Bacteria-Actinobacteria-Actinobacteria-Micrococcales-Cellulomonadaceae-Actinotalea_ferrariae_WP_034221889.1 Bacteria-Actinobacteria-Actinobacteria-Micrococcales-Cellulomonadaceae-Cellulomonas_carbonis_WP_081978615.1 Bacteria-Actinobacteria-Actinobacteria-Propionibacteriales-Nocardioidaceae-Kribbella_sp._VKM_Ac2568_WP_132294547.1 Bacteria-Actinobacteria-Actinobacteria-Propionibacteriales-Nocardioidaceae-Marmoricola_solisilvae_WP_123234110.1 Bacteria-Actinobacteria-Actinobacteria-Propionibacteriales-Nocardioidaceae-NA_WP_132187423.1 Bacteria-Actinobacteria-Actinobacteria-Micromonosporales-Micromonosporaceae-Actinoplanes_brasiliensis_WP_133874305.1 —— Bacteria-Actinobacteria-Actinobacteria-Micromonosporales-Micromonosporaceae-Actinoplanes teichomyceticus WP 122981371.1 + 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 Bacteria Eukaryota-Rhodophyta-Compsopogonophyceae-NA-NA-Madagascaria_erythrocladiodes_MMETSP1450_c15537_g1_i1.p2 Bacteria-Actinobacteria-Rubrobacteria-Rubrobacterales-Rubrobacteraceae-Rubrobacter_taiwanensis_WP_132687979.1 —— Bacteria-Chloroflexi-Ktedonobacteria-Ktedonobacterales-Dictyobacteraceae-Tengunoibacter_tsumagoiensis_WP_126580400.1 Eukaryota-Ciliophora-NA-Unranked-NA-Platyophrya_macrostoma_MMETSP0127_c16522_g1_i1.p1 — Bacteria-Firmicutes-Bacilli-Bacillales-Paenibacillaceae-Paenibacillus_sp._BK736_WP_132487971.1 Bacteria-Armatimonadetes-Chthonomonadales-Chthonomonadaceae-Chthonomonas_calidirosea_WP_016481552.1 Bacteria-Armatimonadetes-Chthonomonadetes-Chthonomonadales-Chthonomonadaceae-Chthonomonas calidirosea WP 075162624.1 Paulinella_chromatophora_CCAC0185_nuclear___scaffold1114-m16077 ukaryota-Chlorophyta-Nephroselmidophyceae-NA-NA-Nephroselmis_pyriformis_MMETSP0034_c15448_g1_i4.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Bigelowiella_natans_MMETSP1052_c37205_g1_i1.p1 ukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Gymnochlora_sp_MMETSP0110_c13035_g1_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Lotharella_amoebiformis_MMETSP0042_c2560_g1_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Partenskyella_glossopodia_MMETSP1318_c8730_g1_i1.p1 Eukaryota-Chlorophyta-Palmophyllophyceae-Prasinococcales-Prasinococcaceae-Prasinoderma_coloniale_MMETSP0806_c6926_g1_i1.p2 Eukaryota-Ciliophora-NA-Unranked-NA-Platyophrya_macrostoma_MMETSP0127_c2368_g1_i1.p1 - Eukaryota-Euglenida-NA-NA-Unranked-Neobodo_designis_MMETSP1114_c10074_g1_i3.p1 Eukaryota-Stramenopiles-Coscinodiscophyceae-Thalassiosirales-Thalassiosiraceae-Thalassiosira_sp_MMETSP1071_c15753_g1_i1.p1 Bacteria-Actinobacteria-Actinobacteria-Propionibacteriales-Nocardioidaceae-Nocardioides_sp._Leaf285_WP_082499990.1 Eukaryota-Mesomycetozoea-Ichthyosporea-NA-NA-Capsaspora owczarzaki XP 004365125.1 └ Viruses-Pithoviridae-NA-NA-NA-Pithovirus sibericum YP 009000988.1 — Bacteria-Bacteroidetes-Chitinophagia-Chitinophagales-Chitinophagaceae-Flavihumibacter_solisilvae_WP_039143887.1 etaria-NA-NA-NA-Elphidium_margaritaceum_MMETSP1385_c17015_g2_i1.p1 ——— Eukaryota-Chlorophyta-NA-NA-NA-Picocystis_salinarum_MMETSP0807_c1708_g1_i1.p1 ----- MSTRG.17428.2.p1 Paulinella chromatophora CCAC0185 nuclear_scaffold1731-m21789 ukaryota-Longamoebia-Longamoebia-Longamoebia-Acanthamoebidae-Acanthamoeba castellanii XP 004335079.1 Viruses-NA-NA-NA-NA-Mollivirus sibericum YP 009165080.1 Viruses-Pithoviridae-NA-NA-NA-Cedratvirus A11 YP 009329205.1 — Viruses-Mimiviridae-NA-NA-NA-Moumouvirus_YP_007354741.1 ota-Longamoebia-Longamoebia-Longamoebia-Acanthamoebidae-Acanthamoeba castellanii XP 004335043.1 Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Amphidinium_massartii_MMETSP0689_c1263_g1_i1.p1 Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Symbiodinium_sp_MMETSP1122_c6570_g1_i1.p1 — Eukaryota-Microsporidia-NA-NA-NA-Nematocida parisii XP 013058256.1 Eukaryota-Cryptophyta-NA-Cryptomonadales-Hemiselmidaceae-Hemiselmis_virescens_MMETSP1356_c13983_g1_i1.p2 70 — Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Brandtodinium_nutriculum_MMETSP1462_c71354_g1_i1.p2 Eukaryota-Alveolata-Dinophyceae-Peridiniales-Kryptoperidiniaceae-Durinskia_baltica_MMETSP0116_c103589_g1_i1.p1 Lukaryota-Alveolata-Dinophyceae-NA-Unranked-Heterocapsa arctica MMETSP1441_c10489_g1_i1.p1 Eukaryota-Stramenopiles-NA-NA-NA-Pseudo_fraudulenta_MMETSP0851_c86888_g1_i1.p1 Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Karenia_brevis_MMETSP0027_c3365_g1_i2.p1 —— Eukaryota-Stramenopiles-Coscinodiscophyceae-Thalassiosirales-Skeletonemataceae-Skeletonema_japonicum_MMETSP0593_c2123_g1_i1.p1 Bacteria-Firmicutes-Clostridia-Clostridiales-Ruminococcaceae-Ruminococcaceae_bacterium_WP_026077126.1 — Viruses-Mimiviridae-NA-NA-NA-Megavirus_chiliensis_YP_004895060.1 - Bacteria-Firmicutes-Bacilli-Bacillales-Planococcaceae-Planococcus_donghaensis_WP_008431702.1 Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Trypanosoma_rangeli_XP_029233217.1 Eukaryota-Chordata-Ascidiacea-Enterogona-Cionidae-Ciona_intestinalis_XP_009862202.1 Uiruses-Mimiviridae-NA-NA-NA-Acanthamoeba_polyphaga_mimivirus_YP_003987350.1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Paramoeba_atlantica_MMETSP0151_c23907_g1_i1.p1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Paramoeba_atlantica_MMETSP0151_c30256_g1_i1.p1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Pessonella_sp_MMETSP0420_c4897_g1_i1.p1 Eukaryota-Ciliophora-NA-Unranked-NA-Tiarina_fusus_MMETSP0472_c8492_g1_i1.p1 Eykaryota-Ascomycota-Dothideomycetes-Dothideales-Saccotheciaceae-Aureobasidium_namibiae_XP_013428935.1 Eukaryota-Streptophyta-NA-Fagales-Fagaceae-Quercus_suber_XP_023909579.1 Eukaryota-Streptophyta-NA-Fagales-Fagaceae-Quercus_suber_XP_023902779.1 Eukaryota-Ascomycota-Dothideomycetes-Dothideales-Saccotheciaceae-Aureobasidium pullulans XP 029762918.1 55 LEukaryota-Ascomycota-Dothideomycetes-Pleosporales-Leptosphaeriaceae-Leptosphaeria maculans XP 003837682.1 Eukaryota-Ascomycota-Dothideomycetes-Pleosporales-Pleosporaceae-Bipolaris_maydis_XP_014075620.1 