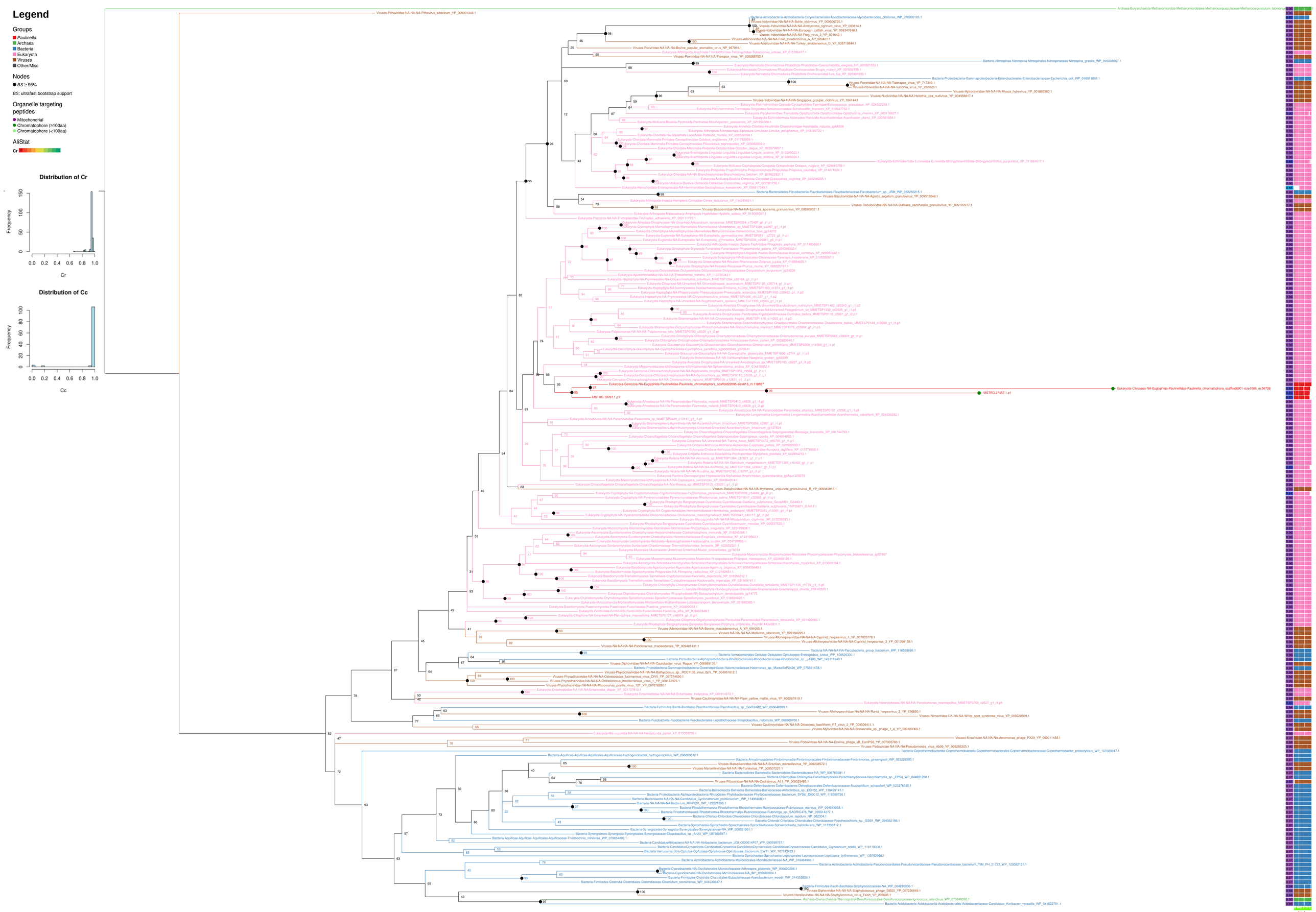
Legend
Groups
Paulinella
Archaea
Bacteria
Eukaryota
Viruses
Other/Misc
Nodes
BS ≥ 95%
BS: ultrafast bootstrap support
Organelle targeting peptides
Mitochondrial
Chromatophore (≥100aa)
Chromatophore (<100aa)
AliStat
Cr
Distribution of Cr
Frequency
Cr
Distribution of Cc
Frequency
Cc
Viruses-Pithoviridae-NA-NA-NA-Pithovirus_sibericum_YP_009001348.1
Archaea-Euryarchaeota-Methanomicrobia-Methanomicrobiales-Methanocorpusculaceae-Methanocorpusculum_labreanum_YP_003848036.1
Bacteria-Actinobacteria-Actinobacteria-Corynebacteriales-Mycobacteriaceae-Mycobacteroides_chelonae_WP_070930165.1
Viruses-Iridovirdae-NA-NA-NA-Bohle_iridovirus_YP_009506725.1
Viruses-Iridovirdae-NA-NA-NA-Ambystoma_tigrinum_virus_YP_003814.1
Viruses-Iridovirdae-NA-NA-NA-European_catfish_virus_YP_006347648.1
Viruses-Iridovirdae-NA-NA-NA-Frog_virus_3_YP_031642.1
Viruses-Adenoviridae-NA-NA-NA-Fowl_aviadenovirus_A_AP_000401.1
Viruses-Adenoviridae-NA-NA-NA-Turkey_aviadenovirus_D_YP_008719844.1
Viruses-Poxviridae-NA-NA-NA-Bovine_papular_stomatitis_virus_NP_957916.1
Eukaryota-Arthropoda-Arachnida-Trombidiformes-Tetranychidae-Tetranychus_urticae_XP_015786477.1
Viruses-Poxviridae-NA-NA-NA-Pteropox_virus_YP_009268752.1
Bacteria-Nitrospinae-Nitrospinia-Nitrospinales-Nitrospinaceae-Nitrospina_gracilis_WP_005008667.1
Eukaryota-Nematoda-Chromadorea-Rhabditida-Rhabditidae-Caenorhabditis_elegans_NP_001021553.1
Eukaryota-Nematoda-Chromadorea-Rhabditida-Onchocercidae-Brugia_malayi_XP_001892198.1
Eukaryota-Nematoda-Chromadorea-Rhabditida-Onchocercidae-Loa_loa_XP_020301222.1
Bacteria-Proteobacteria-Gammaproteobacteria-Enterobacterales-Enterobacteriaceae-Escherichia_coli_WP_016011068.1
Viruses-Poxviridae-NA-NA-NA-Taterapox_virus_YP_717349.1
Viruses-Poxviridae-NA-NA-NA-Vaccinia_virus_YP_232923.1
Viruses-Hytrosaviridae-NA-NA-NA-Musca_hytrovirus_YP_001883380.1
Viruses-Nudiviridae-NA-NA-NA-Heliothis_zea_nudivirus_YP_004956817.1
Viruses-Iridoviridae-NA-NA-NA-Singapore_grouper_iridovirus_YP_164144.1
Eukaryota-Platyhelminthes-Cestoda-Cyclophyllidea-Taeniidae-Echinococcus_granulosus_XP_024352239.1
Eukaryota-Platyhelminthes-Trematoda-Strigeidida-Schistosomatidae-Schistosoma_mansoni_XP_018647752.1
Eukaryota-Platyhelminthes-Trematoda-Opisthorchiidae-Opisthorchis_viverrini_XP_009176627.1
