Classifier: RDP Naive Bayesian rRNA Classifier Version 2.11, September 2015

Taxonomical Hierarchy: RDP 16S rRNA training set 16

Query File: classifier\_seq\_upload3818682272787877270.FASTA

Submit Date: Tue Mar 20 06:00:16 EDT 2018

Confidence threshold: 80%

CopyNumber Adjusted: no

rootrank Root 1

unclassified\_Root 0

domain Bacteria 1

unclassified\_Bacteria 0

phylum BRC1 0

unclassified\_BRC1 0

genus BRC1\_genera\_incertae\_sedis 0

phylum "Deferribacteres" 0

unclassified\_"Deferribacteres" 0

class Deferribacteres 0

unclassified\_Deferribacteres 0

order Deferribacterales 0

unclassified\_Deferribacterales 0

family Deferribacterales\_incertae\_sedis 0

unclassified\_Deferribacterales\_incertae\_sedis 0

genus Caldithrix 0

family Deferribacteraceae 0

unclassified\_Deferribacteraceae 0

genus Mucispirillum 0

genus Calditerrivibrio 0

genus Geovibrio 0

genus Seleniivibrio 0

genus Deferribacter 0

genus Flexistipes 0

genus Denitrovibrio 0

phylum "Fusobacteria" 0

unclassified\_"Fusobacteria" 0

class Fusobacteriia 0

unclassified\_Fusobacteriia 0

order "Fusobacteriales" 0

unclassified\_"Fusobacteriales" 0

family "Leptotrichiaceae" 0

unclassified\_"Leptotrichiaceae" 0

genus Streptobacillus 0

genus Leptotrichia 0

genus Sneathia 0

genus Sebaldella 0

family "Fusobacteriaceae" 0

unclassified\_"Fusobacteriaceae" 0

genus Cetobacterium 0

genus Psychrilyobacter 0

genus Fusobacterium 0

genus Propionigenium 0

genus Ilyobacter 0

phylum candidate division ZB3 0

unclassified\_candidate division ZB3 0

genus ZB3\_genera\_incertae\_sedis 0

phylum "Caldiserica" 0

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class Caldisericia 0

unclassified\_Caldisericia 0

order Caldisericales 0

unclassified\_Caldisericales 0

family Caldisericaceae 0

unclassified\_Caldisericaceae 0

genus Caldisericum 0

phylum "Actinobacteria" 0

unclassified\_"Actinobacteria" 0

class Thermoleophilia 0

unclassified\_Thermoleophilia 0

order Thermoleophilales 0

unclassified\_Thermoleophilales 0

family Thermoleophilaceae 0

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genus Thermoleophilum 0

class Actinobacteria 0

unclassified\_Actinobacteria 0

subclass Acidimicrobidae 0

unclassified\_Acidimicrobidae 0

order Acidimicrobiales 0

unclassified\_Acidimicrobiales 0

suborder "Acidimicrobineae" 0

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family "Acidimicrobineae"\_incertae\_sedis 0

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family Acidimicrobiaceae 0

unclassified\_Acidimicrobiaceae 0

genus Ilumatobacter 0

genus Acidimicrobium 0

genus Ferrimicrobium 0

genus Ferrithrix 0

family Iamiaceae 0

unclassified\_Iamiaceae 0

genus Aquihabitans 0

genus Iamia 0

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unclassified\_Nitriliruptoridae 0

order Nitriliruptorales 0

unclassified\_Nitriliruptorales 0

family Nitriliruptoraceae 0

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genus Nitriliruptor 0

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genus Euzebya 0

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unclassified\_Solirubrobacteraceae 0

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unclassified\_Actinobacteridae 0

order Actinomycetales 0

unclassified\_Actinomycetales 0

suborder Streptosporangineae 0

unclassified\_Streptosporangineae 0

family Streptosporangiaceae 0

unclassified\_Streptosporangiaceae 0

genus Thermocatellispora 0

genus Microbispora 0

genus Planobispora 0

genus Thermopolyspora 0

genus Streptosporangium 0

genus Acrocarpospora 0

genus Herbidospora 0

genus Thermoactinospora 0

genus Sphaerisporangium 0

genus Planotetraspora 0

genus Planomonospora 0

genus Microtetraspora 0

genus Nonomuraea 0

genus Allonocardiopsis 0

family Thermomonosporaceae 0

unclassified\_Thermomonosporaceae 0

genus Actinomadura 0

genus Actinocorallia 0

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genus Actinoallomurus 0

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genus Sinosporangium 0

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unclassified\_Nocardiopsaceae 0

