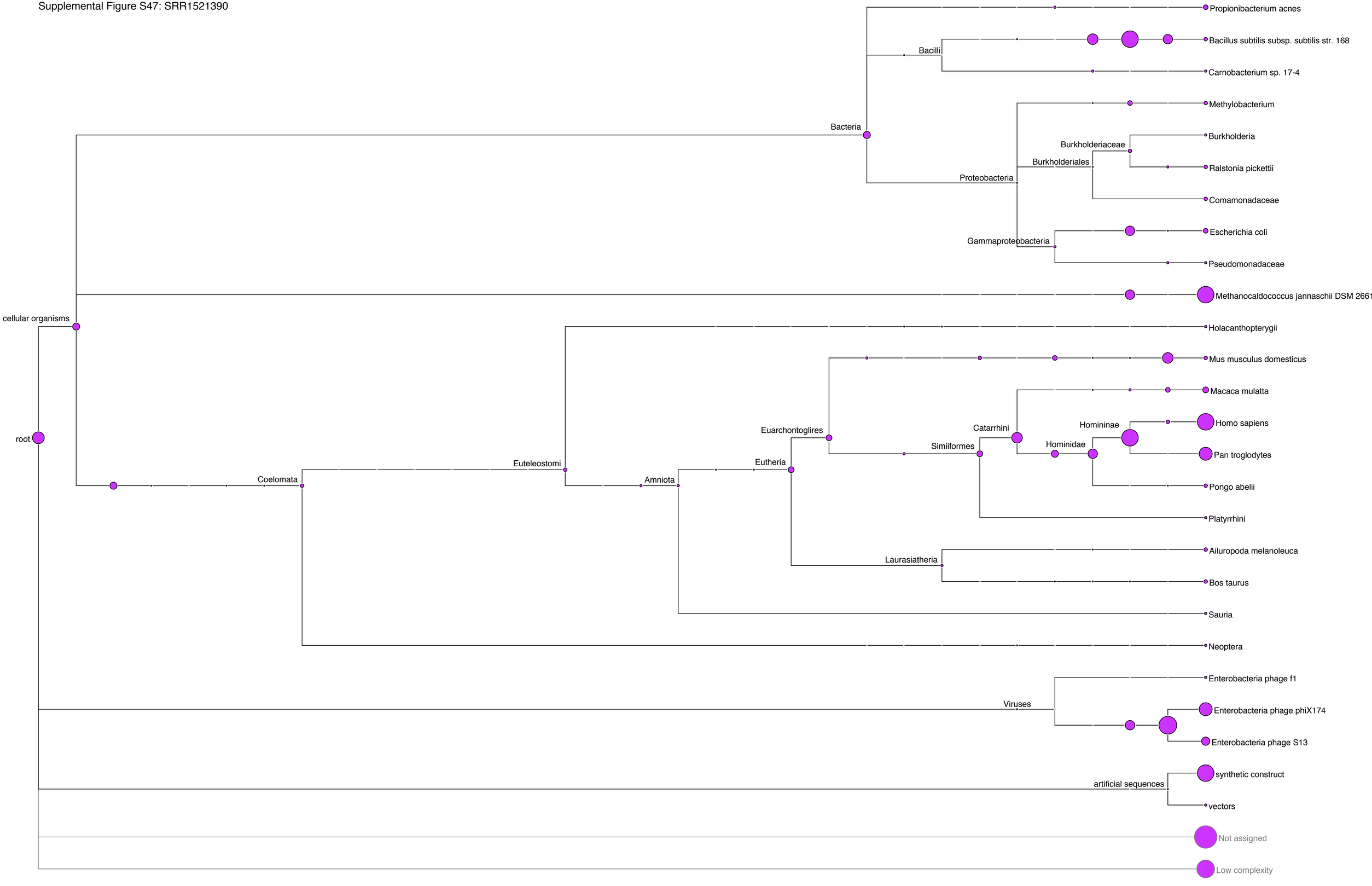
Supplemental Figure S45: SRR1521388



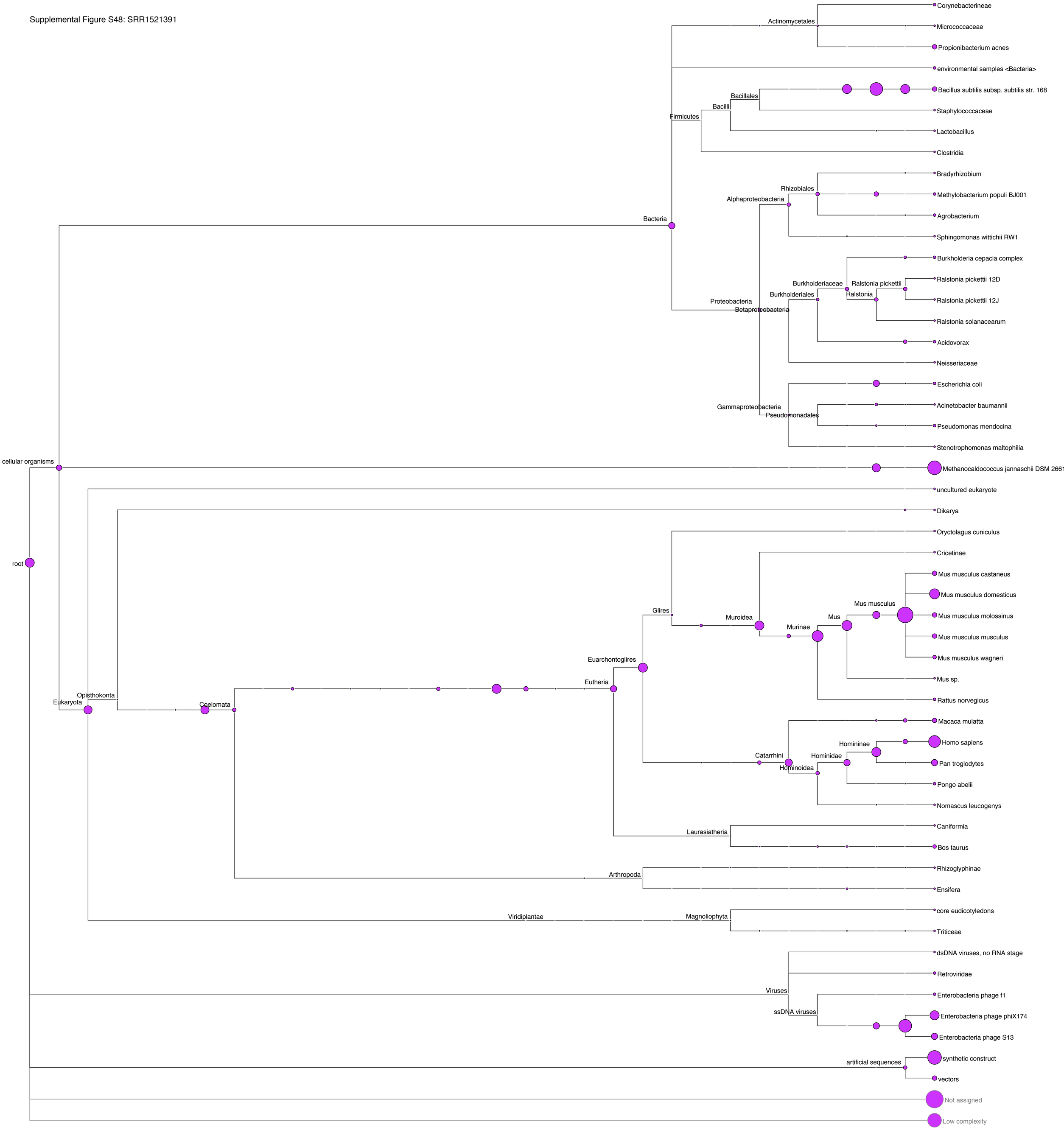
Supplemental Figure S46: SRR1521389



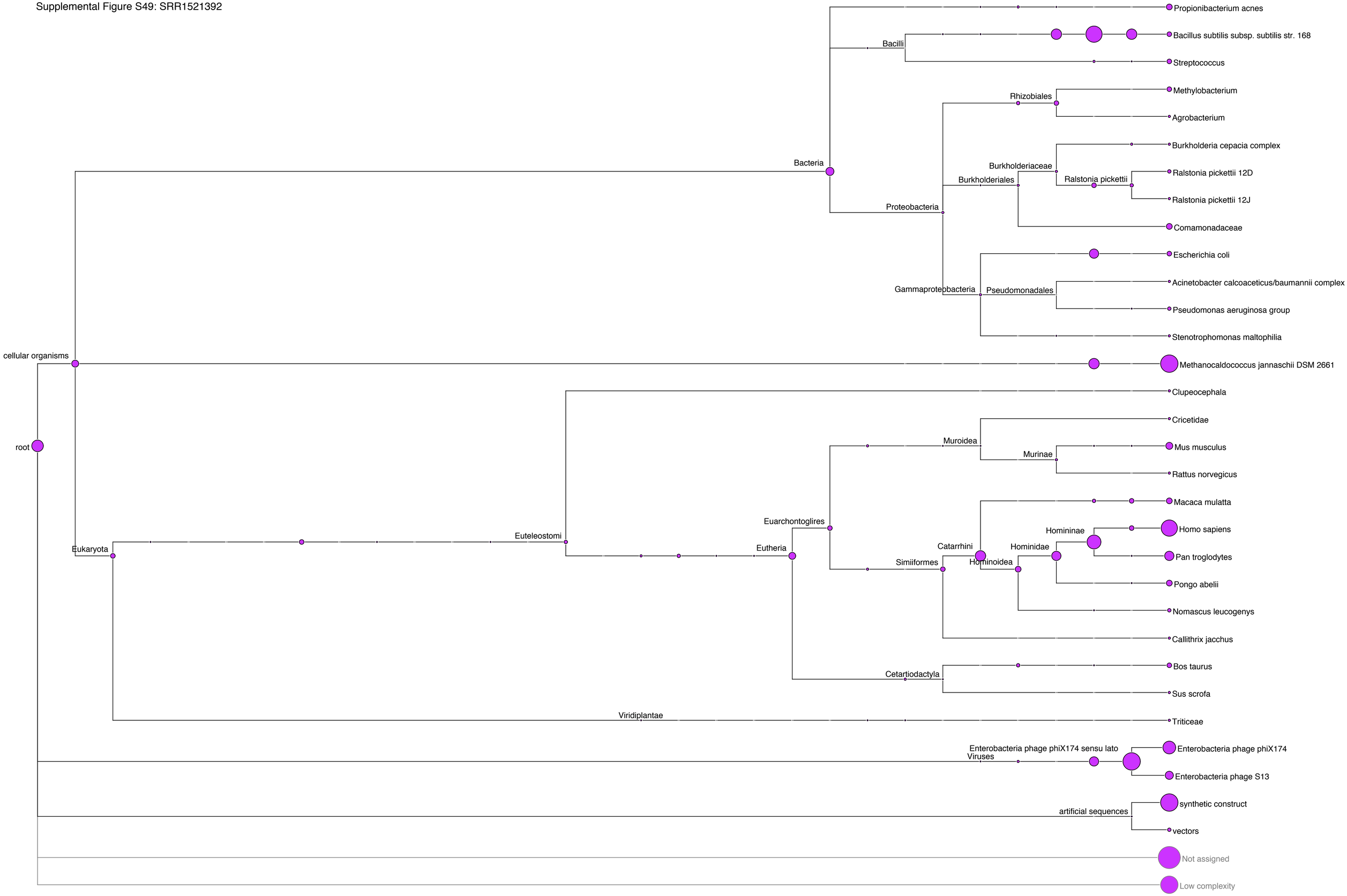
Supplemental Figure S47: SRR1521390



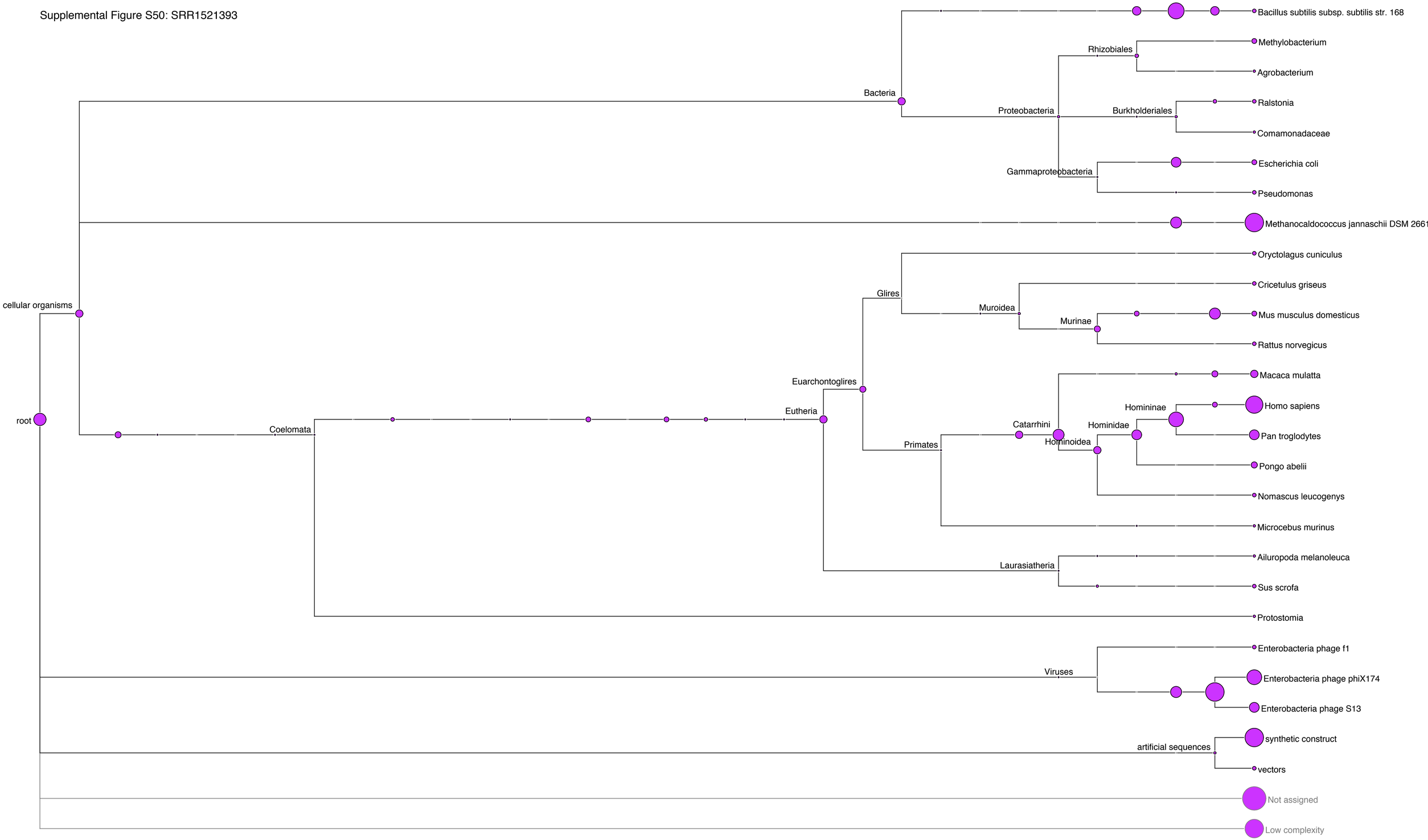
Supplemental Figure S48: SRR1521391



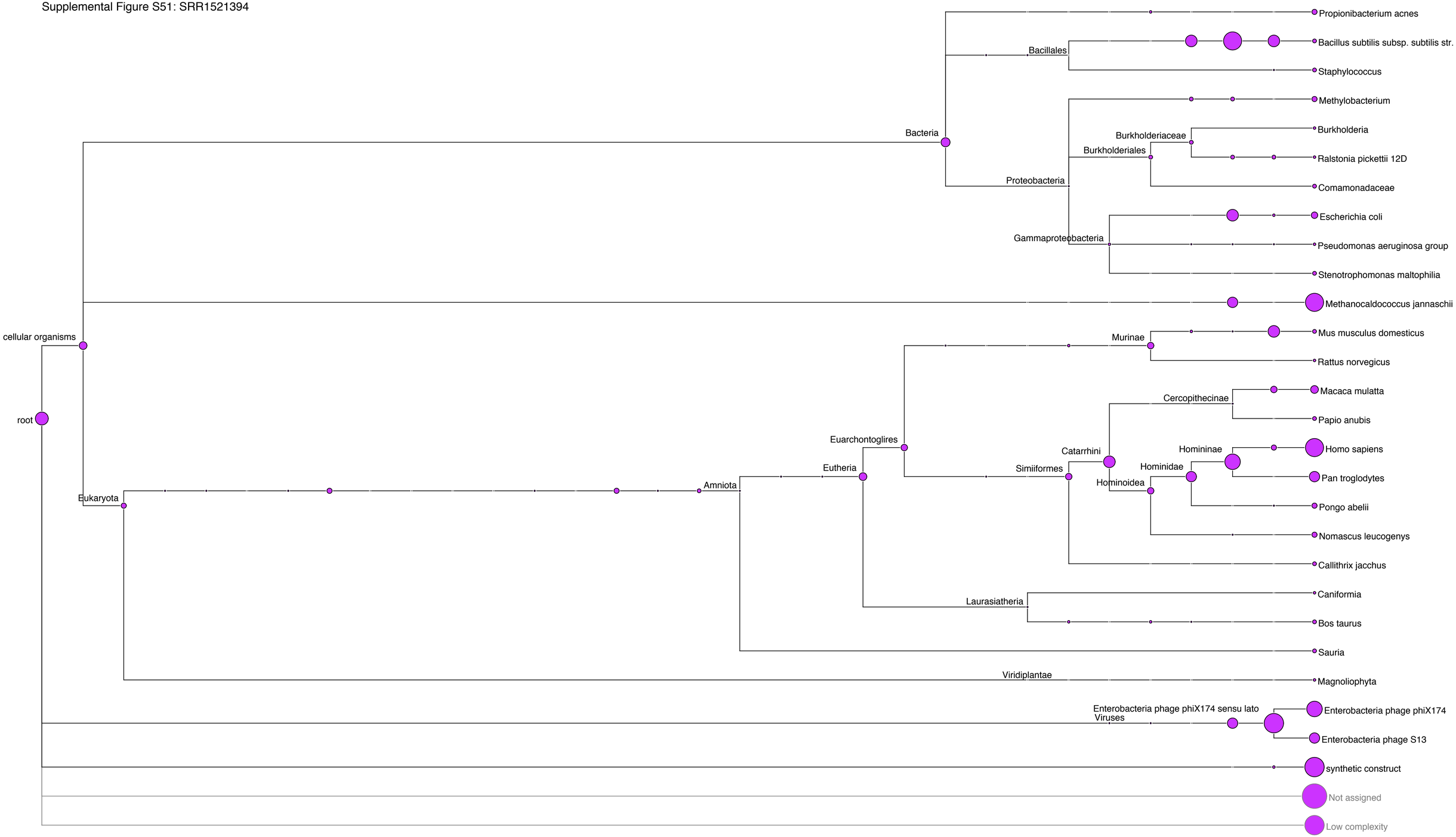
Supplemental Figure S49: SRR1521392



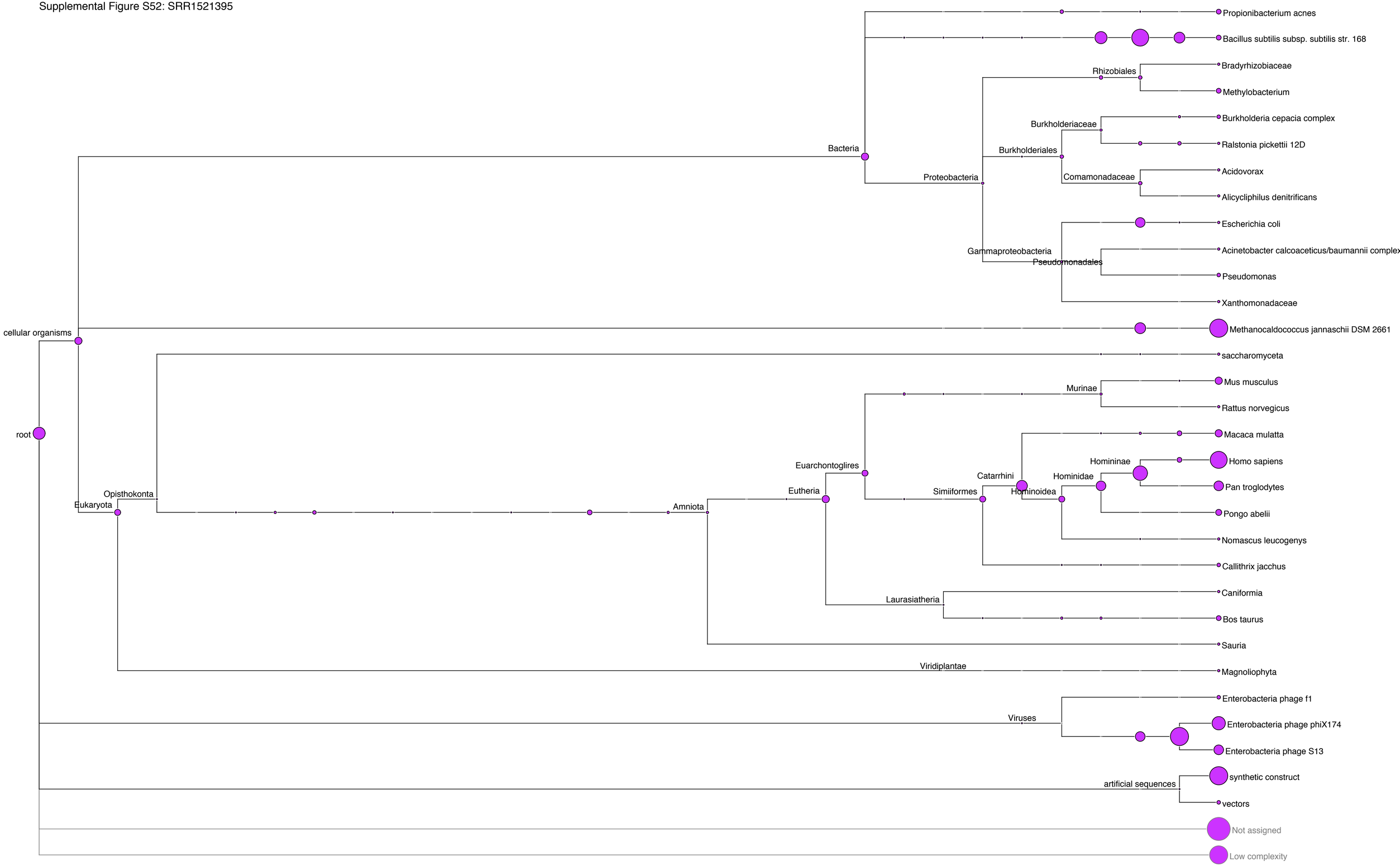
Supplemental Figure S50: SRR1521393



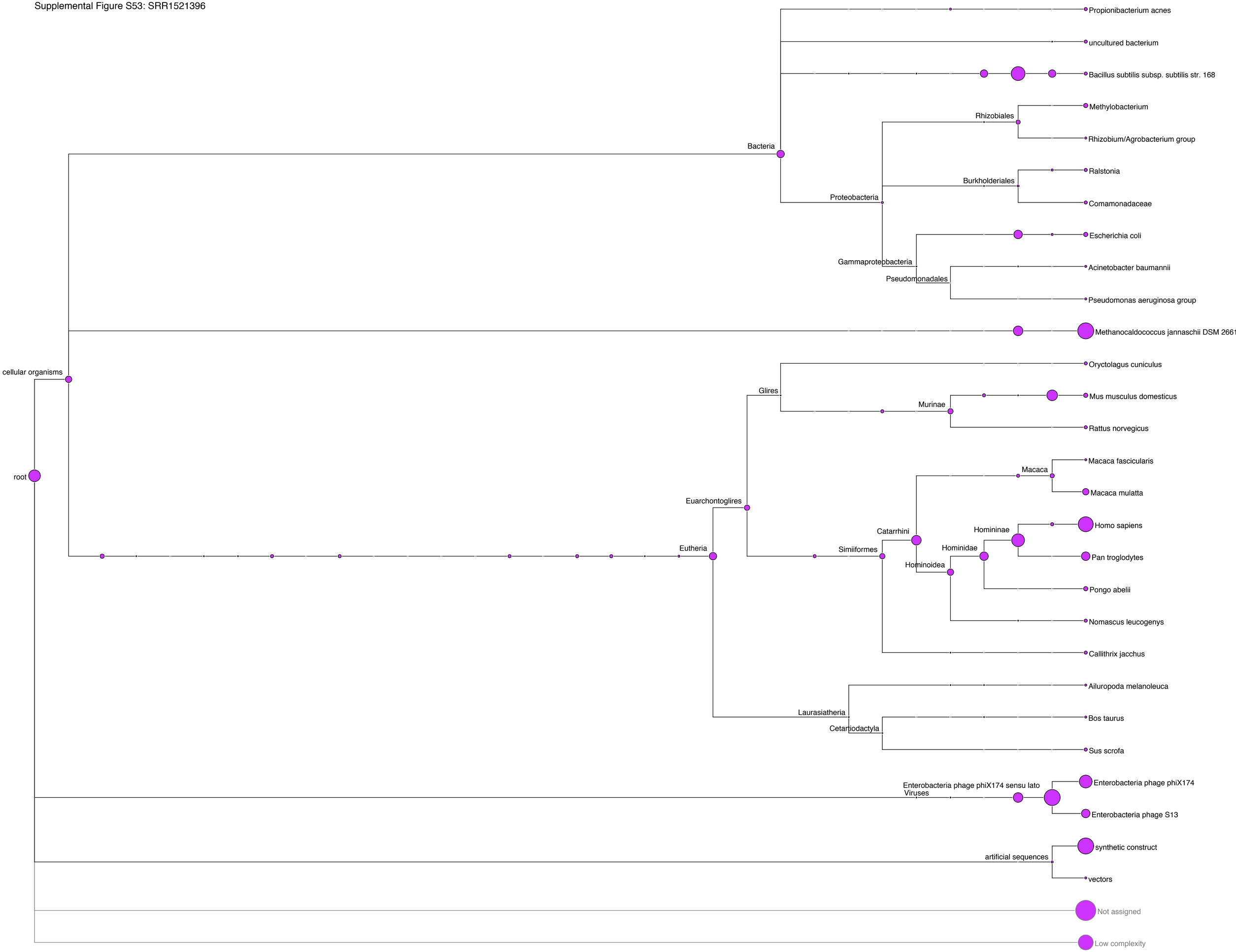
Supplemental Figure S51: SRR1521394



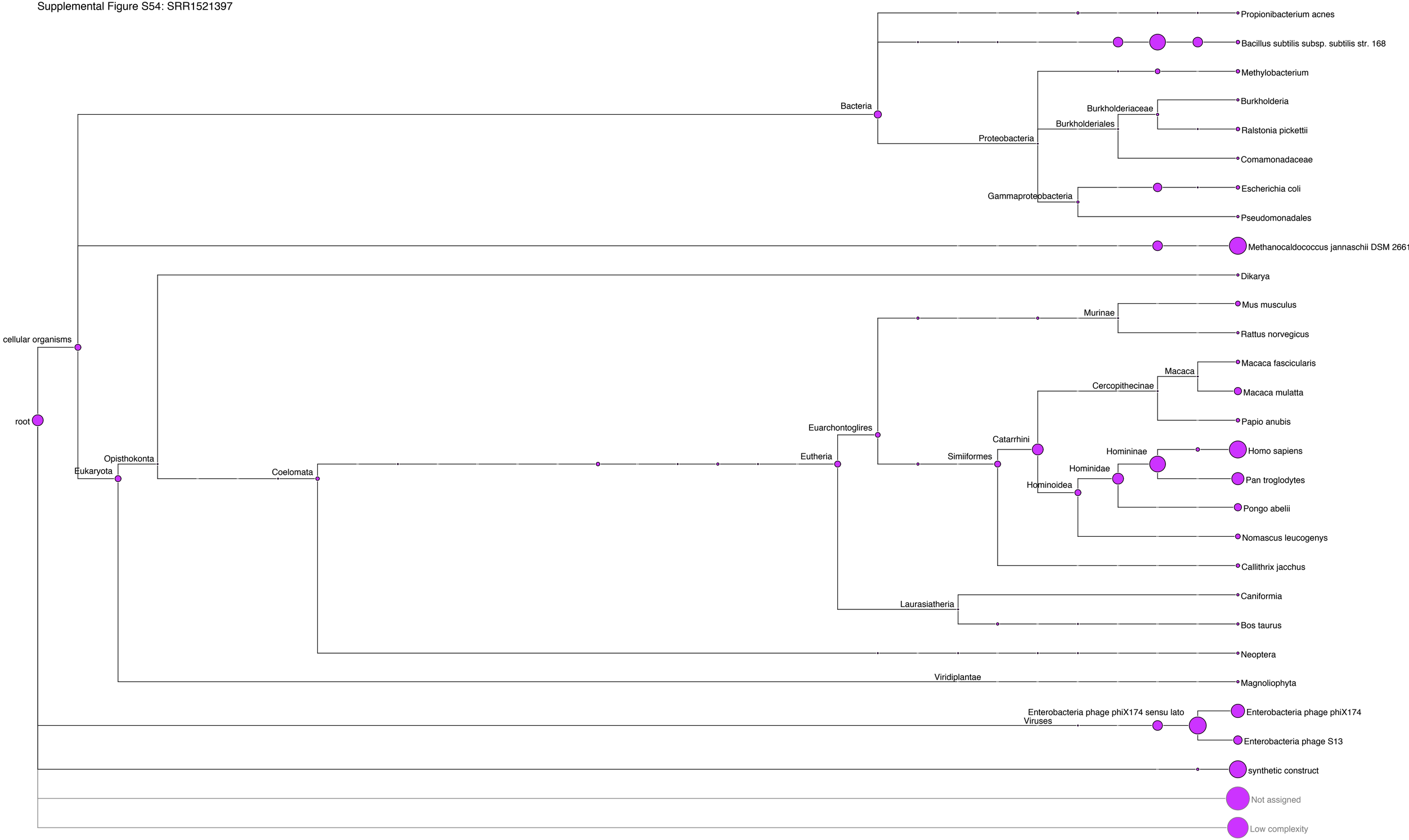
Supplemental Figure S52: SRR1521395



Supplemental Figure S53: SRR1521396

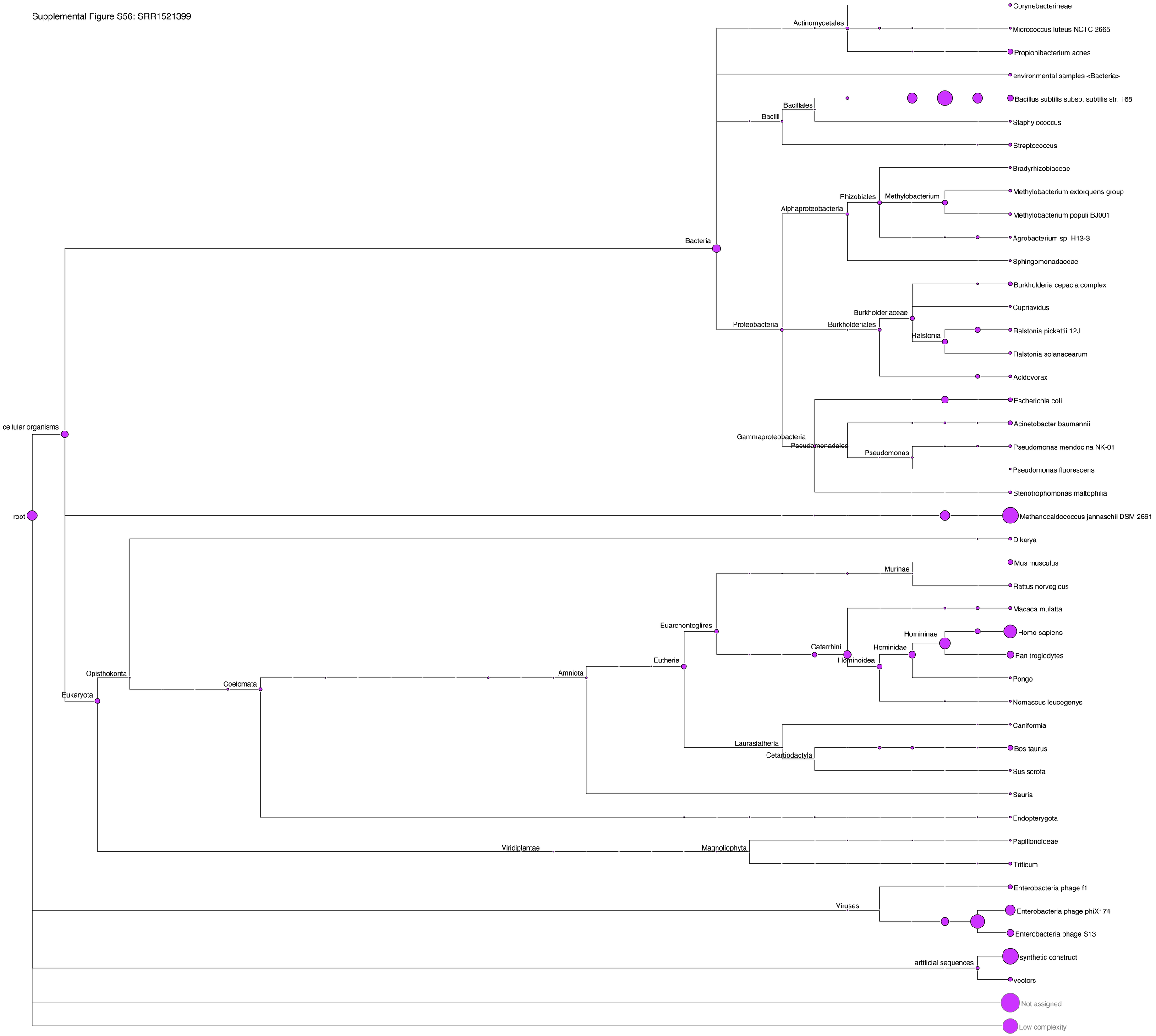


Supplemental Figure S54: SRR1521397

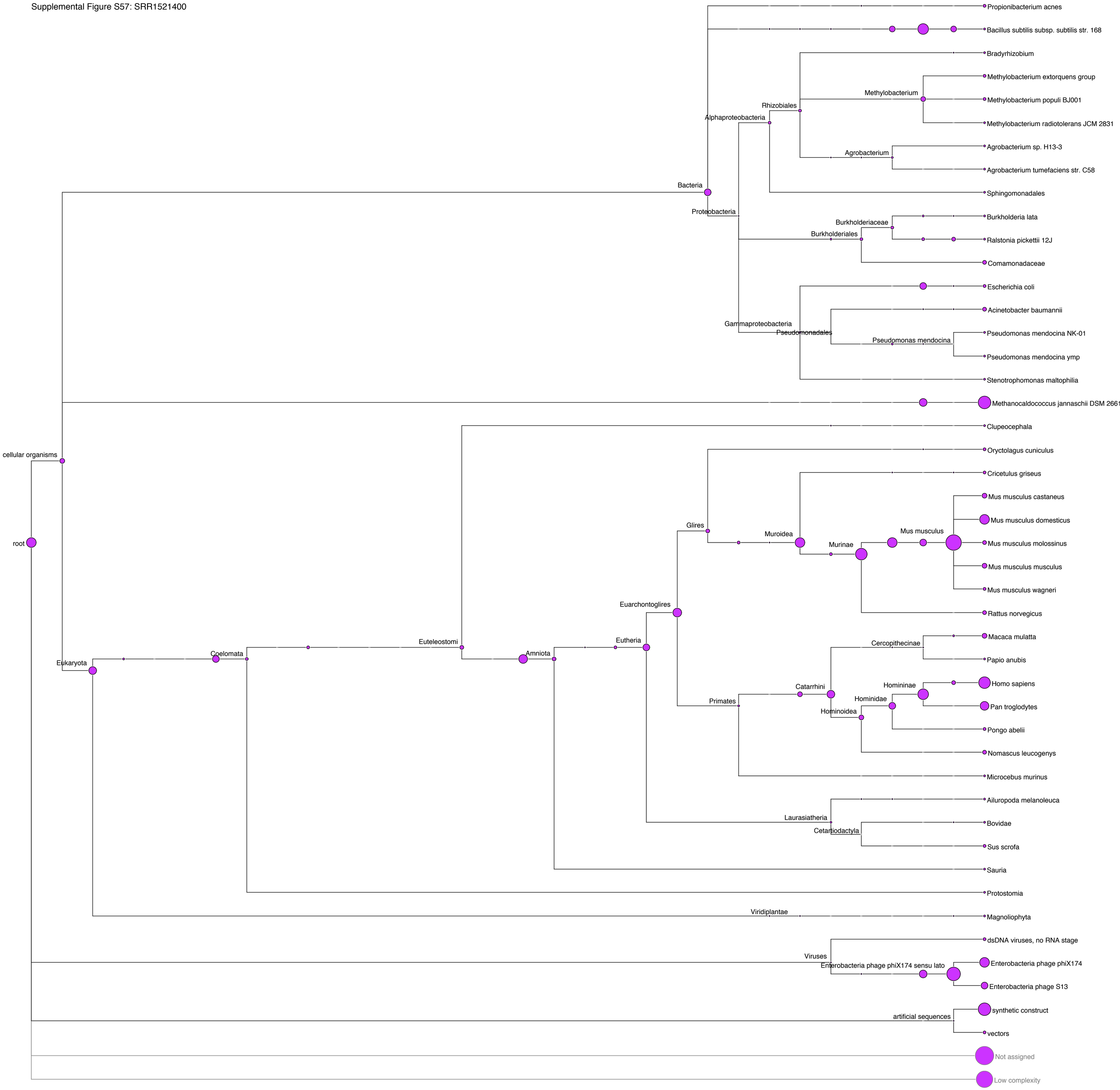


Supplemental Figure S55: SRR1521398

Supplemental Figure S56: SRR1521399

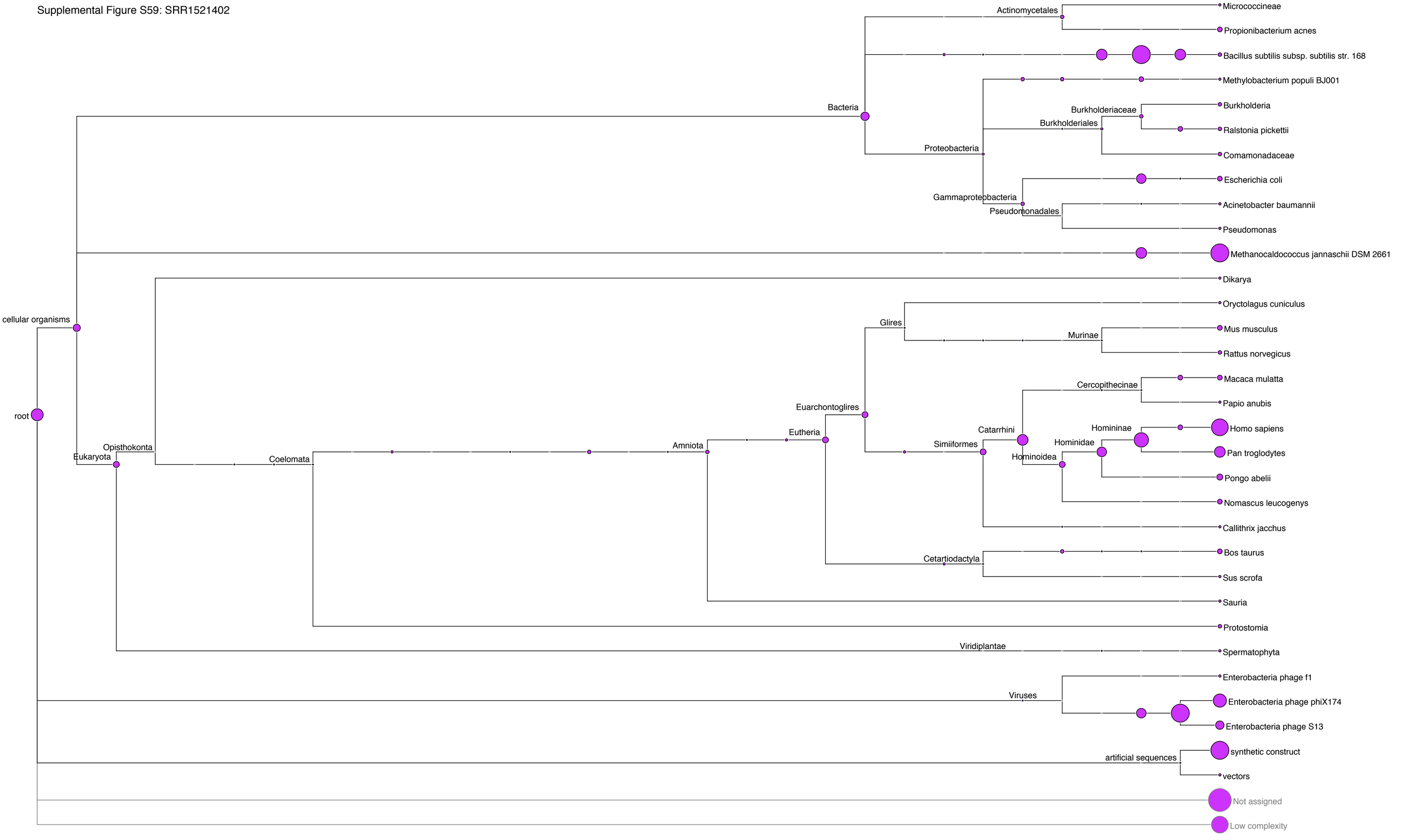


Supplemental Figure S57: SRR1521400

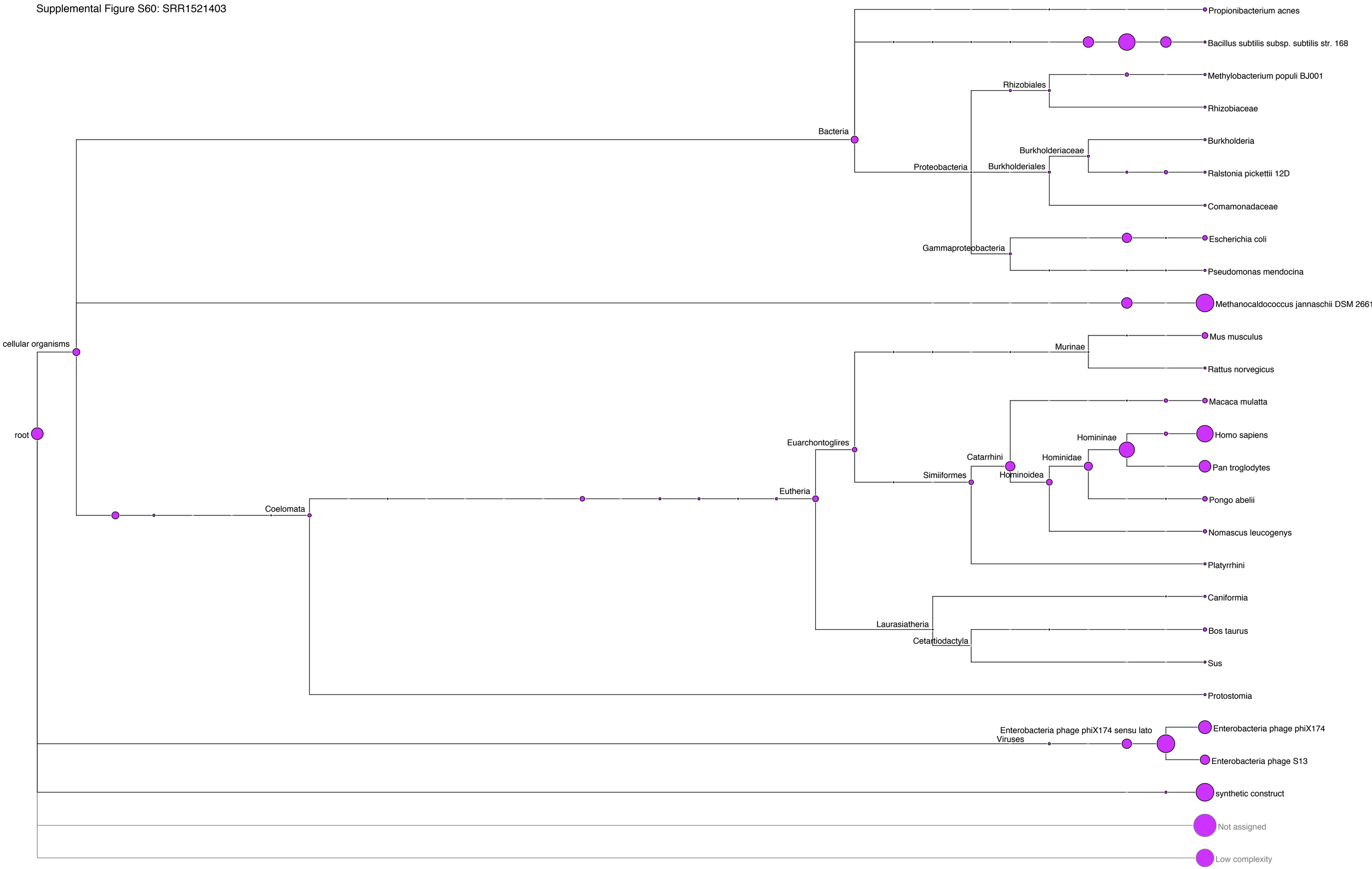


Supplemental Figure S58: SRR1521401

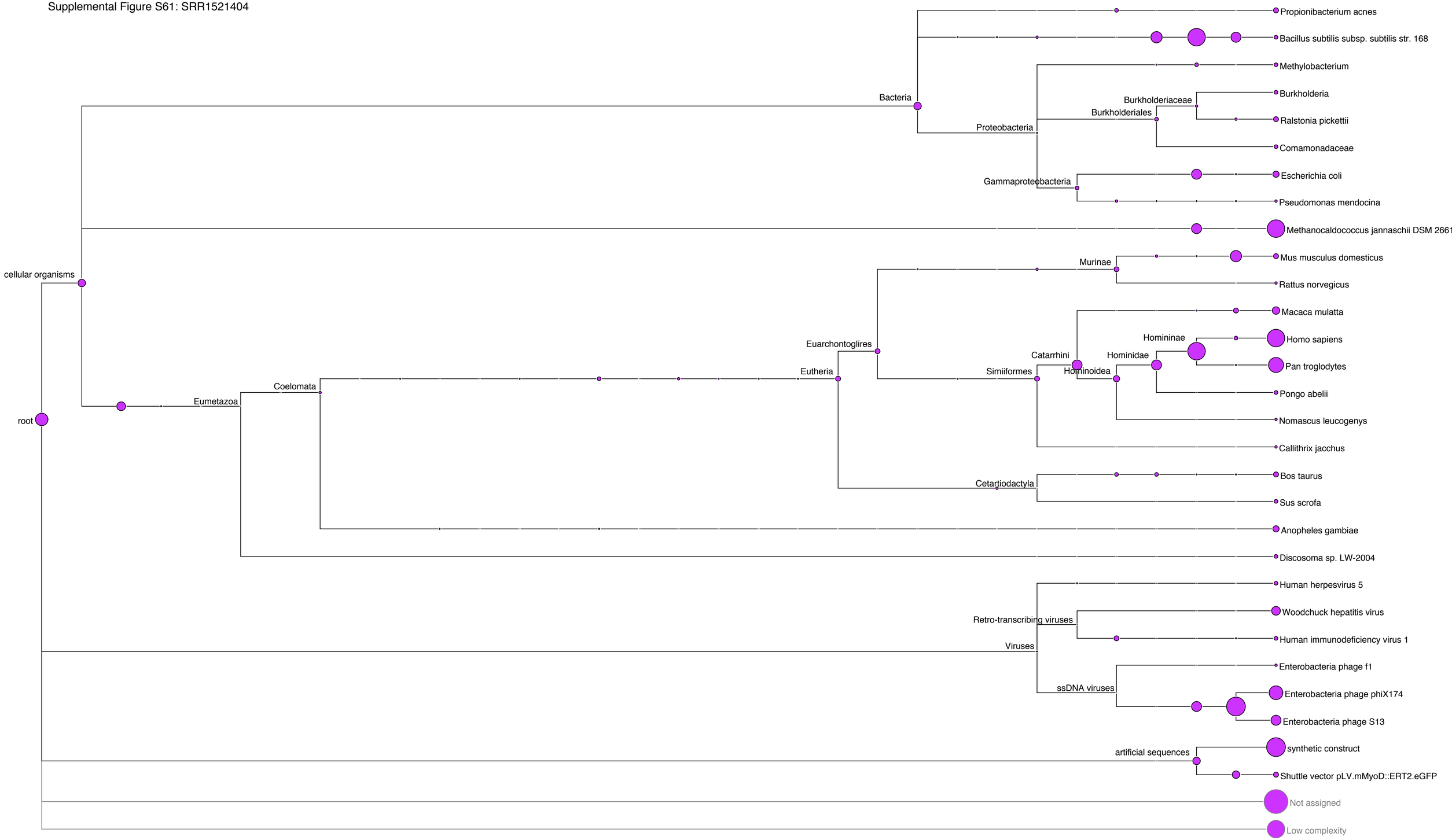
Supplemental Figure S59: SRR1521402



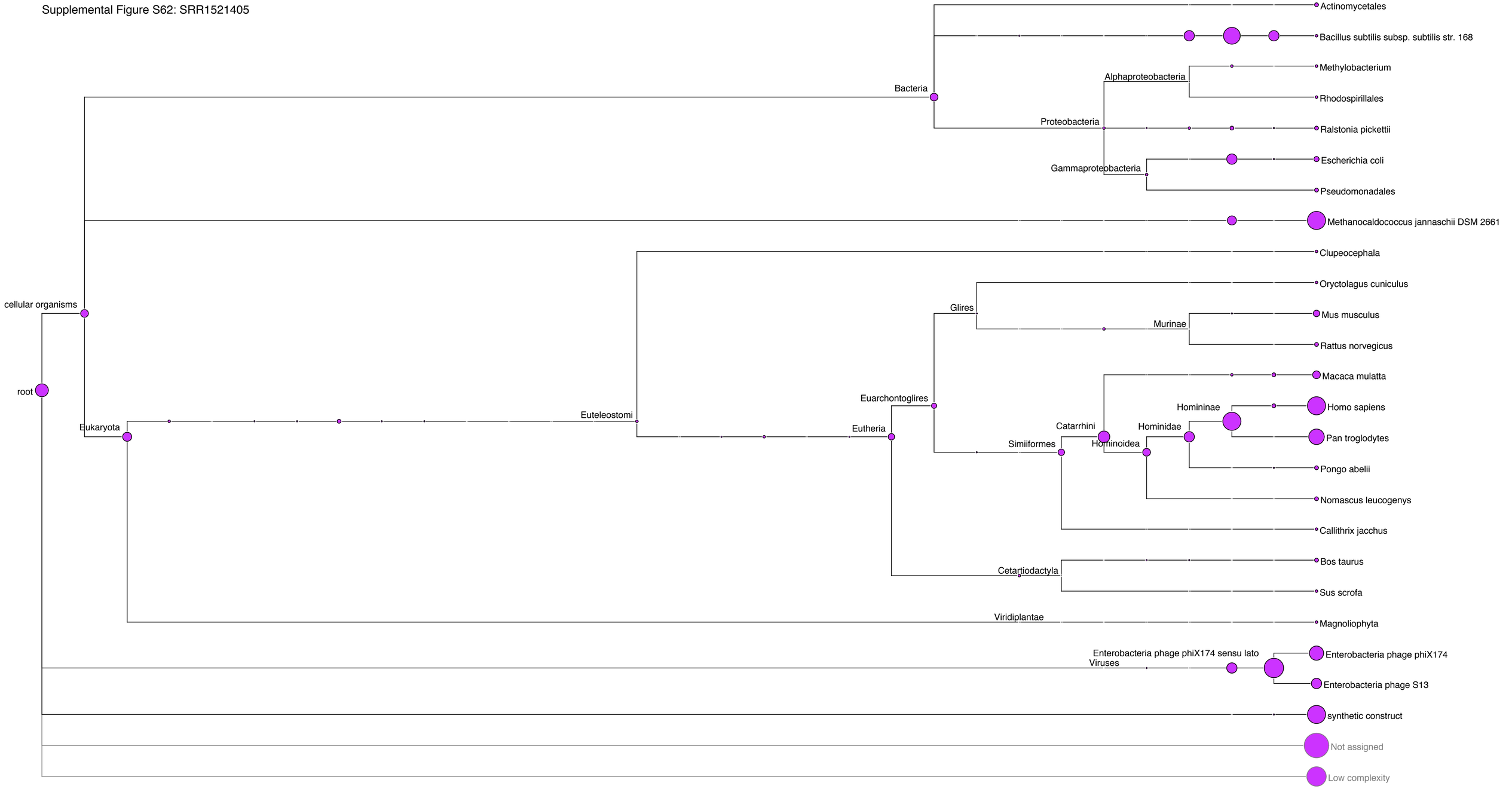
Supplemental Figure S60: SRR1521403



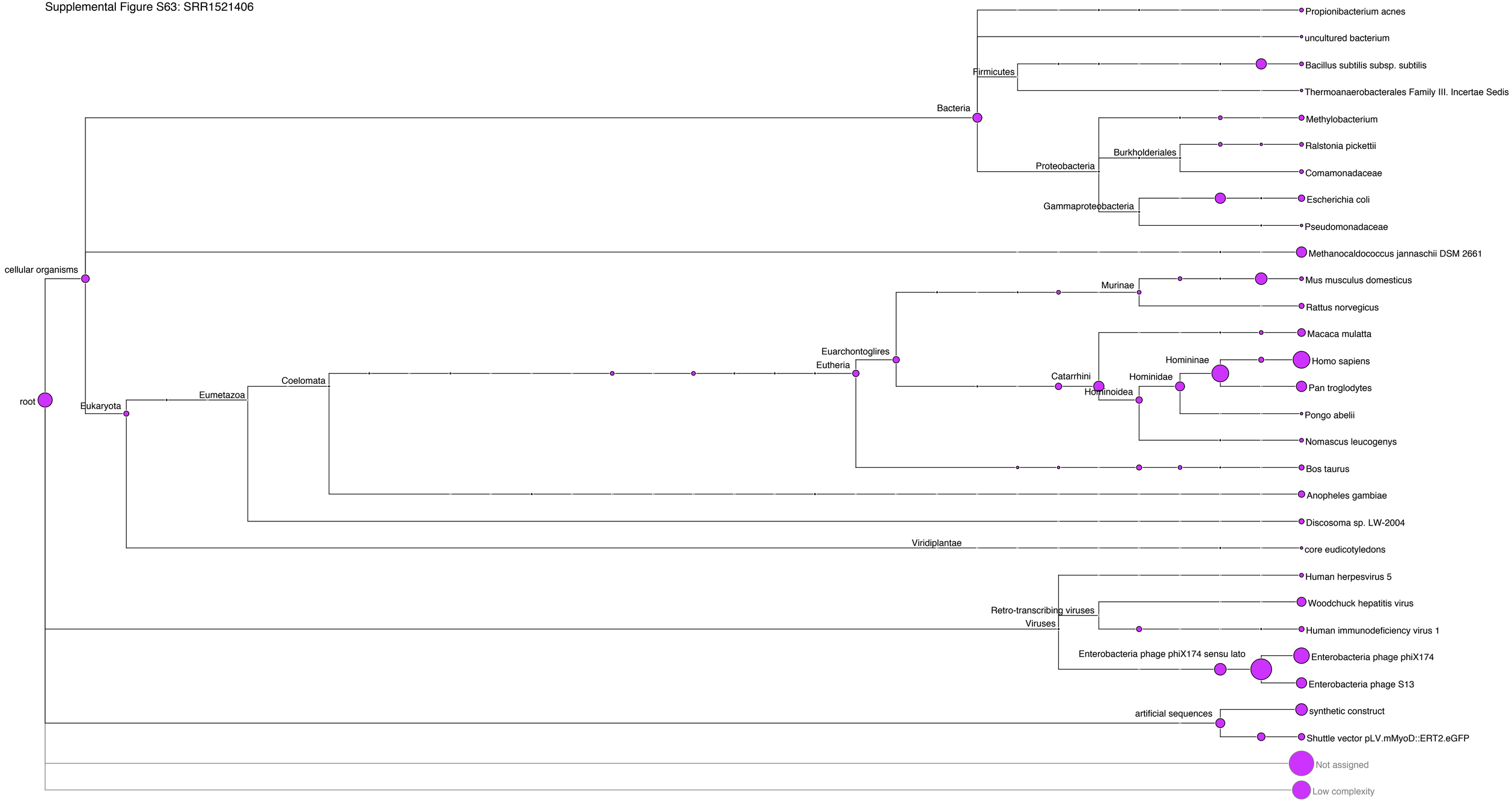
Supplemental Figure S61: SRR1521404



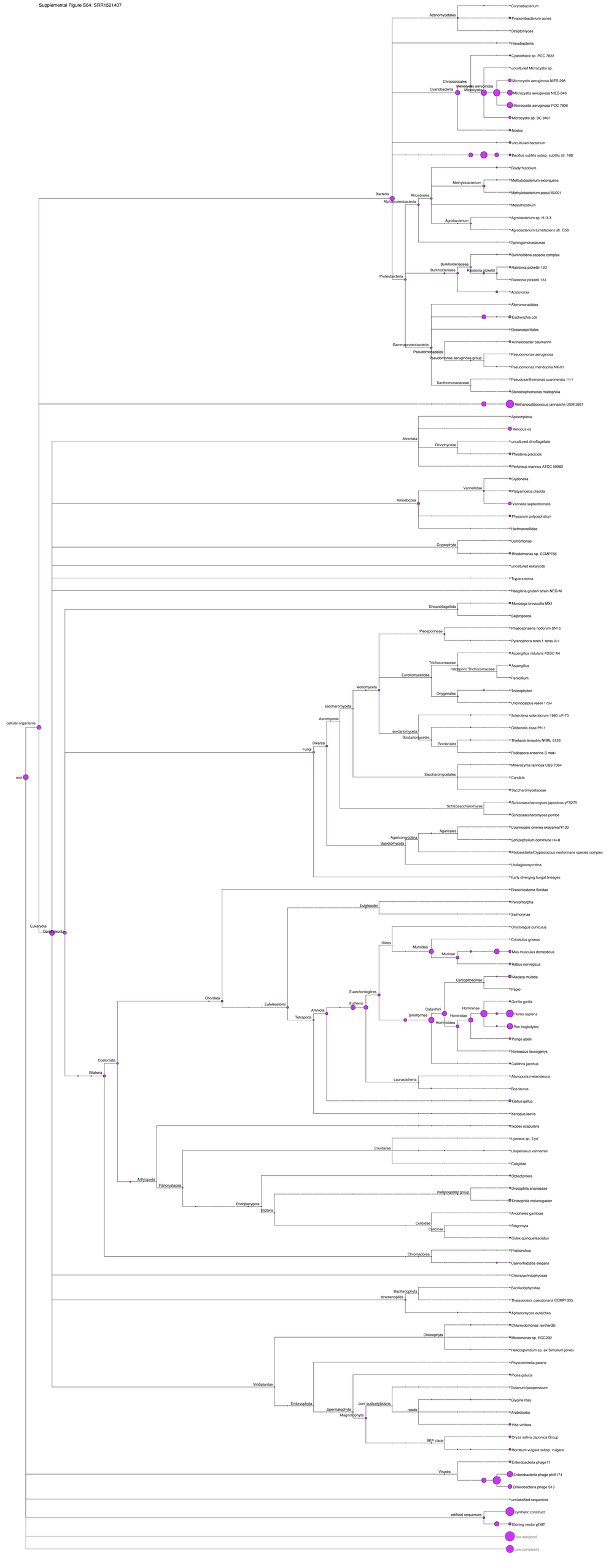
Supplemental Figure S62: SRR1521405



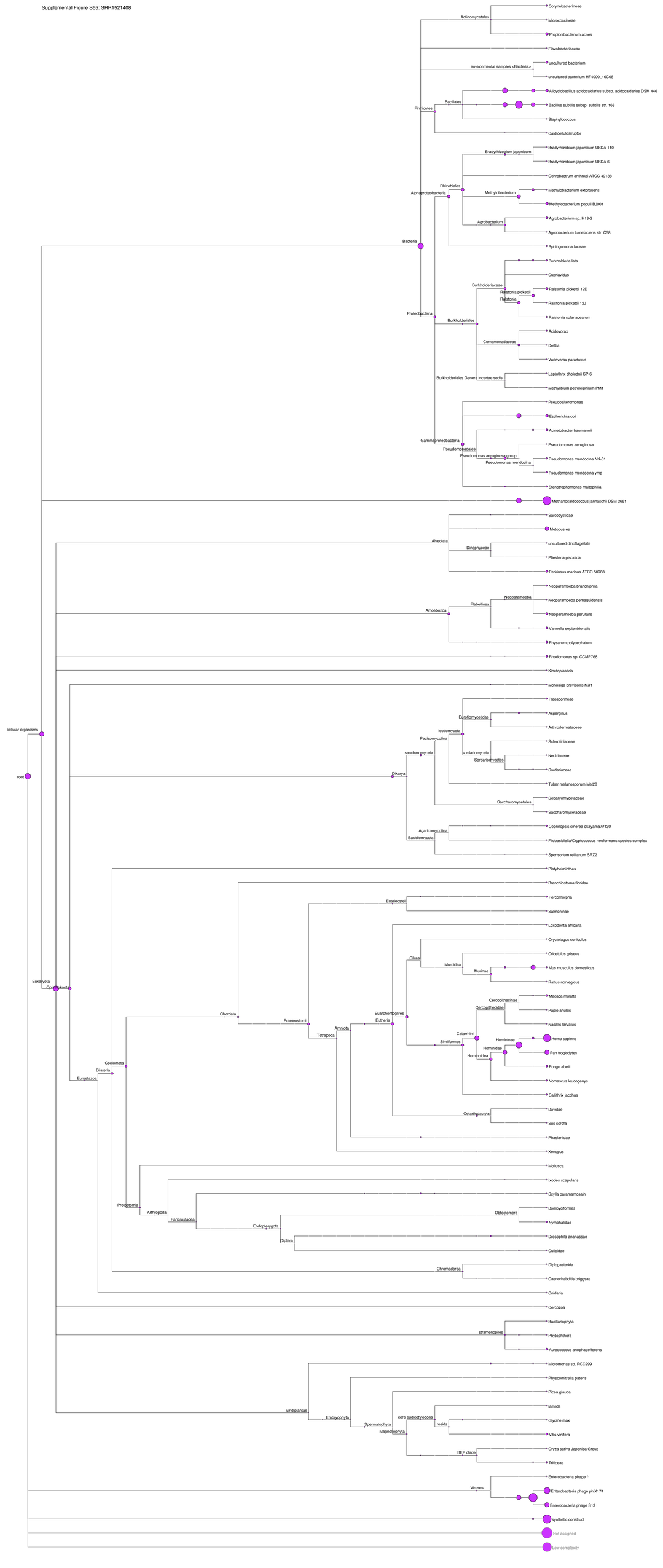
Supplemental Figure S63: SRR1521406



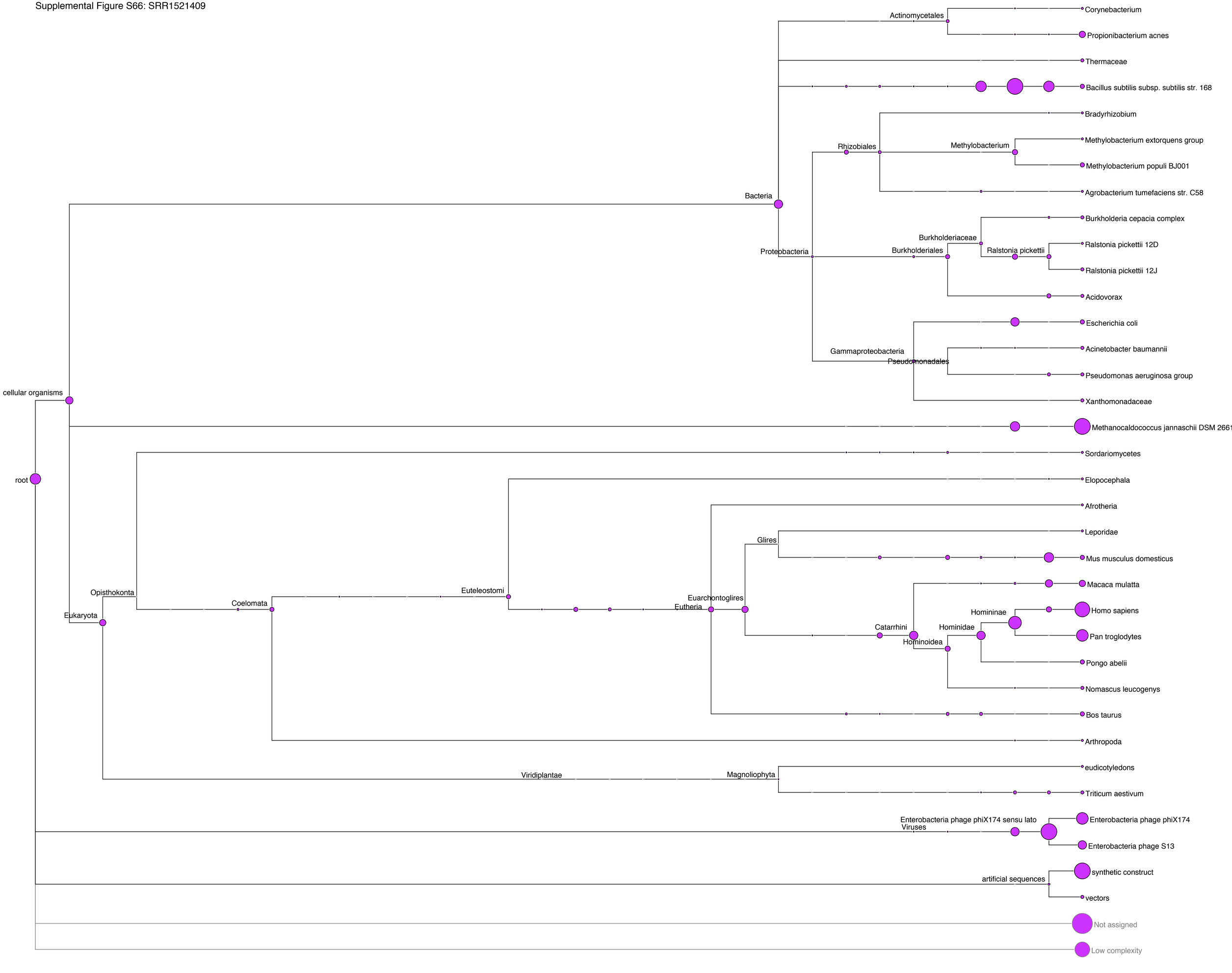
Supplemental Figure S64: SRR1521407



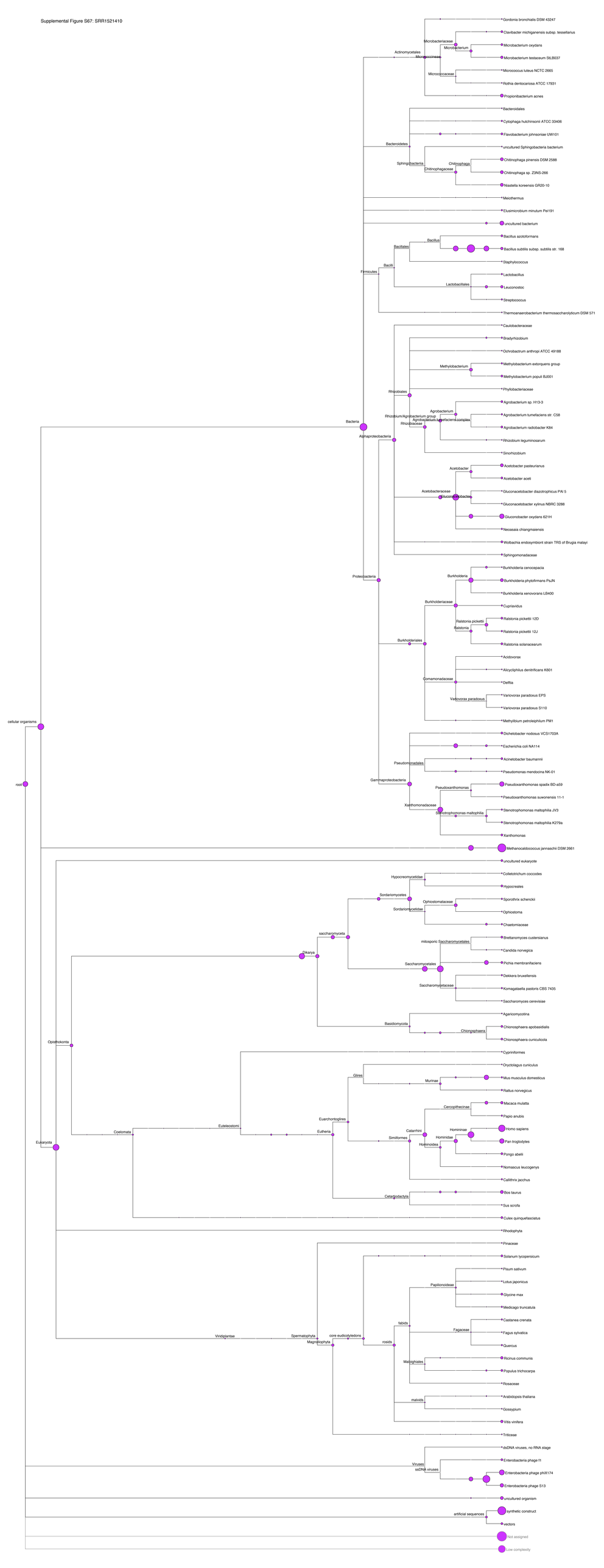
Supplemental Figure S65: SRR1521408



Supplemental Figure S66: SRR1521409

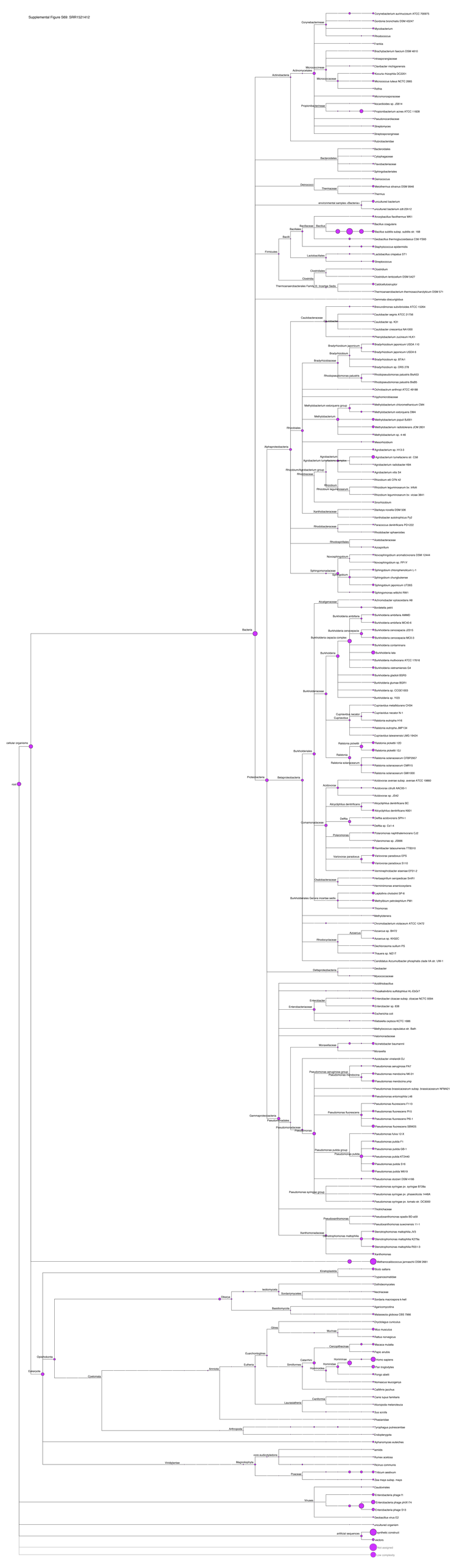


Supplemental Figure S67: SRR1521410

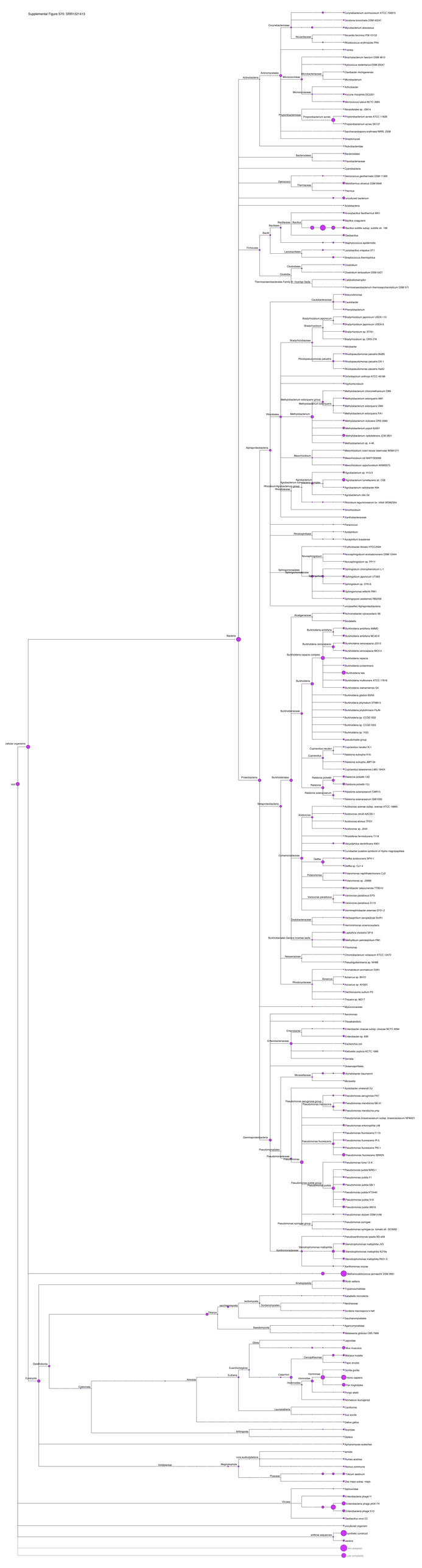


Supplemental Figure S69: SRR1521411

Supplemental Figure S69: SRR1521412



Supplemental Figure S70: SRR1521413


cellular organisms
root
Bacteria
Actinobacteria
Actinomycetales
Corynebacteriineae
Corynebacterium aurimucosum ATCC 700975
Gordonia bronchialis DSM 43247
Mycobacterium abscessus
Nocardia farcinica IFM 10152
Rhodococcus erythropolis PR4
Frankia
Nocardiaceae
Micrococcineae
Brachybacterium faecium DSM 4810
Kytococcus sedentarius DSM 20547
Clavibacter michiganensis
Microbacteriaceae
Microbacterium
Arthrobacter
Micrococcus luteus NCTC 2665
Micrococcus
Micrococcaceae
Kocuria rhizophila DC2201
Nocardioides sp. JS614
Propionibacterium acnes
Propionibacterium acnes ATCC 11828
Propionibacterium acnes SK137
Propionibacteriaceae
Propionibacteriales
Saccharopolyspora erythraea NRRL 2338
Streptomyces
Rubrobacteridae
Bacteroidetes
Flavobacteriaceae
Cyanobacteria
Deinococcus geothermalis DSM 11300
Deinococcus
Meiothermus silvanus DSM 9946
Thermaceae
Thermus
Thermales
uncultured bacterium
Acidobacteria
Aciduliprofundum
Aciduliprofundum boonei T469
Archaeoglobus fulgidus DSM 4304
Archaeoglobi
Archaeoglobales
Archaeoglobaceae
Archaeoglobus
Archaeoglobus profundus DSM 5631
