Bacteria-NA-NA-NA-NA-bacterium\_JKG1\_WP\_029214713.1 Eukaryota-Acytosteliales-Acytosteliales-Acytosteliales-Acytosteliaceae-Acytostelium\_subglobosum\_XP\_012755643.1 — Eukaryota-Acytosteliales-Acytosteliales-Acytosteliales-Cavenderiaceae-Cavenderia fasciculata XP 004361697.1 ukaryota-Amoebozoa-NA-NA-Paramoebidae-Mayorella\_sp\_MMETSP0417\_c4575\_g2\_i1.p1 P100 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Stygamoeba\_regulata\_MMETSP0447\_c7087\_g1\_i3.p1 amoebidae-Acanthamoeba\_castellanii\_XP\_004341545.1 ——— Eukaryota-Ascomycota-Eurotiomycetes-Onygenales-Arthrodermataceae-Nannizzia gypsea XP 003176028.1 ——— Eukaryota-Ascomycota-Saccharomycetes-Saccharomycetales-Trichomonascaceae-Wickerhamiella\_sorbophila\_XP\_024666459.1 Eukarvota-Mucoromycota-Mucoromycetes-Mucorales-Rhizopodaceae-Rhizopus\_microsporus\_XP\_023466212.1 aryota-Rhodophyta-Bangiophyceae-Cyanidiales-Cyanidiaceae-Galdieria\_phlegrea\_GphlegSOOS\_G268.1 ıkaryota-Rhodophyta-Bangiophyceae-Porphyridiales-Porphyridiaceae-Porphyridium\_aerugineum\_MMETSP0313\_c3543\_g1\_i1.p1 ——— Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Karlodinium\_micrum\_MMETSP1015\_c2136\_g1\_i1.p1 Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Pelagodinium bii MMETSP1338\_c5148\_g1\_i1.p1 ukaryota-Stramenopiles-Dictyochophyceae-Dictyochales-NA-Dictyocha\_speculum\_MMETSP1174\_c9784\_g1\_i3.p1 Eukaryota-Stramenopiles-Eustigmatophyceae-Eustigmatales-Monodopsidaceae-Nannochloropsis\_gaditana\_XP\_005856017.1 Eukaryota-Arthropoda-Arachnida-Araneae-Theridiidae-Parasteatoda\_tepidariorum\_XP\_021003830.1 — Eukaryota-Nematoda-Chromadorea-Rhabditida-Rhabditidae-Caenorhabditis briggsae XP 002630114.1 —— Eukaryota-Nematoda-Chromadorea-Strongylida-Ancylostomatidae-Necator\_americanus\_XP\_013304238.1 Eukaryota-Brachiopoda-Lingulata-Lingulida-Lingulidae-Lingula\_anatina\_XP\_013406337.1 ——— Eukaryota-Mollusca-Bivalvia-Pectinoida-Pectinidae-Mizuhopecten yessoensis XP 021353567.1 —— Eukaryota-Placozoa-NA-NA-Trichoplacidae-Trichoplax\_adhaerens\_XP\_002115431.1 Eukaryota-Platyhelminthes-Trematoda-Strigeidida-Schistosomatidae-Schistosoma\_mansoni\_XP\_018650997.1 mata-Echinoidea-Echinoida-Strongylocentrotidae-Strongylocentrotus\_purpuratus\_XP\_011667092.1 Eukaryota-Apicomplexa-Aconoidasida-Piroplasmida-Babesiidae-Babesia ovata XP\_028867441.1 Eukaryota-Chromeraceae-NA-NA-NA-Chromera\_velia\_MMETSP0290\_c39538\_g1\_i1.p1 Eukaryota-Ciliophora-NA-Unranked-NA-Tiarina\_fusus\_MMETSP0472\_c113119\_g1\_i1.p2 Eukaryota-Cryptophyta-NA-Pyrenomonadales-Pyrenomonadaceae-Rhodomonas\_abbreviata\_MMETSP1101\_c8235\_g1\_i1.p1 Eukaryota-Cryptophyta-NA-Pyrenomonadales-Chroomonadaceae-Chroomonas\_mesostigmaticacf\_MMETSP0047\_c2648\_g1\_i1.p1 hoanoflagellata-Choanoflagellata-Choanoflagellata-Salpingoecidae-Monosiga brevicollis XP 001746804.1 ucophyta-Gloeochaetales-Gloeochaetaceae-Gloeochaete\_witrockiana\_MMETSP0308\_c36267\_g1\_i1.p1 - Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Gymnochlora\_sp\_MMETSP0110\_c9873\_g1\_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Lotharella\_globosa\_MMETSP0041\_c28248\_g1\_i1.p1 aryota-Ciliophora-NA-Unranked-NA-Litonotus\_pictus\_MMETSP0209\_c25776\_g1\_i1.p1 \_\_\_\_\_\_ Eukaryota-Heterolobosea-NA-NA-Vahlkampfiidae-Naegleria\_gruberi\_jgi74661 — Paulinella\_chromatophora\_CCAC0185\_nuclear\_\_\_scaffold13356-m86993 — Paulinella\_ovalis\_nuclear\_SingleCell\_\_\_SAG3\_contig02279.g1771.t1 -Kinetoplastida-Kinetoplastida-Trypanosomatidae-Leishmania donovani XP 003859742.1 Eukaryota-Retaria-NA-NA-NA-Elphidium\_margaritaceum\_MMETSP1385\_c14257\_g1\_i1.p1 — Eukaryota-Retaria-NA-NA-NA-Sorites\_sp\_MMETSP0191\_c25974\_g1\_i1.p1 Bacteria-Actinobacteria-Actinobacteria-Micrococcales-Microbacteriaceae-Humibacter\_sp.