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genus Salinactinospora 0

genus Allosalinactinospora 0

genus Nocardiopsis 0

genus Haloactinospora 0

genus Thermobifida 0

genus Marinactinospora 0

suborder Catenulisporineae 0

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family Actinospicaceae 0

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genus Catenulispora 0

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family Pseudonocardiaceae 0

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genus Prauserella 0

genus Crossiella 0

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genus Allokutzneria 0

genus Thermotunica 0

genus Streptoalloteichus 0

genus Actinomycetospora 0

genus Saccharomonospora 0

genus Lentzea 0

genus Actinokineospora 0

genus Lechevalieria 0

genus Yuhushiella 0

genus Actinophytocola 0

genus Goodfellowiella 0

genus Thermocrispum 0

genus Thermobispora 0

genus Pseudonocardia 0

genus Sciscionella 0

genus Labedaea 0

genus Haloechinothrix 0

genus Saccharothrix 0

genus Saccharopolyspora 0

genus Longimycelium 0

genus Umezawaea 0

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genus Tetrasphaera 0

genus Fodinibacter 0

genus Oryzihumus 0

genus Intrasporangium 0

genus Terrabacter 0

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genus Lapillicoccus 0

genus Serinicoccus 0

genus Marihabitans 0

genus Terracoccus 0

genus Aquipuribacter 0

genus Ornithinibacter 0

genus Janibacter 0

genus Ornithinicoccus 0

genus Ornithinimicrobium 0

genus Kribbia 0

genus Phycicoccus 0

genus Humibacillus 0

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genus Nesterenkonia 0

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genus Zhihengliuella 0

genus Citricoccus 0

genus Rothia 0

genus Acaricomes 0

genus Yaniella 0

genus Tersicoccus 0

genus Enteractinococcus 0

genus Garicola 0

genus Micrococcus 0

genus Arthrobacter 0

genus Auritidibacter 0

family Promicromonosporaceae 0

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genus Xylanimicrobium 0

genus Xylanibacterium 0

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genus Kineosphaera 0

genus Piscicoccus 0

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genus Bogoriella 0

genus Georgenia 0

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genus Paraoerskovia 0

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genus Zimmermannella 0

genus Microterricola 0

genus Canibacter 0

genus Galbitalea 0

genus Diaminobutyricimonas 0

genus Herbiconiux 0

genus Alpinimonas 0

genus Naasia 0

genus Gryllotalpicola 0

genus Cryobacterium 0

genus Subtercola 0

genus Agromyces 0

genus Clavibacter 0

genus Curtobacterium 0

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genus Leifsonia 0

genus Frondihabitans 0

genus Yonghaparkia 0

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genus Mumia 0

genus Actinopolymorpha 0

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genus Marmoricola 0

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genus Propionicimonas 0

genus Propioniciclava 0

genus Tessaracoccus 0

genus Granulicoccus 0

genus Propionibacterium 0

genus Auraticoccus 0

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genus Millisia 0

genus Nocardia 0

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genus Corynebacterium 0

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genus Virgisporangium 0

genus Actinocatenispora 0

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genus Spirilliplanes 0

genus Phytomonospora 0

genus Polymorphospora 0

genus Phytohabitans 0

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genus Verrucosispora 0

genus Salinispora 0

genus Luedemannella 0

genus Longispora 0

genus Plantactinospora 0

genus Asanoa 0

genus Rugosimonospora 0

genus Couchioplanes 0

genus Catenuloplanes 0

genus Allocatelliglobosispora 0

genus Planosporangium 0

genus Xiangella 0

genus Pilimelia 0

genus Catelliglobosispora 0

genus Hamadaea 0

genus Krasilnikovia 0

genus Pseudosporangium 0

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unclassified\_Bifidobacteriales 0

family Bifidobacteriaceae 0

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genus Alloscardovia 0

genus Scardovia 0

genus Bombiscardovia 0

genus Pseudoscardovia 0

genus Gardnerella 0

genus Aeriscardovia 0

genus Bifidobacterium 0

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order Coriobacteriales 0

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unclassified\_"Coriobacterineae" 0