Archaeoglobus sulfaticallidus PM70-1
Archaeoglobus veneficus SNP6
Halobacteria
Halobacteriales
Halobacteriaceae
Halobacterium
Halobacterium salinarum R1
Halobacterium sp. NRC-1
Halobacterium sp. NRC-1 ATCC 700922
Halobacterium volcanii DS2
Haloferax
Haloferax mediterranei ATCC 33500
Haloferax volcanii DS2
Haloferax volcanii DS2 plasmid pHV2
Haloferax volcanii DS2 plasmid pHV3
Haloferax volcanii DS2 plasmid pHV4
Haloferax volcanii DS2 plasmid pHV1
Natrialba
Natrialba magadii ATCC 43099
Natrialba magadii ATCC 43099 plasmid pNG100
Natrialba magadii ATCC 43099 plasmid pNG200
Natrialba magadii ATCC 43099 plasmid pNG300
Natrialba magadii ATCC 43099 plasmid pNG400
Natrialba magadii ATCC 43099 plasmid pNG500
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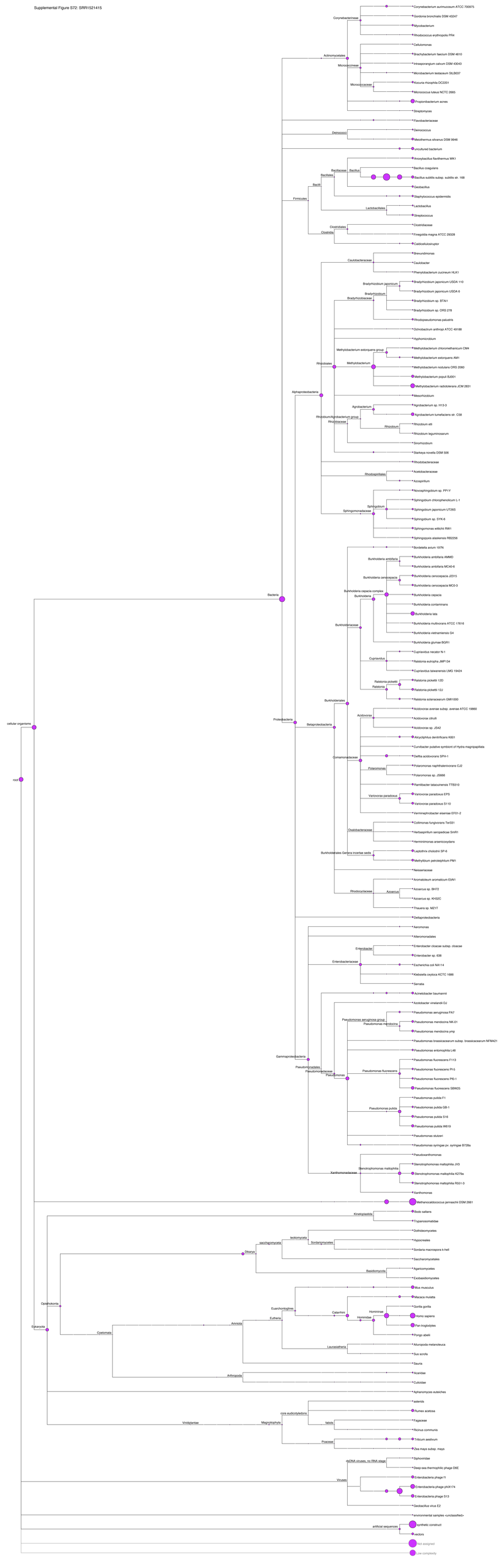
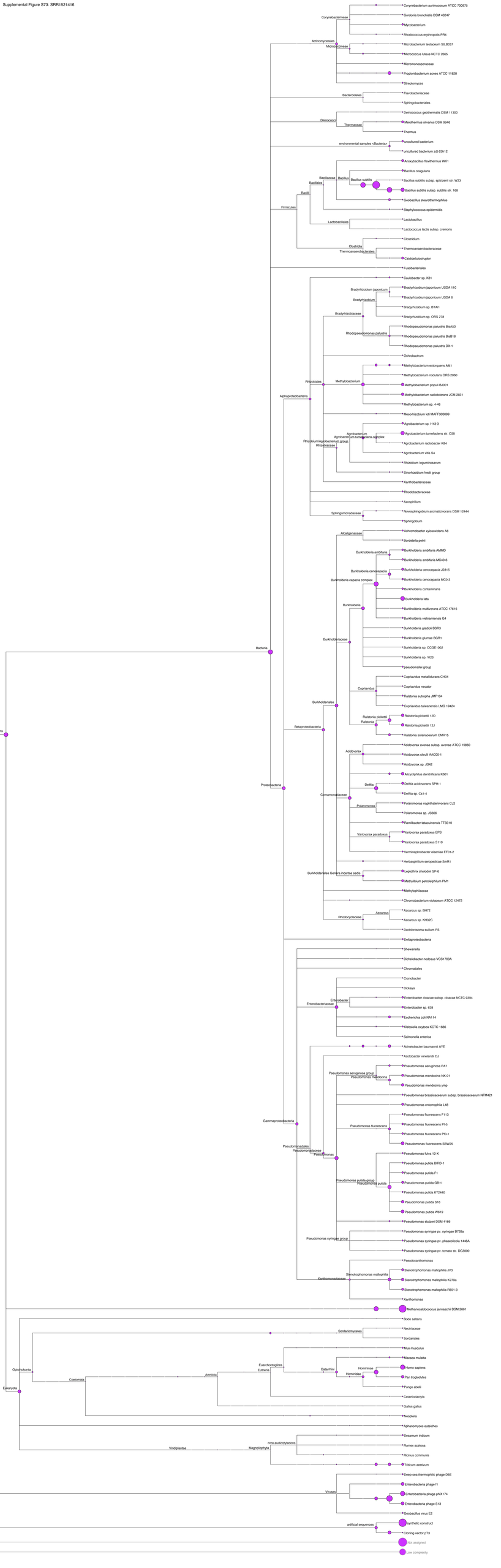
Natrialba magadii ATCC 43099 plasmid

Supplemental Figure S71: SRR1521414

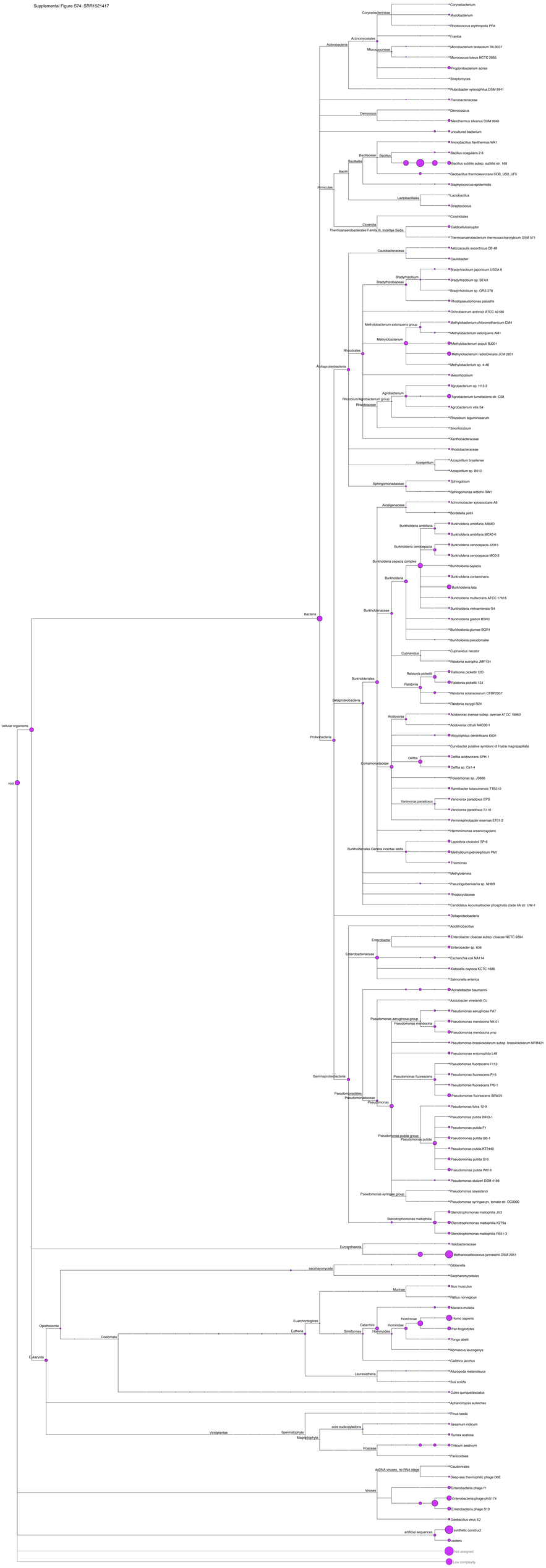
Supplemental Figure S72: SRR1521415



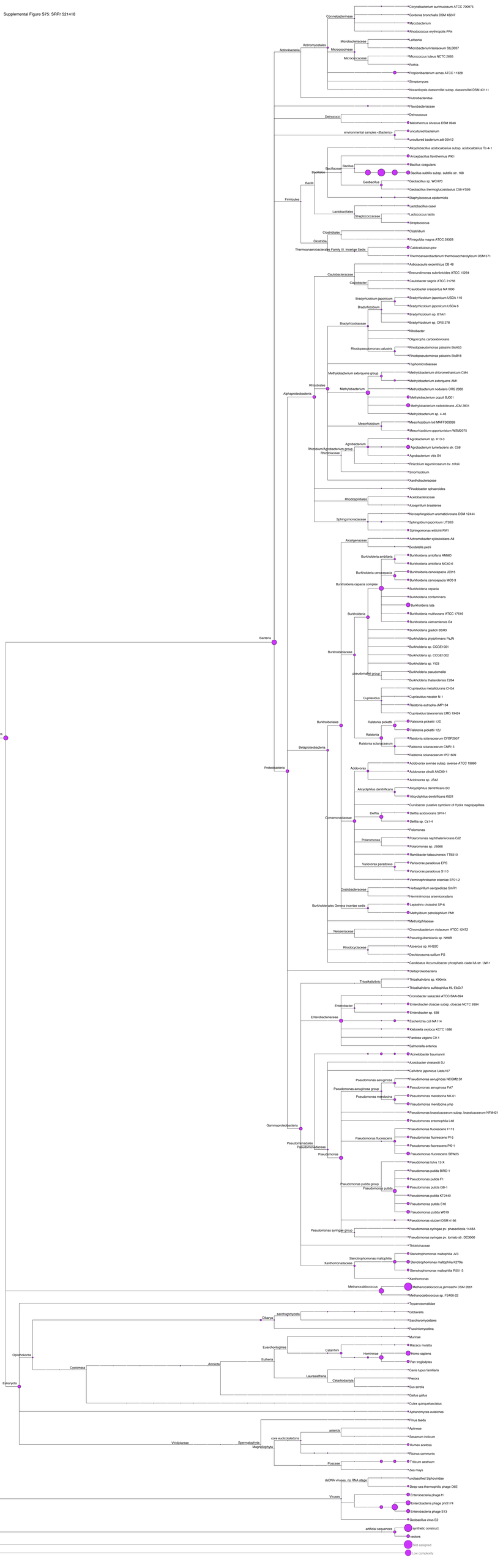
Supplemental Figure S73: SRR1521416



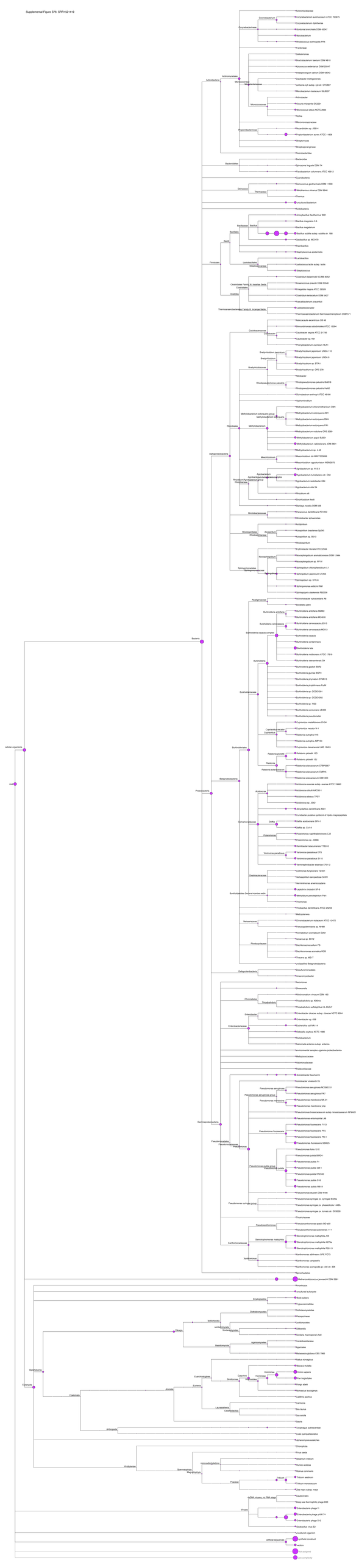
Supplemental Figure S74: SRR1521417



Supplemental Figure S75: SRR1521418



Supplemental Figure S76: SRR13214119


cellular organisms
Bacteria
Proteobacteria
Betaproteobacteria
Burkholderiales
Burkholderiaceae
Burkholderia
Burkholderia ambifaria
Burkholderia ambifaria MEX-5
Burkholderia ambifaria MC40-6
Burkholderia cenocepacia J2315
Burkholderia cenocepacia MCO-3
Burkholderia cepacia complex
Burkholderia cepacia
Burkholderia contaminans
Burkholderia lata
Burkholderia multivorans ATCC 17616
Burkholderia vietnamiensis G4
Burkholderia gladioli BSR3
Burkholderia glumae BGR1
Burkholderia phymatum STM815
Burkholderia phytofirmans PsJN
Burkholderia sp. CCGE1001
Burkholderia sp. CCGE1003
Burkholderia sp. YI23
Burkholderia sensoriensis L2k60
Burkholderia pseudomallei
Cupriavidus metallidurans CH34
Cupriavidus necator N-1
Cupriavidus
Ralstonia eutropha H16
Ralstonia eutropha MFY24
Cupriavidus taiwanensis LMG 19424
Ralstonia pickettii 12D
Ralstonia pickettii 12J
Ralstonia solanacearum CFBP2957
Ralstonia solanacearum CMR15
Ralstonia solanacearum GMI1000
Acidovorax
Acidovorax avenae subsp. avenae ATCC 19860
Acidovorax citrulli AAC00-1
Acidovorax ebreus TPSY
Acidovorax sp. JS42
Polynucleobacter
Polynucleobacter duraniae
Polynucleobacter necessarius subsp. necessarius STIR1
Polynucleobacter sp. QLW-P1DMWA-1
Polynucleobacter sp. QLW-P1DMWA-3
Polynucleobacter sp. QLW-P1DMWA-4
Polynucleobacter sp. QLW-P1DMWA-5
Polynucleobacter sp. QLW-P1DMWA-6
Polynucleobacter sp. QLW-P1DMWA-7
Polynucleobacter sp. QLW-P1DMWA-8
Polynucleobacter sp. QLW-P1DMWA-9
Polynucleobacter sp. QLW-P1DMWA-10
Polynucleobacter sp. QLW-P1DMWA-11
Polynucleobacter sp. QLW-P1DMWA-12
Polynucleobacter sp. QLW-P1DMWA-13
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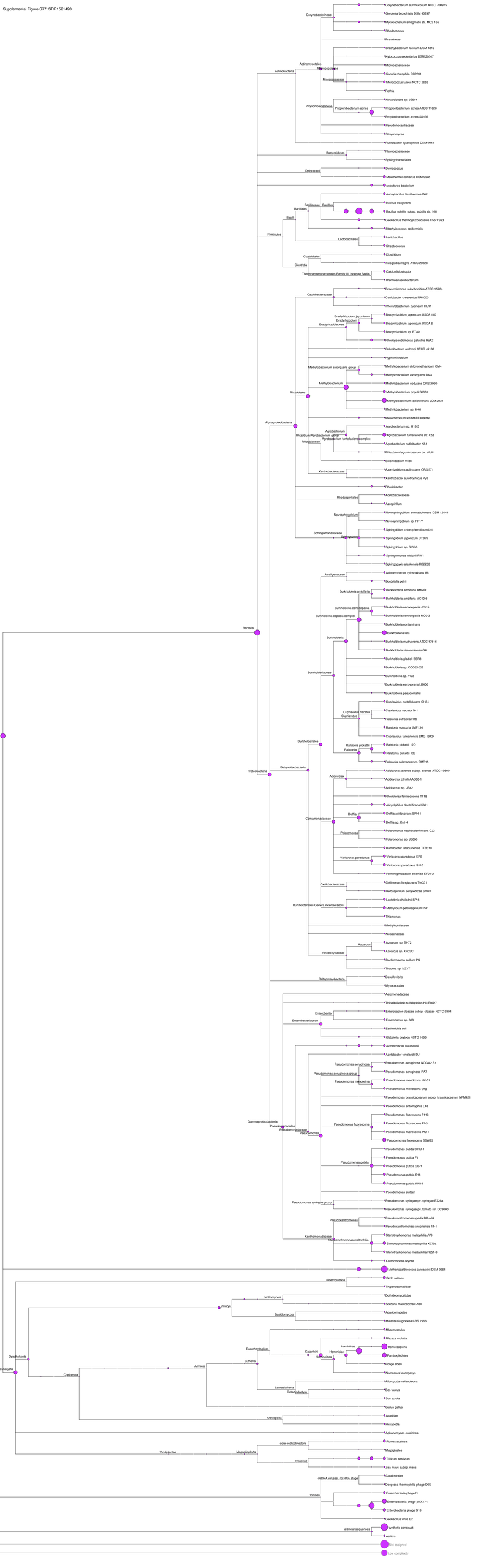
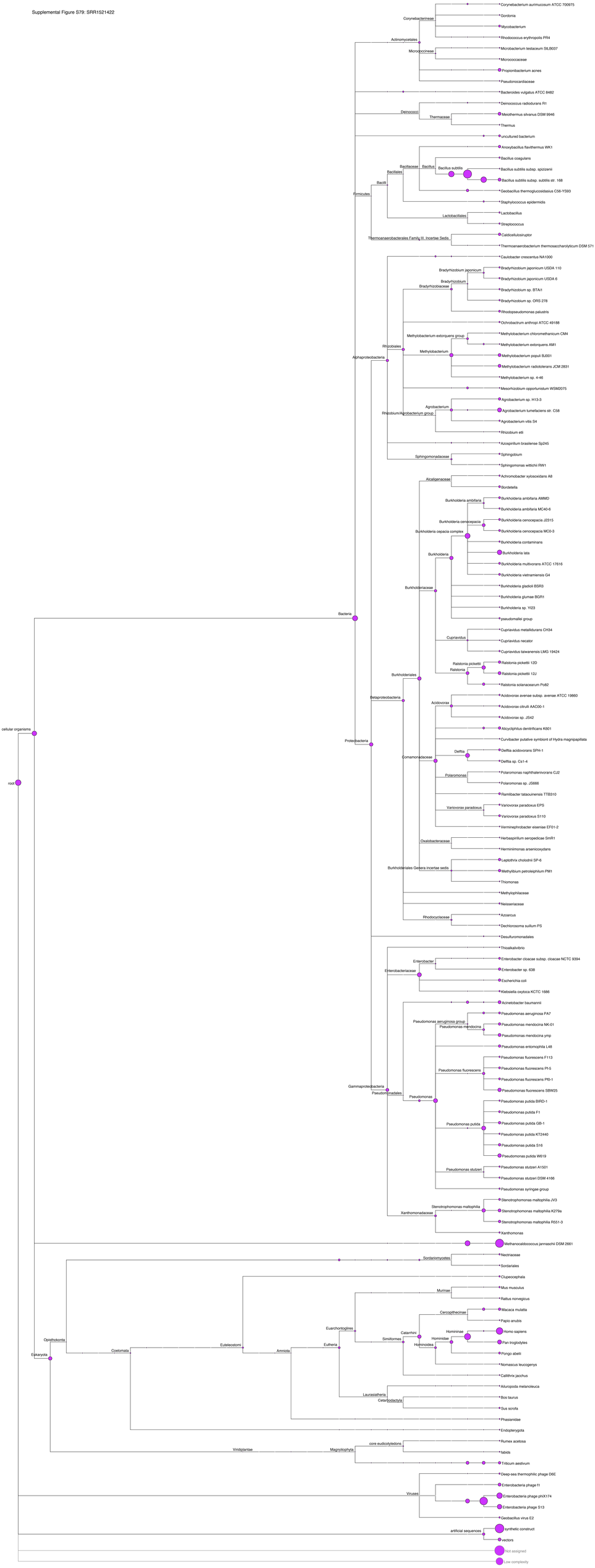
Polynucleobacter sp.