Eukaryota-Echinodermata-Asteroidea-Valvatida-Acanthasteridae-Acanthaster_planci_XP_022081958.1
Eukaryota-Mollusca-Bivalvia-Pectinoida-Pectinidae-Mizuhopecten_yessoensis_XP_021354568.1
Eukaryota-Annelida-Clitellata-Hirudinida-Glossiphoniidae-Helobdella_robusta_jgi68339
Eukaryota-Arthropoda-Merostomata-Xiphosura-Limulidae-Limulus_polyphemus_XP_013789722.1
Eukaryota-Chordata-NA-Squamata-Lacertidae-Podarcis_muralis_XP_028562098.1
Eukaryota-Chordata-Mammalia-Primates-Cercopithecidae-Colobus_angolensis_XP_011783959.1
Eukaryota-Chordata-Mammalia-Primates-Cercopithecidae-Piliocolobus_tephrosceles_XP_023062939.2
Eukaryota-Chordata-Mammalia-Rodentia-Octodontidae-Octodon_degus_XP_023579857.1
Eukaryota-Brachiopoda-Lingulata-Lingulida-Lingulidae-Lingula_anatina_XP_013385023.1
Eukaryota-Brachiopoda-Lingulata-Lingulida-Lingulidae-Lingula_anatina_XP_013385024.1
Eukaryota-Echinodermata-Echinoidea-Echinoida-Strongylocentrotidae-Strongylocentrotus_purpuratus_XP_011661617.1
Eukaryota-Mollusca-Cephalopoda-Octopoda-Octopodidae-Octopus_vulgaris_XP_029645759.1
Eukaryota-Prapulida-Priapulimorpha-Priapulimorphida-Priapulidae-Priapulus_caudatus_XP_014471624.1
Eukaryota-Chordata-NA-NA-Branchiostomidae-Branchiostoma_belcheri_XP_019622821.1
Eukaryota-Mollusca-Bivalvia-Ostreoida-Ostreidae-Crassostrea_virginica_XP_022296205.1
Eukaryota-Mollusca-Bivalvia-Ostreoida-Ostreidae-Crassostrea_virginica_XP_022301756.1
Eukaryota-Hemichordata-Enteropneusta-NA-Harrimaniidae-Saccoglossus_kowalevskii_XP_006817345.1
Bacteria-Bacteroidetes-Flavobacteriia-Flavobacteriales-Flavobacteriaceae-Flavobacterium_sp._JRM_WP_052250215.1
Viruses-Baculoviridae-NA-NA-NA-Agrotis_segetum_granulovirus_YP_009513048.1
Eukaryota-Arthropoda-Insecta-Hemiptera-Cimicidae-Cimex_lectularius_XP_014245631.1
Viruses-Baculoviridae-NA-NA-NA-Diatraea_saccharalis_granulovirus_YP_009182277.1
Viruses-Baculoviridae-NA-NA-NA-Epinotia_aporema_granulovirus_YP_006908521.1
Eukaryota-Arthropoda-Malacostraca-Amphipoda-Hyalellidae-Hyalella_azteca_XP_018006367.1
Eukaryota-Placozoa-NA-NA-Trichoplacidae-Trichoplax_adhaerens_XP_002111770.1
Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Alexandrium_tamarense_MMETSP0384_c75407_g1_i1.p1