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genus Atopobium 0

genus Senegalimassilia 0

genus Parvibacter 0

genus Enterorhabdus 0

genus Asaccharobacter 0

genus Olsenella 0

genus Collinsella 0

genus Adlercreutzia 0

genus Cryptobacterium 0

genus Eggerthella 0

genus Coriobacterium 0

phylum Candidatus Calescamantes 0

unclassified\_Candidatus Calescamantes 0

genus Candidatus Calescibacterium 0

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unclassified\_"Spirochaetes" 0

class Spirochaetia 0

unclassified\_Spirochaetia 0

order Spirochaetales 0

unclassified\_Spirochaetales 0

family Spirochaetaceae 0

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genus Brachyspira 0

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unclassified\_Spirochaetales\_incertae\_sedis 0

genus Exilispira 0

family "Brevinemataceae" 0

unclassified\_"Brevinemataceae" 0

genus Brevinema 0

family Leptospiraceae 0

unclassified\_Leptospiraceae 0

genus Leptospira 0

genus Turneriella 0

genus Leptonema 0

phylum Omnitrophica 0

unclassified\_Omnitrophica 0

genus Omnitrophica\_genera\_incertae\_sedis 0

phylum Latescibacteria 0

unclassified\_Latescibacteria 0

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unclassified\_Cytophagia 0

order Cytophagales 0

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genus Luteivirga 0

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unclassified\_Catalimonadaceae 0

genus Catalinimonas 0

family Cyclobacteriaceae 0

unclassified\_Cyclobacteriaceae 0

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genus Algoriphagus 0

genus Fontibacter 0

genus Cecembia 0

genus Belliella 0

genus Cyclobacterium 0

genus Mongoliitalea 0

genus Mongoliicoccus 0

genus Echinicola 0

genus Mariniradius 0

genus Lunatimonas 0

genus Nitritalea 0

genus Indibacter 0

genus Shivajiella 0

genus Ohtaekwangia 0

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unclassified\_Cytophagaceae 0