Supplemental Figure S77: SRR1521420



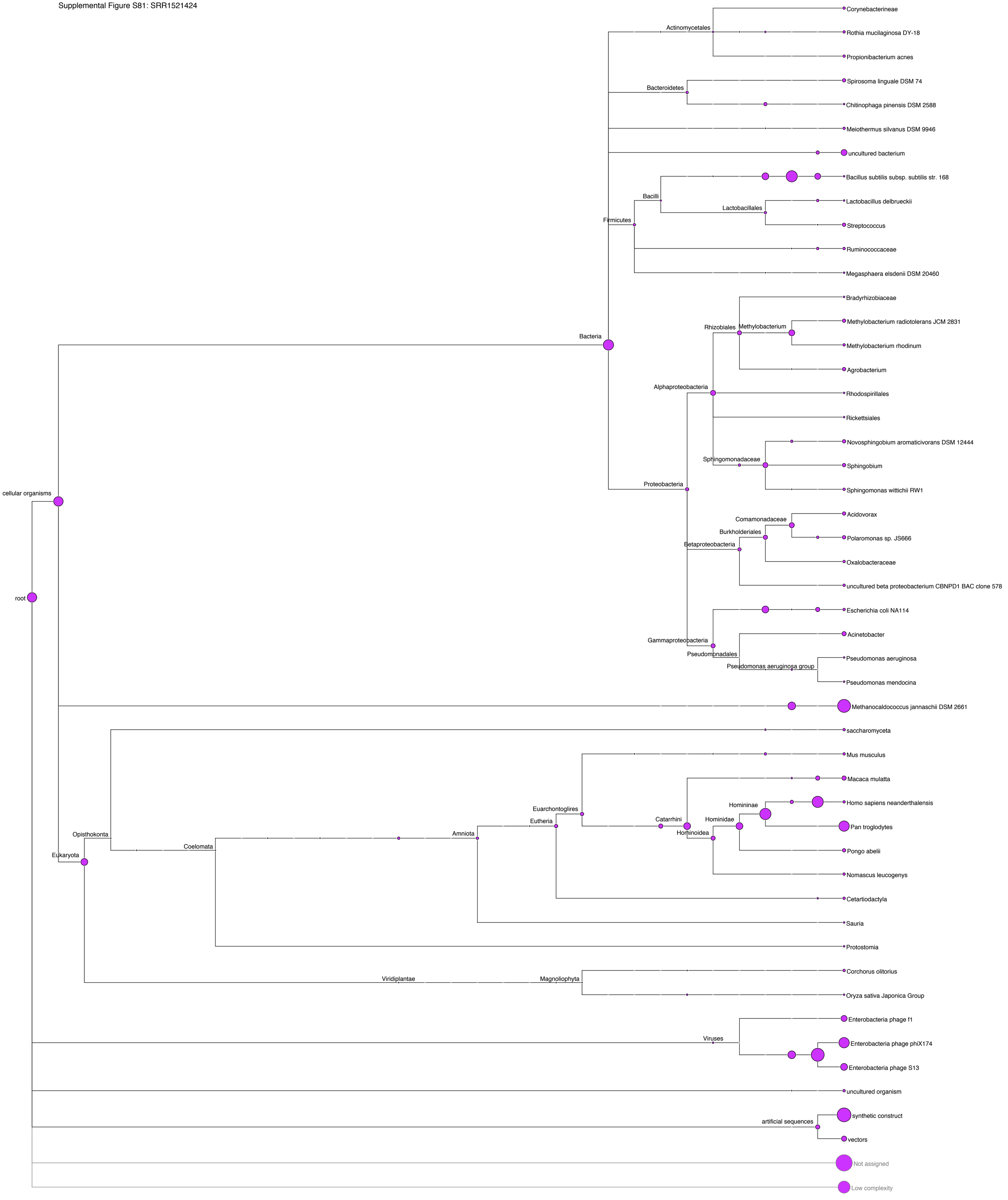
Supplemental Figure S78: SRR1521421

Supplemental Figure S79: SRR1521422

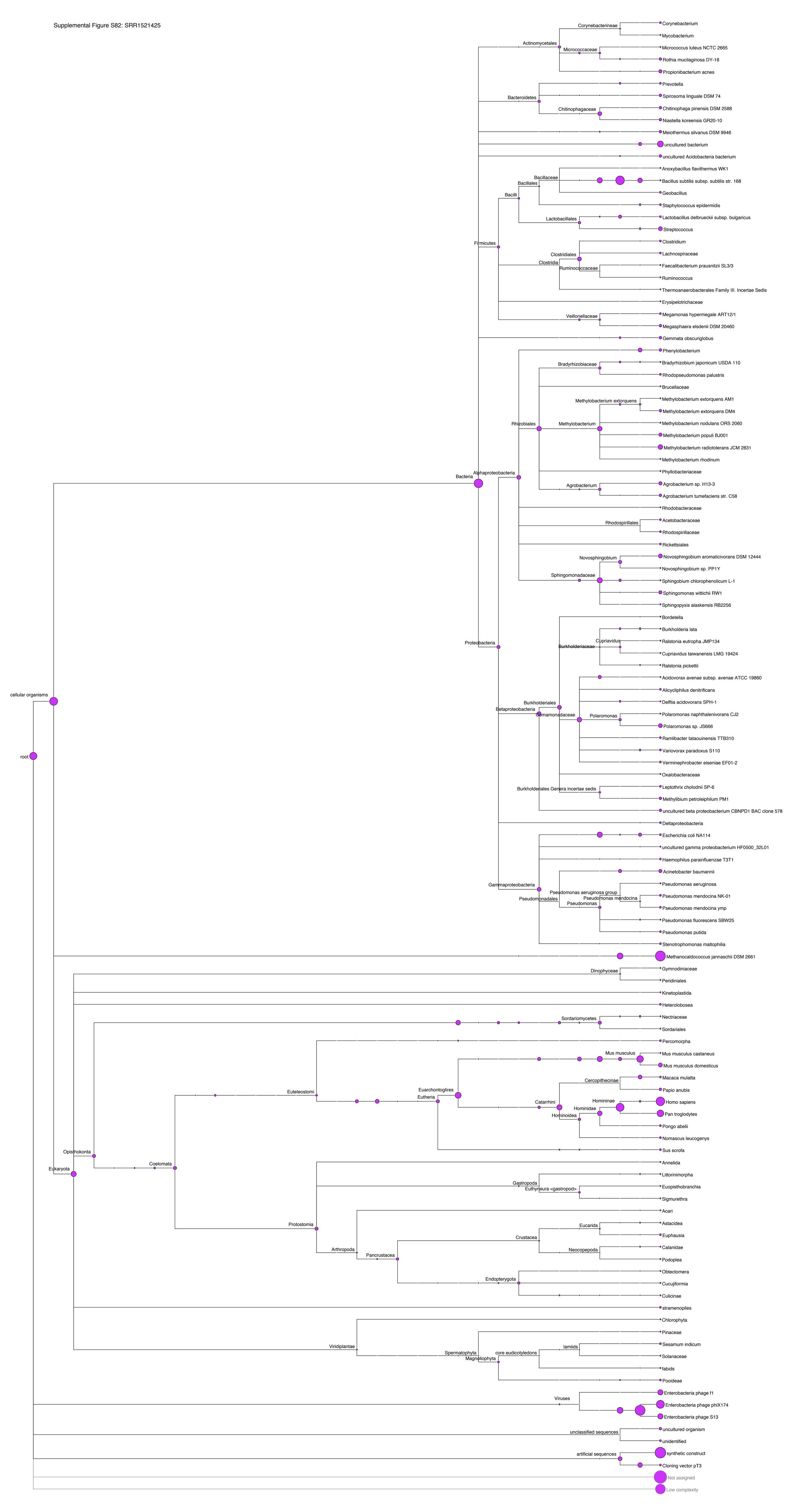


Supplemental Figure S80: SRR1521423

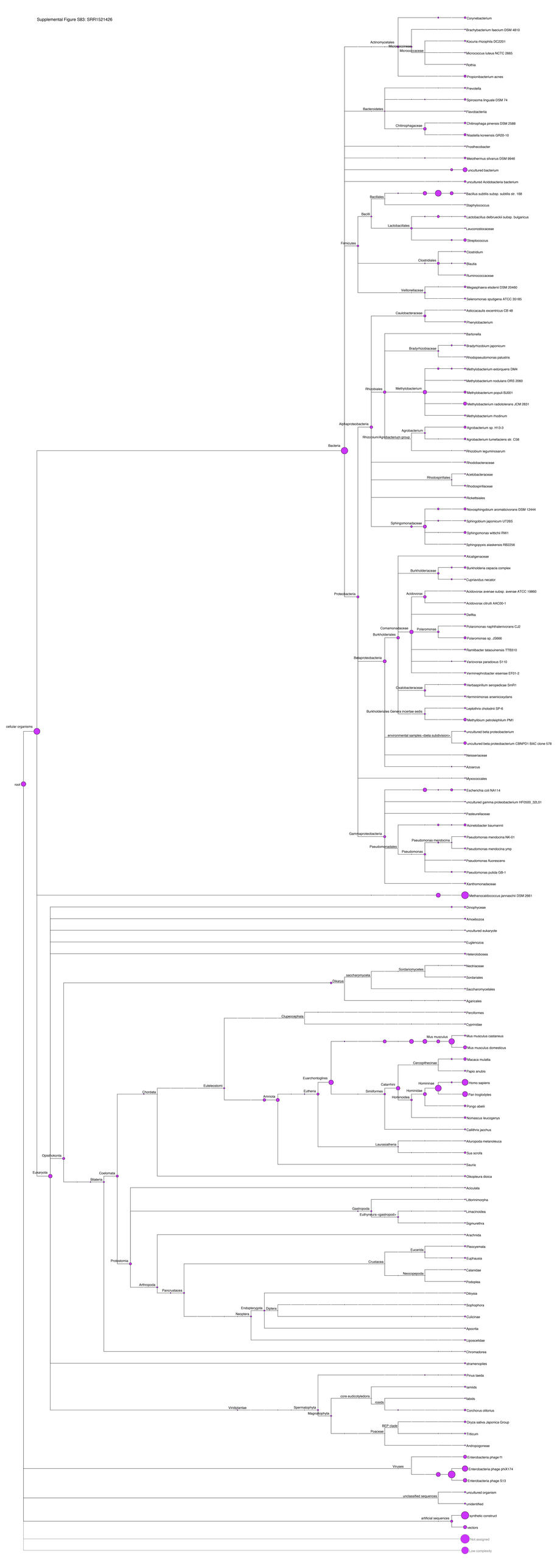
Supplemental Figure S81: SRR1521424



Supplemental Figure S82: SRR1521425

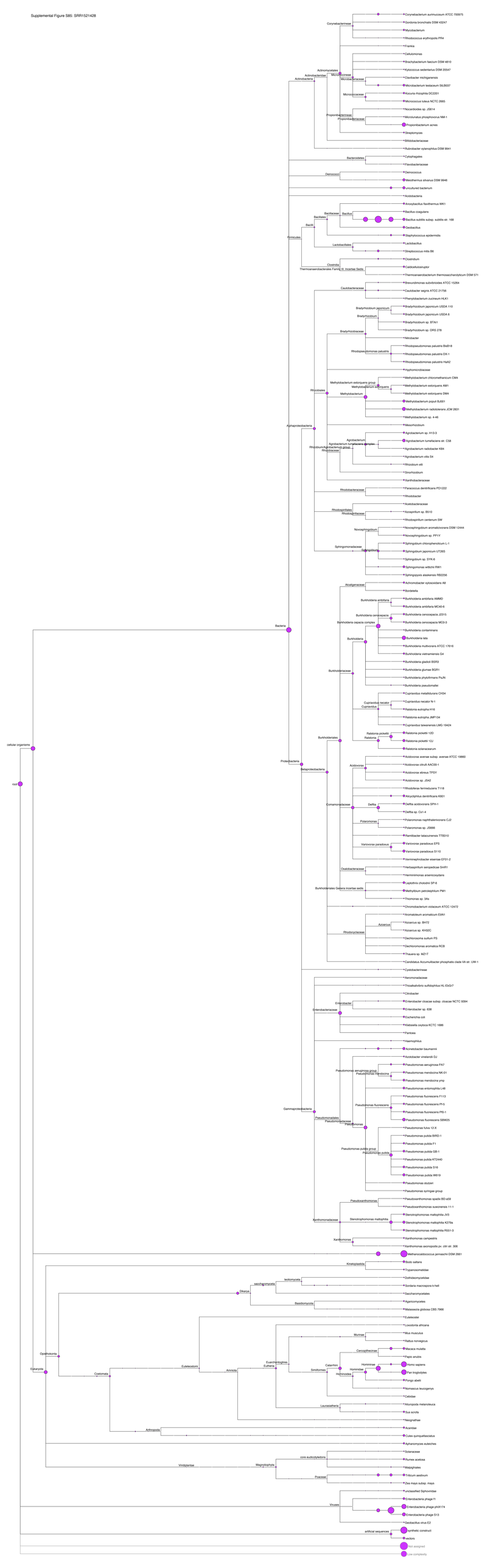


Supplemental Figure S83: SRR1521426

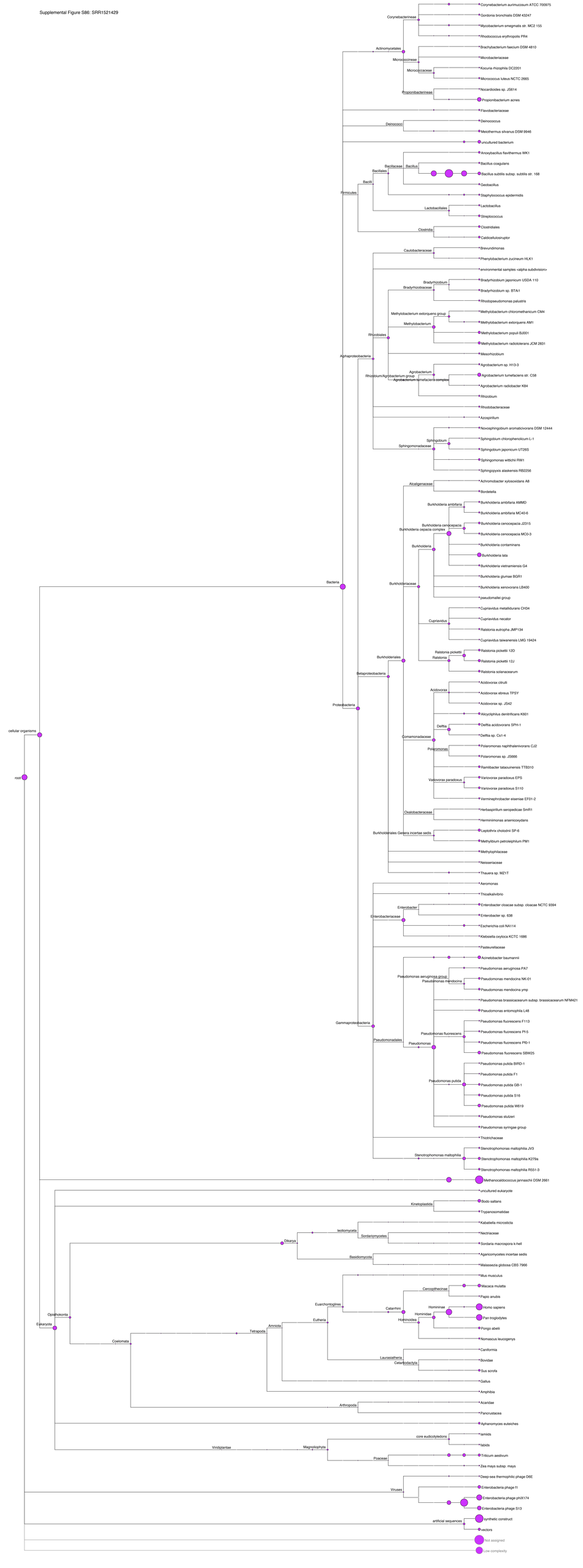


Supplemental Figure S84: SRR1521427

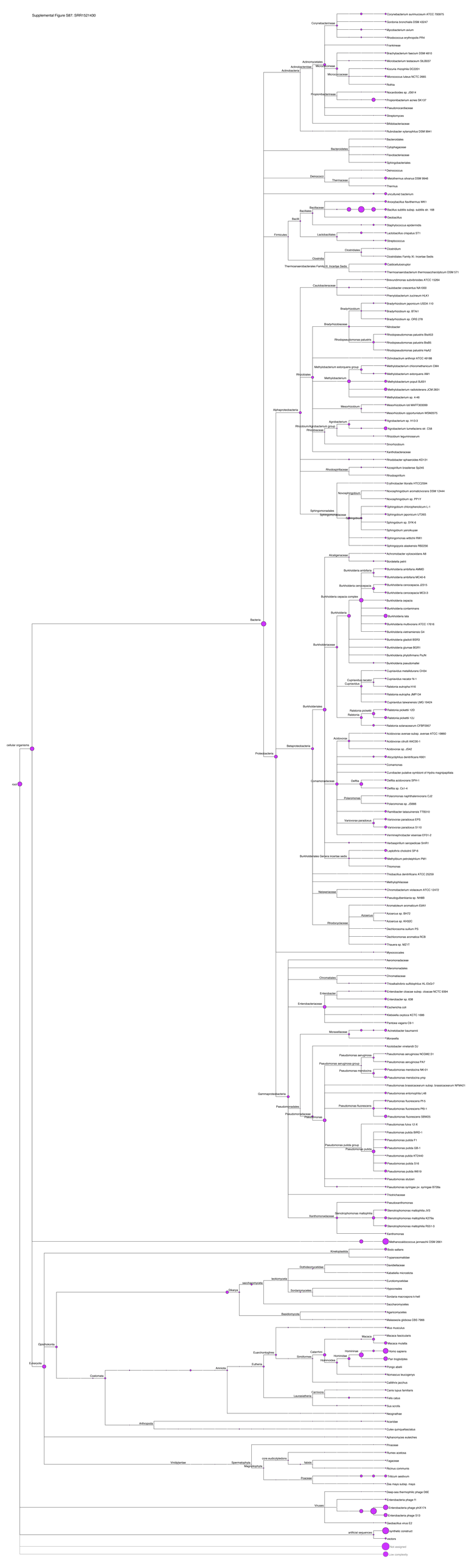
Supplemental Figure S85: SRR11521428



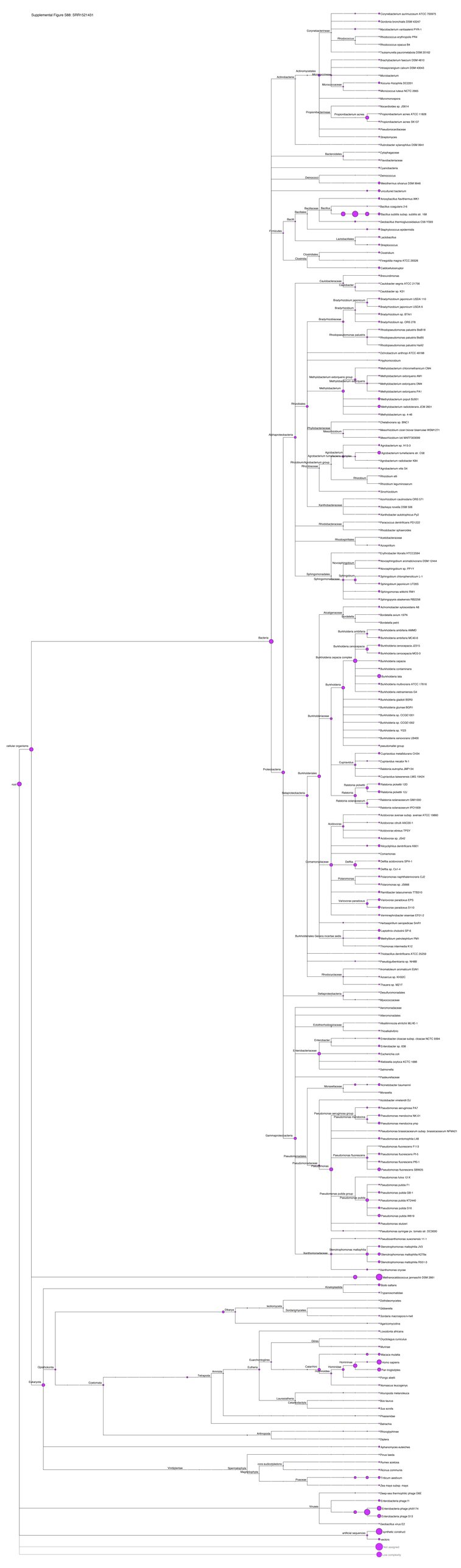
Supplemental Figure S86: SRR1521429



Supplemental Figure S87: SRR1521430



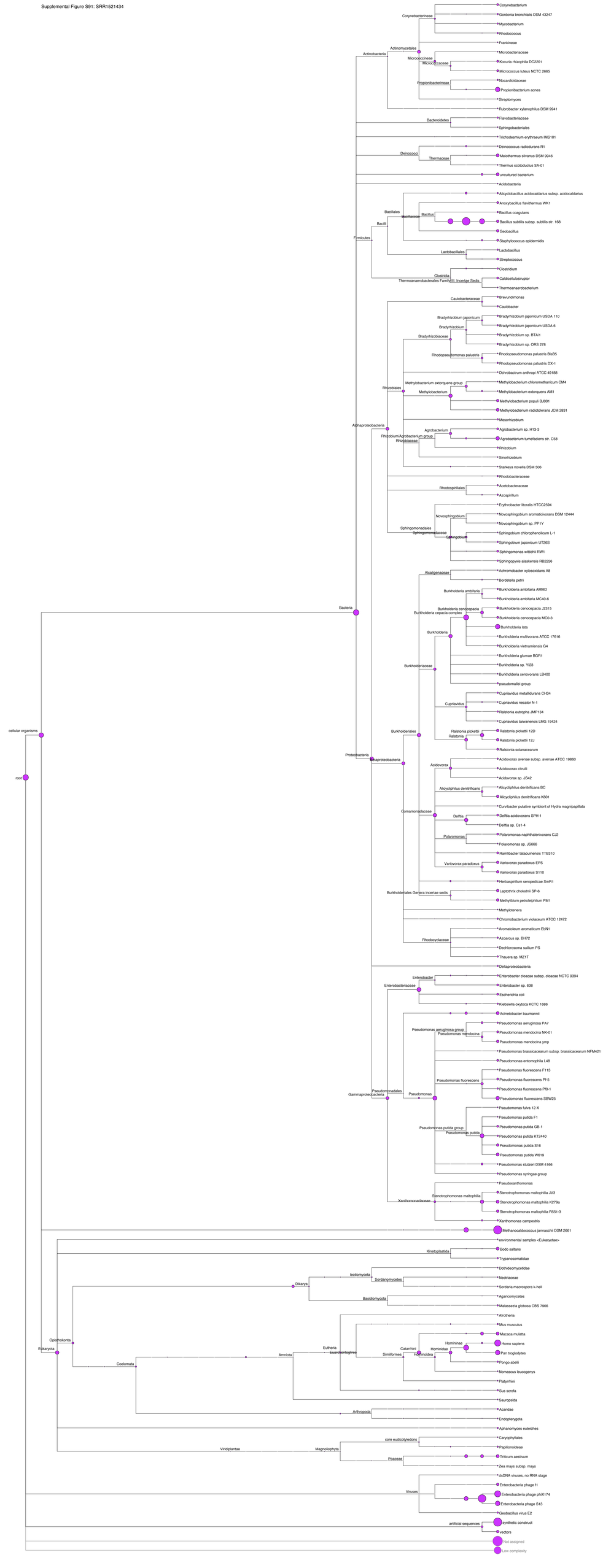
Supplemental Figure S88: SRR1521431



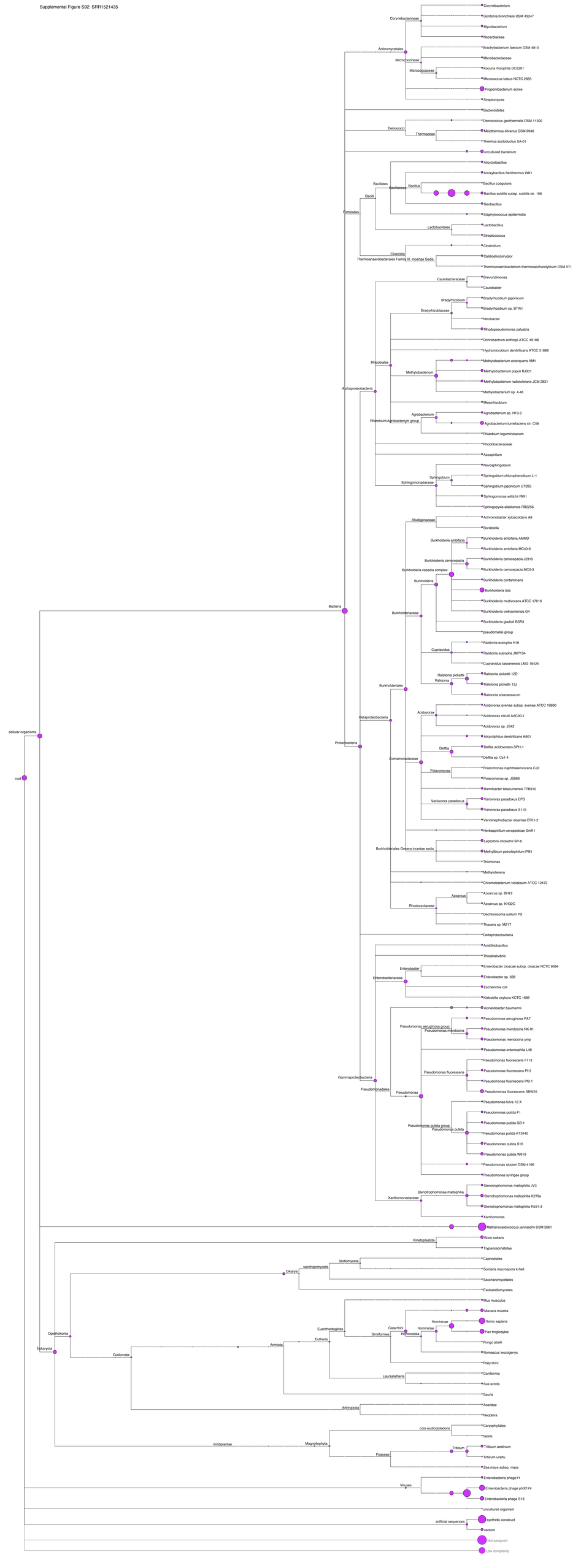
Supplemental Figure S66: SRR1521432

Supplemental Figure S90: SRR1521433

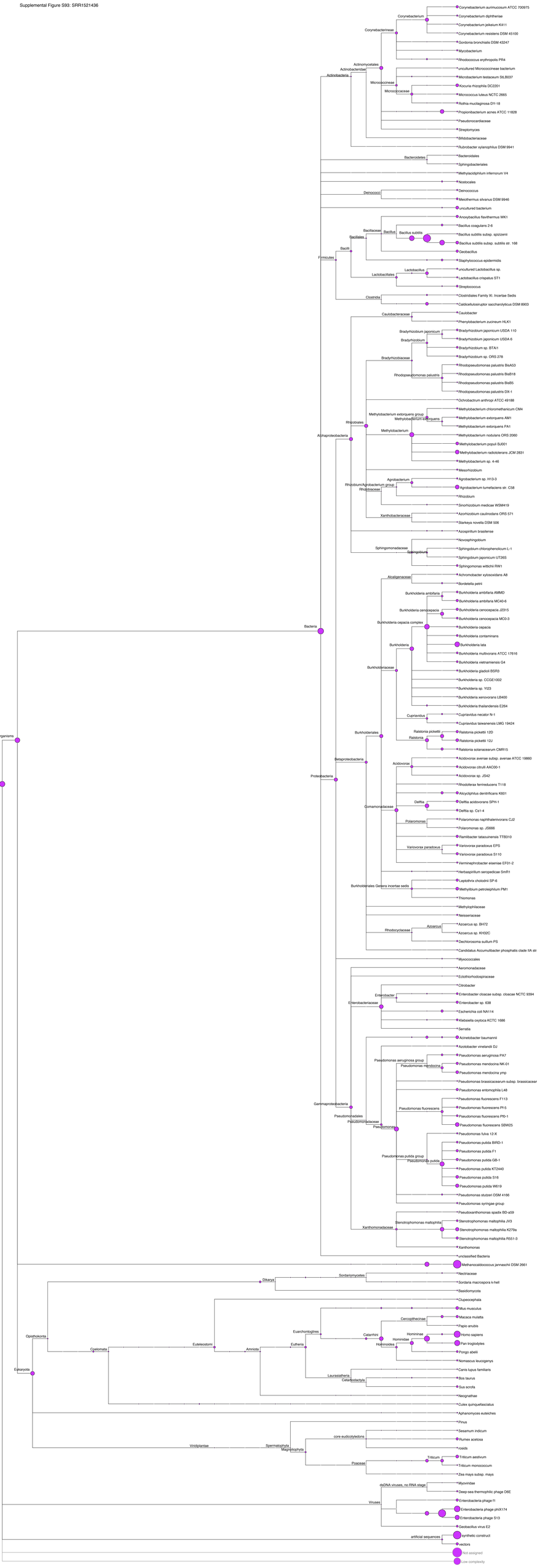
Supplemental Figure S91: SRR1521434



Supplemental Figure S92: SRR1521435



Supplemental Figure S93: SRR1521436


root
cellular organisms
Bacteria
Proteobacteria
Betaproteobacteria
Burkholderiales
Burkholderiaceae
Burkholderia cepacia complex
Burkholderia cenocepacia
Burkholderia ambifaria
Alcaligenaceae
Bordetella petrii
Ralstonia pickettii
Ralstonia solanacearum CMR15
Acidovorax
Acidovorax avenae subsp. avenae ATCC 19860
Acidovorax citrulli AAC00-1
Acidovorax sp. JS42
Rhodoferax ferrireducens T118
Comamonadaceae
Alicycliphilus denitrificans K601
Delftia
Delftia acidovorans SPH-1
Delftia sp. Cs1-4
Polaromonas
Polaromonas naphthalenivorans CJ2
Polaromonas sp. JS666
Ramlibacter tataouinensis TTB310
Variovorax paradoxus
Variovorax paradoxus EPS
Variovorax paradoxus S110
Verminephrobacter eiseniae EF01-2
Herbaspirillum seropedicae SmR1
Gallionellales Genera incertae sedis
Leptothrix cholodnii SP-6
Methylibium petroleiphilum PM1
Thiomonas
Methylophilaceae
Neisseriaceae
Rhodocyclaceae
Azoarcus
Azoarcus sp. BH72
Azoarcus sp. KH32C
Dechloromonas aullum PS
Candidatus Accumulibacter phosphatis clade IIA str. UW-1
Myxococcales
Gammaproteobacteria
Aeromonadaceae
Ectothiorhodospiraceae
Citrobacter
Enterobacteriaceae
Enterobacter
Enterobacter cloacae subsp. cloacae NCTC 9394
Enterobacter sp. 638
Escherichia coli NA114
Klebsiella oxytoca KCTC 1686
Serratia
Pseudomonadales
Moraxellaceae
Acinetobacter baumannii
Azotobacter vinelandii DJ
Pseudomonadaceae
Pseudomonas aeruginosa group
Pseudomonas aeruginosa PA7
Pseudomonas mendocina
Pseudomonas mendocina NK-01
Pseudomonas mendocina ymp
Pseudomonas brassicacearum subsp. brassicacearum NFM421
Pseudomonas entomophila L48
Pseudomonas fluorescens
Pseudomonas fluorescens F113
Pseudomonas fluorescens Pf-5
Pseudomonas fluorescens Pfo-1
Pseudomonas fluorescens SBW25
Pseudomonas
Pseudomonas fulva 12-X
Pseudomonas putida BIRD-1
Pseudomonas putida F1
Pseudomonas putida GB-1
Pseudomonas putida KT2440
Pseudomonas putida S16
Pseudomonas putida W619
Pseudomonas stutzeri DSM 4166
Pseudomonas syringae group
Pseudomonas putida group
Pseudomonas putida
Pseudoxanthomonas spadix BD-a59
Stenotrophomonas maltophilia
Stenotrophomonas maltophilia JV3
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Xanthomonadaceae
Xanthomonas
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Actinomycetales
Actinobacteridae
Corynebacterineae
Corynebacterium
Corynebacterium aurimucosum ATCC 700975
Corynebacterium diphtheriae
Corynebacterium jeikeium K411
Corynebacterium resistens DSM 45100
Gordonia bronchialis DSM 43247
Mycobacterium
Rhodococcus erythropolis PR4
Micrococcineae
uncultured Micrococcineae bacterium
Micrococcaceae
Micrococcus luteus NCTC 2665
Rothia mucilaginosa DY-18
Propionibacterium acnes ATCC 11828
Pseudonocardiaceae
Streptomyces
Bifidobacteriaceae
Rubrobacter xylanophilus DSM 9941
Bacteroidetes
Bacteroidales
Sphingobacteriales
Methylacidiphilum infernorum V4
Nostocales
Deinococci
Deinococcus
Meiothermus silvanus DSM 9946
uncultured bacterium
Firmicutes
Bacilli
Bacillales
Bacillaceae
Bacillus
Bacillus subtilis
Bacillus subtilis subsp. spizizenii
Bacillus subtilis subsp. subtilis str. 168
Geobacillus
Staphylococcus epidermidis
Lactobacillales
Lactobacillus
uncultured Lactobacillus sp.
Lactobacillus crispatus ST1
Streptococcus
Clostridia
Clostridiales Family XI. Incertae Sedis
Caldicellulosiruptor saccharolyticus DSM 8903
Alphaproteobacteria
Caulobacterales
Caulobacteraceae
Caulobacter
Phenylobacterium zucineum HLK1
Rhizobiales
Bradyrhizobium japonicum
Bradyrhizobium japonicum USDA 110
Bradyrhizobium
Bradyrhizobium japonicum USDA 6
Bradyrhizobium sp. BTAi1
Bradyrhizobium sp. ORS 278
Bradyrhizobiaceae
Rhodopseudomonas palustris
Rhodopseudomonas palustris BisA53
Rhodopseudomonas palustris BisB18
Rhodopseudomonas palustris BisB5
Rhodopseudomonas palustris DX-1
Ochrobactrum anthropi ATCC 49188
Methylobacterium chloromethanicum CM4
Methylobacterium extorquens group
Methylobacterium extorquens
Methylobacterium extorquens AM1
Methylobacterium extorquens PA1
Methylobacterium
Methylobacterium nodulans ORS 2060
Methylobacterium populi BJ001
Methylobacterium radiotolerans JCM 2831
Methylobacterium sp. 4-46
Mesorhizobium
Agrobacterium
Agrobacterium sp. H13-3
Agrobacterium tumefaciens str. C58
Rhizobium/Agrobacterium group
Rhizobiaceae
Rhizobium
Sinorhizobium medicae WSM419
Xanthobacteraceae
Azorhizobium caulinodans ORS 571
Starkeya novella DSM 506
Azospirillum brasilense
Sphingomonadaceae
Novosphingobium
Sphingobium
Sphingobium chlorophenolicum L-1
Sphingobium japonicum UT26S
Sphingomonas wittichii RW1
Eukaryota
Opisthokonta
Fungi
Dikarya
Sordariomycetes
Sordaria macrospora k-hell
Basidiomycota
Metazoa
Eumetazoa
Bilateria
Coelomata
Deuterostomia
Chordata
Craniata
Vertebrata
Gnathostomata
Teleostomi
Euteleostomi
Sarcopterygii
Tetrapoda
Amniota
Mammalia
Eutheria
Euarchontoglires
Primates
Haplorrhini
Catarrhini
Hominoidea
Hominidae
Homininae
Homo sapiens
Pan troglodytes
Pongo abelii
Cercopithecinae
Papio anubis
Macaca mulatta
Nomascus leucogenys
Mus musculus
Rodentia
Glires
Lagomorpha
Laurasiatheria
Carnivora
Caniformia
Canis lupus familiaris
Cetartiodactyla
Bos taurus
Suso scrofa
Chiroptera
Eulipotyphla
Perissodactyla
Afrotheria
Proboscidea
Sirenia
Afrosoricida
Tenrecomorphi
Tenrecidae
Echinops telfairi
Xenarthra
Dasypodidae
Dasypus novemcinctus
Choloepus hoffmanni
Myrmecophagidae
Tamandua tetradactyla
Cingulata
Pilosa
Monotremata
Ornithorhynchus anatinus
Metatheria
Didelphimorphia
Didelphis virginiana
Monodelphis domestica
Diprotodontia
Macropus eugenii
Vombatus ursinus
Phascolarctos cinereus
Petromyzontiformes
Petromyzontidae
Petromyzon marinus
Lepidosauria
Squamata
Serpentes
Colubroidea
Viperidae
Crotalinae
Crotalus horridus
Crotalus adamanteus
Colubridae
Natricinae
Thamnophis sirtalis
Thamnophis elegans
Thamnophis sirtalis parietalis
Thamnophis sirtalis pallidula
Thamnophis sirtalis sirtalis
Thamnophis sirtalis fitchi
Thamnophis sirtalis tetrataenia
Thamnophis sirtalis similis
Thamnophis sirtalis annectens
Thamnophis sirtalis infernalis
Thamnophis sirtalis concinnus
Thamnophis sirtalis pickeringii
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Thamnophis sirtalis sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x semifasciata
Thamnophis sirtalis sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula
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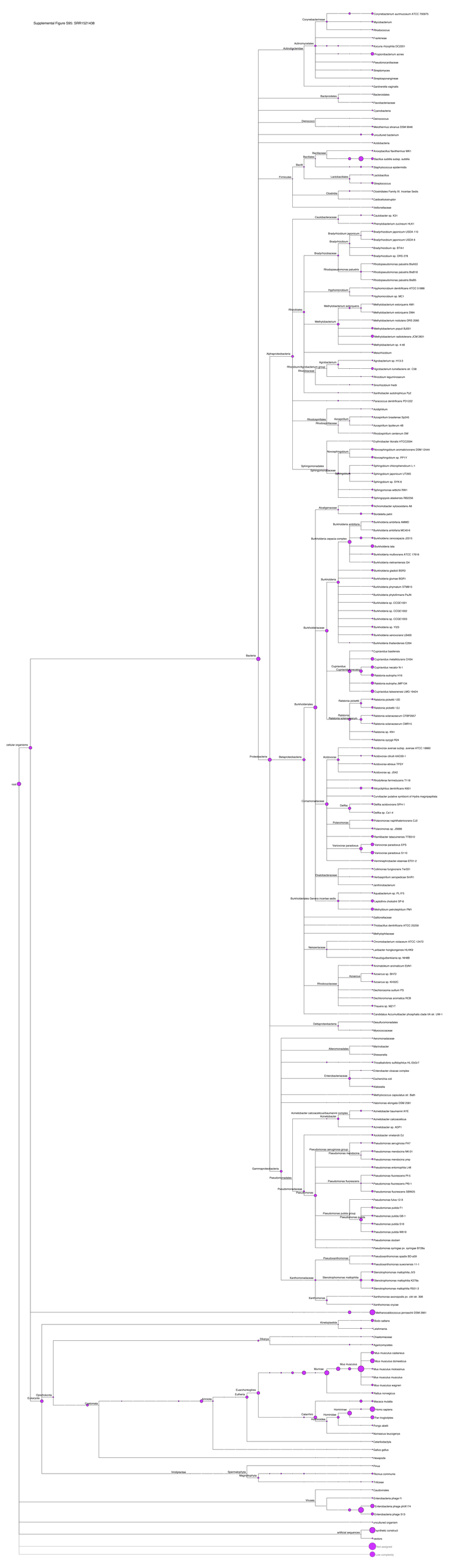
Thamnophis sirtalis sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x similis
Thamnophis sirtalis sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x annectens
Thamnophis sirtalis sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x sirtalis x parietalis x pallidula x infernalis
Thamnophis sirtalis sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x fitchi x sirtalis x parietalis x pallidula x sirtalis x