Eukaryota-Chlorophyta-Mamiellophyceae-Mamiellales-Mamiellaceae-Micromonas_sp_MMETSP1084_c2267_g1_i1.p1
Eukaryota-Chlorophyta-Mamiellophyceae-Mamiellales-Bathycoccaceae-Ostreococcus_lauri_jgi14272
Eukaryota-Euglenida-NA-Eutreptiales-NA-Eutreptiella_gymnastica-like_MMETSP0811_c2723_g1_i1.p1
Eukaryota-Euglenida-NA-Eutreptiales-NA-Eutreptiella_gymnastica_MMETSP0039_c25810_g5_i1.p1
Eukaryota-Arthropoda-Insecta-Diptera-Tephritidae-Rhagoletis_zephyria_XP_017455890.1
Eukaryota-Streptophyta-Bryopsida-Funariales-Funariaceae-Physcomitrella_patens_XP_024398032.1
Eukaryota-Streptophyta-Liliopsida-Poales-Bromeliaceae-Ananas_comosus_XP_020087642.1
Eukaryota-Streptophyta-NA-Brassicales-Cleomaceae-Tarenaya_hassleriana_XP_010539067.1
Eukaryota-Streptophyta-NA-Rosales-Rhamnaceae-Ziziphus_jujuba_XP_015884626.1
Eukaryota-Streptophyta-NA-Rosales-Rosaceae-Prunus_mume_XP_008220787.1
Eukaryota-Dictyostelidea-Dictyostelales-Dictyostelaceae-Dictyostelium_purpureum_gjs39209
Eukaryota-Apusomonadidae-NA-NA-NA-Thecamonas_trahens_XP_013755343.1
Eukaryota-Haptophyta-NA-Prymnesiales-NA-Chrysochromulina_brevilimum_MMETSP1094_c50164_g1_i1.p1
Eukaryota-Ciliophora-NA-Unranked-NA-Strombidinopsis_acuminatum_MMETSP0126_c38714_g1_i1.p1
Eukaryota-Haptophyta-NA-Isochrysidales-Noelaerhabdaceae-Emiliania_huxleyi_MMETSP1150_c16714_g1_i1.p1
Eukaryota-Haptophyta-NA-Phaeocystales-Phaeocystaceae-Phaeocystis_antarctica_MMETSP1100_c38463_g1_i1.p2
Eukaryota-Haptophyta-NA-Prymnesiales-NA-Chrysochromulina_ericina_MMETSP1096_c61337_g1_i1.p2
Eukaryota-Haptophyta-NA-Unranked-NA-Scyphosphaera_apsteinii_MMETSP1333_c2663_g1_i1.p1
Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Brandodinium_nutriculum_MMETSP1462_c83242_g1_i1.p2
Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Pelagodinium_bii_MMETSP1338_c43325_g1_i1.p1
Eukaryota-Alveolata-Dinophyceae-Peridiniales-Kryptoperidiniaceae-Durinskia_baltica_MMETSP0116_c5951_g1_i2.p1
Eukaryota-Stramenopiles-NA-NA-NA-Chrysocystis_fragilis_MMETSP1165_c14303_g1_i1.p2
Eukaryota-Stramenopiles-Coscinodiscophyceae-Chaetoceratales-Chaetocerotaceae-Chaetoceros_debilis_MMETSP0149_c13098_g1_i1.p1
Eukaryota-Stramenopiles-Dictyochophyceae-Rhizochromulinales-NA-Rhizochromulina_marinadf_MMETSP1172_c30894_g1_i1.p1
Eukaryota-Palpitomonas-NA-NA-NA-Palpitomonas_bilix_MMETSP0780_c6528_g1_i2.p1