Engkaryota-Ascomycota-Dothideomycetes-Pleosporales-Pleosporaceae-Alternaria_alternata_XP_018380289.1 Eukaryota-Chlorophyta-NA-NA-NA-Picocystis_salinarum_MMETSP0807_c580_g1_i1.p1 Eukaryota-Ascomycota-Dothideomycetes-Capnodiales-Mycosphaerellaceae-Pseudocercospora_fijiensis_XP_007928720.1 — Bacteria-Armatimonadetes-Fimbriimonadia-Fimbriimonadales-Fimbriimonadaceae-Fimbriimonas_ginsengisoli_WP_052547739.1 Bacteria-Chloroflexi-Chloroflexia-Chloroflexales-Oscillochloridaceae-Candidatus_Chloroploca_sp._M50_WP_135479385.1 Bacteria-Chloroflexi-Ktedonobacteria-Ktedonobacterales-NA-Ktedonobacterales_bacterium_SCAWSG2_WP_129888545.1 ——— Bacteria-Verrucomicrobia-Spartobacteria-Chthoniobacterales-Chthoniobacteraceae-Chthoniobacter_flavus_WP_006977958.1 Bacteria-Verrucomicrobia-Verrucomicrobiae-Verrucomicrobiales-Verrucomicrobiaceae-Verrucomicrobium_sp._BvORR034_WP_050031268.1 Bacteria-Verrucomicrobia-Verrucomicrobiae-Verrucomicrobiales-Verrucomicrobiaceae-Verrucomicrobium_spinosum_WP_009965754.1 Bacteria-Verrucomicrobia-Verrucomicrobiae-Verrucomicrobiales-Verrucomicrobiaceae-Verrucomicrobium_sp._BvORR106_WP_038160958.1 Bacteria-Verrucomicrobia-Verrucomicrobiae-Verrucomicrobiales-Verrucomicrobiaceae-Roseimicrobium_gellanilyticum_WP_113957397.1 — Bacteria-Verrucomicrobia-Spartobacteria-NA-NA-Spartobacteria_bacterium_LR76_WP_108058825.1 Eukaryota-Heterolobosea-NA-NA-NA-Percolomonas_cosmopolitus_MMETSP0758_c933_g1_i1.p1 LEukaryota-Haptophyta-NA-Prymnesiales-NA-Imantonia_sp_MMETSP1474_c1106_g1_i1.p1 Eukaryota-Haptophyta-NA-Prymnesiales-NA-Imantonia_sp_MMETSP1474_c30747_g1_i1.p1 Eukaryota-Ciliophora-NA-Unranked-NA-Litonotus_pictus_MMETSP0209_c5005_g1_i1.p1 Eukaryota-Palpitomonas-NA-NA-NA-Palpitomonas_bilix_MMETSP0780_c7779_g1_i1.p1 Eukaryota-Haptophyta-NA-Prymnesiales-NA-Chrysochromulina_rotalis_MMETSP0287_c36786_g1_i1.p1 Eukaryota-Haptophyta-NA-Unranked-NA-Scyphosphaera_apsteinii_MMETSP1333_c64214_g1_i1.p1 Eukaryota-Ciliophora-NA-Unranked-NA-Protocruzia_adherens_MMETSP0216_c31729_g1_i1.p1 Eukaryota-Haptophyta-NA-Prymnesiales-NA-Coccolithus_pelagicussspbraarudi_MMETSP0164_c865_g1_i1.p1 Eukaryota-Heterolobosea-NA-NA-NA-Percolomonas_cosmopolitus_MMETSP0758_c11557_g1_i1.p1 Eukaryota-Mesomycetozoea-Ichthyosporea-Ichthyophonida-NA-Sphaeroforma_arctica_XP_014151671.1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Stygamoeba_regulata_MMETSP0447_c15610_g1_i1.p1 Eukaryota-Glaucophyta-Glaucophyta-NA-Cyanophoraceae-Cyanophora_paradoxa_tig00021504_g21973.t1 Eukaryota-Cryptophyta-NA-Pyrenomonadales-Geminigeraceae-Guillardia_theta_CCMP2712_jgi48629 Eukaryota-Priapulida-Priapulimorpha-Priapulimorphida-Priapulidae-Priapulus_caudatus_XP_014667956.1 Eukaryota-Stramenopiles-NA-NA-NA-Thalassionema_nitzschioides_MMETSP0156_c4511_g1_i1.p1 Eukaryota-Apusomonadidae-NA-NA-NA-Thecamonas_trahens_XP_013753962.1 — Eukaryota-Glaucophyta-Glaucophyta-Gloeochaetales-Gloeochaetaceae-Gloeochaete_wittrockiana_MMETSP1089_c22161_g1_i1.p1 — Eukaryota-Chlorophyta-NA-Pyramimonadales-NA-Pyramimonas_sp_MMETSP1445_c2331_g1_i1.p1 