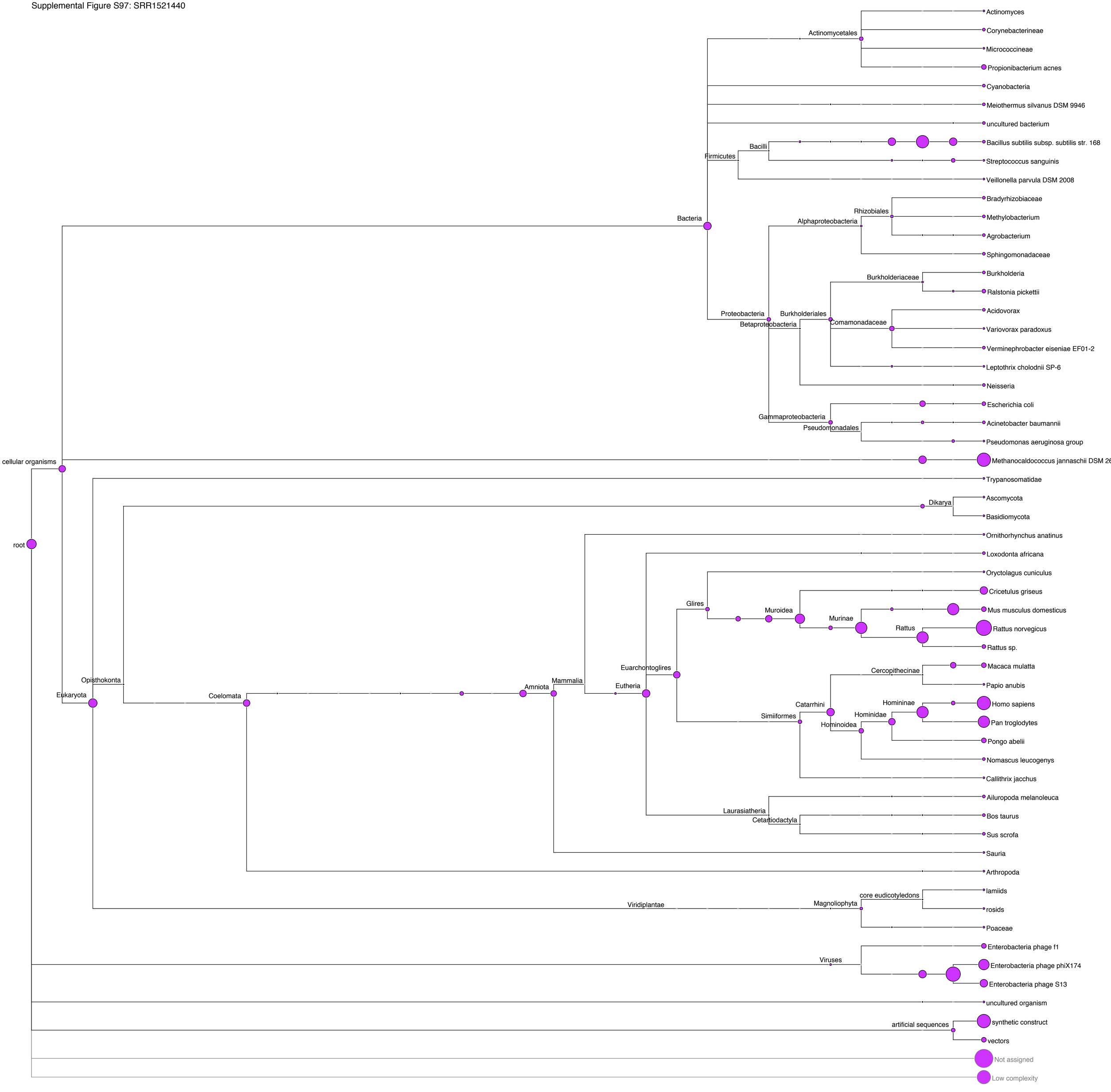
Supplemental Figure S84: SRR1521437

Supplemental Figure S9S: SRR11521438

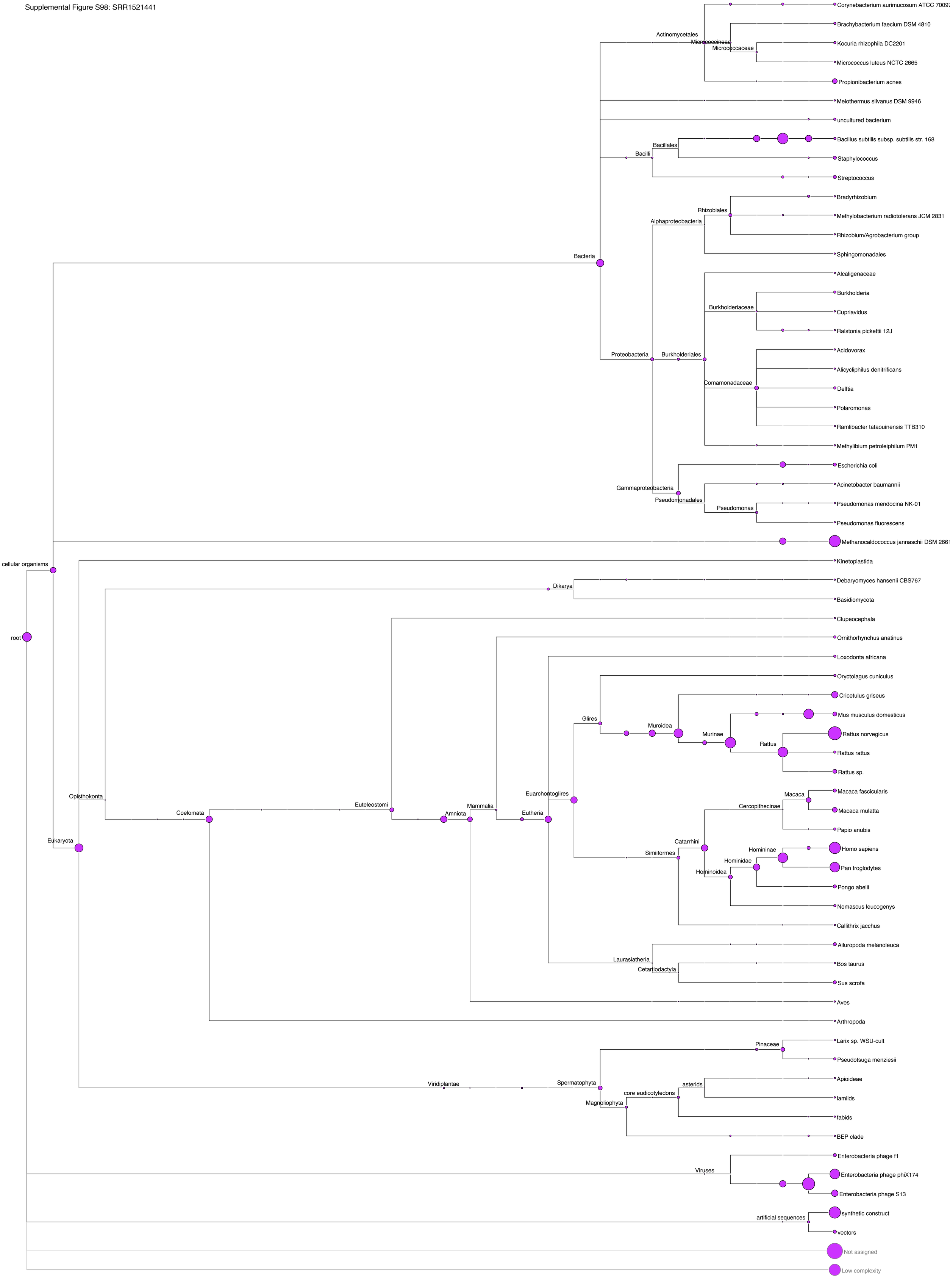


Supplemental Figure S96: SRR1521439

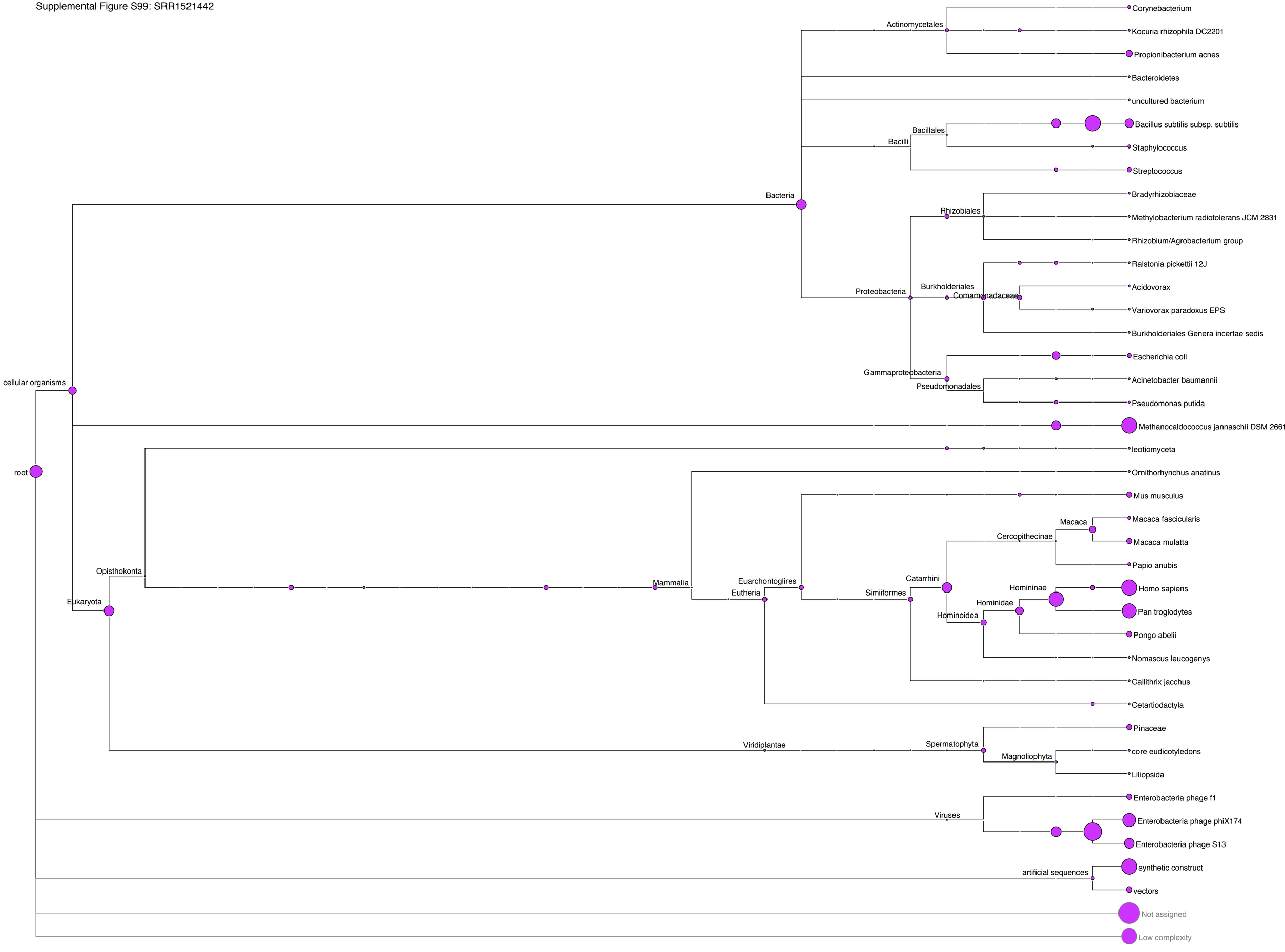
Supplemental Figure S97: SRR1521440



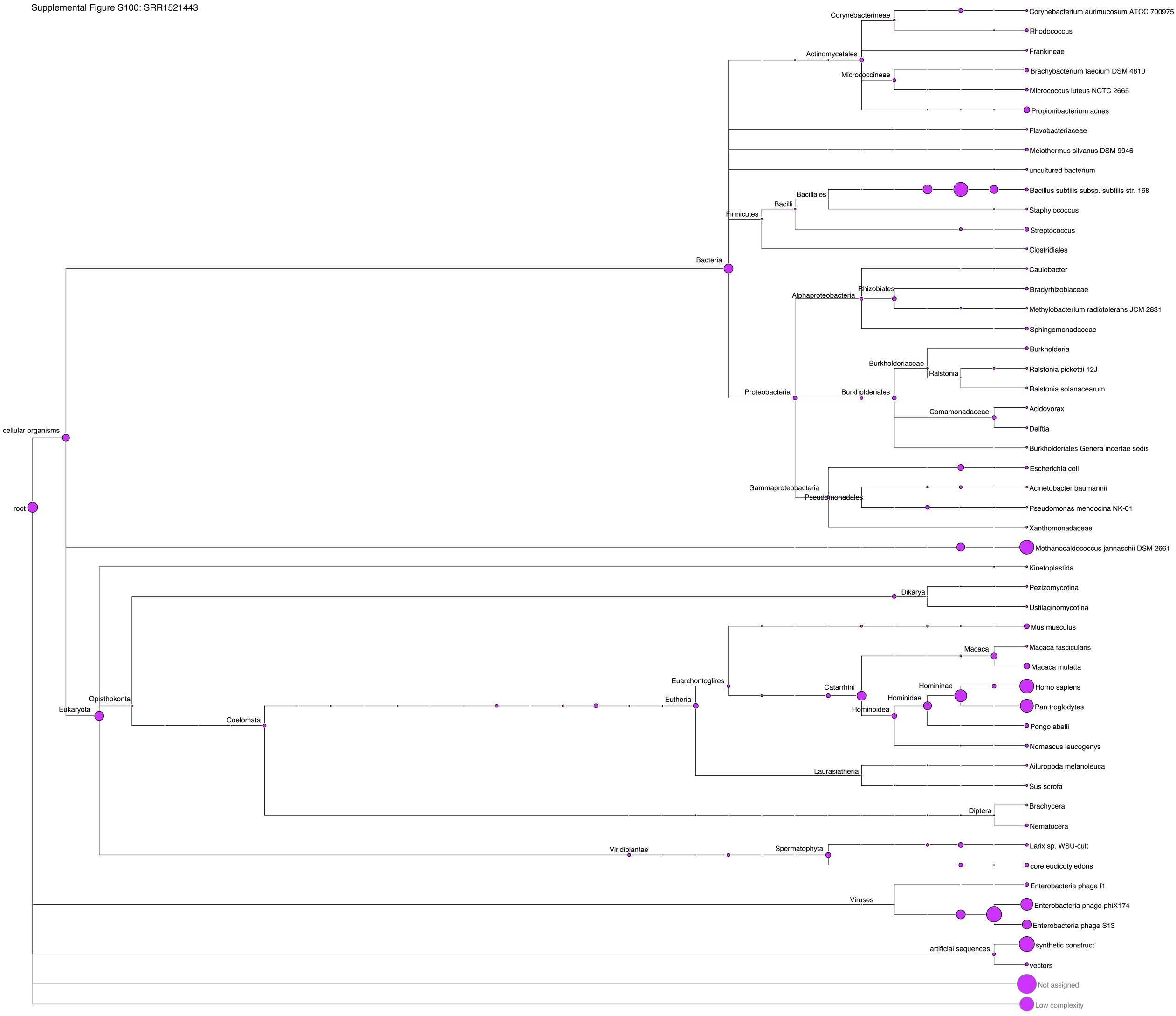
Supplemental Figure S98: SRR1521441



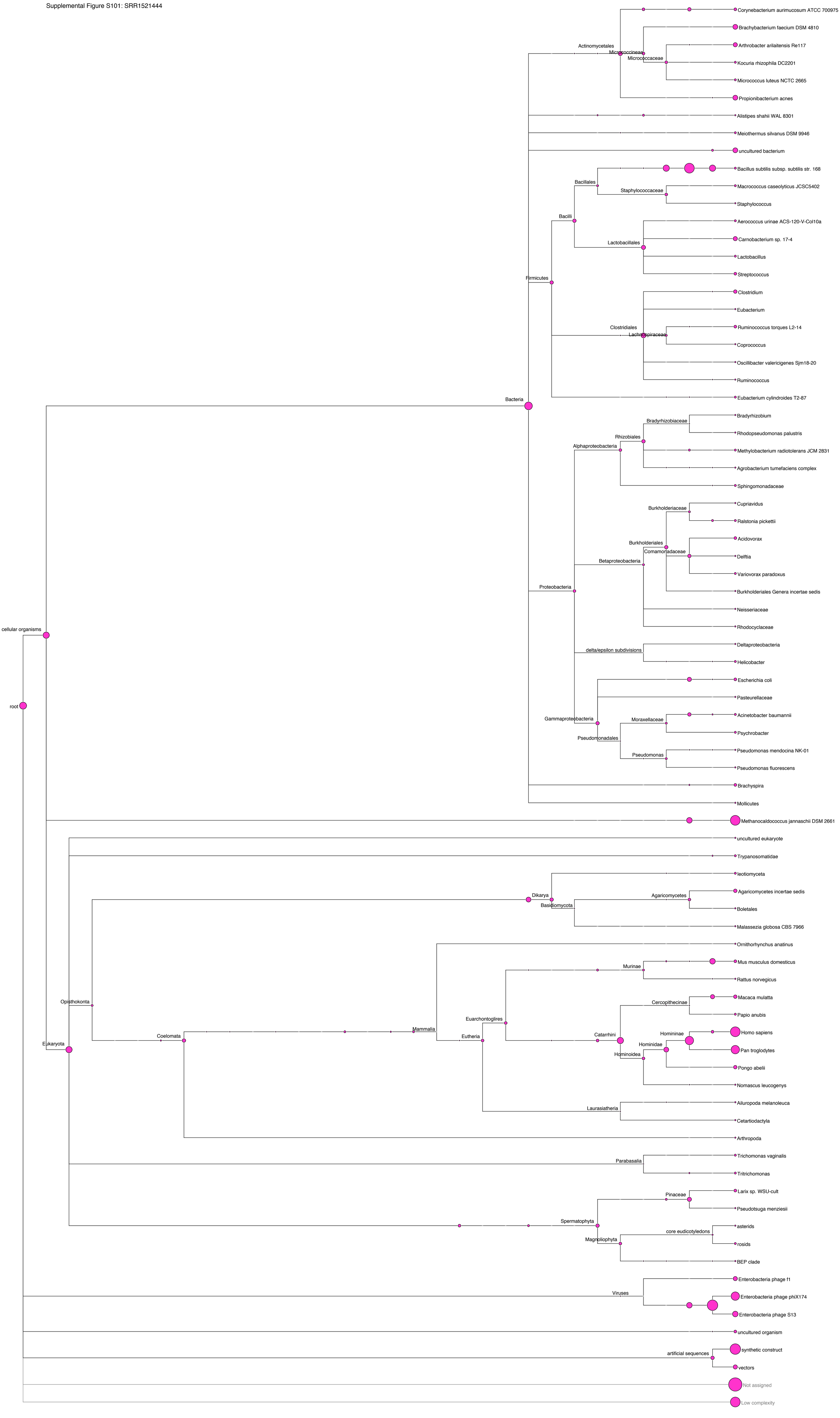
Supplemental Figure S99: SRR1521442



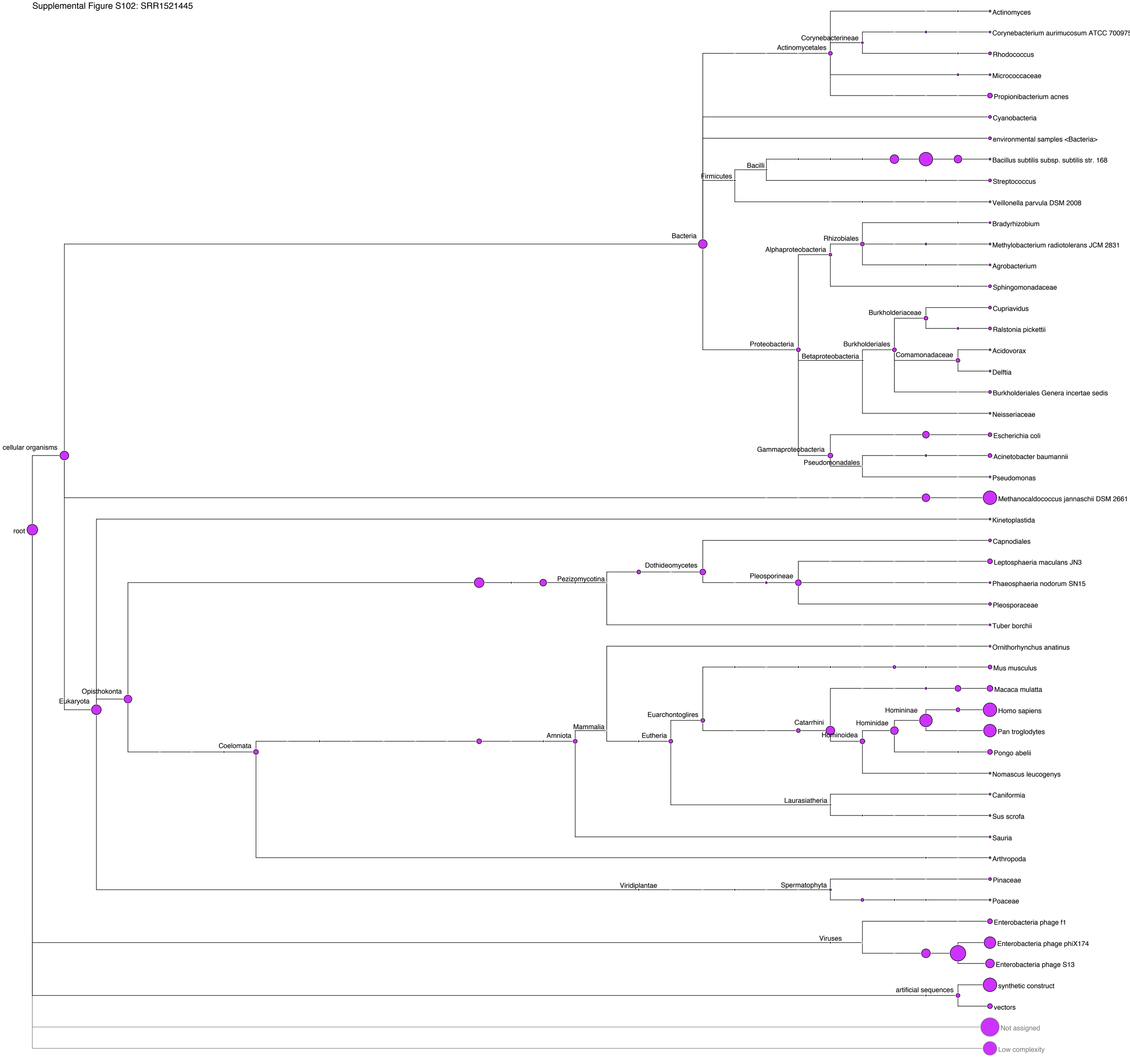
Supplemental Figure S100: SRR1521443

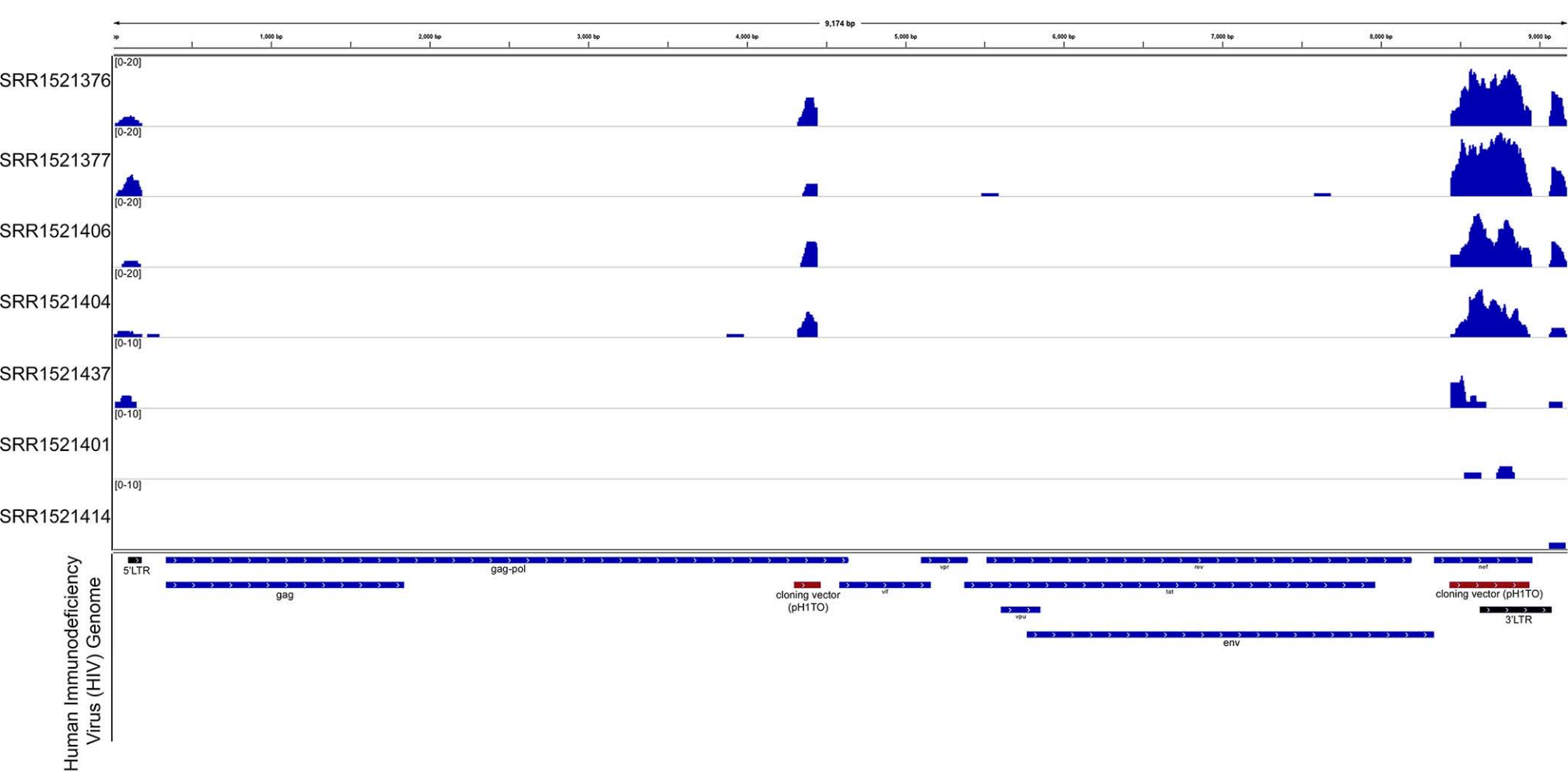


Supplemental Figure S101: SRR1521444



Supplemental Figure S102: SRR1521445

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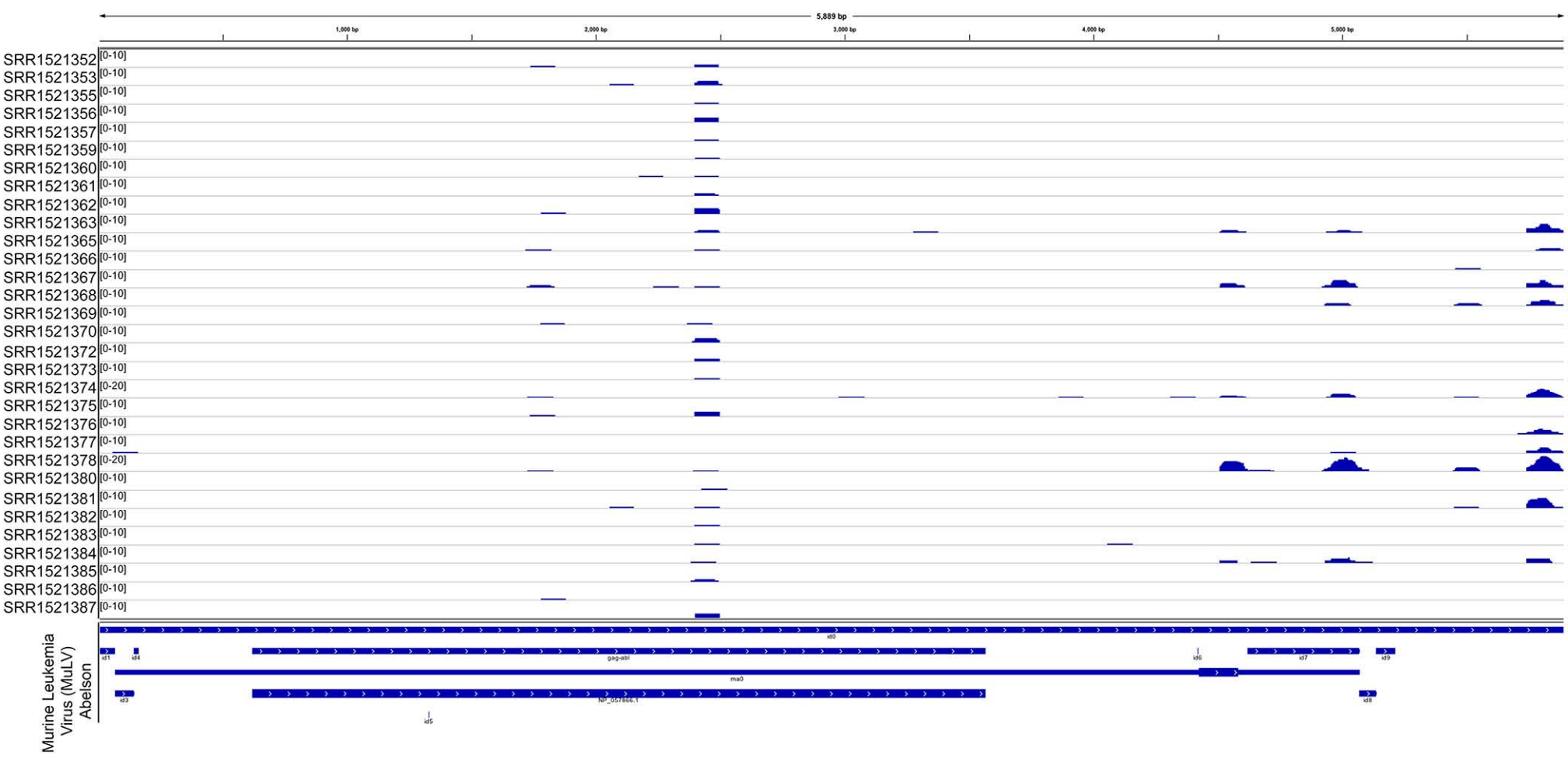
[0-10]
SRR1521401
[0-10]
SRR1521414
Human Immunodeficiency Virus (HIV) Genome
5'LTR
gag
gag-pol
cloning vector (pH1TO)
vif
vpr
tat
rev
vpu
env
nef
cloning vector (pH1TO)
3'LTR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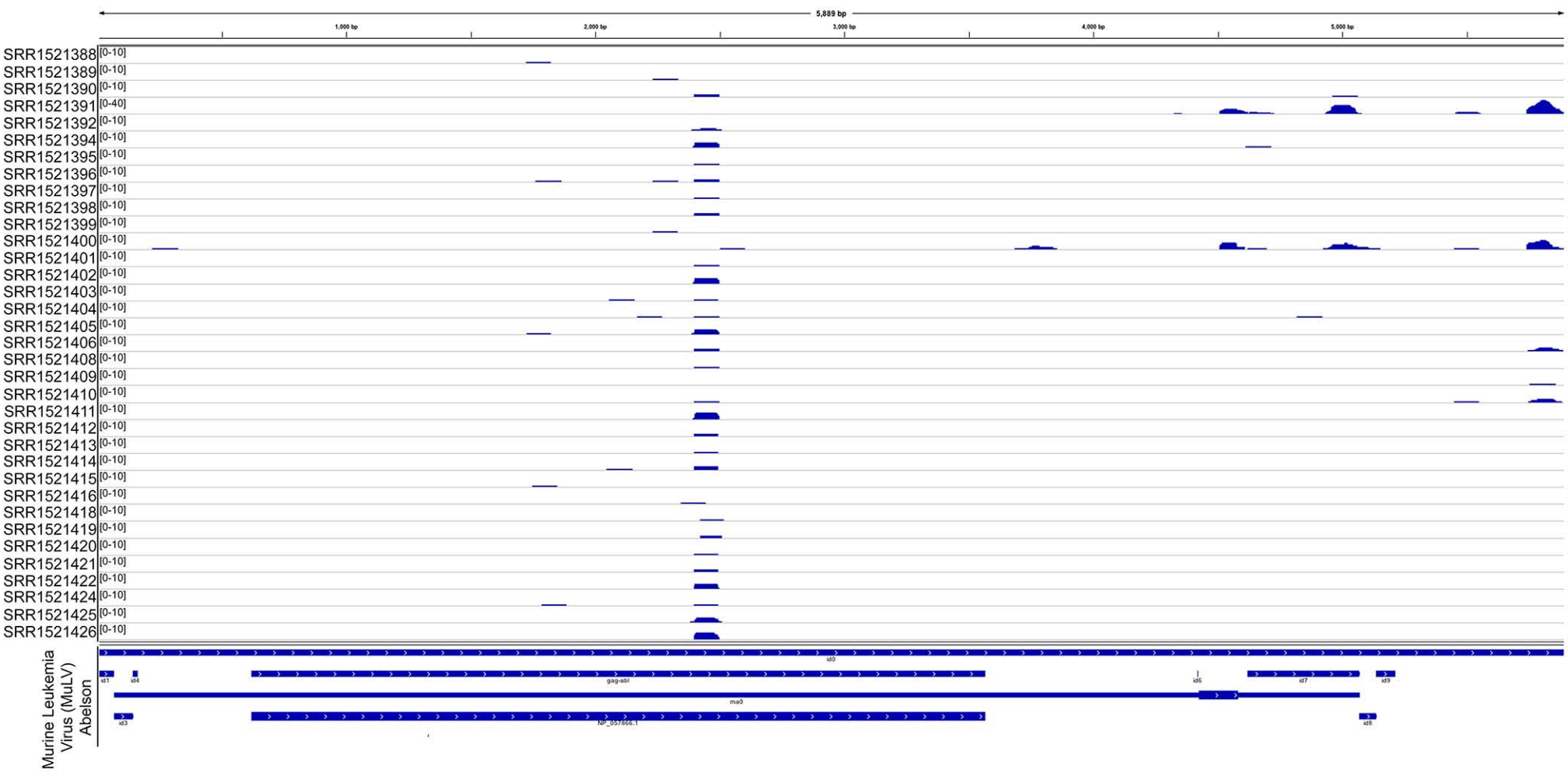
SRR1521386 [0-10]
SRR1521387 [0-10]
id0
id1
id4
gag-abl
id6
id7
id9
ma0
id3
NP_057866.1
id8
id5
Murine Leukemia Virus (MuLV) Abelson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SRR1521391 [0-40]
SRR1521392 [0-10]
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SRR1521395 [0-10]
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SRR1521406 [0-10]
SRR1521408 [0-10]
SRR1521409 [0-10]
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SRR1521425 [0-10]
SRR1521426 [0-10]
Murine Leukemia Virus (MuLV) Abelson
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id1
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gag-abl
id6
id7
id9
ma0
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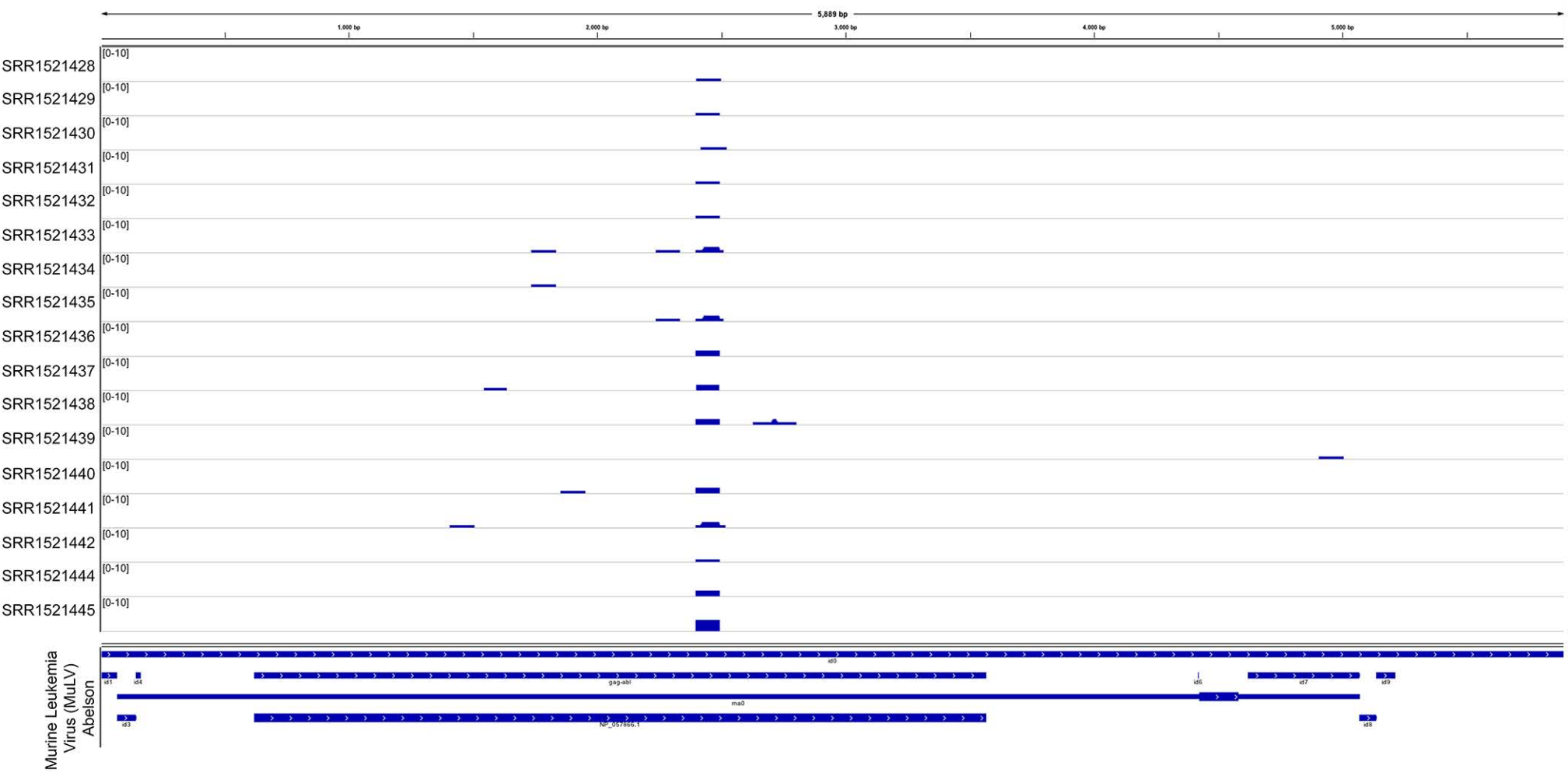
NP_057866.1
id8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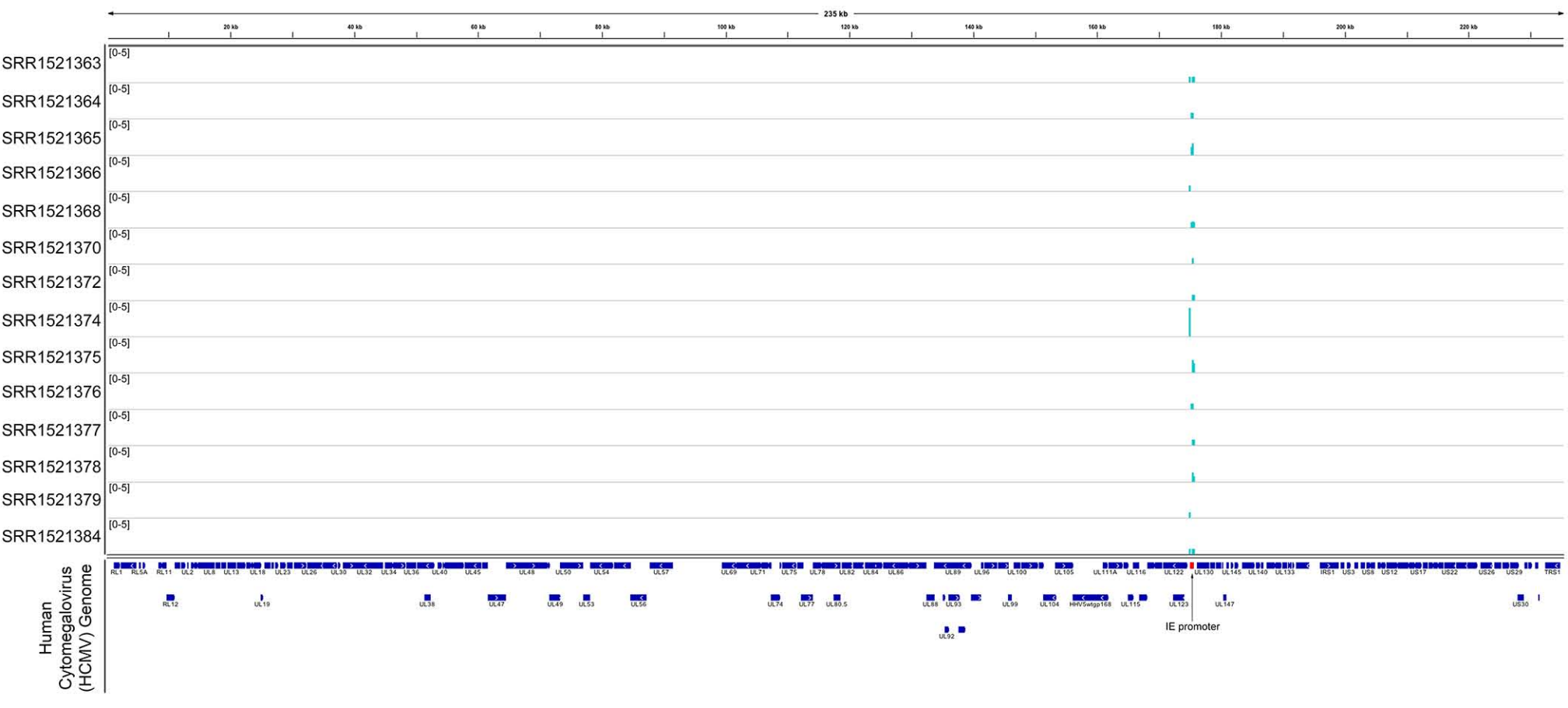
SRR1521437
SRR1521438
SRR1521439
SRR1521440
SRR1521441
SRR1521442
SRR1521444
SRR1521445
[0-10]
Murine Leukemia Virus (MuLV) Abelson
id0
id1
id4
gag-abl
id6
id7
id9
ma0
id3
NP_057866.1
id8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140 kb
160 kb
180 kb
200 kb
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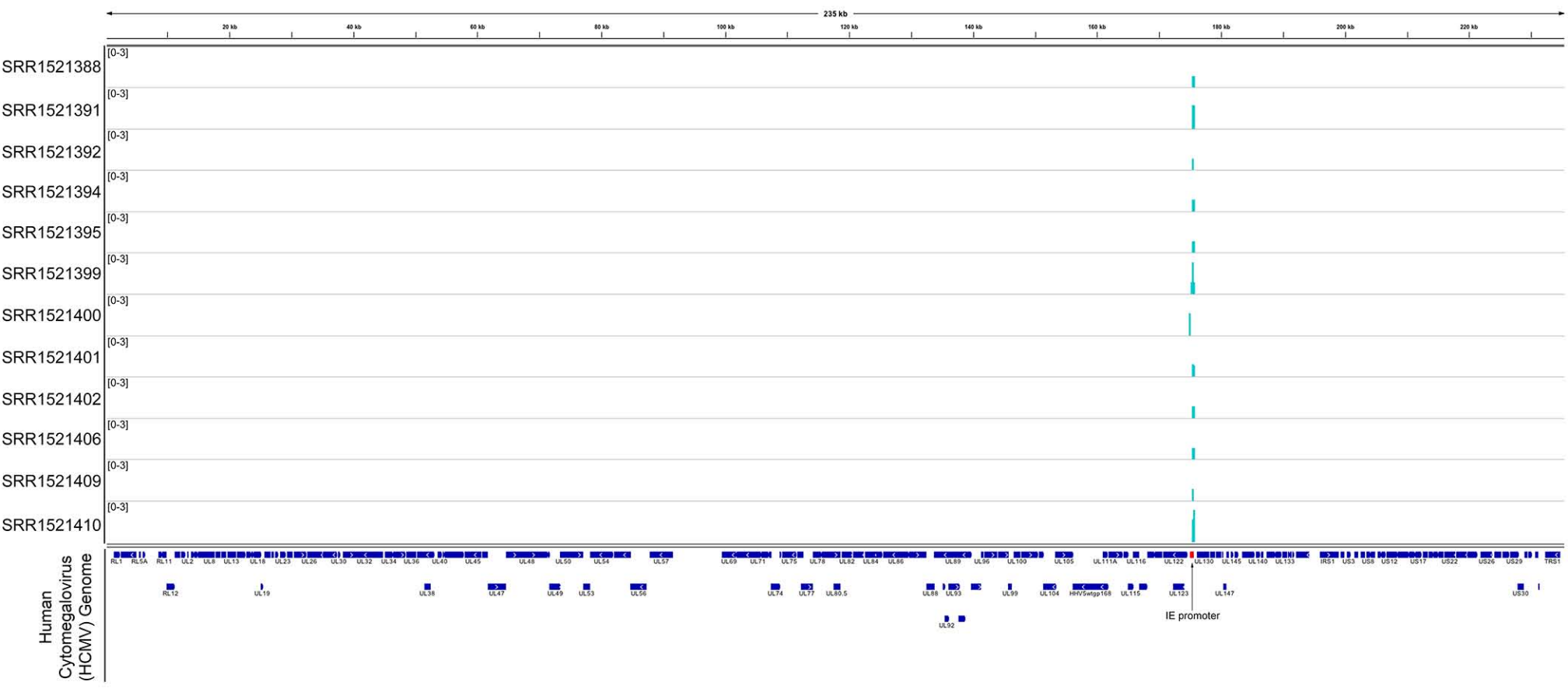
SRR1521365
SRR1521366
SRR1521368
SRR1521370
SRR1521372
SRR1521374
SRR1521375
SRR1521376
SRR1521377
SRR1521378
SRR1521379
SRR1521384
[0-5]
Human Cytomegalovirus (HCMV) Genome
IE promoter