Eukaryota-Chlorophyta-Chlorophyceae-Chlamydomonadales-Chlamydomonadaceae-Chlamydomonas_euryale_MMETSP0063_c38001_g1_i1.p1
Eukaryota-Chlorophyta-Chlorophyceae-Chlamydomonadales-Volvocaceae-Volvox_carteri_XP_002953846.1
Eukaryota-Glaucophyta-Glaucophyta-NA-Cyanophoraceae-Cyanophora_paradoxa_tig00000949_g5735.t1
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Eukaryota-Glaucophyta-Glaucophyta-Gloeochaetales-Gloeochaetaceae-Gloeochaete_witrockiana_MMETSP0306_c14368_g1_i1.p1
Eukaryota-Heterolobosea-NA-NA-NA-Vahlkampfiidae-Naegleria_gruberi_jgi69330
Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Amoebophrya_sp_MMETSP0795_c9207_g1_i1.p2
Eukaryota-Mesomycetozoea-Ichthyosporea-Ichthyophonida-NA-Sphaeroforma_arctica_XP_014159882.1
Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Bigelowiella_longifila_MMETSP1359_c8564_g1_i1.p1
Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Gymnochlora_sp_MMETSP0110_c5026_g1_i1.p1
Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Chlorarachnion_reptans_MMETSP0109_c12831_g1_i1.p1
Eukaryota-Cercozoa-NA-Euglyphida-Paulinellidae-Paulinella_chromatophora_scaffold2695-size616_m.118837
Eukaryota-Cercozoa-NA-Euglyphida-Paulinellidae-Paulinella_chromatophora_scaffold6901-size1606_m.56738
MSTRG.27457.1.p1
MSTRG.19767.1.p1
Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Filamoeba_nolandi_MMETSP0413_c6826_g1_i1.p1
Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Filamoeba_nolandi_MMETSP0413_c6826_g1_i2.p1
Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Paramoeba_atlantica_MMETSP0151_c5006_g1_i1.p1
Eukaryota-Longamoebia-Longamoebia-Longamoebia-Acanthamoeba-Acanthamoeba_castellanii_XP_004336282.1
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Eukaryota-Stramenopiles-Labyrinthista-NA-NA-Aurantiochytrium_limacinum_MMETSP0959_c2887_g1_i1.p1
Eukaryota-Stramenopiles-Labyrinthulomycetes-Unranked-Unranked-Aurantiochytrium_limacinum_jgi137824
Eukaryota-Choanoflagellata-Choanoflagellata-Choanoflagellata-Salpingoecidae-Monosiga_brevicollis_XP_001744793.1
Eukaryota-Choanoflagellata-Choanoflagellata-Choanoflagellata-Salpingoeca-Salpingoeca_rosetta_XP_004994825.1
Eukaryota-Ciliophora-NA-Unranked-NA-Tiarina_fusus_MMETSP0472_c86795_g1_i1.p1
