Bacteria-Actinobacteria-Actinobacteria-Micrococcales-Microbacteriaceae-Hymenobacter_sp._Fur1_WP_144848362.1 Eacteria-Bacteroidetes-Cytophagia-Cytophagales-Hymenobacteraceae-Hymenobacter_gummosus_WP_126694215.1 —— Bacteria-Bacteroidetes-Cytophagia-Cytophagales-Hymenobacteraceae-NA_WP_072144860.1 Bacteria-NA-NA-NA-NA-bacterium_336_3_WP_054040425.1 ————— Bacteria-Proteobacteria-Alphaproteobacteria-Rhodospirillales-Rhodospirillaceae-Inquilinus_sp._KBS0705_WP_138807621.1 Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Leptospira_kobayashii_WP_109020685.1 Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-NA_WP_100720654.1 Paulinella Archaea Bacteria Eukaryota Eukaryota-Stramenopiles-NA-NA-Odontella_aurita_MMETSP0015_c4312_g1_i1.p1 Viruses Other/Misc BS: ultrafast bootstrap suppor Chromatophore (≥100aa) Viruses-Ascoviridae-NA-NA-NA-Trichoplusia_ni_ascovirus_2c_YP_803312.1 ————— Viruses-Baculoviridae-NA-NA-NA-Spodoptera_litura_nucleopolyhedrovirus_NP_258331.1 ———— Viruses-Baculoviridae-NA-NA-NA-Lymantria_xylina_nucleopolyhedrovirus_YP_003517877.1 Viruses-Hytrosaviridae-NA-NA-NA-Musca_hytrovirus_YP_001883390.1 Viruses-Poxviridae-NA-NA-NA-Cowpox_virus_NP_619839.1 Viruses-Poxviridae-NA-NA-NA-Yokapox_virus_YP_004821373.1 — Viruses-Alloherpesviridae-NA-NA-NA-Anguillid_herpesvirus_1_YP_003358235.1 Viruses-Alloherpesviridae-NA-NA-NA-Cyprinid_herpesvirus_3_YP_001096062.1 — Viruses-Mimiviridae-NA-NA-NA-Moumouvirus_YP_007354487.1 — Viruses-Nudiviridae-NA-NA-NA-Heliothis_zea_nudivirus_YP_004956813.1 ngamoebia-Longamoebia-Acanthamoebidae-Acanthamoeba_castellanii_XP_004339812.1 — Eukaryota-Palpitomonas-NA-NA-NA-Palpitomonas_bilix_MMETSP0780_c5289_g1_i1.p1 Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Amphidinium_carterae_MMETSP0258_c13855_g1_i1.p1

Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Symbiodinium_sp_MMETSP1374_c27152_g1_i1.p1 Eukaryota-Apicomplexa-NA-Unranked-NA-Alveolata_sp_MMETSP0288_c4422_g2_i1.p1 —— Paulinella_ovalis_nuclear_SingleCell___SAG1_utg7180000020600.g9443.t1 — Viruses-Mimiviridae-NA-NA-NA-Cafeteria_roenbergensis_virus_YP_003970085.1 Paulinella_ovalis_nuclear_SingleCell___SAG1_utg7180000007149.g3367.t1 Paulinella_chromatophora_CCAC0185_nuclear___scaffold13870-m89037 aulinella_chromatophora_CCAC0185_nuclear___scaffold6407-m53968 Paulinella_chromatophora_CCAC0185_nuclear___scaffold34413-m148939 —— Paulinella_chromatophora_CCAC0185_nuclear___scaffold11463-m79073 karyota-Chlorophyta-Palmophyllophyceae-Prasinococcales-Prasinococcaceae-Prasinoderma_coloniale_MMETSP0806_c2367_g1_i1.p2 — Bacteria-Chlamydiae-Chlamydiia-Parachlamydiales-Parachlamydiaceae-Candidatus_Protochlamydia_amoebophila_WP_039359781.1 cteria-Proteobacteria-Gammaproteobacteria-Alteromonadales-Alteromonadaceae-Glaciecola_sp._THG3.7_WP_124747153.1 — Bacteria-Cyanobacteria-NA-Nostocales-Nostocaceae-Nostoc_linckia_WP_099073318.1 —— Viruses-Phycodnaviridae-NA-NA-NA-Emiliania_huxleyi_virus_86_YP_293780.1 Viruses-Pithoviridae-NA-NA-NA-Cedratvirus_A11_YP_009329082.1 Viruses-Pithoviridae-NA-NA-NA-Pithovirus_sibericum_YP_009001342.1 — Viruses-Iridoviridae-NA-NA-NA-Infectious_spleen_and_kidney_necrosis_virus_NP_612246.1 Viruses-NA-NA-NA-Bufonid_herpesvirus_1_YP_009552879.1 Viruses-Nimaviridae-NA-NA-NA-White_spot_syndrome_virus_YP_009220535.1 Viruses-Asfarviridae-NA-NA-NA-African_swine_fever_virus_NP_042738.1 — Viruses-Marseilleviridae-NA-NA-NA-Lausannevirus_YP_004347240.1 Viruses-Marseilleviridae-NA-NA-NA-Melbournevirus_YP_009094740.1 Viruses-Herpesviridae-NA-NA-NA-Columbid_alphaherpesvirus_1_YP_009046538.1 Viruses-Herpesviridae-NA-NA-NA-Gallid_alphaherpesvirus_2_YP_001033969.1 — Viruses-Malacoherpesviridae-NA-NA-NA-Haliotid_herpesvirus_1_YP_006908681.1 Viruses-Malacoherpesviridae-NA-NA-NA-Ostreid_herpesvirus_1_YP_024565.1 — Viruses-Herelleviridae-NA-NA-Bacillus_virus_Camphawk_YP_008770002.1 Viruses-Myoviridae-NA-NA-Bacillus_phage_0305phi836_YP_001429715.1 — Viruses-Herelleviridae-NA-NA-NA-Listeria_virus_A511_YP_001468505.1 —— Viruses-Podoviridae-NA-NA-NA-Alteromonas_phage_vB_AmaP_AD45P1_YP_008126085.1 — Viruses-Podoviridae-NA-NA-NA-Podovirus_Lau218_YP_009042163.1 — Viruses-Siphoviridae-NA-NA-Caulobacter_virus_Magneto_YP_006988790.1 — Bacteria-Acidobacteria-Acidobacteriia-Bryobacterales-Bryobacteraceae-Bryobacter_aggregatus_WP_031496451.1 — Bacteria-Actinobacteria-Actinobacteria-Streptosporangiales-Thermomonosporaceae-Actinomadura_roseirufa_WP_131738891.1 Archaea-Euryarchaeota-Halobacteria-Haloferacales-Haloferacaceae-Halobellus_sp._ZY21_WP_122105635.1

Archaea-Euryarchaeota-Halobacteria-Haloferacales-Halorubraceae-Halorubrum_lipolyticum_WP_008005803.1