235 kb
20 kb
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220 kb
SRR1521388
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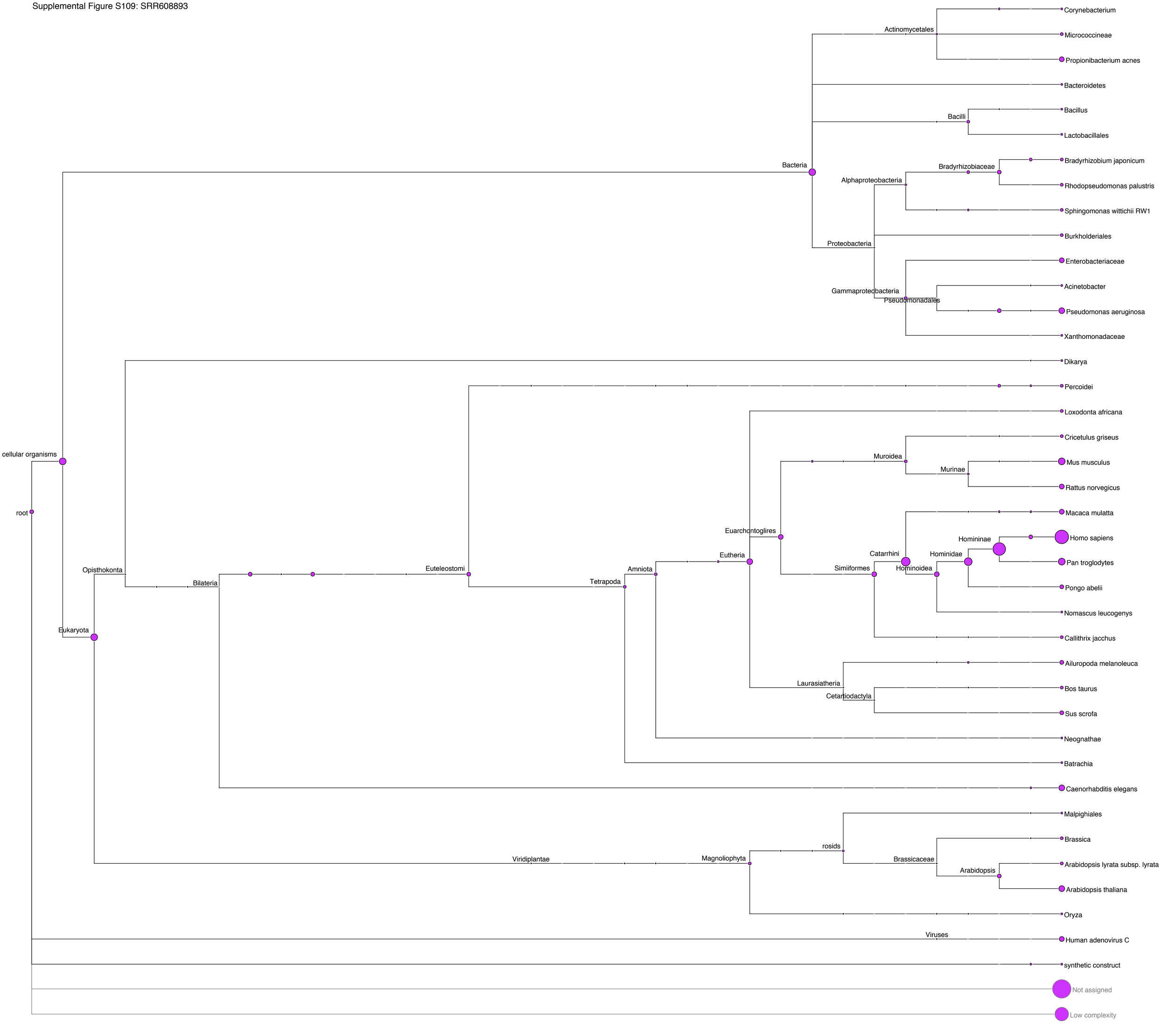
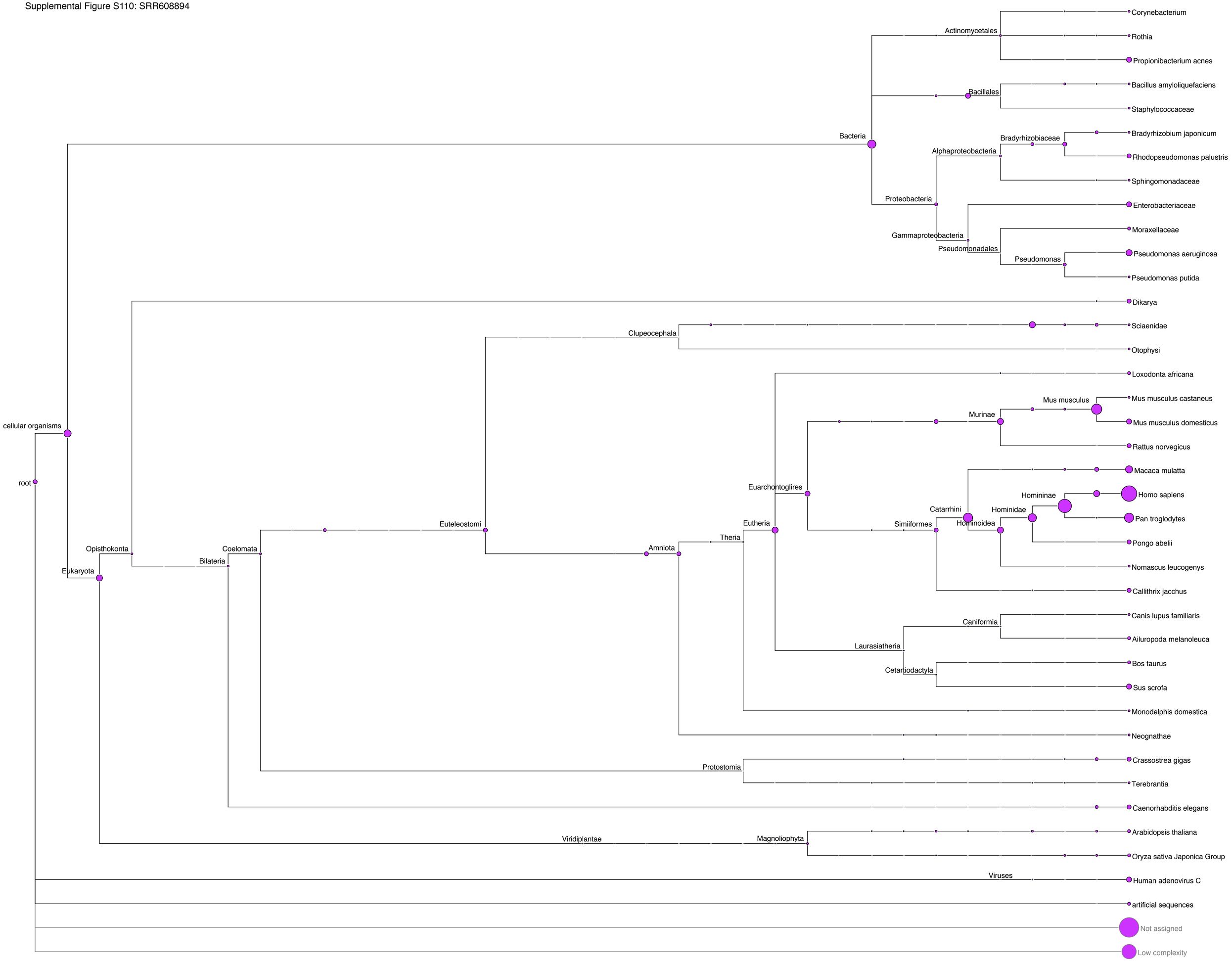
SRR1521392
SRR1521394
SRR1521395
SRR1521399
SRR1521400
SRR1521401
SRR1521402
SRR1521406
SRR1521409
SRR1521410
[0-3]
Human Cytomegalovirus (HCMV) Genome
RL1 RL5A RL11 UL2 UL8 UL13 UL18 UL23 UL26 UL30 UL32 UL34 UL36 UL40 UL45 UL48 UL50 UL54 UL57 UL69 UL71 UL75 UL78 UL82 UL84 UL86 UL89 UL96 UL100 UL105 UL111A UL116 UL122 UL130 UL145 UL140 UL133 IRS1 US3 US8 US12 US17 US22 US26 US29 TRS1
RL12 UL19 UL38 UL47 UL49 UL53 UL56 UL74 UL77 UL80.5 UL88 UL93 UL99 UL104 HHV5wtgp168 UL115 UL123 UL147 US30
UL92
IE promoter