Eukaryota-Cnidaria-Anthozoa-Actiniaria-Aiptasiidae-Exaiptasia_pallida_XP_020900560.1
Eukaryota-Cnidaria-Anthozoa-Scleractinia-Acroporidae-Acropora_digitifera_XP_015779955.1
Eukaryota-Cnidaria-Anthozoa-Scleractinia-Pociloporidae-Stylophora_pistillata_XP_022804212.1
Eukaryota-Retaria-NA-NA-NA-Ammonia_sp_MMETSP1384_c10821_g1_i1.p1
Eukaryota-Retaria-NA-NA-NA-Elphidium_margaritaceum_MMETSP1385_c10400_g1_i1.p1
Eukaryota-Retaria-NA-NA-NA-Ammonia_sp_MMETSP1384_c28547_g1_i1.p1
Eukaryota-Retaria-NA-NA-NA-Rosalina_sp_MMETSP0190_c18707_g1_i1.p1
Eukaryota-Porifera-Demospongiae-Haplosclerida-Niphatidae-Amphimedon_queensland1ca_jgiAqu1229273
Eukaryota-Mesomycetozoea-Ichthyosporea-NA-NA-Capsaspora_owczarzaki_XP_004364204.1
Eukaryota-Choanoflagellata-Choanoflagellata-Choanoflagellata-NA-Acanthoeca_sp_MMETSP0105_c30051_g1_i1.p1
Viruses-Baculoviridae-NA-NA-NA-Mythimna_unipuncta_granulovirus_B_YP_009345816.1
Eukaryota-Cryptophyta-NA-Cryptomonadales-Cryptomonadaceae-Cryptomonas_paramecium_MMETSP0038_c34566_g1_i1.p1
Eukaryota-Cryptophyta-NA-Pyrenomonadales-Pyrenomonadaceae-Rhodomonas_salina_MMETSP1047_c32865_g1_i1.p1
Eukaryota-Rhodophyta-Bangiophyceae-Cyanidiales-Cyanidiaceae-Galdieria_sulphuraria_GaulpM51_05400.1
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Eukaryota-Cryptophyta-NA-Cryptomonadales-Hemiselmidaceae-Hemiselmis_andersenii_MMETSP0043_c10051_g1_i1.p1
Eukaryota-Cryptophyta-NA-Pyrenomonadales-Chroomonadaceae-Chroomonas_mesostigmatica cf_MMETSP0047_c45111_g1_i1.p2
Eukaryota-Microsporidia-NA-NA-NA-Nosporidium_daphniae_XP_013238033.1
Eukaryota-Rhodophyta-Bangiophyceae-Cyanidiales-Cyanidiaceae-Cyanidioschyzon_merolae_XP_005537533.1
Eukaryota-Mucoromycota-Glomeromycetes-Glomerales-Glomeraceae-Rhizophagus_irregularis_XP_025178938.1
Eukaryota-Ascomycota-Eurotiomycetes-Chaetothyriales-Herpotrichiellaceae-Cladophialophora_immunda_XP_016245566.1
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Eukaryota-Ascomycota-Leotiomycetes-Helotiales-Hyaloscyphaceae-Hyaloscypha_bicolor_XP_024728855.1
Eukaryota-Ascomycota-Sordariomycetes-Sordariales-Chaetomiaceae-Thermothielavioides_terrestris_XP_003652321.1
Eukaryota-Mucorales-Mucoraceae-Undefined-Undefined-Mucor_circinelloides_jgi78014
Eukaryota-Mucoromycota-Mucoromycetes-Mucorales-Phycomycetaceae-Phycomyces_blakesleeanus_jgi57807