genus Huanghella 0

genus Fluviimonas 0

genus Fibrella 0

genus Fibrisoma 0

genus Adhaeribacter 0

genus Nibribacter 0

genus Litoribacter 0

genus Leadbetterella 0

genus Hymenobacter 0

genus Cytophaga 0

genus Persicitalea 0

genus Lacihabitans 0

genus Emticicia 0

genus Nibrella 0

genus Flexibacter 0

genus Rudanella 0

genus Siphonobacter 0

genus Arcicella 0

genus Flectobacillus 0

genus Microscilla 0

genus Sporocytophaga 0

genus Dyadobacter 0

genus Spirosoma 0

genus Larkinella 0

genus Runella 0

genus Rhodonellum 0

genus Rhodocytophaga 0

genus Rufibacter 0

genus Pontibacter 0

genus Ekhidna 0

genus Pseudarcicella 0

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genus Fulvitalea 0

genus Rapidithrix 0

genus Reichenbachiella 0

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genus Nafulsella 0

genus Marivirga 0

genus Limibacter 0

genus Imperialibacter 0

genus Thermonema 0

genus Flammeovirga 0

genus Fabibacter 0

genus Perexilibacter 0

genus Flexithrix 0

genus Sediminitomix 0

genus Marinoscillum 0

genus Persicobacter 0

genus Aureibacter 0

genus Roseivirga 0

family Mooreiaceae 0

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genus Mooreia 0

class Flavobacteriia 0

unclassified\_Flavobacteriia 0

order "Flavobacteriales" 0

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genus Schleiferia 0

family Cryomorphaceae 0

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genus Crocinitomix 0

genus Cryomorpha 0

genus Fluviicola 0

genus Owenweeksia 0

genus Wandonia 0

genus Phaeocystidibacter 0

genus Salinirepens 0

genus Lishizhenia 0

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genus Geojedonia 0

genus Lutimonas 0

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genus Litoribaculum 0

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genus Salegentibacter 0

genus Robiginitalea 0

genus Sediminibacter 0

genus Robertkochia 0

genus Ornithobacterium 0

genus Sediminicola 0

genus Mesonia 0

genus Leeuwenhoekiella 0

genus Euzebyella 0

genus Flaviramulus 0

genus Coenonia 0

genus Olleya 0

genus Aquimarina 0

genus Polaribacter 0

genus Imtechella 0

genus Cruoricaptor 0

genus Zunongwangia 0

genus Zobellia 0

genus Hwangdonia 0

genus Hanstruepera 0

genus Gramella 0

genus Cloacibacterium 0

genus Gaetbulimicrobium 0

genus Pseudofulvibacter 0

genus Chryseobacterium 0

genus Jejudonia 0

genus Siansivirga 0

genus Epilithonimonas 0

genus Eudoraea 0

genus Lutaonella 0

genus Leptobacterium 0

genus Tamlana 0

genus Lacinutrix 0

genus Aequorivita 0

genus Actibacter 0

genus Gilvibacter 0

genus Capnocytophaga 0

genus Flavimarina 0

genus Galbibacter 0

genus Fulvibacter 0

genus Algibacter 0

genus Gaetbulibacter 0

genus Sungkyunkwania 0

genus Formosa 0

genus Flavivirga 0

genus Spongiimonas 0

genus Winogradskyella 0

genus Gangjinia 0

genus Yeosuana 0

genus Citreitalea 0

genus Flavicella 0

genus Psychroserpens 0

genus Moheibacter 0

genus Aureitalea 0

genus Cellulophaga 0

genus Jejuia 0

genus Riemerella 0

genus Pibocella 0

genus Costertonia 0

genus Salinimicrobium 0

genus Muriicola 0

genus Gillisia 0

genus Flagellimonas 0

genus Zeaxanthinibacter 0

genus Mesoflavibacter 0

genus Flavobacterium 0

genus Chishuiella 0

genus Soonwooa 0

genus Flavirhabdus 0

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genus Joostella 0

genus Aureivirga 0

genus Tenacibaculum 0

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genus Hoppeia 0

genus Sinomicrobium 0

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genus Dokdonia 0

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genus Namhaeicola 0

genus Wenyingzhuangia 0

genus Zhouia 0

genus Empedobacter 0

genus Antarcticimonas 0

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genus Pustulibacterium 0

genus Elizabethkingia 0

genus Ichthyenterobacterium 0

genus Lutibacter 0

genus Spongiivirga 0

genus Mariniflexile 0

genus Aquibacter 0

genus Aureicoccus 0

genus Gelidibacter 0

genus Arenibacter 0

genus Weeksella 0

genus Bizionia 0

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genus Arenitalea 0

genus Myroides 0

genus Bergeyella 0

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genus Seonamhaeicola 0

genus Croceitalea 0

genus Hyunsoonleella 0

genus Mangrovimonas 0

genus Kordia 0

genus Croceibacter 0

genus Postechiella 0

genus Corallibacter 0

genus Maritimimonas 0

genus Ulvibacter 0

genus Muricauda 0

genus Maribacter 0

genus Nonlabens 0

genus Frondibacter 0

genus Psychroflexus 0

class "Bacteroidetes"\_incertae\_sedis 0

unclassified\_"Bacteroidetes"\_incertae\_sedis 0

genus Marinifilum 0

class Sphingobacteriia 0

unclassified\_Sphingobacteriia 0

order "Sphingobacteriales" 0

unclassified\_"Sphingobacteriales" 0

family "Saprospiraceae" 0

unclassified\_"Saprospiraceae" 0

genus Lewinella 0

genus Aureispira 0