Bacteria-Proteobacteria-Deltaproteobacteria-Myxococcales-Archangiaceae-Archangium_sp._Cb_G35_WP_143195944.1 —————Bacteria-Proteobacteria-Deltaproteobacteria-Myxococcales-Archangiaceae-Hyalangium_minutum_WP_083968535.1 —— Bacteria-Proteobacteria-Deltaproteobacteria-Myxococcales-Archangiaceae-Vitiosangium_sp._GDMCC_1.1324_WP_108066432.1 Bacteria-Proteobacteria-Deltaproteobacteria-Myxococcales-Myxococcaceae-Corallococcus_coralloides_WP_128797022.1 Bacteria-Proteobacteria-Deltaproteobacteria-Myxococcales-Myxococcaceae-NA_WP_120580543.1 —— Bacteria-Proteobacteria-Deltaproteobacteria-Myxococcales-Archangiaceae-Hyalangium_minutum_WP_044186016.1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Bigelowiella_longifila_MMETSP1359_c3650_g1_i2.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Bigelowiella_natans_MMETSP1054_c18762_g1_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Gymnochlora_sp_MMETSP0110_c11223_g1_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Chlorarachnion_reptans_MMETSP0109_c192_g1_i1.p1 Eukaryota-Stramenopiles-Dictyochophyceae-Rhizochromulinales-NA-Rhizochromulina_marinacf_MMETSP1173_c5286_g1_i2.p1 Eukaryota-Stramenopiles-NA-NA-NA-Pteridomonas_danica_MMETSP0101_c8461_g1_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Partenskyella_glossopodia_MMETSP1318_c12395_g1_i1.p1 Eukaryota-Cryptophyta-NA-Pyrenomonadales-Chroomonadaceae-Chroomonas_mesostigmaticacf_MMETSP0047_c2364_g1_i1.p1 — 96 Eukaryota-Glaucophyta-Glaucophyta-Gloeochaetales-Gloeochaetaceae-Gloeochaete_witrockiana_MMETSP0308_c19065_g1_i1.p1 Eukaryota-Heterolobosea-NA-NA-Vahlkampfiidae-Naegleria_gruberi_jgi61990 Eukaryota-Euglenida-NA-Eutreptiales-NA-Eutreptiella_gymnastica_MMETSP0039_c5820_g1_i1.p1 Eukaryota-Basidiomycota-Microbotryomycetes-Sporidiobolales-Sporidiobolaceae-Rhodotorula_graminis_XP_018273732.1 E@karvota-Ascomycota-NA-NA-NA-Saitoella_complicata_XP_019021089.1 Eukaryota-Microsporidia-NA-NA-NA-Mitosporidium_daphniae_XP_013239423.1 Eukaryota-Mucoromycota-Mortierellomycetes-Mortierellales-Mortierellaceae-Lobosporangium_transversale_XP_021877720.1 Eukaryota-Basidiomycota-Agaricomycetes-Gloeophyllales-Gloeophyllaceae-Gloeophyllum_trabeum_XP_007863938.1 — Egykaryota-Basidiomycota-Agaricomycetes-Hymenochaetales-Hymenochaetaceae-Fomitiporia_mediterranea_XP_007266404.1 Eukaryota-Basidiomycota-Agaricomycetes-Polyporales-NA-Fibroporia_radiculosa_XP_012185388.1 Eukaryota-Basidiomycota-Agaricomycetes-Polyporales-Dacryobolaceae-Postia_placenta_XP_024342486.1 Eukaryota-Chytridiomycota-Chytridiomycetes-Spizellomycetales-Spizellomycetaceae-Spizellomyces_punctatus_XP_016611552.1 Eukaryota-Mesomycetozoea-Ichthyosporea-NA-NA-Capsaspora_owczarzaki_XP_004347499.1 Eukaryota-Fonticulida-Fonticulida-Fonticulida-Fonticulaceae-Fonticula alba XP 009492698.1 Eukaryota-Basidiomycota-Exobasidiomycetes-Microstromatales-NA-Jaminaea rosea XP 025363771.1 LEukaryota-Ascomycota-Eurotiomycetes-Eurotiales-Aspergillaceae-Aspergillus_aculeatinus_XP_025507173.1 de