Bacteria-Actinobacteria-Actinobacteria-Streptosporangiales-Streptosporangiaceae-Nonomuraea_sp._KC333_WP_111183_0.084 Legend Bacteria-Proteobacteria-Gammaproteobacteria-Enterobacterales-Erwiniaceae-Pantoea_vagans_WP_147790162.1 Eukaryota-Apicomplexa-Aconoidasida-Piroplasmida-Theileriidae-Theileria orientalis XP 009691426.1 ukaryota-Chordata-Mammalia-Perissodactyla-Equidae-Equus_asinus_XP_014690625.1 Eukaryota-Mollusca-Gastropoda-NA-Lottiidae-Lottia_gigantea_jgi137775 BS: ultrafast bootstrap support — Eukaryota-Arthropoda-Insecta-Hymenoptera-Cephidae-Cephus cinctus XP 015609694.1 Eukaryota-Nematoda-Chromadorea-Rhabditida-Onchocercidae-Loa loa XP_020307504.1 Organelle targeting
peptides

Mitochondrial
Chromatophore (≥100aa) Eukaryota-Nematoda-Chromadorea-Rhabditida-Rhabditidae-Caenorhabditis_elegans_NP_001040752.2

Eukaryota-Nematoda-Chromadorea-Rhabditida-Rhabditidae-Caenorhabditis_remanei_XP_003108843.1 Eukaryota-Priapulida-Priapulimorpha-Priapulimorphida-Priapulidae-Priapulus_caudatus_XP_014673024.1 Chromatophore (<100aa)</p> Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Lotharella_globosa_MMETSP0111_c15135_g2_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Partenskyella_glossopodia_MMETSP1318_c4066_g1_i1.p1 ———— MSTRG.16814.2.p1 Eukaryota-Retaria-NA-NA-NA-Ammonia_sp_MMETSP1384_c19984_g2_i1.p1 -Phaeocystales-Phaeocystaceae-Phaeocystis_cordata_MMETSP1465_c6077_g1_i1.p2 Eukaryota-Cryptophyta-NA-Cryptomonadales-NA-Hanusia_phi_MMETSP1048_c5098_g1_i1.p1 — Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Amoebophrya_sp_MMETSP0795_c2738_g1_i1.p1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Mayorella_sp_MMETSP0417_c3250_g1_i1.p1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Stygamoeba_regulata_MMETSP0447_c36045_g1_i1.p1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Trichosphaerium_sp_MMETSP0405_c9057_g1_i1.p1 Eukaryota-Entamoebidae-NA-NA-Entamoeba_invadens_XP_004261648.1 Eukaryota-Entamoebidae-NA-NA-NA-Entamoeba_nuttalli_XP_008860217.1 — Eukaryota-Cercozoa-NA-Euglyphida-Paulinellidae-Paulinella_chromatophora_scaffold2383-size2508_m.27282 ----- MSTRG.9371.1.p1 Eukaryota-Haptophyta-NA-Isochrysidales-Noelaerhabdaceae-Emiliania_huxleyi_MMETSP0995_c9359_g1_i1.p1 ukaryota-Haptophyta-NA-Prymnesiales-NA-Isochrysis sp MMETSP1388 c1788 g1 i1.p1 yota-Haptophyta-NA-Prymnesiales-NA-Gephyrocapsa_oceanica_MMETSP1364_c5275_g1_i1.p1 Feukaryota-Haptophyta-NA-Prymnesiales-NA-Gephyrocapsa oceanica MMETSP1366 c7504 g1 i1.p1 Eukaryota-Haptophyta-NA-Prymnesiales-NA-Chrysochromulina_polylepis_MMETSP0143_c42361_g1_i1.p1 Eukaryota-Apusomonadidae-NA-NA-NA-Thecamonas_trahens_XP_013758574.1 ukaryota-Chromeraceae-NA-NA-NA-Vitrella_brassicaformis_MMETSP1451_c14462_g1_i1.p1 aryota-Ciliophora-Oligohymenophorea-Peniculida-Parameciidae-Paramecium_tetraurelia_XP_001456308.1 Eukaryota-Retaria-NA-NA-NA-Sorites_sp_MMETSP0191_c27907_g1_i1.p1 ta-Ciliophora-NA-Unranked-NA-Blepharisma_japonicum_MMETSP1395_c12445_g1_i1.p1 —— Eukaryota-Ciliophora-NA-Unranked-NA-Climacostomum_virens_MMETSP1397_c7339_g1_i1.p1 Eukaryota-Ciliophora-NA-Unranked-NA-Climacostomum_virens_MMETSP1397_c7720_g1_i1.p1