\_WJ71\_WP\_146319765.1 —— Bacteria-Actinobacteria-Actinobacteria-Micrococcales-Microbacteriaceae-Microbacterium\_sorbitolivorans\_WP\_114116734.1 — Bacteria-NA-NA-NA-NA WP 135891705.1 - Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Leptonema\_illini\_WP\_002772635.1 —— Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Leptospira\_noguchii\_WP\_004422071.1 — Bacteria-Acidobacteria-Acidobacteriia-Acidobacteriales-Acidobacteriaceae-Candidatus\_Sulfotelmatobacter\_kueseliae\_WP\_106807121.1 —— Bacteria-CandidatusKryptonia-NA-NA-NA-Candidatus\_Kryptonium\_thompsoni\_WP\_047133790.1 — Bacteria-Acidobacteria-Acidobacteriia-NA-NA-Acidobacteriia\_bacterium\_SbA2\_WP\_105313561.1 — Bacteria-Proteobacteria-Deltaproteobacteria-Desulfobacterales-Desulfobacteraceae-Desulfococcus\_multivorans\_WP\_020877465.1 - Bacteria-Proteobacteria-Deltaproteobacteria-Desulfobacterales-Desulfobulbaceae-Desulfopila\_sp.\_IMCC35006\_WP\_136815609.1 — Viruses-Phycodnaviridae-NA-NA-NA-Only\_Syngen\_Nebraska\_virus\_5\_YP\_009325590.1 —— Viruses-Phycodnaviridae-NA-NA-NA-Paramecium\_bursaria\_Chlorella\_virus\_1\_NP\_048517.1 Eukaryota-Chlorophyta-Nephroselmidophyceae-NA-NA-Nephroselmis pyriformis MMETSP0034 c31398 g1 i1.p1 treptophyta-Lycopodiopsida-Selaginellales-Selaginellaceae-Selaginella moellendorffii XP 002987333.2 - Eukaryota-Streptophyta-NA-Malpighiales-Euphorbiaceae-Hevea\_brasiliensis\_XP\_021642880.1 Eukaryota-Haptophyta-NA-Phaeocystales-Phaeocystaceae-Phaeocystis\_cordata\_MMETSP1465\_c5457\_g1\_i1.p1 - Paulinella\_chromatophora\_CCAC0185\_nuclear\_\_\_scaffold7938-m62292 — Bacteria-Chloroflexi-Thermomicrobia-Sphaerobacterales-Sphaerobacteraceae-Nitrolancea\_hollandica\_WP\_008476788.1 - Bacteria-Chloroflexi-Thermomicrobia-Sphaerobacterales-Sphaerobacteraceae-Sphaerobacter\_thermophilus\_WP\_148219949.1 Bacteria-Firmicutes-Bacilli-Bacillales-Alicyclobacillaceae-Effusibacillus\_pohliae\_WP\_018132396.1 — Bacteria-Firmicutes-Bacilli-Bacillales-Paenibacillaceae-Cohnella\_phaseoli\_WP\_116064660.1 Bacteria-Verrucomicrobia-Verrucomicrobiae-Verrucomicrobiales-Rubritaleaceae-Rubritalea\_marina\_WP\_018970309.1 — Archaea-NA-NA-NA-NA-anaerobic\_archaeon\_MKD1\_WP\_147664845.1 — Archaea-Euryarchaeota-Methanomicrobia-Methanocellales-Methanocellaceae-Methanocella\_paludicola\_WP\_012901741.1 Archaea-Euryarchaeota-Methanomicrobia-Methanosarcinales-CandidatusMethanoperedenaceae-Candidatus Methanoperedens nitroreducens WP 048088669.1 — Archaea-NA-NA-NA-NA-archaeon\_AArcSI\_WP\_119815301.1 ——— Bacteria-Bacteroidetes-Bacteroidia-Bacteroidales-Muribaculaceae-Duncaniella\_sp.\_TLLA3\_WP\_135470182.1 — Bacteria-Bacteroidetes-Bacteroidia-Bacteroidales-Prevotellaceae-Prevotella\_amnii\_WP\_008446953.1 Bacteria-Fusobacteria-Fusobacteriia-Fusobacteriales-Fusobacteriaceae-Fusobacterium\_necrophorum\_WP\_035933755.1 — Bacteria-Fusobacteria-Fusobacteriia-Fusobacteriales-Fusobacteriaceae-NA WP 008801762.1 - Bacteria-Planctomycetes-CandidatusBrocadiae-CandidatusBrocadiales-CandidatusBrocadiaceae-Candidatus\_Brocadiaceae\_bacterium\_B188\_WP\_146327244.1 — Archaea-CandidatusBathyarchaeota-NA-NA-NA-Candidatus Bathyarchaeota archaeon WP 116577612.1 — Archaea-CandidatusKorarchaeota-NA-NA-NA-Candidatus Methanodesulfokores washburnensis WP 125672971.1 — Archaea-Crenarchaeota-Thermoprotei-Acidilobales-Acidilobaceae-Acidilobus saccharovorans WP 048812820.1 — Archaea-Crenarchaeota-Thermoprotei-Sulfolobales-Sulfolobaceae-Sulfolobus sp. A20 WP 069282163.1 —— Archaea-Thaumarchaeota-NA-Nitrosopumilales-Nitrosopumilaceae-Nitrosopumilaceae\_archaeon\_WP\_129916769.1 — Archaea-Thaumarchaeota-Nitrososphaeria-Nitrososphaerales-Nitrososphaeraceae-Nitrososphaera\_viennensis\_WP\_075055150.1