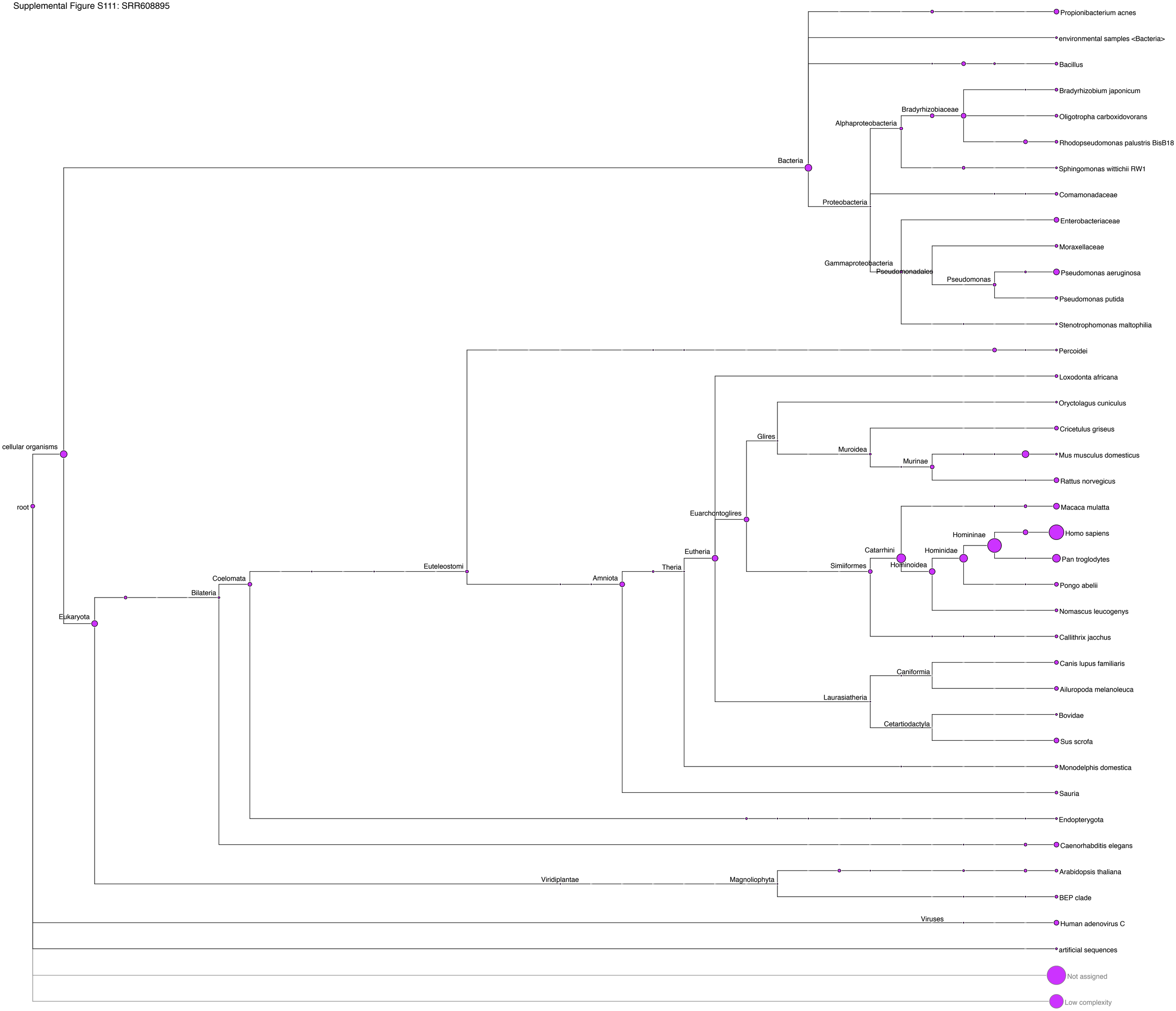
Supplemental Figure S109: SRR608893



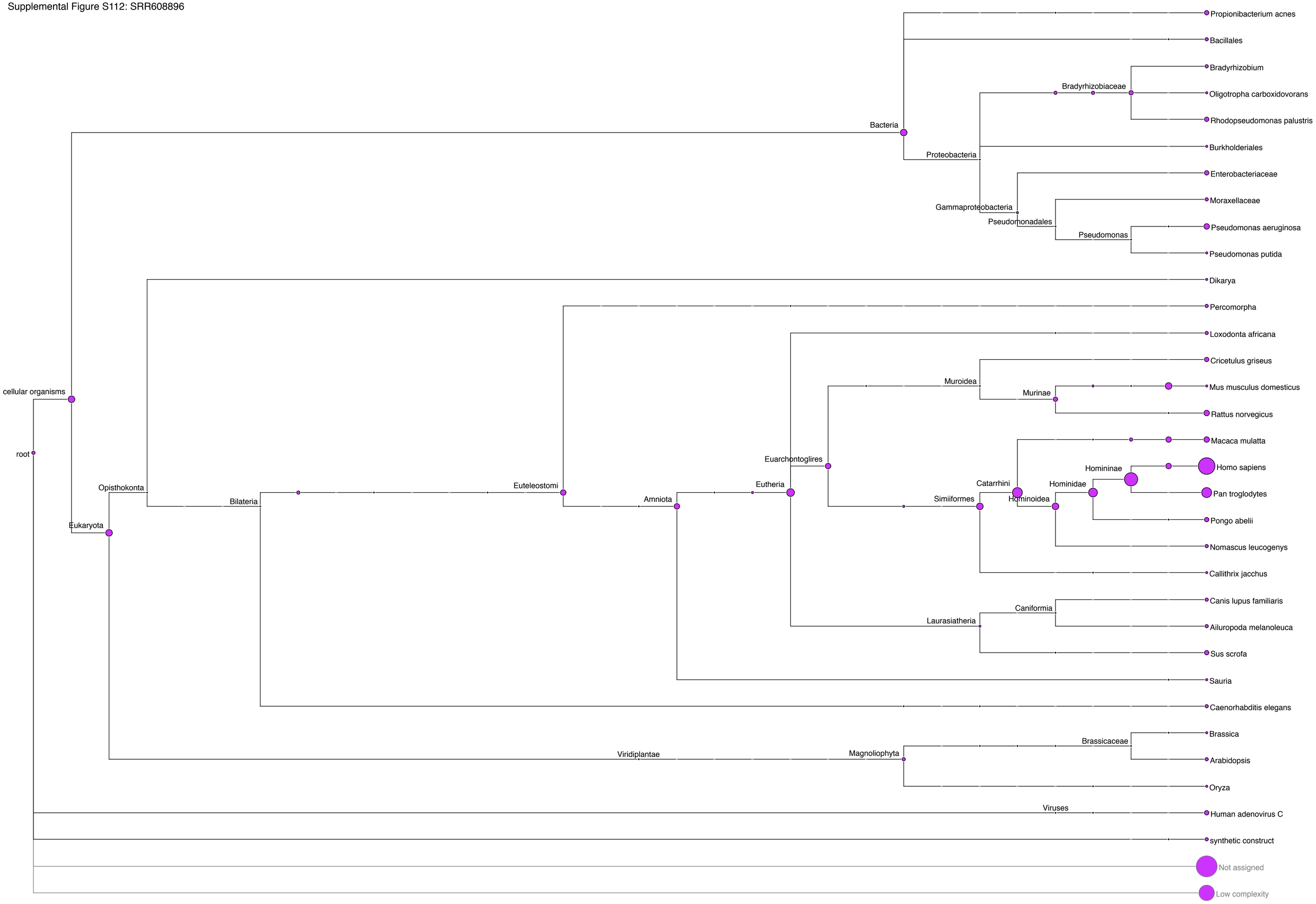
Supplemental Figure S110: SRR608894



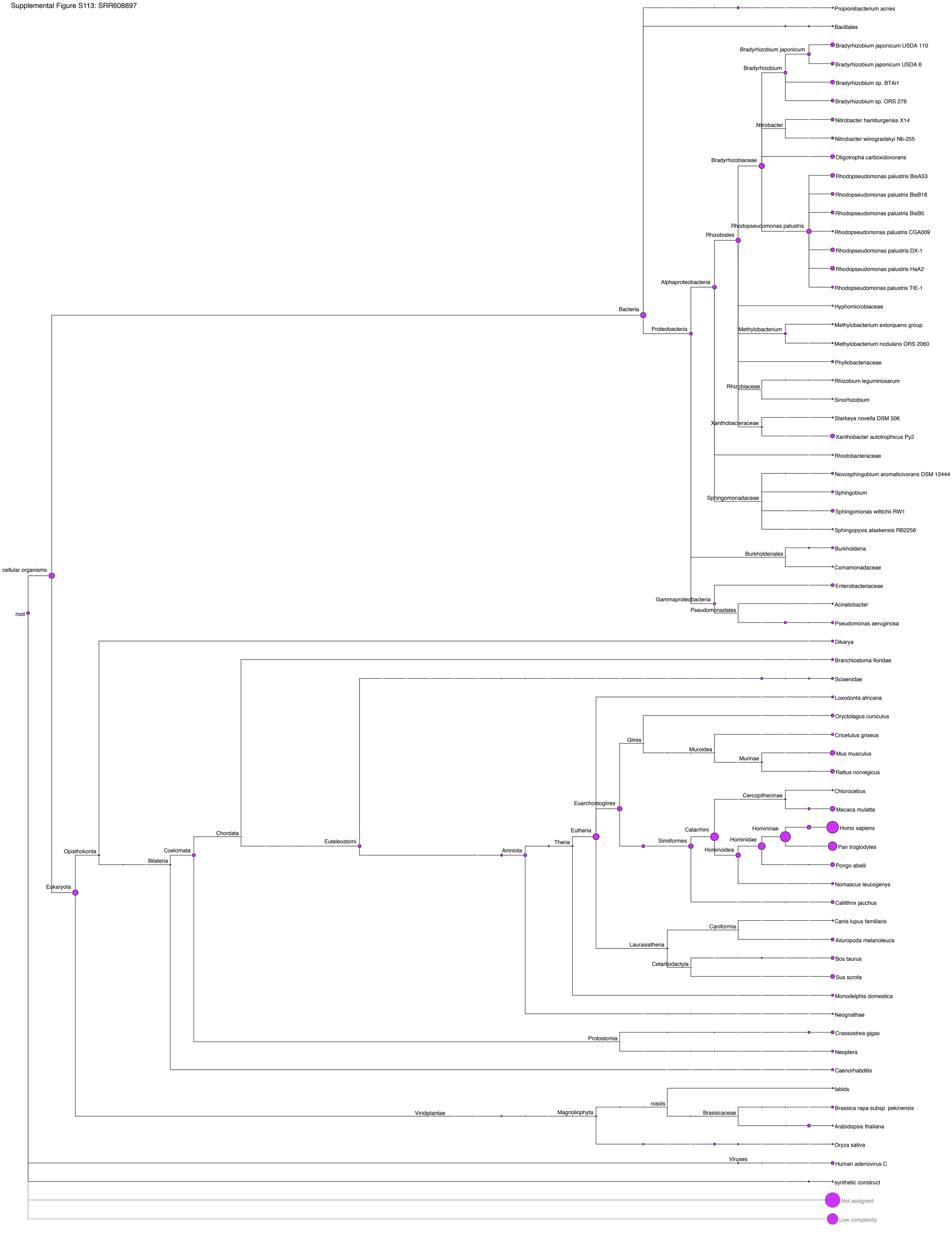
Supplemental Figure S111: SRR608895



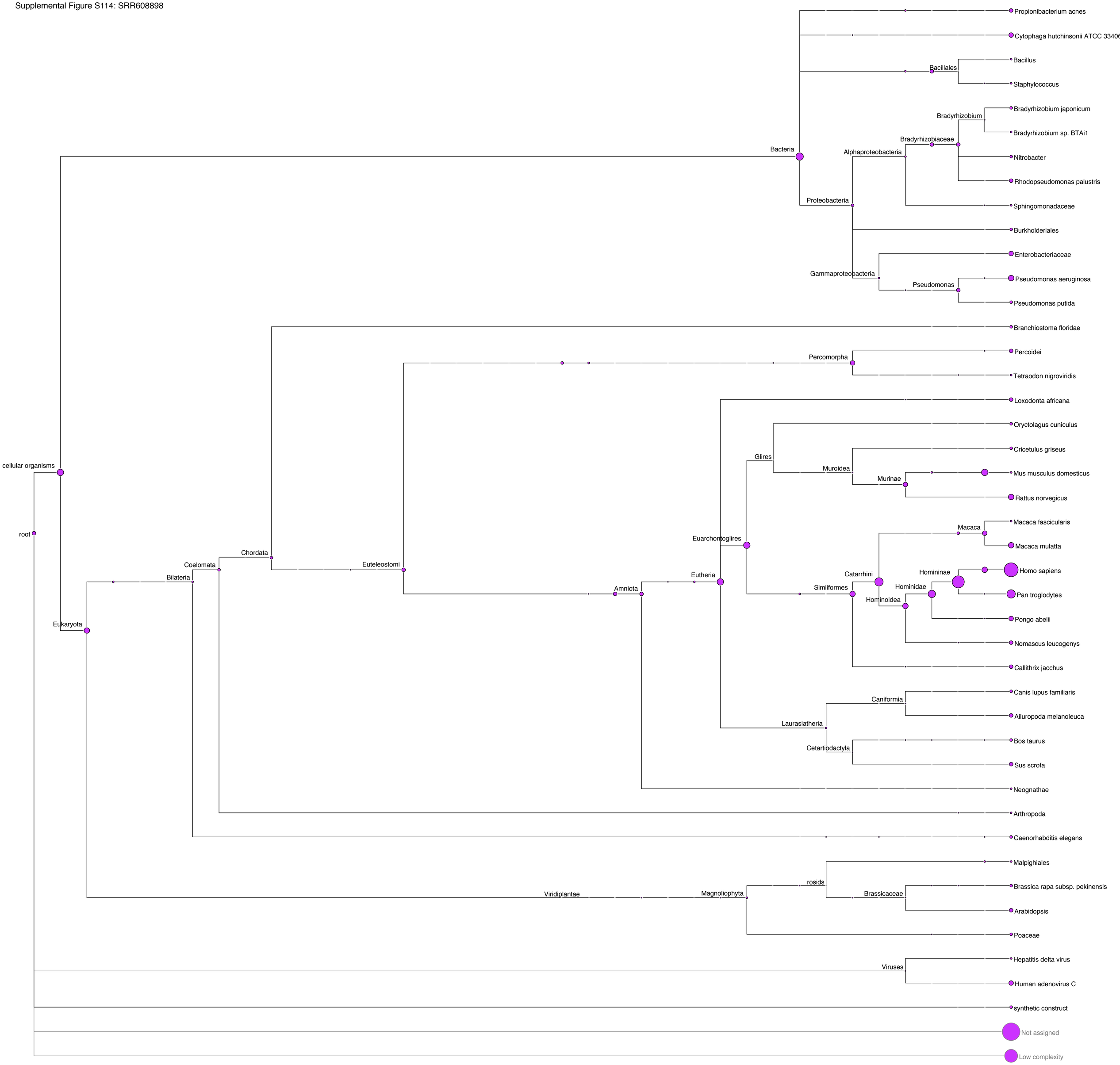
Supplemental Figure S112: SRR608896



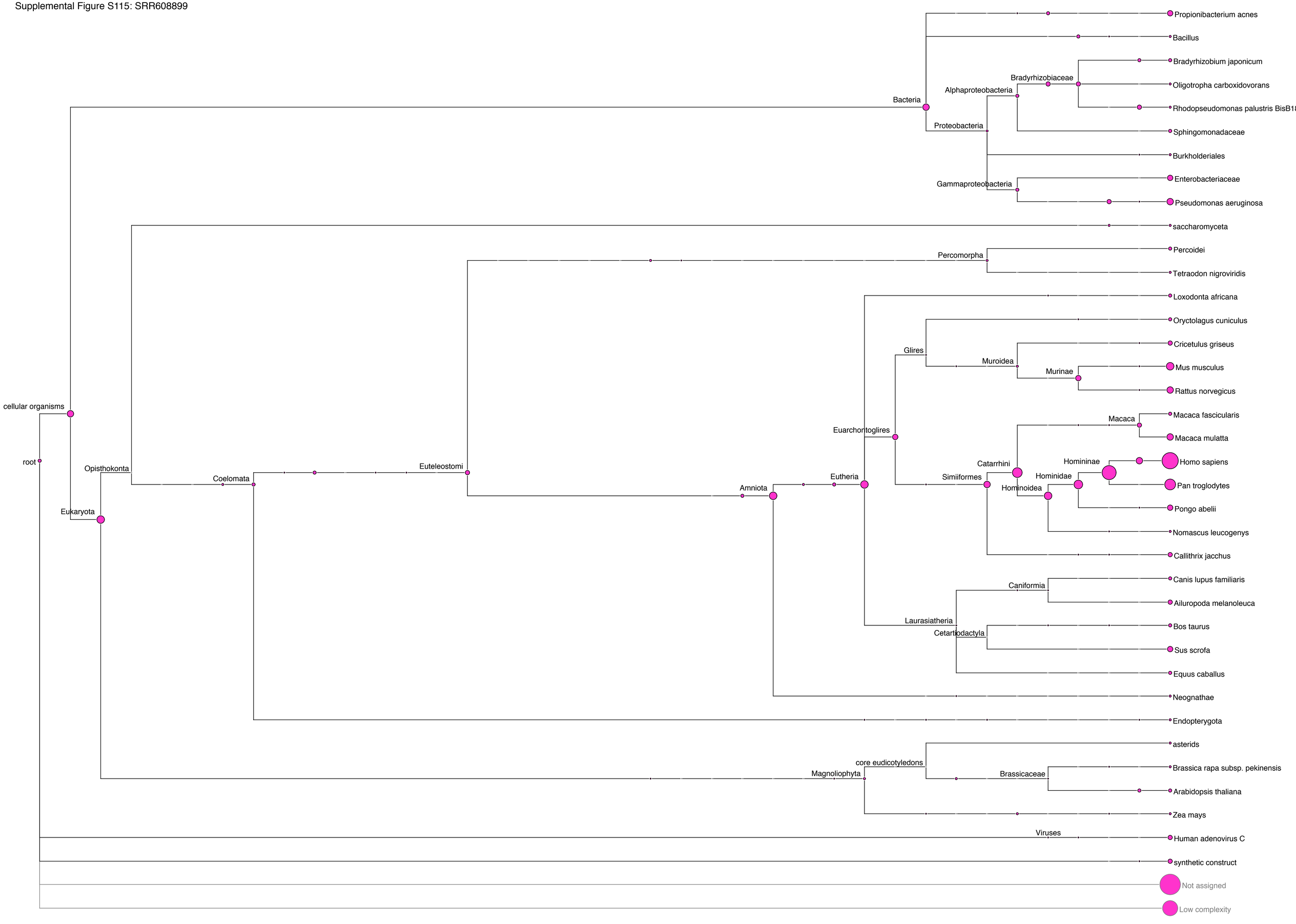
Supplemental Figure S113: SRR608897



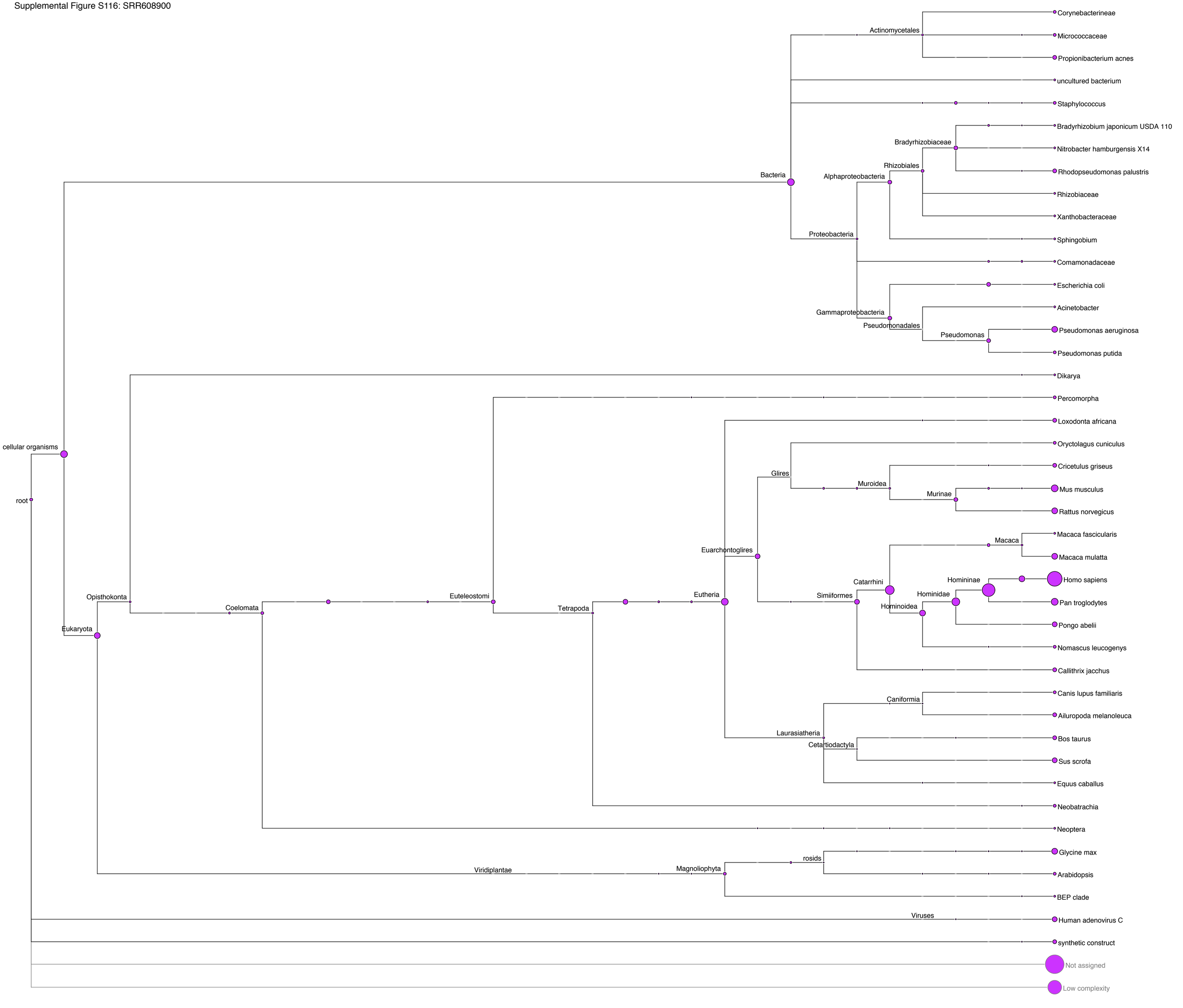
Supplemental Figure S114: SRR608898



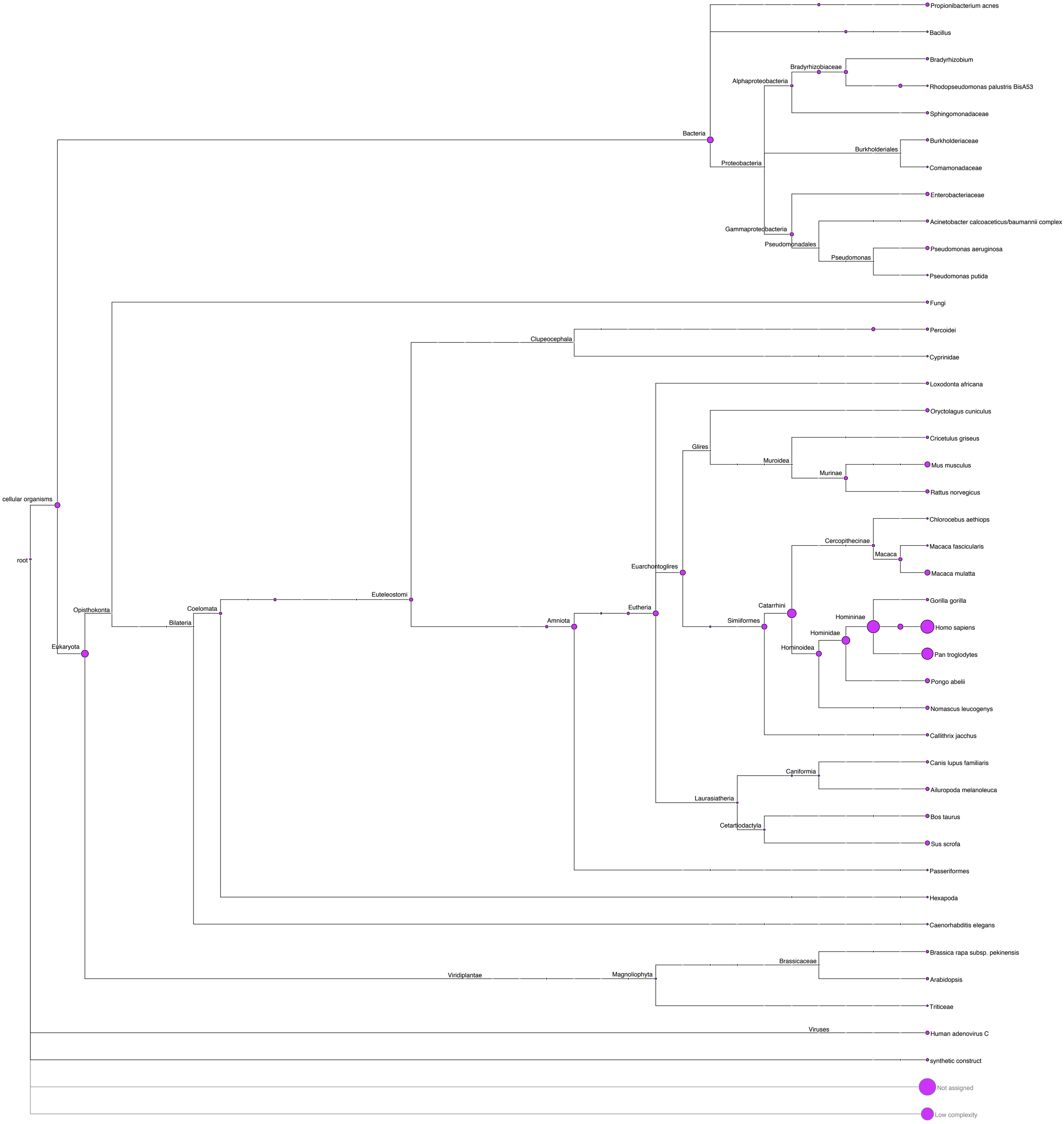
Supplemental Figure S115: SRR608899



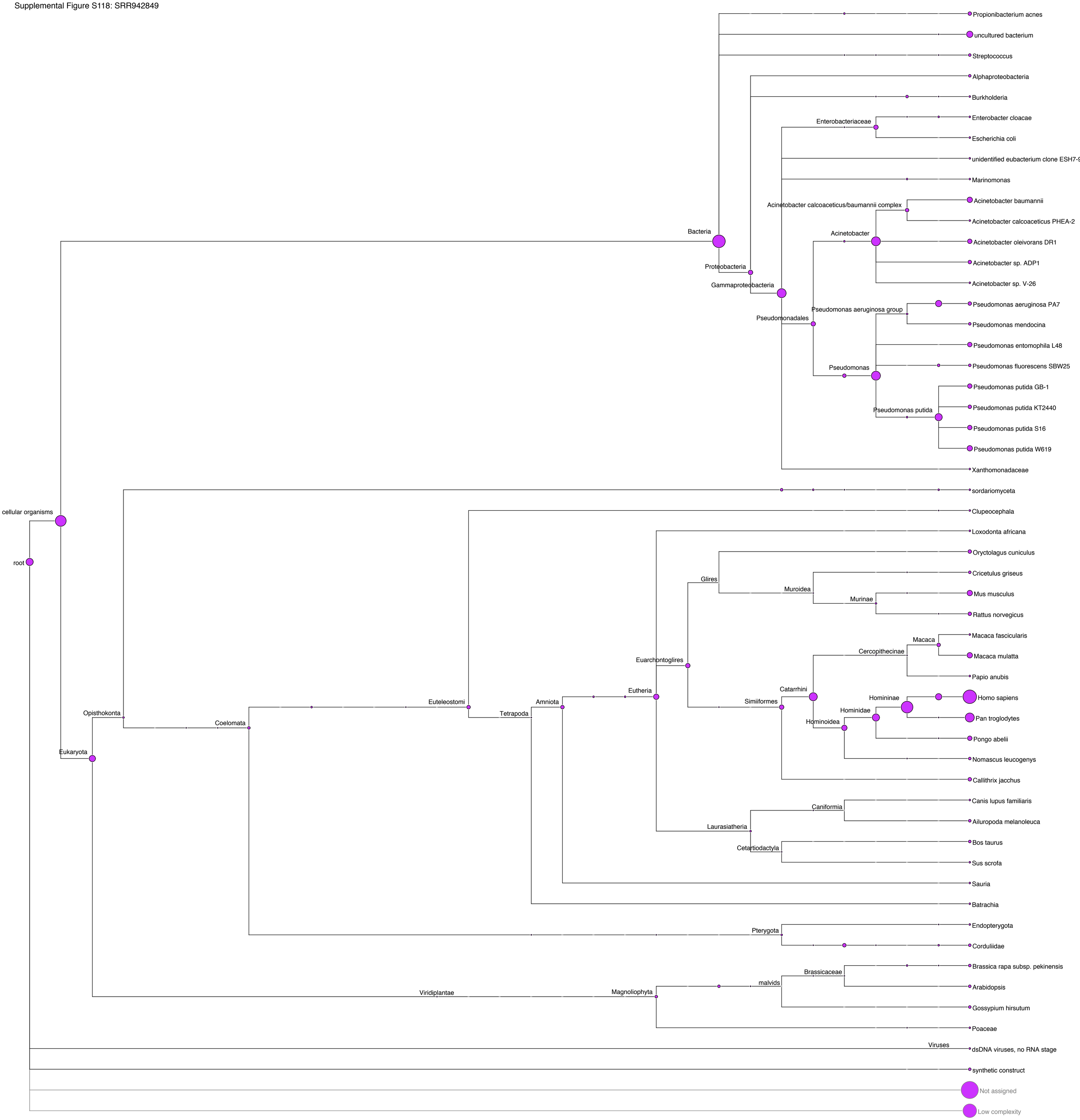
Supplemental Figure S116: SRR608900



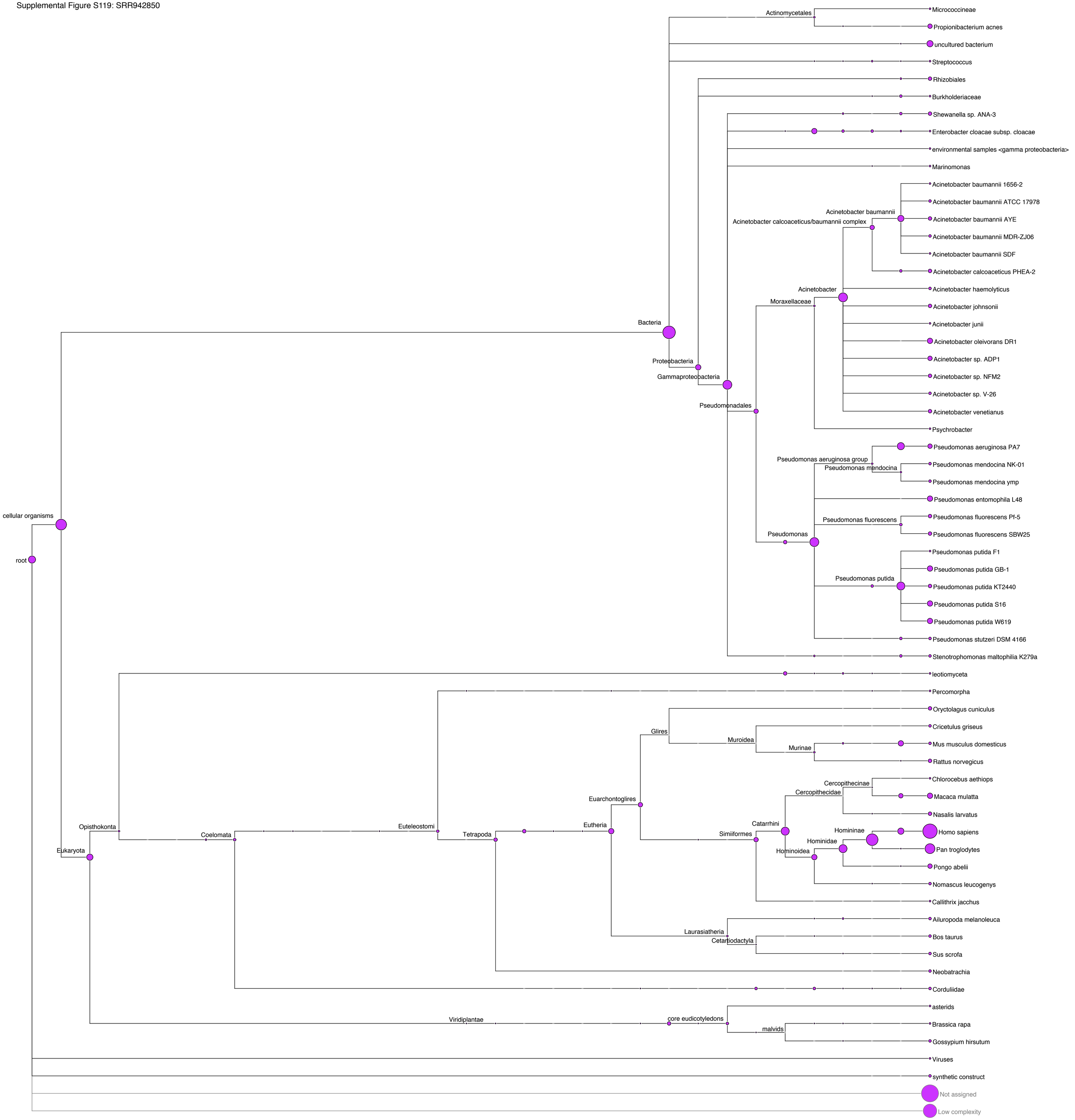
Supplemental Figure S117: SRR608901



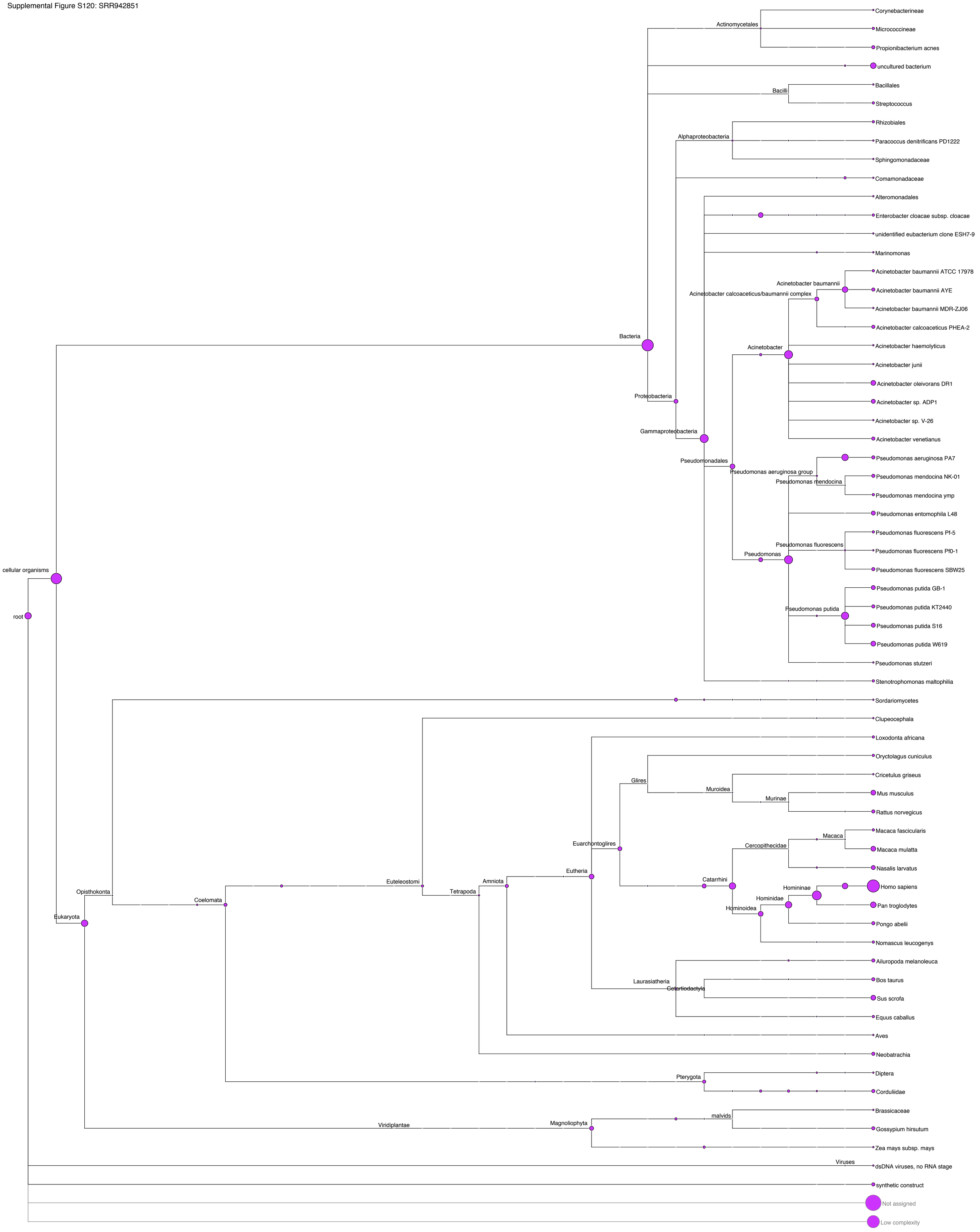