Bistaryota-Ascomycota-Eurotiomycetes-Eurotiales-Thermoascaceae-Byssochlamys_spectabilis_XP_028484199.1 Eukaryota-Ascomycota-Eurotiomycetes-Onygenales-Arthrodermataceae-Trichophyton_rubrum_XP_003235996.1 Eukaryota-Ascomycota-Eurotiomycetes-Eurotiales-Trichocomaceae-Talaromyces_atroroseus_XP_020120947.1 Eukaryota-Ascomycota-Sordariomycetes-Magnaporthales-Pyriculariaceae-Pyricularia_oryzae_XP_003709992.1 Enkaryota-Basidiomycota-Tremellomycetes-Tremellales-Cryptococcaceae-Cryptococcus_amylolentus_XP_018992744.1 Eŭkaryota-Basidiomycota-Tremellomycetes-Tremellales-Tremellaceae-Tremella_mesenterica_jgi26067 Eukaryota-Cryptophyta-NA-Goniomondales-NA-Goniomonas_sp_MMETSP0114_c25023_g1_i1.p1 Eukaryota-Mucoromycota-Glomeromycetes-Glomerales-Glomeraceae-Rhizophagus irregularis XP 025179329.1 ıkaryota-Basidiomycota-Ustilaginomycetes-Ustilaginales-Ustilaginaceae-Kalmanozyma_brasiliensis_XP_016293417.1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Mayorella_sp_MMETSP0417_c2219_g1_i1.p1 Eukaryota-Mucorales-Mucoraceae-Undefined-Undefined-Mucor_circinelloides_jgi75875

Eukaryota-Mucoromycota-Mucoromycetes-Mucorales-Phycomycetaceae-Phycomyces_blakesleeanus_jgi31190 98 Eukaryota-Mucoromycota-Mucoromycetes-Mucorales-Phycomycetaceae-Phycomyces_blakesleeanus_jgi10036 Eukaryota-Mucoromycota-Mucoromycetes-Mucorales-Rhizopodaceae-Rhizopus_microsporus_XP_023468913.1 Eukaryota-Chlorophyta-NA-NA-NA-Tetraselmis_astigmatica_MMETSP0804_c20367_g1_i1.p1 Eukaryota-Mollusca-Cephalopoda-Octopoda-Octopodidae-Octopus_bimaculoides_XP_014790752.1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Bigelowiella_natans_MMETSP1358_c29615_g1_i1.p1 Bacteria-Acidobacteria-Acidobacteriia-Bryobacterales-Solibacteraceae-Candidatus_Sulfopaludibacter_sp._SbA3_WP_105500639.1 Leukaryota-Chordata-Actinopteri-Clupeiformes-Clupeidae-Clupea_harengus_XP_012691779.1 ______Eukaryota-Chordata-Actinopteri-Cypriniformes-Cyprinidae-Danio_rerio_XP_689838.4 Eukaryota-Chordata-Actinopteri-Clupeiformes-Denticipitidae-Denticeps_clupeoides_XP_028847326.1 - Bacteria-Chloroflexi-Anaerolineae-Anaerolineales-NA-Anaerolineales bacterium WP 116780357.1 Eukaryota-Retaria-NA-NA-NA-Elphidium_margaritaceum_MMETSP1385_c39703_g1_i1.p1 Eukaryota-Retaria-NA-NA-NA-Ammonia_sp_MMETSP1384_c8897_g1_i1.p1

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Eukaryota-Retaria-NA-NA-Rosalina_sp_MMETSP0190_c47443_g1_i1.p1 Eukaryota-Retaria-NA-NA-NA-Sorites_sp_MMETSP0191_c25729_g1_i1.p1 Eukaryota-Cryptophyta-NA-Cryptomonadales-Hemiselmidaceae-Hemiselmis_rufescens_MMETSP1357_c47024_g1_i1.p1 87 Eukaryota-Stramenopiles-NA-NA-NA-Bolidomonas_pacifica_MMETSP1319_c574_g1_i1.p1 Bacteria-Chloroflexi-Chloroflexia-Chloroflexales-Oscillochloridaceae-Candidatus_Oscillochloris_fontis_WP_129627850.1 Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Turneriella_parva_WP_014802296.1 Eukaryota-Ciliophora-NA-Unranked-NA-Blepharisma_japonicum_MMETSP1395_c8651_g1_i1.p1 Bacteria-Chloroflexi-Chloroflexia-Chloroflexales-Chloroflexaceae-Chloroflexus_islandicus_WP_066786412.1 