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Eukaryota-Nematoda-Chromadorea-Rhabditida-Rhabditidae-Caenorhabditis_elegans_NP_001022728.2 Eukaryota-Nematoda-Chromadorea-Rhabditida-Strongyloididae-Strongyloides_ratti_XP_024506258.1 Eukaryota-Platyhelminthes-Cestoda-Cyclophyllidea-Taeniidae-Echinococcus_granulosus_XP_024350479.1 ————— Eukaryota-Platyhelminthes-Trematoda-Strigeidida-Schistosomatidae-Schistosoma_haematobium_XP_012801401.1 68 Eukaryota-Hemichordata-Enteropneusta-NA-Harrimaniidae-Saccoglossus_kowalevskii_XP_002730472.1 Eukaryota-Arthropoda-Arachnida-Sarcoptiformes-Pyroglyphidae-Dermatophagoides_pteronyssinus_XP_027204667.1 Eukaryota-Arthropoda-Insecta-Diptera-Tephritidae-Rhagoletis_zephyria_XP_017478802.1 Eukaryota-Arthropoda-Insecta-Diptera-Culicidae-Aedes_aegypti_XP_001648570.2 _____ Eukaryota-Echinodermata-Asteroidea-Valvatida-Acanthasteridae-Acanthaster_planci_XP_022108055.1 Eukaryota-Echinodermata-Echinoidea-Echinoida-Strongylocentrotidae-Strongylocentrotus_purpuratus_XP_790052.3 Eukaryota-Priapulida-Priapulimorpha-Priapulimorphida-Priapulidae-Priapulus caudatus XP 014664168.1 Eukaryota-Priapulida-Priapulimorpha-Priapulimorphida-Priapulidae-Priapulus_caudatus_XP_014667652.1 Eukaryota-Placozoa-NA-NA-Trichoplacidae-Trichoplax_adhaerens_XP_002112785.1 Eukaryota-Cnidaria-Anthozoa-Actiniaria-Aiptasiidae-Exaiptasia_pallida_XP_020912762.1 100 LEukaryota-Cnidaria-Anthozoa-Scleractinia-Pocilloporidae-Pocillopora_damicornis_XP_027049342.1 -0100 - 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Eukaryota-Chlorophyta-NA-NA-NA-Dolichomastix_tenuilepis_MMETSP0033_c517_g1_i1.p1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Neoparamoeba_aestuarina_MMETSP0161_c3602_g1_i1.p1 ukaryota-Amoebozoa-NA-NA-Paramoebidae-Paramoeba_atlantica_MMETSP0151_c5011_g1_i1.p1 — Eukaryota-Euglenida-NA-Eutreptiales-NA-Eutreptiella_gymnastica_MMETSP0039_c16469_g2_i1.p1 — Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Leishmania_braziliensis_XP_001569179.1 ——— Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Trypanosoma brucei XP 011778322.1 Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Trypanosoma_cruzi_XP_812198.1 Eukaryota-Euglenida-NA-NA-Unranked-Neobodo_designis_MMETSP1114_c7355_g1_i1.p3 ——— Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Leishmania_braziliensis_XP_001562146.1 Eukaryota-Heterolobosea-NA-NA-NA-Percolomonas_cosmopolitus_MMETSP0759_c8437_g1_i1.p1 Eukaryota-Heterolobosea-NA-NA-Vahlkampfiidae-Naegleria_gruberi_jgi34278 —— Bacteria-Acidobacteria-Thermoanaerobaculia-Thermoanaerobaculales-Thermoanaerobaculaceae-Thermoanaerobaculum aguaticum WP 038046650.1 Bacteria-Aquificae-Aquificae-Aquificales-NA-Thermosulfidibacter_takaii_WP_068550558.1 Bacteria-CandidatusTectomicrobia-NA-NA-NA-Candidatus_Entotheonella_palauensis_WP_089721663.1 Bacteria-CandidatusTectomicrobia-NA-NA-NA-Candidatus Entotheonella palauensis WP 089943156.1 —— Bacteria-Nitrospirae-Nitrospira-Nitrospirales-Nitrospiraceae-Candidatus_Sulfobium_mesophilum_WP_109135797.1 —— Bacteria-Nitrospirae-Nitrospira-Nitrospirales-Nitrospiraceae-NA_WP_012546354.1 Bacteria-Nitrospirae-Nitrospira-Nitrospirales-Nitrospiraceae-Thermodesulfovibrio_sp._N1_WP_068861183.1 Bacteria-candidatedivisionNC10-NA-NA-NA-candidate division NC10 bacterium WP 116477718.1 Bacteria-candidatedivisionNC10-NA-NA-NA-Candidatus Methylomirabilis limnetica WP 107562510.1 Eukaryota-Glaucophyta-Glaucophyta-NA-Cyanophoraceae-Cyanophora_paradoxa_tig00000792_g4217.t1 Eukaryota-Palpitomonas-NA-NA-Palpitomonas bilix