

A. Absolute Abundance of Lake Cadagno Bacterial Communites (Phylum) Mixolimnion A. Phylum 3 Acidobacteria **Firmicutes** Kiritimatiellaeota 5 Actinobacteria Omnitrophicaeota Armatimonadetes Bacteria_unclassified Patescibacteria **Bacteroidetes** Planctomycetes Chloroflexi Proteobacteria 9 Cyanobacteria Spirochaetes Epsilonbacteraeota Verrucomicrobia 11 Depth (m) Chemocline 13 15 15.5 Monimolimnion 17 19 0e+00 2e+05 4e+05 6e+05 8e+05 **Absolute Abundance (>1000 Cells/mL) B. Absolute Abundance of Proteobacteria (Genus)** C. Absolute Abundance of Bacteroidetes (Genus) C. Genus B. Genus alfV-A bacl-A env.OPS_17_ge Gammaproteobacteria_unclassified 3 bacl-B FTLpost3_ge Bdellovibrio Geobacter KD1-131_ge Betaproteobacteriales_unclassified Lamprocystis bacII-A betI-A Myxococcales_unclassified bacIII-A Lentimicrobiaceae_ge betI-B bacIII-B Paludibacter OM27_clade Peredibacter bacIV-B Runella betIV-A Bacteroidetes_BD2-2_ge SJA-28_ge Burkholderiaceae_unclassified Pnec Bacteroidetes_unclassified ST-12K33_ge Smithella Caulobacter Chromatium Thiocystis Bacteroidetes_vadinHA17_ge unclassified 11 Desulfatirhabdium uncultured Bacteroidia_unclassified Thiovirga WCHB1-32 unclassified BSV13 Desulfobulbaceae_ge Depth (m) Desulfobulbus uncultured Chlorobium Desulfocapsa **Emticicia** 13 Desulfomonile 15 15.5 17 19

4e+05

Absolute Abundance (>1000 Cells/mL)

6e+05

8e+05

0e+00

2e+05

4e+05

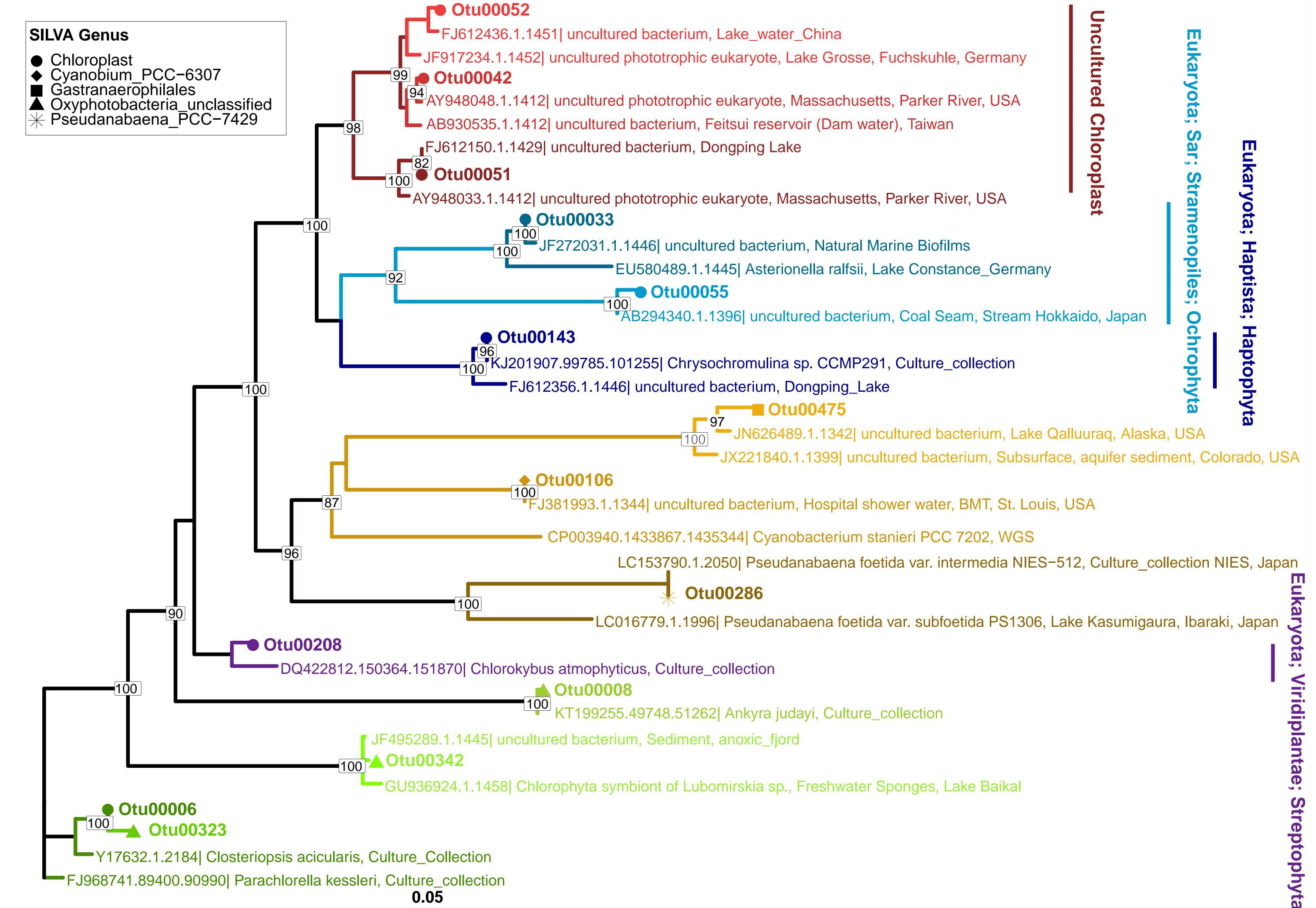
Absolute Abundance (>1000 Cells/mL)

6e+05

8e+05

0e+00

2e+05



Otu00323

Y17632.1.2184 Closteriopsis acicularis, Culture_Collection

FJ968741.89400.90990 Parachlorella kessleri, Culture_collection

0.05