Bacteria-Calditrichaeota-Calditrichae-Calditrichales-Calditrichaceae-Caldithrix_abyssi_WP_006929810.1 Bacteria-Planctomycetes-Planctomycetia-Planctomycetales-Isosphaeraceae-Singulisphaera_acidiphila_WP_015248169.1 Eukaryota-Apicomplexa-Aconoidasida-Piroplasmida-Babesiidae-Babesia_bovis_XP_001609507.1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Filamoeba_nolandi_MMETSP0413_c17809_g1_i1.p1 Eukaryota-Hemichordata-Enteropneusta-NA-Harrimaniidae-Saccoglossus_kowalevskii_XP_002733933.2 ———— Bacteria-CandidatusMelainabacteria-NA-NA-NA-Candidatus_Melainabacteria_bacterium_WP_144105251.1 ————— Bacteria-Planctomycetes-NA-NA-NA-Planctomycetes_bacterium_Pan265_WP_145444928.1 ———— Bacteria-Planctomycetes-Phycisphaerae-NA-NA-Phycisphaerae_bacterium_RAS1_WP_146281566.1 Bacteria-CandidatusMelainabacteria-NA-CandidatusGastranaerophilales-NA-Candidatus_Gastranaerophilales_bacterium_WP_129743304.1 Eukaryota-Heterolobosea-NA-NA-Vahlkampfiidae-Naegleria_gruberi_jgi78152 Bacteria-Elusimicrobia-Elusimicrobia-Elusimicrobiales-Elusimicrobiaceae-Elusimicrobium_sp._An273_WP_087289398.1 85 58 Bacteria-Proteobacteria-Alphaproteobacteria-Sphingomonadales-Sphingomonadaceae-Novosphingobium_lentum_WP_068071227.1 Bacteria-Nitrospirae-Nitrospira-Nitrospirales-Nitrospiraceae-Candidatus_Magnetobacterium_casensis_WP_052566830.1 Bacteria-CandidatusMarinimicrobia-NA-NA-NA-Candidatus_Marinimicrobia_bacterium_WP_129214449.1 Bacteria-Nitrospirae-NA-NA-NA-Nitrospirae_bacterium_HCH1_WP_085053730.1 Bacteria-Proteobacteria-Deltaproteobacteria-Desulfovibrionales-Desulfovibrionaceae-Desulfovibrio_ferrophilus_WP_126378990.1 cteria-Verrucomicrobia-Opitutae-Opitutales-Opitutaceae-Lacunisphaera_sp._TWA58_WP_129046619.1 Bacteria-Verrucomicrobia-Opitutae-Opitutales-Opitutaceae-Opitutus_sp._GAS368_WP_091055097.1 Bacteria-Chloroflexi-Anaerolineae-NA-NA-anaerobic bacterium MOCFX2 WP 119065583.1 Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Leptospira_ryugenii_WP_108976698.1 Bacteria-Verrucomicrobia-Spartobacteria-NA-NA-Spartobacteria_bacterium_LR76_WP_108061678.1 Eukaryota-Glaucophyta-Glaucophyta-NA-Cyanophoraceae-Cyanophora_paradoxa_tig00001107_g7105.t1 Bacteria-Aquificae-Aquificae-Aquificales-Aquificaceae-Hydrogenivirga_sp._1285R11_WP_008287283.1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Vexillifera_sp_MMETSP0173_c18159_g1_i1.p1 —— Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Leishmania_infantum_XP_001464477.1 —— 99 Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Leptomonas_pyrrhocoris_XP_015653470.1 Eukaryota-Annelida-Clitellata-Hirudinida-Glossiphoniidae-Helobdella_robusta_XP_009022047.1 100 Eukaryota-Brachiopoda-Lingulata-Lingulida-Lingulidae-Lingula_anatina_XP_013411508.1 Eukaryota-Apusomonadidae-NA-NA-NA-Thecamonas_trahens_XP_013756798.1 Eukaryota-Echinodermata-Asteroidea-Valvatida-Acanthasteridae-Acanthaster_planci_XP_022106502.1 čúkaryota-Porifera-Demospongiae-Haplosclerida-Niphatidae-Amphimedon_queenslandica_jgiAqu1215400 