Eukaryota-Mucoromycota-Mucoromycetes-Mucorales-Rhizopodaceae-Rhizopus_microsporus_XP_023469126.1
Eukaryota-Ascomycota-Schizosaccharomycetes-Schizosaccharomycetales-Schizosaccharomycetaceae-Schizosaccharomyces_cryophilus_XP_013022334.1
Eukaryota-Basidiomycota-Agaricomycetes-Agaricales-Agaricaceae-Agaricus_bisporus_XP_006459948.1
Eukaryota-Basidiomycota-Agaricomycetes-Polyporales-NA-Fibroporia_radiculosa_XP_012182651.1
Eukaryota-Basidiomycota-Tremellomycetes-Tremellales-Cryptococcaceae-Kwoniella_dejecticola_XP_018356312.1
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Eukaryota-Mucoromycota-Mortierellomycetes-Mortierellales-Mortierellaceae-Lobosporangium_transversale_XP_021882385.1
Eukaryota-Basidiomycota-Pucciniomycetes-Pucciniales-Pucciniaceae-Puccinia_graminis_XP_003890053.1
Eukaryota-Fonticulida-Fonticulida-Fonticulaceae-Fonticula_alba_XP_009497849.1
Eukaryota-Ciliophora-NA-Unranked-NA-Platyophrya_macrostoma_MMETSP0127_c16974_g1_i1.p1
Eukaryota-Ciliophora-Oligohymenophorea-Peniculida-Parameciidae-Paramecium_tetraurelia_XP_001460083.1
Eukaryota-Rhodophyta-Bangiophyceae-Bangiales-Bangiaceae-Porphyra_umbilicalis_Pumb144340001.1
Viruses-Adenoviridae-NA-NA-NA-Bovine_mastadenovirus_A_YP_094055.1
Viruses-NA-NA-NA-NA-Mollivirus_sibericum_YP_009164995.1
Viruses-Alloherpesviridae-NA-NA-NA-Cyprinid_herpesvirus_1_YP_007003778.1
Viruses-Alloherpesviridae-NA-NA-NA-Cyprinid_herpesvirus_3_YP_001096158.1
Viruses-NA-NA-NA-NA-Pandoravirus_macleodensis_YP_009481431.1
Bacteria-NA-NA-NA-NA-Parcubacteria_group_bacterium_WP_116593686.1
Bacteria-Verrucomicrobia-Opitutae-Opitutales-Opitutaceae-Erebogbatus_luteus_WP_108826330.1
Bacteria-Proteobacteria-Alphaproteobacteria-Rhodobacterales-Rhodobacteraceae-Rhodobacter_sp._JA983_WP_145111943.1
Viruses-Siphoviridae-NA-NA-NA-Caulobacter_virus_Rogue_YP_006989136.1
Bacteria-Proteobacteria-Gammaproteobacteria-Oceanospirillales-Halomonadaceae-Halomonas_sp._MarsellePZ426_WP_075881478.1
Viruses-Phycodnaviridae-NA-NA-NA-Bathycoccus_sp._RCC1105_virus_BpV_YP_004061612.1
Viruses-Phycodnaviridae-NA-NA-NA-Ostreococcus_lucimarinus_virus_OlV5_YP_007674690.1
Viruses-Phycodnaviridae-NA-NA-NA-Ostreococcus_mediterraneus_virus_1_YP_009172976.1
Viruses-Phycodnaviridae-NA-NA-NA-Micromonas_pusilla_virus_12T_YP_007676280.1
