Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Mayorella sp MMETSP0417 c2062 g1 i1.p1 ota-Amoebozoa-NA-NA-Paramoebidae-Stygamoeba\_regulata\_MMETSP0447\_c4439\_g1\_i1.p1 Bacteria Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Neoparamoeba\_aestuarina\_MMETSP0161\_c21411\_g1\_i1.p1 - Eukaryota-Longamoebia-Longamoebia-Longamoebia-Acanthamoebidae-Acanthamoeba\_castellanii\_XP\_004333955.1 — Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Chlorarachnion\_reptans\_MMETSP0109\_c2800\_g1\_i1.p1 ukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Norrisiella\_sphaerica\_MMETSP0113\_c13019\_g1\_i1.p1 Viruses-Pithoviridae-NA-NA-NA-Cedratvirus\_A11\_YP\_009329013.1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Lotharella\_globosa\_MMETSP0112\_c5285\_g1\_i1.p1 Eukaryota-Haptophyta-NA-Pavlovales-Pavlovaceae-Pavlova gyrans MMETSP1466 c22824 g1 i1.p1 prophyta-NA-NA-NA-Mantoniella\_antarctica\_MMETSP1106\_c14657\_g1\_i1.p1 Eukaryota-Cryptophyta-NA-Pyrenomonadales-Pyrenomonadaceae-Rhodomonas\_lens\_MMETSP0484\_c5132\_g1\_i1.p1 ryota-Alveolata-Dinophyceae-NA-Unranked-Heterocapsa\_rotundata\_MMETSP0503\_c1742\_g1\_i1.p2 karyota-Ciliophora-NA-Unranked-NA-Mesodinium\_pulex\_MMETSP0467\_c66716\_g1\_i1.p2 —— Eukaryota-Chromeraceae-NA-NA-NA-Chromera\_velia\_MMETSP0290\_c39649\_g1\_i1.p1 —— Eukaryota-Palpitomonas-NA-NA-NA-Palpitomonas bilix MMETSP0780 c10301 g1 i2.p1 ——— Eukaryota-Brachiopoda-Lingulata-Lingulida-Lingulidae-Lingula\_anatina\_XP\_013381691.1 Eukaryota-Trichomonadida-Trichomonadida-Trichomonadida-Trichomonadidae-Trichomonas\_vaginalis\_XP\_001303599.1 anoflagellata-Choanoflagellata-Choanoflagellata-NA-Acanthoeca\_sp\_MMETSP0105\_c1427\_g1\_i1.p1 ——— Eukaryota-Choanoflagellata-Choanoflagellata-Choanoflagellata-Salpingoecidae-Salpingoeca\_rosetta\_XP\_004994592.1 Eukaryota-Fonticulida-Fonticulida-Fonticulida-Fonticulaceae-Fonticula\_alba\_XP\_009494286.1 Eukaryota-Perkinsozoa-NA-Perkinsida-Perkinsidae-Perkinsus marinus XP 002780561.1 Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Trypanosoma\_grayi\_XP\_009310453.1 ryota-Stramenopiles-Oomycetes-Saprolegniales-Saprolegniaceae-Saprolegnia\_diclina\_XP\_008611955.1 Eukaryota-Retaria-NA-NA-NA-Ammonia\_sp\_MMETSP1384\_c18598\_g1\_i1.p1 Eukaryota-Retaria-NA-NA-NA-Rosalina\_sp\_MMETSP0190\_c7148\_g1\_i1.p1 Eukaryota-Retaria-NA-NA-NA-Elphidium\_margaritaceum\_MMETSP1385\_c33720\_g1\_i1.p1 — Eukaryota-Rhodophyta-Bangiophyceae-NA-NA-Rhodella\_maculata\_MMETSP0314\_c3352\_g1\_i1.p1 Eukaryota-Rhodophyta-Bangiophyceae-NA-NA-Rhodosorus\_marinus\_MMETSP0011\_c4381\_g1\_i1.p1 Eukaryota-Rhodophyta-Bangiophyceae-Porphyridiales-Porphyridiaceae-Porphyridium\_purpureum\_4481.3 — Paulinella\_chromatophora\_CCAC0185\_nuclear\_\_\_scaffold18795-m106789 —— Paulinella\_chromatophora\_CCAC0185\_nuclear\_\_\_scaffold32880-m145463 Paulinella\_chromatophora\_CCAC0185\_nuclear\_\_\_scaffold4600-m42900 —— Eukaryota-Chlorophyta-NA-Pyramimonadales-NA-Pyramimonas parkeae MMETSP0058 