a-Choanoflagellata-Choanoflagellata-Choanoflagellata-Salpingoecidae-Monosiga_brevicollis_XP_001743128.1 Eukaryota-Choanoflagellata-Choanoflagellata-Choanoflagellata-Salpingoecidae-Salpingoeca_rosetta_XP_004996423.1 90 Eukaryota-Chytridiomycota-Chytridiomycetes-Spizellomycetales-Spizellomycetaceae-Spizellomyces_punctatus_XP_016607637.1 Eukaryota-Chytridiomycota-Chytridiomycetes-Rhizophydiales-NA-Batrachochytrium_dendrobatidis_igi90372 ———— Bacteria-Aquificae-Aquificae-Aquificales-Hydrogenothermaceae-Persephonella_marina_WP_012675790.1 Bacteria-Proteobacteria-Deltaproteobacteria-NA-NA-delta_proteobacterium_NaphS2_WP_050798935.1 ————— Bacteria-Bacteroidetes-Flavobacteriia-Flavobacteriales-Flavobacteriaceae-Aquimarina_brevivitae_WP_130285282.1 Bacteria-Aquificae-Aquificae-Desulfurobacteriales-Desulfurobacteriaceae-Desulfurobacterium_sp._TC51_WP_022847178.1 Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Leptonema_iiiiii_vvr_uuzi/2000.1

Bukaryota-Rhodophyta-Compsopogonophyceae-NA-NA-Madagascaria_erythrocladiodes_MMETSP1450_c10852_g1_i1.p1 Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Karenia_brevis_MMETSP0029_c42458_g1_i1.p1 Bacteria-Chrysiogenetes-Chrysiogenetes-Chrysiogenales-Chrysiogenaceae-Chrysiogenes_arsenatis_WP_051321552.1 Bacteria-Chrysiogenetes-Chrysiogenetes-Chrysiogenales-Chrysiogenaceae-Desulfurispirillum_indicum_WP_013506198.1 Bacteria-Deferribacteres-Deferribacteres-Deferribacterales-Deferribacteraceae-Geovibrio_sp._L21AceBES_WP_022850549.1 Bacteria-Cyanobacteria-NA-NA-NA-filamentous_cyanobacterium_CCP5_WP_106881552.1

Bacteria-Cyanobacteria-NA-NA-Synechococcales-Prochlorotrichaceae-Halomicronema_hongdechloris_WP_080811992.1 Bacteria-Fibrobacteres-Fibrobacteria-Fibrobacterales-Fibrobacteraceae-Fibrobacter_sp._UWP2_WP_073188563.1 Bacteria-Fibrobacteres-Fibrobacteria-Fibrobacterales-Fibrobacteraceae-NA_WP_073424970.1 Bacteria-Firmicutes-Bacilli-Bacillales-Bacillaceae-Domibacillus_tundrae_WP_046179502.1 Bacteria-Firmicutes-Bacilli-Bacillales-Planococcaceae-Jeotgalibacillus_salarius_WP_134380840.1 Bacteria-Nitrospirae-Nitrospira-Nitrospirales-Nitrospiraceae-NA_WP_012545957.1 Eukaryota-Apicomplexa-NA-Unranked-NA-Alveolata_sp_MMETSP0288_c12940_g1_i1.p1 Eukaryota-Chromeraceae-NA-NA-NA-Vitrella_brassicaformis_MMETSP1451_c5555_g1_i1.p1 ——— Eukaryota-Acytosteliales-Acytosteliales-Acytosteliales-Acytosteliaceae-Acytostelium_subglobosum_XP_012759672.1 Eukaryota-Cryptophyta-NA-Goniomondales-NA-Goniomonas_sp_MMETSP0114_c2581_g1_i1.p1 Eukaryota-Mesomycetozoea-Ichthyosporea-NA-NA-Capsaspora_owczarzaki_XP_004347634.1 Bacteria-Bacteroidetes-Flavobacteriia-Flavobacteriales-Flavobacteriaceae-Kordia_sp._SMS9_WP_114901968.1 Bacteria-Bacteroidetes-Flavobacteriia-Flavobacteriales-Flavobacteriaceae-Tenacibaculum_sp._SZ18_WP_100926621.1 Eukaryota-Nematoda-Chromadorea-Rhabditida-Strongyloididae-Strongyloides ratti XP 024505768.1 Eukaryota-Placozoa-NA-NA-Trichoplacidae-Trichoplax_adhaerens_XP_002109509.1 Eukaryota-Trichomonadida-Trichomonadida-Trichomonadida-Trichomonadidae-Trichomonas_vaginalis_XP_001323170.1 