Supplemental Figure S118: SRR942849



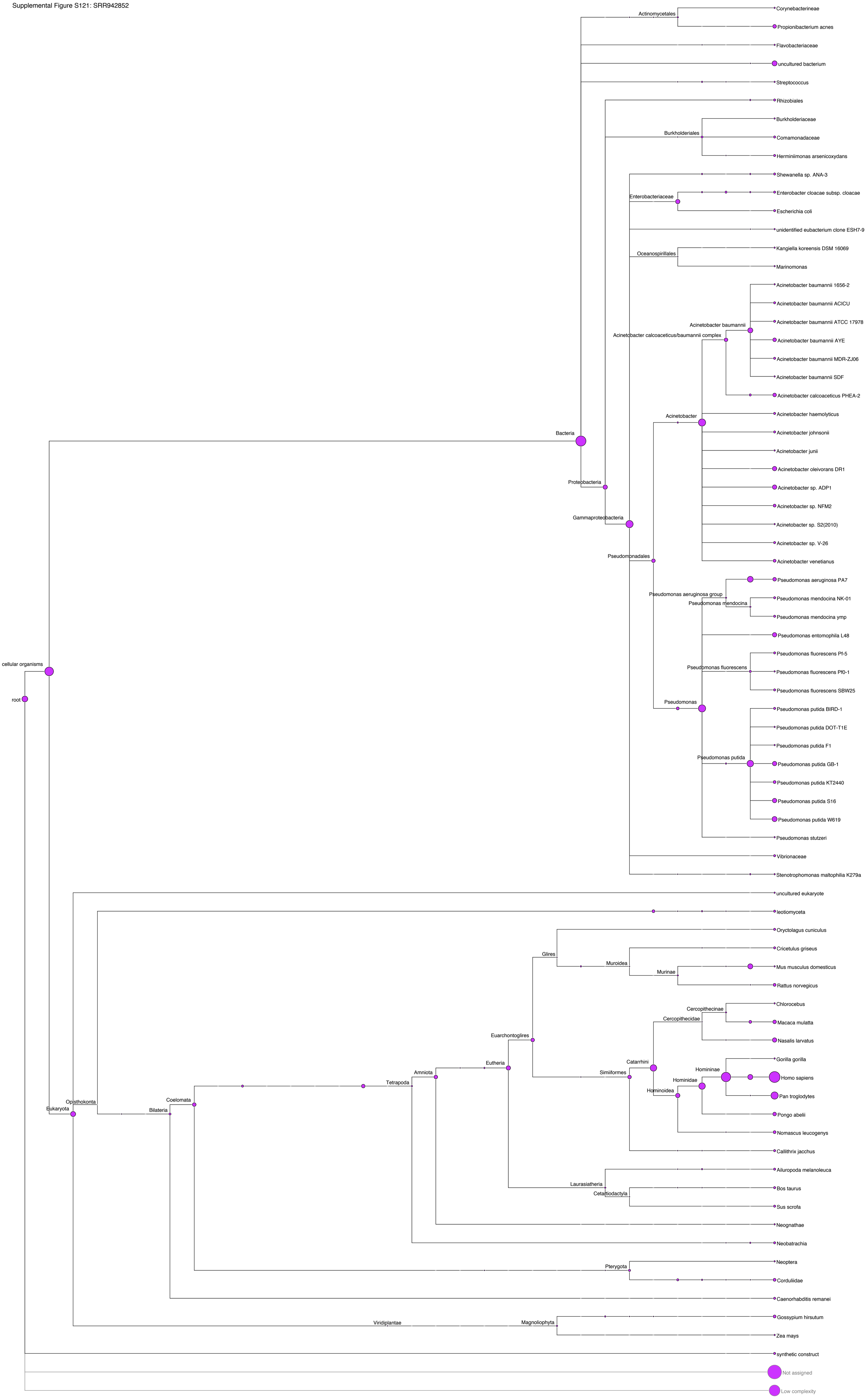
Supplemental Figure S119: SRR942850



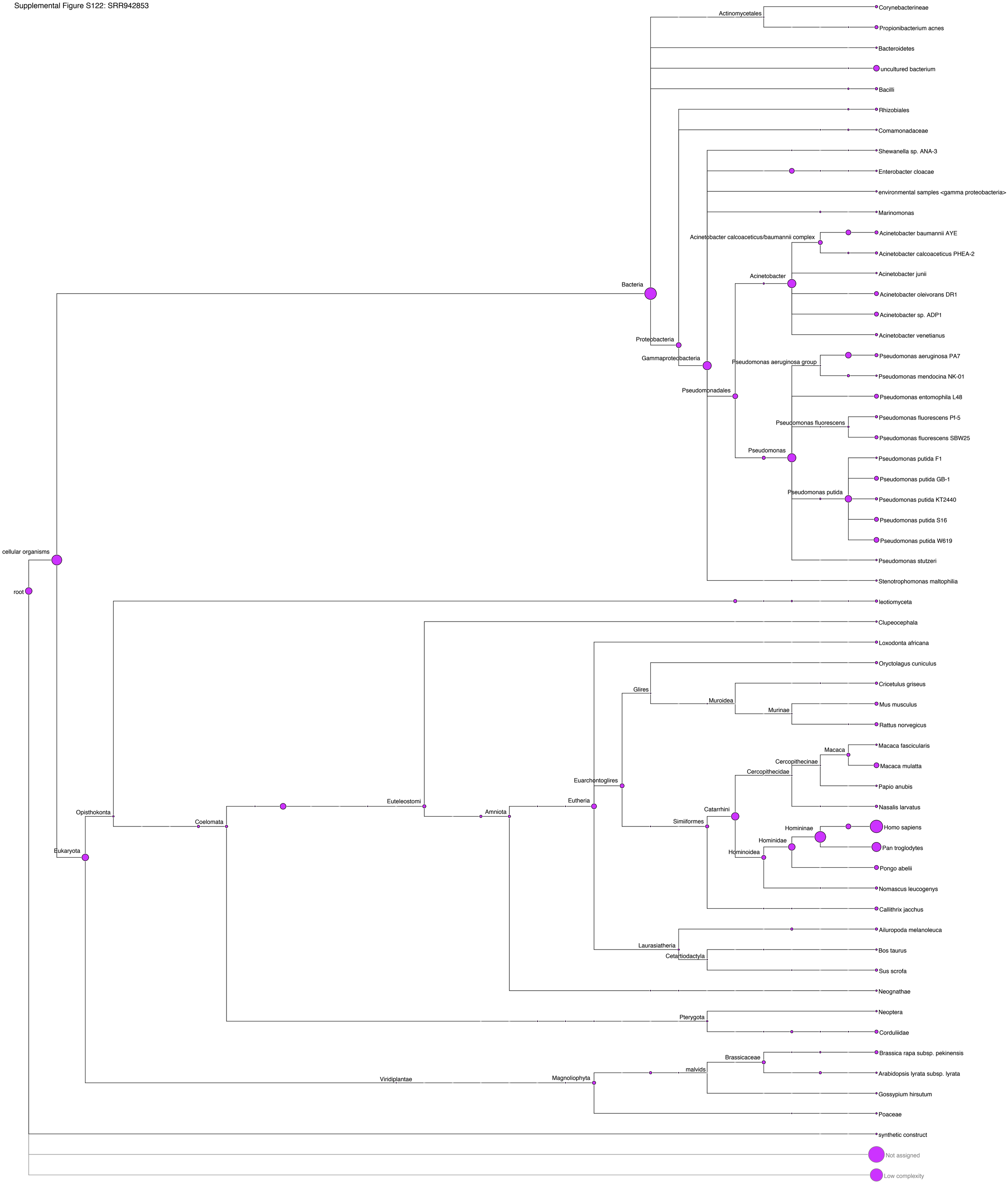
Supplemental Figure S120: SRR942851



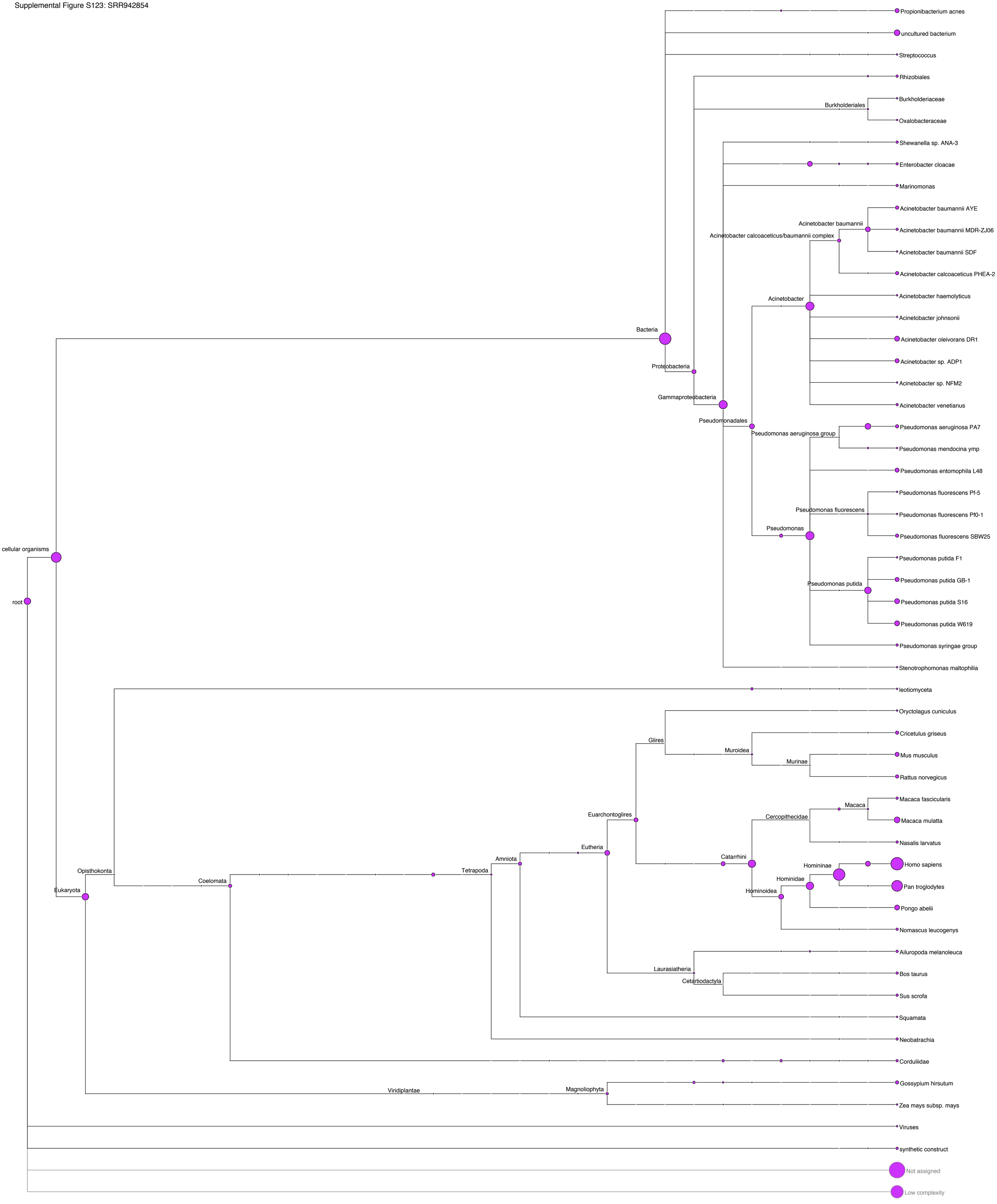
Supplemental Figure S121: SRR942852



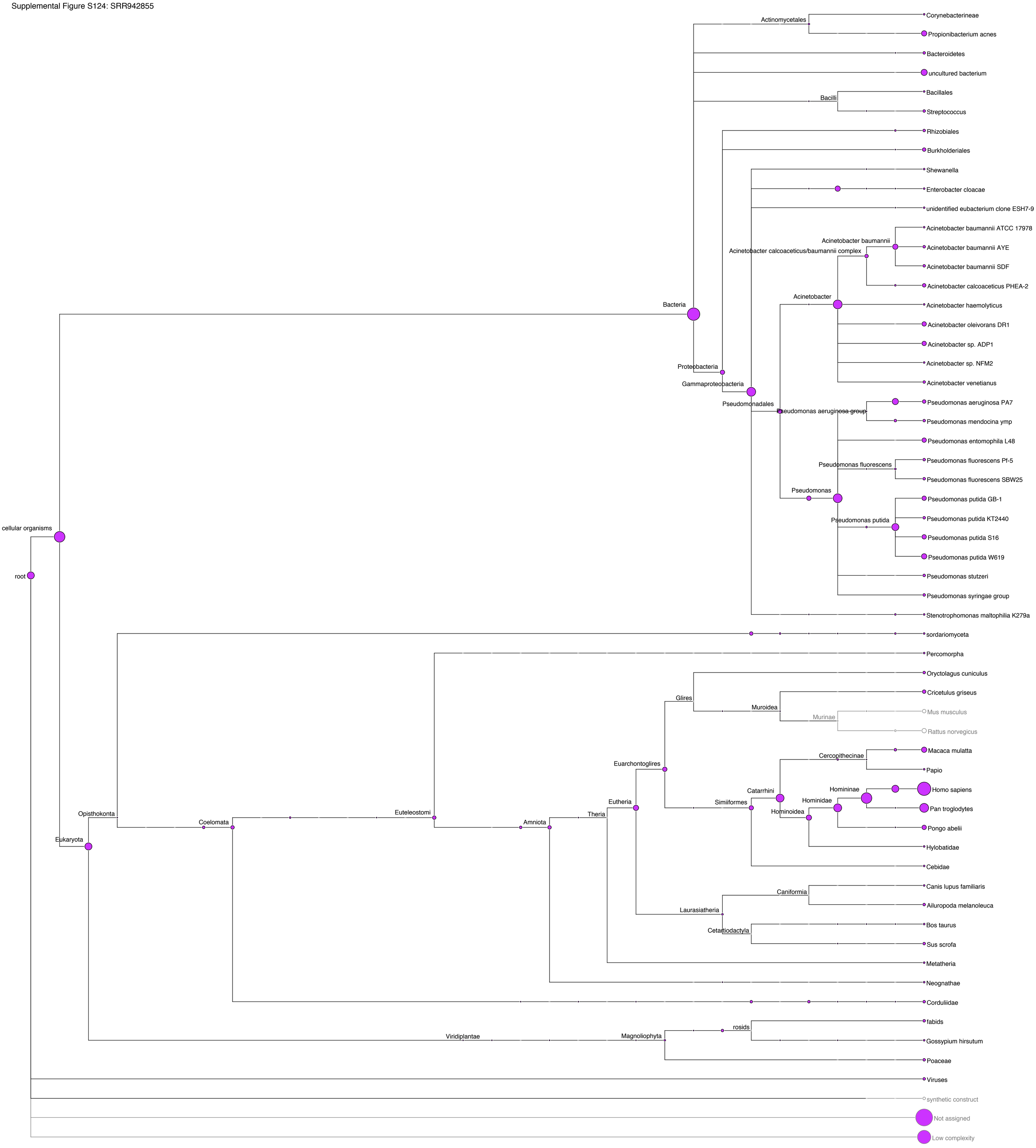
Supplemental Figure S122: SRR942853



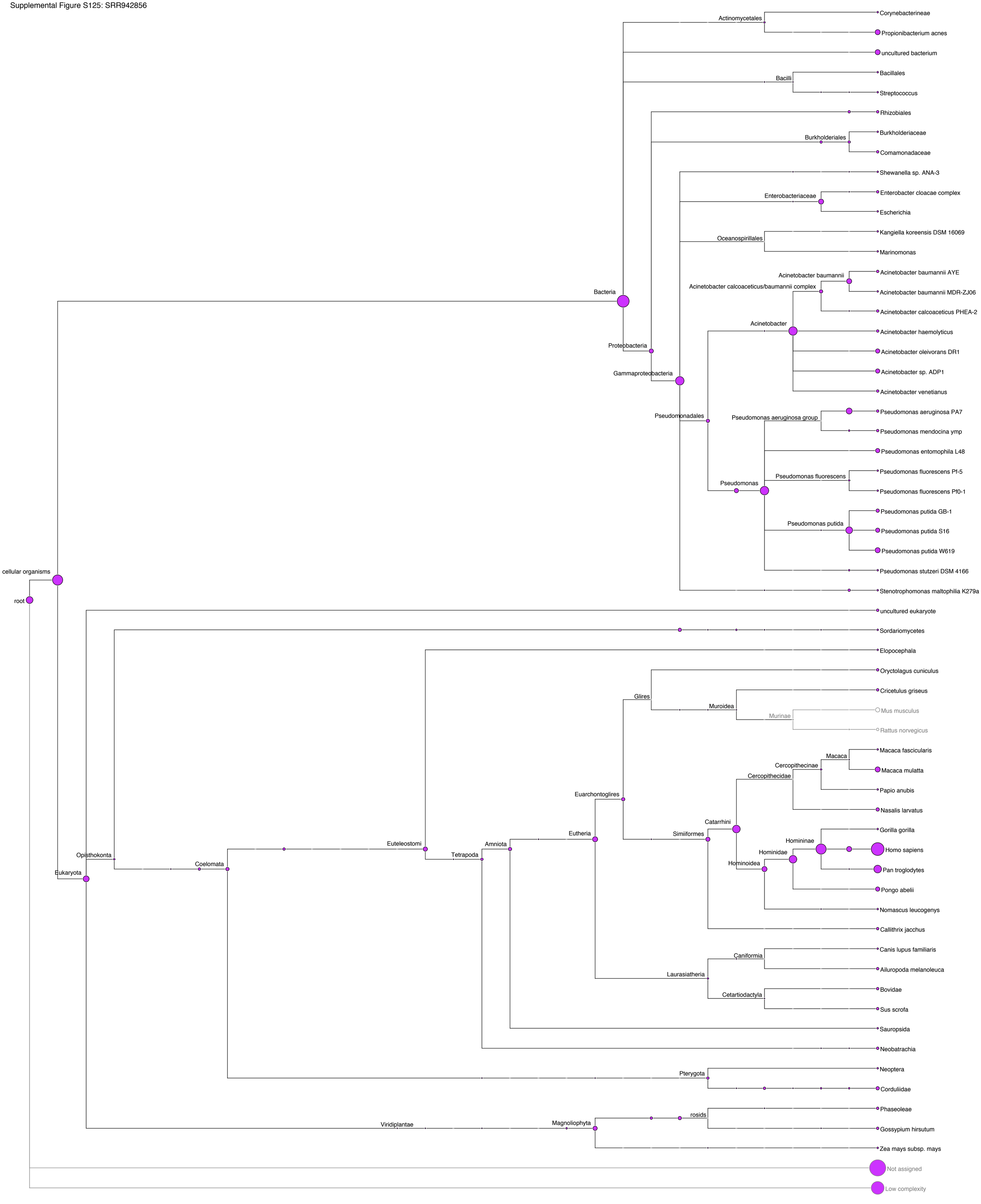
Supplemental Figure S123: SRR942854



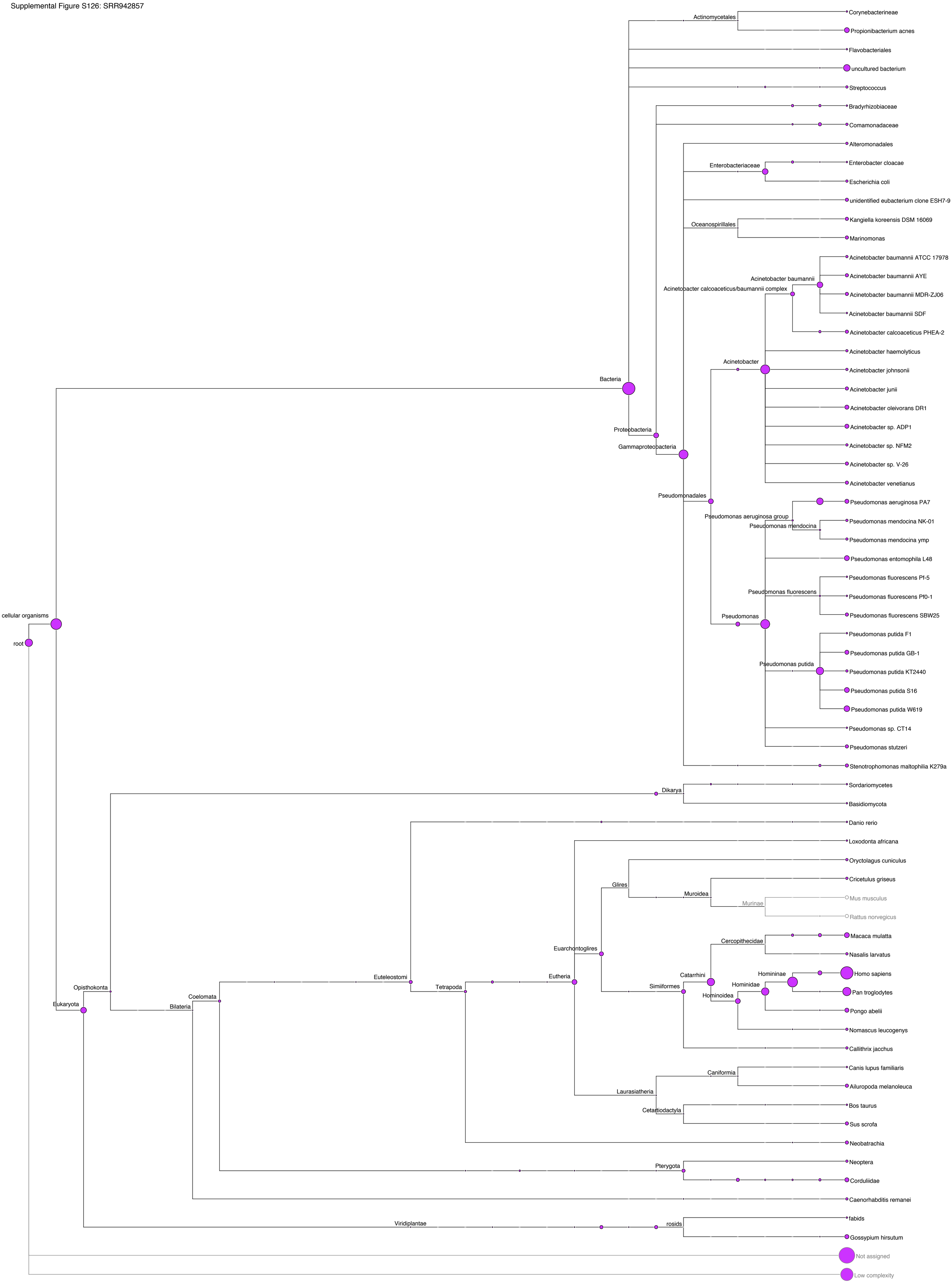
Supplemental Figure S124: SRR942855



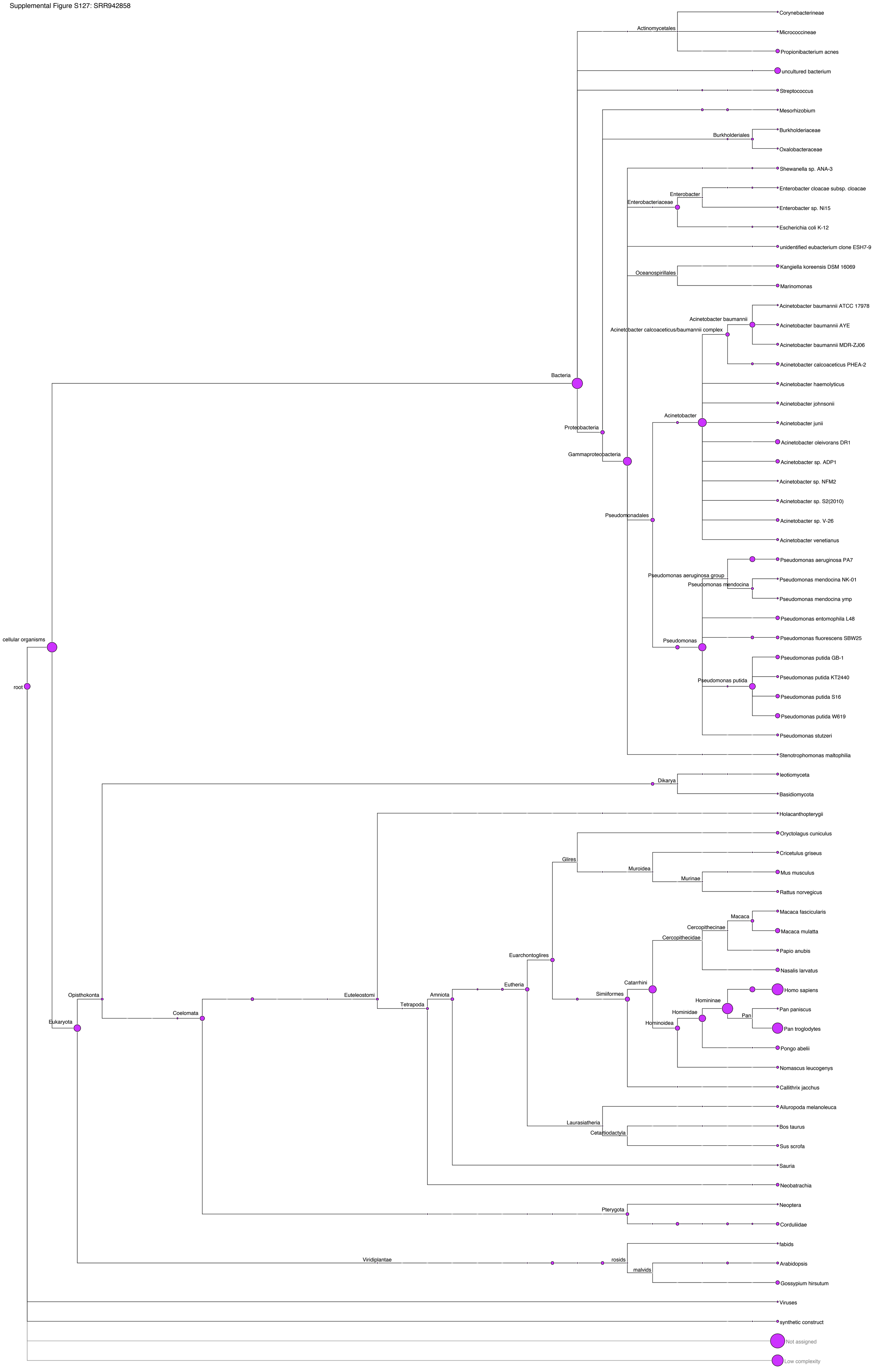
Supplemental Figure S125: SRR942856



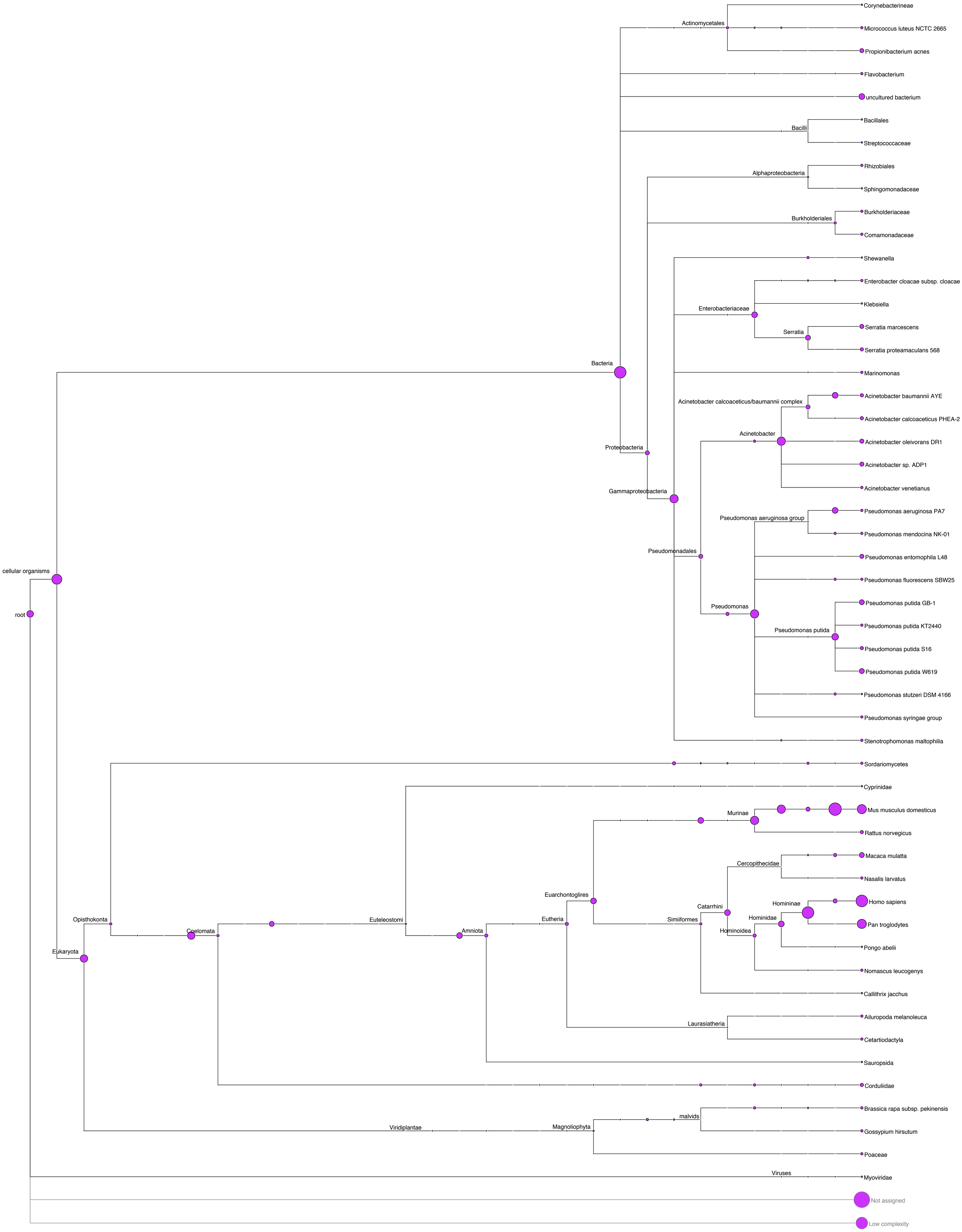
Supplemental Figure S126: SRR942857



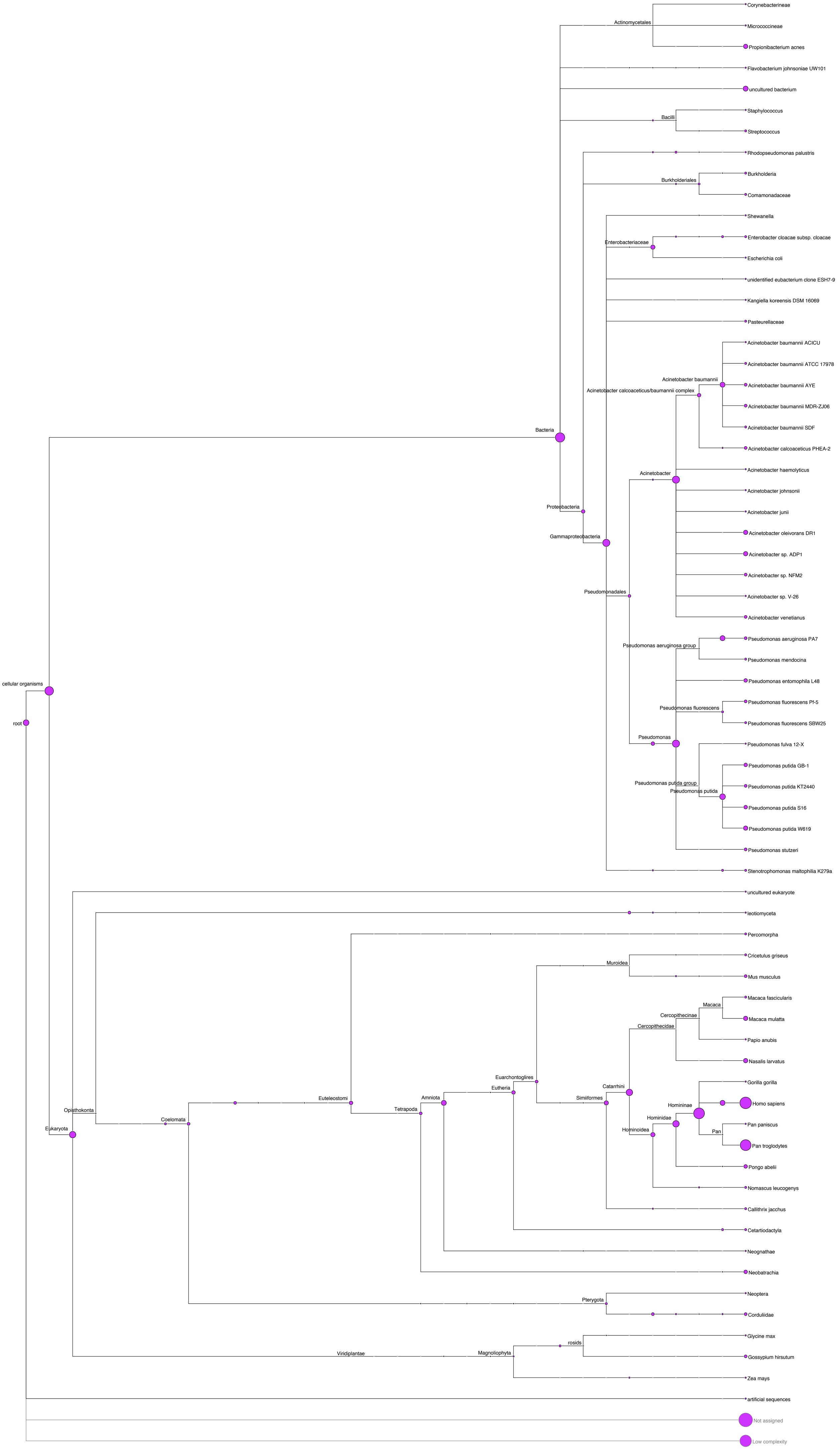