Eukaryota-Entamoebidae-NA-NA-NA-Entamoeba_dispar_XP_001737913.1
Eukaryota-Entamoebidae-NA-NA-NA-Entamoeba_histolytica_XP_001914572.1
Viruses-Caulimoviridae-NA-NA-NA-Piper_yellow_mottle_virus_YP_008567619.1
Eukaryota-Heterolobosea-NA-NA-NA-Percolomonas_cosmopolitus_MMETSP0758_c29527_g1_i1.p1
Bacteria-Firmicutes-Bacilli-Bacillales-Paenibacillaceae-Paenibacillus_sp._Soil724D2_WP_060648989.1
Viruses-Alloherpesviridae-NA-NA-NA-Ranid_herpesvirus_2_YP_656650.1
Viruses-Nimaviridae-NA-NA-NA-White_spot_syndrome_virus_YP_009220509.1
Bacteria-Fusobacteria-Fusobacteria-Fusobacteriales-Leptotrichiaceae-Streptobacillus_notomytis_WP_066900700.1
Viruses-Caulimoviridae-NA-NA-NA-Dioscorea_bacilliform_RT_virus_2_YP_009508411.1
Viruses-Myoviridae-NA-NA-NA-Shewanella_sp._phage_1_4_YP_009100365.1
Eukaryota-Microsporidia-NA-NA-NA-Nematocida_parisii_XP_013059236.1
Viruses-Myoviridae-NA-NA-NA-Aeromonas_phage_PX29_YP_009011438.1
Viruses-Podoviridae-NA-NA-NA-Erwinia_phage_vB_EamP56_YP_007005783.1
Viruses-Podoviridae-NA-NA-NA-Pseudomonas_virus_Ab09_YP_009286305.1
Bacteria-Coprothermobacterota-Coprothermobacteria-Coprothermobacterales-Coprothermobacteraceae-Coprothermobacter_proteolyticus_WP_107689947.1
Bacteria-Aquificae-Aquificae-Aquificales-Aquificaceae-Hydrogenobacter_hydrogenophilus_WP_096600672.1
Bacteria-Armatimonadetes-Fimbriimonadia-Fimbriimonadales-Fimbriimonadaceae-Fimbriimonas_ginsengisoil_WP_025226593.1
Viruses-Marseilleviridae-NA-NA-NA-Brazilian_marseillevirus_YP_009238572.1
Viruses-Marseilleviridae-NA-NA-NA-Tunisvirus_YP_009507221.1
Bacteria-Bacteroidetes-Bacteroidia-Bacteroidales-Bacteroidaceae-NA_WP_008768581.1
Bacteria-Chlamydiae-Chlamydia-Parachlamydiales-Parachlamydiaceae-Neochlamydia_sp._EPS4_WP_044881258.1
Viruses-Pithoviridae-NA-NA-NA-Cedravirus_A11_YP_009329485.1
Bacteria-Deferribacteres-Deferribacteres-Deferribacteraceae-Mucispirillum_schaedleri_WP_023276735.1
Bacteria-Balneolaeota-Balneola-Balneolales-Balneolaceae-Alkalibacillus_sp._ECH52_WP_138429141.1
Bacteria-Proteobacteria-Alphaproteobacteria-Rhizobiales-Phyllobacteriaceae-Phyllobacteriaceae_bacterium_SYSU_D60012_WP_119388730.1
Bacteria-Balneolaeota-NA-NA-NA-Candidatus_Cyclonatronum_proteinivorum_WP_114984680.1
Bacteria-NA-NA-NA-NA-NA-bacterium_RIFOP01_WP_129221898.1