Bacteria-CandidatusKryptonia-NA-NA-NA-Candidatus_Kryptonium_thompsoni_WP_047134459.1 Eukaryota-Cryptophyta-NA-Pyrenomonadales-Pyrenomonadaceae-Rhodomonas_abbreviata_MMETSP1101_c10026_g1_i1.p1 87 PLONAL STREET OF THE PROPERTY OF THE PROPER 97 Eukaryota-Stramenopiles-NA-NA-NA-Spumella_elongata_MMETSP1098_c10079_g1_i1.p1 Leukaryota-Haptophyta-NA-Phaeocystales-Phaeocystaceae-Phaeocystis_antarctica_MMETSP1100_c16884_g1_i1.p1 Eukaryota-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Trypanosoma_theileri_XP_028882279.1 80 _____ Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Alexandrium_tamarense_MMETSP0384_c1106_g1_i1.p1 ——— 98 —— Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Symbiodinium_sp_MMETSP1369_c8164_g1_i1.p1 Eukaryota-Chlorophyta-NA-NA-NA-Crustomastix_stigmata_MMETSP0803_c11350_g1_i1.p1 Egykaryota-Chlorophyta-NA-NA-NA-Dolichomastix_tenuilepis_MMETSP0033_c25614_g1_i1.p1 Eukaryota-Heterolobosea-NA-NA-Percolomonas cosmopolitus MMETSP0758 c12184 g1 i1.p1 Eukaryota-Chlorophyta-NA-NA-Pterosperma_sp_MMETSP1438_c730_g1_i1.p1 Eukaryota-Stramenopiles-NA-NA-NA-Pinguiococcus_pyrenoidosus_MMETSP1160_c7640_g1_i1.p1 Eukaryota-Euglenida-NA-Eutreptiales-NA-Eutreptiella_gymnastica_MMETSP0039_c25025_g11_i1.p1 Bacteria-Cyanobacteria-NA-Oscillatoriales-Coleofasciculaceae-Geitlerinema_sp._PCC_7407_WP_015173858.1 Eukaryota-Euglenida-NA-NA-Unranked-Neobodo designis MMETSP1114 c6807 g1 i1.p1 Eukaryota-Ciliophora-NA-Unranked-NA-Mesodinium_pulex_MMETSP0467_c4759_g1_i1.p1 ——— Eukaryota-Stramenopiles-NA-Bicosoecida-Cafeteriaceae-Cafeteria sp MMETSP1104 c25099 g1 i1.p1 Bacteria-Ignavibacteriae-Ignavibacteria-Ignavibacteriales-Melioribacteraceae-Melioribacter_roseus_WP_041355817.1 98 MSTRG.25154.2.p1 Bacteria-Nitrospinae-Nitrospinia-Nitrospinales-Nitrospinaceae-Nitrospina_gracilis_WP_005010702.1 Eukaryota-Retaria-NA-NA-NA-Ammonia_sp_MMETSP1384_c13828_g1_i1.p1 Eukaryota-Retaria-NA-NA-Elphidium_margaritaceum_MMETSP1385_c18326_g1_i1.p1 Eukaryota-Ciliophora-NA-Unranked-NA-Euplotes_focardii_MMETSP0206_TR5519-c0_g1_i1.p1 Eukaryota-Palpitomonas-NA-NA-NA-Palpitomonas bilix MMETSP0780 c15055 g1 i1.p1 —— Bacteria-Acidobacteria-Acidobacteriia-Acidobacteriales-Acidobacteriaceae-Candidatus_Koribacter_versatilis_WP_049761935.1 Eukaryota-Arthropoda-Insecta-Hemiptera-Aphididae-Aphis_gossypii_XP_027843645.1 karyota-Arthropoda-Insecta-Hymenoptera-Orussidae-Orussus abietinus XP 012272873.1 Eukaryota-Arthropoda-Malacostraca-Decapoda-Penaeidae-Penaeus_vannamei_XP_027221501.1 Eukaryota-Mollusca-Bivalvia-Ostreoida-Ostreidae-Crassostrea_virginica_XP_022315236.1 Eukaryota-Mollusca-Gastropoda-Architaenioglossa-Ampullariidae-Pomacea_canaliculata_XP_025092486.1 Eukarvota-Cnidaria-Anthozoa-Scleractinia-Acroporidae-Acropora millepora XP 029188366.1 Eukaryota-Cnidaria-Anthozoa-Scleractinia-Pocilloporidae-Pocillopora_damicornis_XP_027056813.1

Eukaryota-Cnidaria-Anthozoa-Scleractinia-Pocilloporidae-Stylophora_pistillata_XP_022788217.1