MMETSP0780 c12715 g1 i1.p1 — Bacteria-Thermodesulfobacteria-Thermodesulfobacteria-Thermodesulfobacteriales-Thermodesulfobacteriaceae-Thermodesulfatator_atlanticus_WP_022853111.1 — Bacteria-Thermodesulfobacteria-Thermodesulfobacteria-Thermodesulfobacteriales-Thermodesulfobacteriaceae-Thermosulfurimonas_dismutans_WP_068670602.1 — Bacteria-Actinobacteria-Nitriliruptoria-Egicoccales-Egicoccaceae-Egicoccus_halophilus_WP_130650952.1 —— Bacteria-CandidatusMelainabacteria-NA-NA-NA-Candidatus_Melainabacteria_bacterium_WP_144105923.1 — Bacteria-Cyanobacteria-NA-NA-NA-NA_WP_044151451.1 — Bacteria-Cyanobacteria-NA-Synechococcales-Synechococcaceae-Synechococcus sp. PCC 7335 WP 038016056.1 Eukaryota-Chlorophyta-Chlorophyceae-Chlamydomonadales-Chlamydomonadaceae-Polytomella_parva_MMETSP0052_c26500_g1_i1.p1 Eukaryota-Streptophyta-NA-Amborellales-Amborellaceae-Amborella_trichopoda_XP_011625436.1 Eukaryota-Streptophyta-NA-Caryophyllales-Chenopodiaceae-Chenopodium_quinoa_XP_021765571.1 Eukaryota-Streptophyta-NA-Caryophyllales-Chenopodiaceae-Spinacia_oleracea_XP_021852929.1 Eukaryota-Streptophyta-NA-Solanales-Convolvulaceae-Ipomoea nil XP 019190918.1 Eukaryota-Glaucophyta-Glaucophyta-NA-Cyanophoraceae-Cyanophora_paradoxa_tig00020909_g15327.t1 acteria-Armatimonadetes-Chthonomonadetes-Chthonomonadales-Chthonomonadaceae-Chthonomonas calidirosea WP 016483603.1 cteria-Armatimonadetes-Chthonomonadetes-Chthonomonadales-Chthonomonadaceae-Chthonomonas calidirosea WP 075163130.1 Bacteria-Firmicutes-Negativicutes-Veillonellales-Veillonellaceae-Megasphaera_elsdenii_WP_014015235.1 Bacteria-Firmicutes-Clostridia-Clostridiales-Clostridiaceae-Clostridium sp. CL2 WP 032116927.1 ——— Bacteria-Synergistetes-Synergistia-Synergistales-Synergistaceae-Aminivibrio_pyruvatiphilus_WP_133958126.1 ———— Bacteria-Synergistetes-Synergistia-Synergistales-Synergistaceae-Aminomonas_paucivorans_WP_006300910.1 —— Bacteria-Synergistetes-Synergistia-Synergistales-Synergistaceae-Thermovirga_lienii_WP_014162920.1 - Bacteria-Firmicutes-Clostridia-Halanaerobiales-Halobacteroidaceae-Orenia marismortui WP 134116826.1 ——— Bacteria-Firmicutes-Clostridia-Halanaerobiales-NA-Anoxybacter_fermentans_WP_127017921.1 —— Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Leptospira_wolffii_WP_016545874.1 Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-NA_WP_004751269.1 Bacteria-Chrysiogenetes-Chrysiogenetes-Chrysiogenales-Chrysiogenaceae-Chrysiogenes arsenatis WP 027388926.1 Archaea-NA-NA-NA-NA-anaerobic_archaeon_MKD1_WP_147662882.1 Archaea-Thaumarchaeota-NA-NA-NA-Candidatus Nitrosotalea bavarica WP 101477840.1 — Archaea-Thaumarchaeota-NA-Nitrosopumilales-Nitrosopumilaceae-Candidatus_Nitrosopumilus_sp._NM25_WP_109877557.1 —— Archaea-Thaumarchaeota-NA-Nitrosopumilales-Nitrosopumilaceae-Nitrosopumilus_piranensis_WP_148702460.1 Archaea-CandidatusBathyarchaeota-NA-NA-NA-Candidatus_Bathyarchaeota_archaeon_WP_119815698.1 — Archaea-Crenarchaeota-Thermoprotei-Desulfurococcales-Desulfurococcaceae-Thermogladius_calderae_WP_083830002.1 Archaea-Crenarchaeota-Thermoprotei-Desulfurococcales-Pyrodictiaceae-Pyrolobus_fumarii_WP_014026251.1 ———— Archaea-Euryarchaeota-Thermococci-Thermococcales-Thermococcaceae-Pyrococcus_kukulkanii_WP_068320228.1 —— Archaea-Euryarchaeota-Thermococci-Thermococcales-Thermococcaceae-Thermococcus_litoralis_WP_004067721.1 — Archaea-Euryarchaeota-Thermoplasmata-Methanomassiliicoccales-CandidatusMethanomethylophilaceae-Candidatus_Methanomethylophilus_alvus_WP_015504046.1

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