Bacteria-Rhodothermaeota-Rhodothermia-Rhodothermales-Rubrococcaceae-Rubrococcus_marinus_WP_094548058.1
Bacteria-Rhodothermaeota-Rhodothermia-Rhodothermales-Rubrococcaceae-Rubrivirga_sp._SAORIC476_WP_095514377.1
Bacteria-Chlorobi-Chlorobia-Chlorobiales-Chlorobiaceae-Chlorobaculum_tepidum_NP_662304.1
Bacteria-Chlorobi-Chlorobia-Chlorobiales-Chlorobiaceae-Prosthecochloris_sp._GSB1_WP_094082166.1
Bacteria-Spirochaetes-Spirochaetia-Spirochaetales-Spirochaetaceae-Spirochaeta_halotolerans_WP_117230712.1
Bacteria-Synergistetes-Synergistia-Synergistales-Synergistaceae-NA_WP_008521061.1
Bacteria-Synergistetes-Synergistia-Synergistales-Synergistaceae-Cloacibacillus_sp._Ar23_WP_087368597.1
Bacteria-Aquificae-Aquificae-Aquificales-Aquificaceae-Thermocrinis_minervae_WP_079654493.1
Bacteria-CandidatusAthlabacteria-NA-NA-NA-Atribacteria_bacterium_JGI_0000014F07_WP_090599787.1
Bacteria-CandidatusCryoserticota-CandidatusCryoserticia-CandidatusCryoserticales-CandidatusCryoserticaceae-Candidatus_Cryoserticum_odellii_WP_119119308.1
Bacteria-Verrucomicrobia-Opitutae-Opitutales-Opitutaceae-Opitutaceae_bacterium_EW11_WP_107743423.1
Bacteria-Spirochaetes-Spirochaetia-Leptospirales-Leptospiraceae-Leptospira_kyithenensis_WP_135762960.1
Bacteria-Actinobacteria-Actinobacteria-Micrococcales-Micrococcaceae-NA_WP_016464988.1
Bacteria-Actinobacteria-Actinobacteria-Pseudonocardiales-Pseudonocardiaceae-Pseudonocardiaceae_bacterium_YIM_PH_21723_WP_120082151.1
Bacteria-Cyanobacteria-NA-Oscillatoriales-Microcoleaceae-Arthrospira_platensis_WP_006620208.1
Bacteria-Cyanobacteria-NA-Oscillatoriales-Microcoleaceae-NA_WP_006568904.1
Bacteria-Firmicutes-Clostridia-Clostridiales-Eubacteriaceae-Acetobacterium_woodii_WP_014355829.1
Bacteria-Firmicutes-Clostridia-Clostridiales-Clostridiaceae-Clostridium_borrimense_WP_044039347.1
Bacteria-Firmicutes-Bacilli-Bacillales-Staphylococcaceae-NA_WP_064210306.1
Viruses-Siphoviridae-NA-NA-NA-Staphylococcus_phage_SB20_YP_007236649.1
Viruses-Herelleviridae-NA-NA-NA-Staphylococcus_virus_Twort_YP_238696.1
Archaea-Crenarchaeota-Thermoprotei-Desulfurococcales-Desulfurococcaceae-Ignicoccus_islandicus_WP_075049350.1
Bacteria-Acidobacteria-Acidobacteria-Acidobacteriales-Acidobacteriaceae-Candidatus_Koribacter_versatilis_WP_011522781.1