c2703 g1 i1.p1 — Archaea-Euryarchaeota-Thermoplasmata-NA-NA-methanogenic\_archaeon\_ISO4H5\_WP\_066076851.1 — Bacteria-Actinobacteria-Actinobacteria-Catenulisporales-Actinospicaceae-Actinospica\_robiniae\_WP\_051450565.1 Bacteria-Actinobacteria-Actinobacteria-Streptosporangiales-Thermomonosporaceae-Actinomadura\_hibisca\_WP\_067478289.1 Bacteria-Actinobacteria-Actinobacteria-Streptosporangiales-Thermomonosporaceae-NA\_WP\_034521594.1 Eukaryota-Haptophyta-NA-Prymnesiales-NA-Prymnesium\_parvum\_MMETSP1083\_c11520\_g1\_i1.p2 Eukaryota-Haptophyta-NA-Isochrysidales-Noelaerhabdaceae-Emiliania\_huxleyi\_jgi461362 Eukaryota-Heterolobosea-NA-NA-NA-Percolomonas\_cosmopolitus\_MMETSP0759\_c497\_g1\_i1.p1 Eukaryota-Stramenopiles-NA-NA-NA-Phaeomonas\_parva\_MMETSP1163\_c915\_g1\_i2.p1 — Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Gymnodinium\_catenatum\_MMETSP0784\_c31728\_g1\_i1.p1 Eukaryota-Apicomplexa-Conoidasida-Eucoccidiorida-Sarcocystidae-Neospora\_caninum\_XP\_003884083.1 Eukaryota-Apicomplexa-Conoidasida-Eucoccidiorida-Sarcocystidae-Toxoplasma\_gondii\_XP\_018636107.1 Eukaryota-Mesomycetozoea-Ichthyosporea-Ichthyophonida-NA-Sphaeroforma\_arctica\_XP\_014151397.1 —— Bacteria-Firmicutes-Bacilli-Bacillales-Bacillaceae-Bacillus\_cavernae\_WP\_126867335.1 —— Bacteria-Firmicutes-Bacilli-Bacillales-Bacillaceae-Microbacterium\_sp.\_SLBN1\_WP\_142130366.1 Bacteria-Firmicutes-Bacilli-Bacillales-Bacillaceae-NA\_WP\_079532504.1 Eukaryota-Euglenida-NA-NA-Unranked-Neobodo\_designis\_MMETSP1114\_c43139\_g1\_i1.p1 — Bacteria-Thermotogae-Thermotogae-Kosmotogales-Kosmotogaceae-Mesotoga\_sp.\_H07pep.5.4\_WP\_121510639.1 ——— Eukaryota-Cryptophyta-NA-Goniomondales-NA-Goniomonas\_sp\_MMETSP0114\_c4173\_g1\_i1.p1 · Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Mayorella\_sp\_MMETSP0417\_c4389\_g1\_i1.p1 Eukaryota-Echinodermata-Echinoidea-Echinoida-Strongylocentrotidae-Strongylocentrotus\_purpuratus\_XP\_011666784.1 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TEukaryota-Chordata-Aves-Passeriformes-Fringillidae-Serinus\_canaria\_XP\_030091709.1 — Eukaryota-Echinodermata-Echinoidea-Echinoida-Strongylocentrotidae-Strongylocentrotus\_purpuratus\_XP\_011682913.1 ryota-Cnidaria-Anthozoa-Scleractinia-Pocilloporidae-Pocillopora\_damicornis\_XP\_027055785.1 ————— Eukaryota-Priapulida-Priapulimorpha-Priapulimorphida-Priapulidae-Priapulus\_caudatus\_XP\_014678782.1 - Eukaryota-Mollusca-Cephalopoda-Octopoda-Octopodidae-Octopus\_bimaculoides\_XP\_014771030.1 Eukaryota-Mollusca-Gastropoda-Aplysiida-Aplysiidae-Aplysia\_californica\_XP\_012943122.1 Bacteria-Proteobacteria-Alphaproteobacteria-Rhizobiales-NA-Hartmannibacter\_diazotrophicus\_WP\_099554895.1 ——— Bacteria-Proteobacteria-Alphaproteobacteria-Rhizobiales-NA-Methylobrevis\_pamukkalensis\_WP\_083255818.1 Bacteria-Proteobacteria-Alphaproteobacteria-Rhodobacterales-Rhodobacteraceae-Rhodovulum\_sp.\_MB263\_WP\_080616594.1 —— 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