Supplemental Figure S127: SRR942858



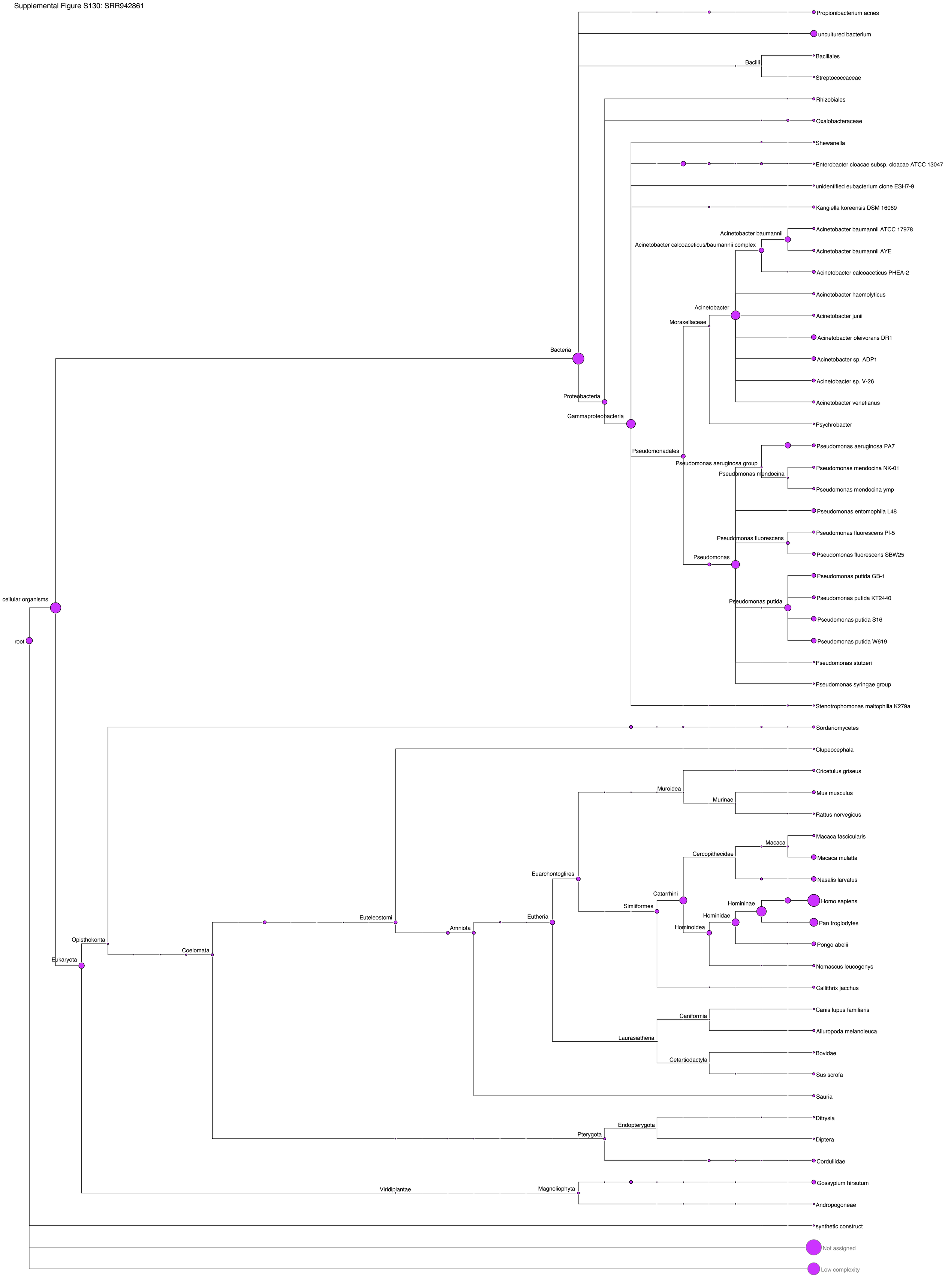
Supplemental Figure S128: SRR942859



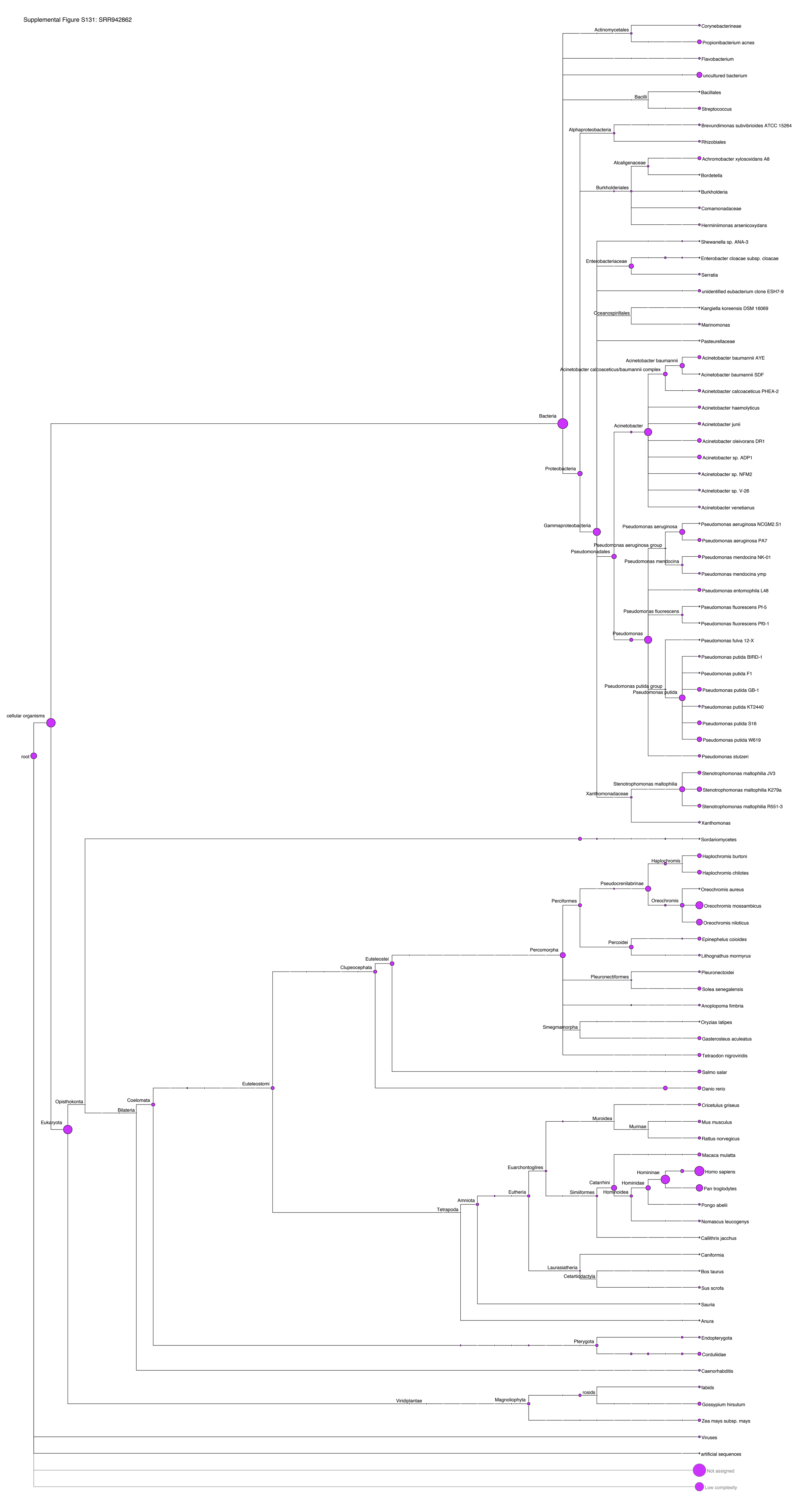
Supplemental Figure S129: SRR942860



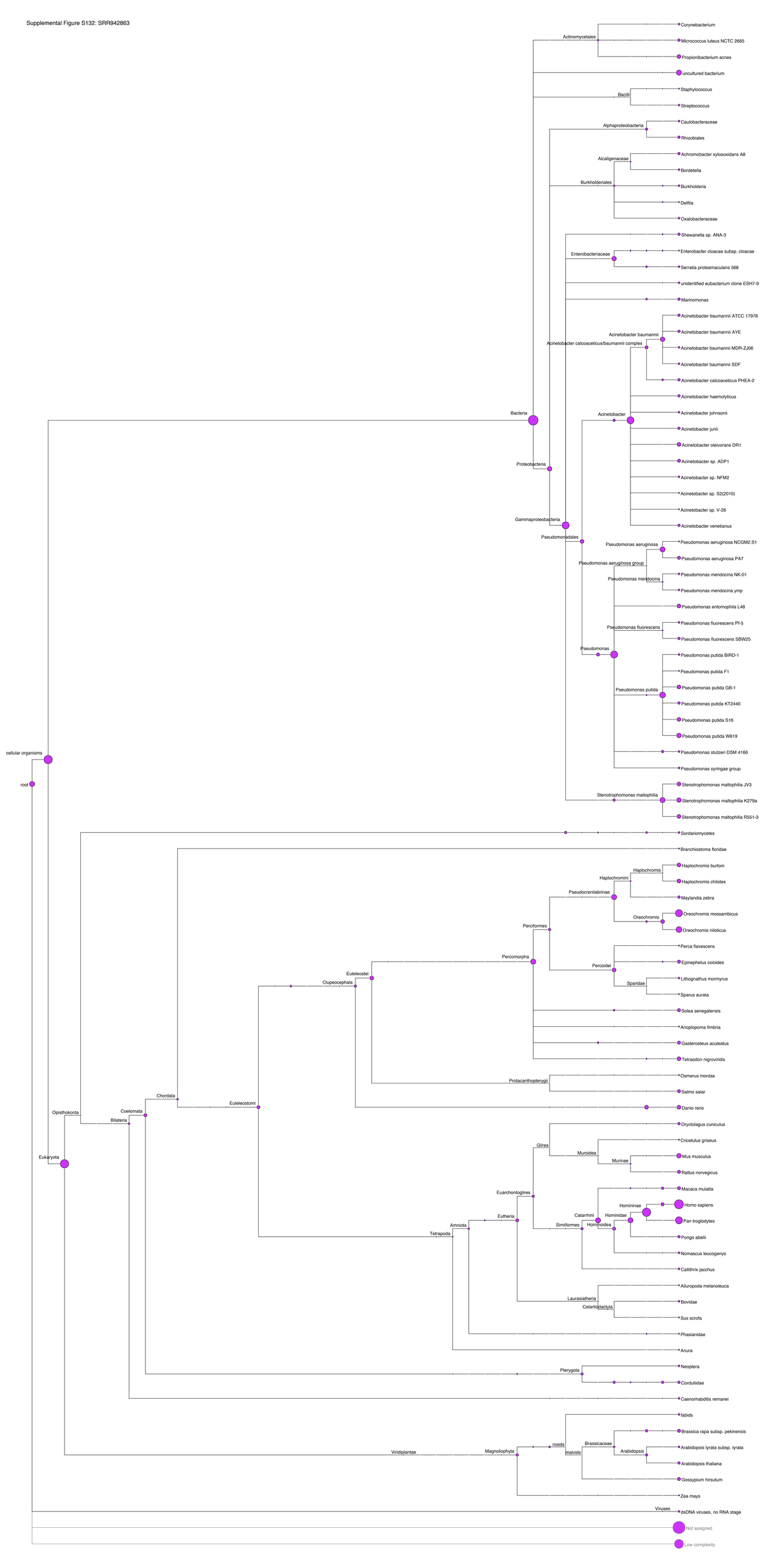
Supplemental Figure S130: SRR942861



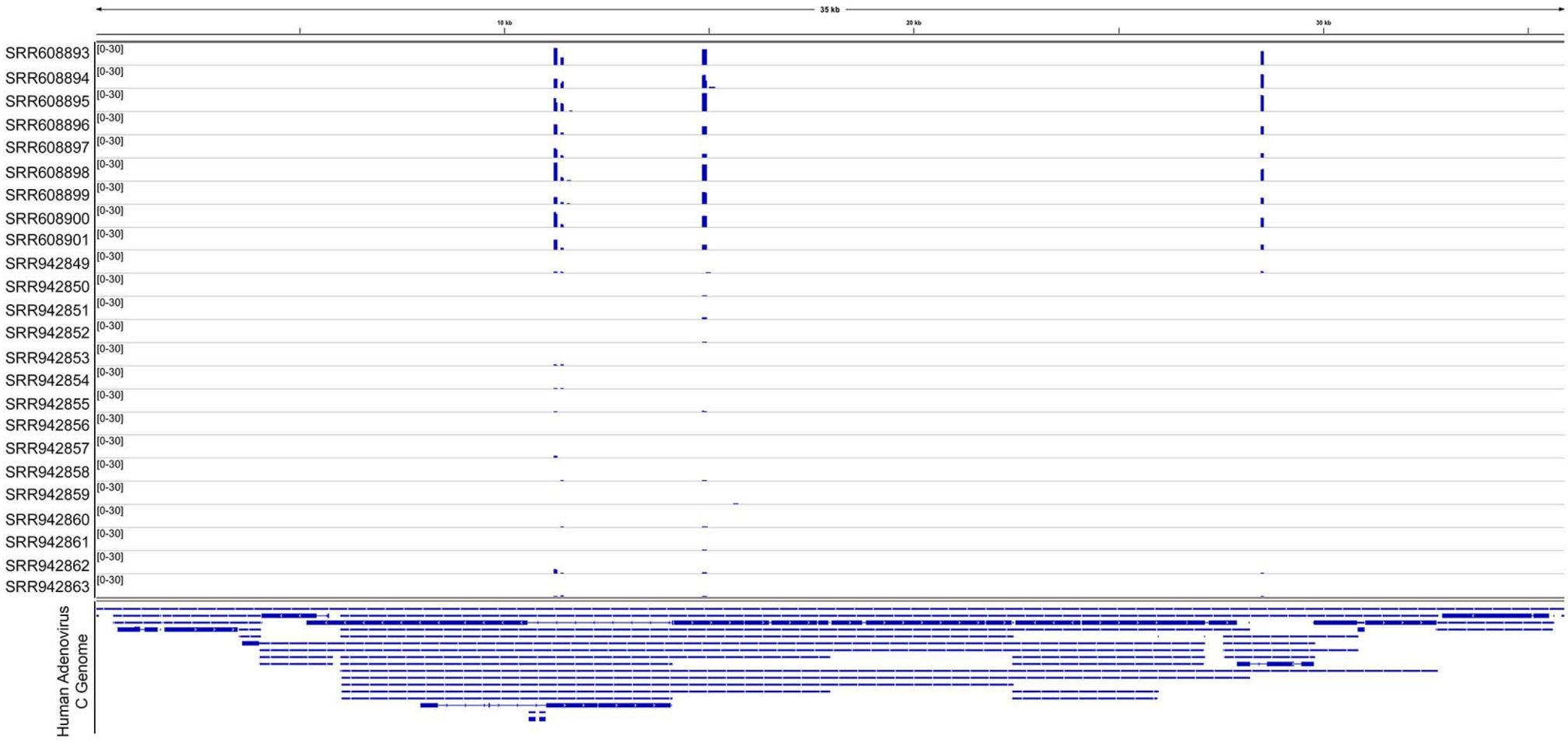
Supplemental Figure S131: SRR942862



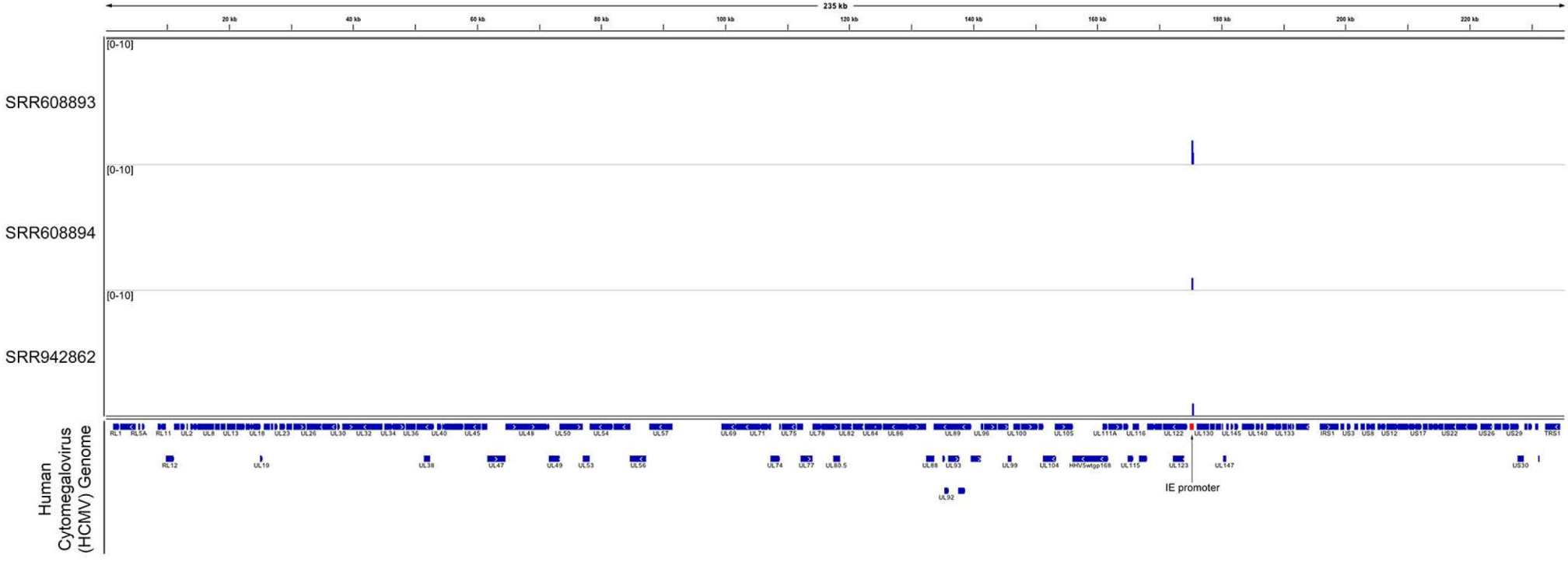
Supplemental Figure S132: SRR942863



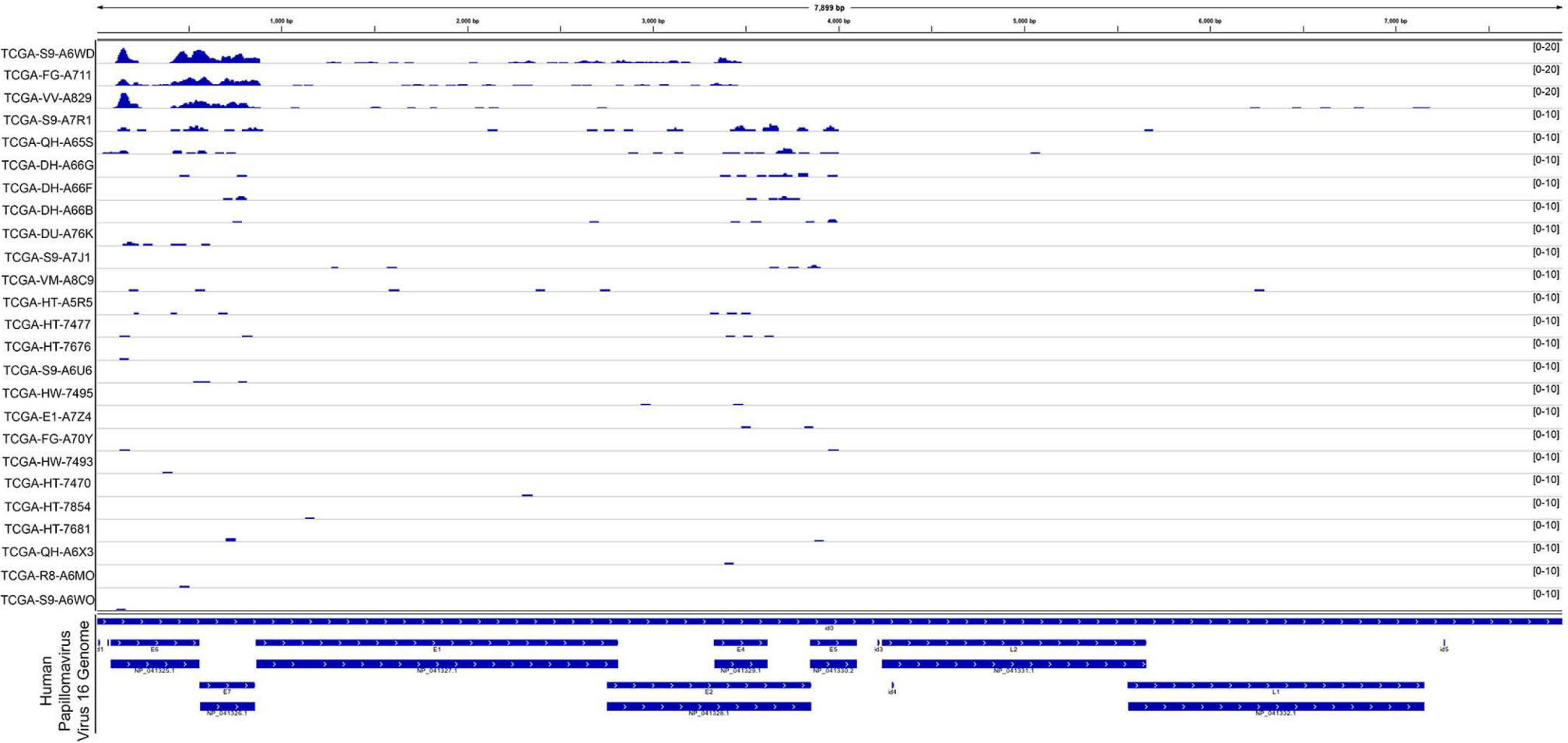
Supplemental Figure S133



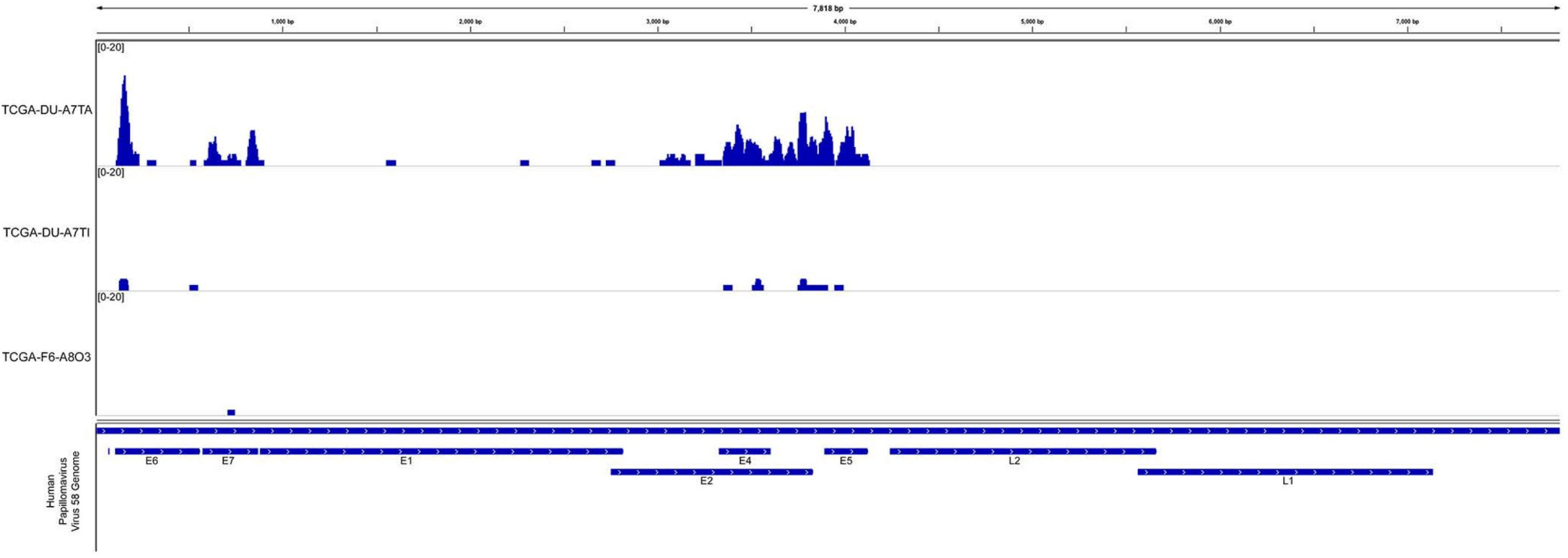
Supplemental Figure S134



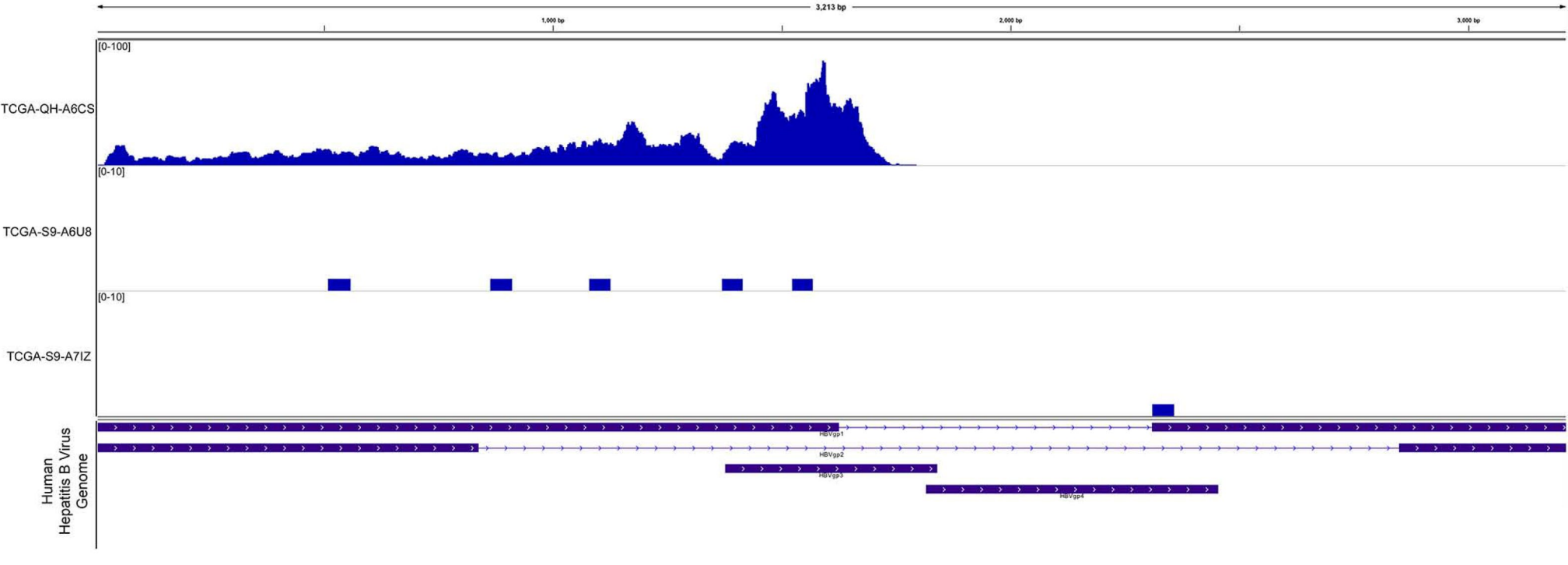
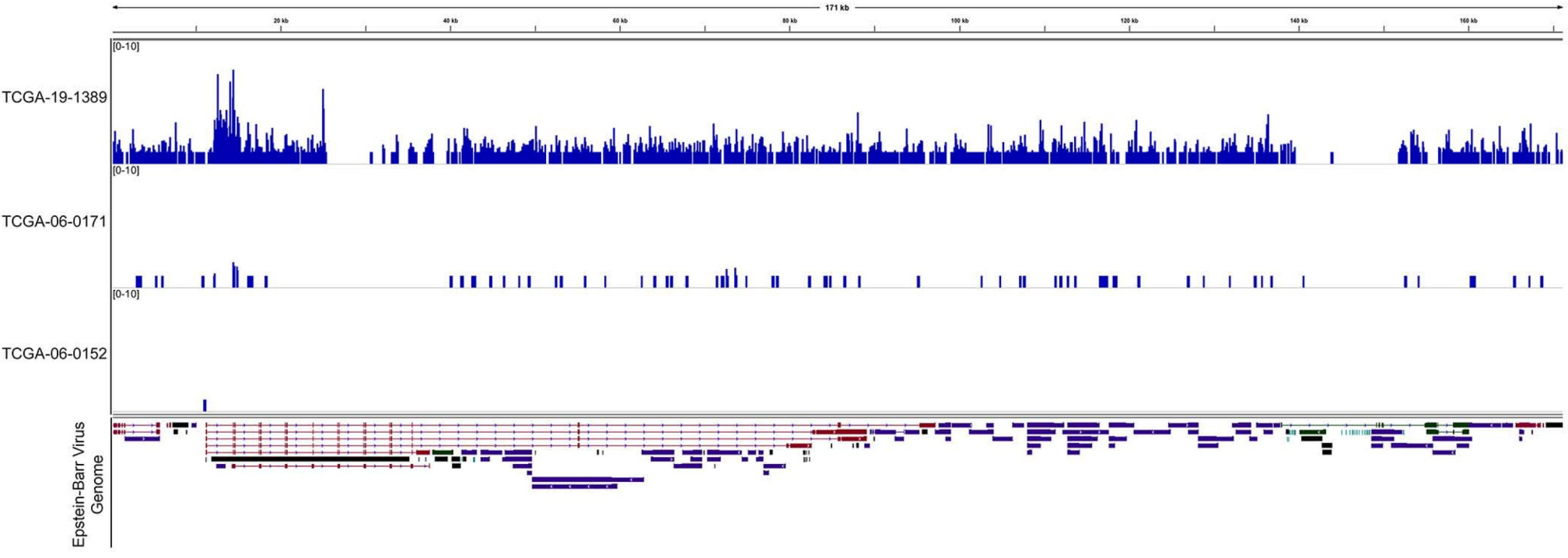
Supplemental Figure S135



Supplemental Figure S136



Supplemental Figure S137



Supplemental Figure S138