genus Haliscomenobacter 0

genus Saprospira 0

genus Phaeodactylibacter 0

genus Portibacter 0

genus Fodinibius 0

genus Aliifodinibius 0

family "Rhodothermaceae" 0

unclassified\_"Rhodothermaceae" 0

genus Salisaeta 0

genus Salinibacter 0

genus Rhodothermus 0

genus Rubrivirga 0

genus Rubricoccus 0

family Chitinophagaceae 0

unclassified\_Chitinophagaceae 0

genus Sediminibacterium 0

genus Heliimonas 0

genus Flavihumibacter 0

genus Filimonas 0

genus Thermoflavifilum 0

genus Flavisolibacter 0

genus Ferruginibacter 0

genus Hydrobacter 0

genus Parasegetibacter 0

genus Parafilimonas 0

genus Hydrotalea 0

genus Niabella 0

genus Balneola 0

genus Vibrionimonas 0

genus Taibaiella 0

genus Lacibacter 0

genus Crenotalea 0

genus Cnuella 0

genus Chitinophaga 0

genus Niastella 0

genus Terrimonas 0

genus Segetibacter 0

genus Arachidicoccus 0

genus Gracilimonas 0

genus Flavitalea 0

genus Asinibacterium 0

family Sphingobacteriaceae 0

unclassified\_Sphingobacteriaceae 0

genus Solitalea 0

genus Pseudopedobacter 0

genus Olivibacter 0

genus Pseudosphingobacterium 0

genus Arcticibacter 0

genus Pedobacter 0

genus Parapedobacter 0

genus Mucilaginibacter 0

genus Nubsella 0

genus Sphingobacterium 0

class "Bacteroidia" 0

unclassified\_"Bacteroidia" 0

order "Bacteroidales" 0

unclassified\_"Bacteroidales" 0

family "Rikenellaceae" 0

unclassified\_"Rikenellaceae" 0

genus Rikenella 0

genus Anaerocella 0

genus Alistipes 0

genus Mucinivorans 0

family Prolixibacteraceae 0

unclassified\_Prolixibacteraceae 0

genus Mariniphaga 0

genus Sunxiuqinia 0

genus Meniscus 0

genus Tangfeifania 0

genus Prolixibacter 0

genus Draconibacterium 0

genus Mangrovibacterium 0

family Marinilabiliaceae 0

unclassified\_Marinilabiliaceae 0

genus Alkaliflexus 0

genus Mangroviflexus 0

genus Marinilabilia 0

genus Alkalitalea 0

genus Anaerophaga 0

genus Geofilum 0

genus Carboxylicivirga 0

genus Thermophagus 0

genus Saccharicrinis 0

genus Natronoflexus 0

family "Bacteroidales"\_incertae\_sedis 0

unclassified\_"Bacteroidales"\_incertae\_sedis 0

genus Phocaeicola 0

family "Prevotellaceae" 0

unclassified\_"Prevotellaceae" 0

genus Prevotella 0

genus Alloprevotella 0

genus Paraprevotella 0

family Bacteroidaceae 0

unclassified\_Bacteroidaceae 0

genus Bacteroides 0

genus Anaerorhabdus 0

family "Porphyromonadaceae" 0

unclassified\_"Porphyromonadaceae" 0

genus Proteiniphilum 0

genus Butyricimonas 0

genus Tannerella 0

genus Acetobacteroides 0

genus Falsiporphyromonas 0

genus Barnesiella 0

genus Microbacter 0

genus Porphyromonas 0

genus Petrimonas 0

genus Odoribacter 0

genus Paludibacter 0

genus Macellibacteroides 0

genus Dysgonomonas 0

genus Parabacteroides 0

genus Coprobacter 0

phylum "Chrysiogenetes" 0

unclassified\_"Chrysiogenetes" 0

class Chrysiogenetes 0

unclassified\_Chrysiogenetes 0

order Chrysiogenales 0

unclassified\_Chrysiogenales 0

family Chrysiogenaceae 0

unclassified\_Chrysiogenaceae 0

genus Desulfurispira 0

genus Chrysiogenes 0

genus Desulfurispirillum 0

phylum Cyanobacteria/Chloroplast 0

unclassified\_Cyanobacteria/Chloroplast 0

class Cyanobacteria 0

unclassified\_Cyanobacteria 0

family Family VIII 0

unclassified\_Family VIII 0

genus GpVIII 0

family Family VII 0

unclassified\_Family VII 0

genus GpVII 0

family Family II 0

unclassified\_Family II 0

genus GpIIa 0

genus GpIIb 0

family Family VI 0

unclassified\_Family VI 0

genus GpVI 0

family Family XIII 0

unclassified\_Family XIII 0

genus GpXIII 0

family Family XII 0

unclassified\_Family XII 0

genus GpXII 0

family Family III 0

unclassified\_Family III 0

genus GpIII 0

family Family I 0

unclassified\_Family I 0

genus GpI 0

family Family XI 0

unclassified\_Family XI 0

genus GpXI 0

family Family IX 0

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genus GpIX 0

family Family V 0

unclassified\_Family V 0

genus GpV 0

family Family IV 0

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genus GpIV 0

family Family X 0

unclassified\_Family X 0

genus GpX 0

class Chloroplast 0

unclassified\_Chloroplast 0

family Chloroplast 0

unclassified\_Chloroplast 0

genus Cryptomonadaceae 0

genus Chlorophyta 0

genus Bacillariophyta 0

genus Euglenida 0

genus Streptophyta 0

genus Bangiophyceae 0

genus Chlorarachniophyceae 0

phylum "Proteobacteria" 1

unclassified\_"Proteobacteria" 0

class Epsilonproteobacteria 0

unclassified\_Epsilonproteobacteria 0

order Campylobacterales 0

unclassified\_Campylobacterales 0

family Helicobacteraceae 0

unclassified\_Helicobacteraceae 0

genus Wolinella 0

genus Helicobacter 0

genus Sulfurovum 0

genus Sulfurimonas 0

genus Sulfuricurvum 0

family "Hydrogenimonaceae" 0

unclassified\_"Hydrogenimonaceae" 0

genus Hydrogenimonas 0

family Campylobacteraceae 0

unclassified\_Campylobacteraceae 0

genus Dehalospirillum 0

genus Campylobacter 0

genus Sulfurospirillum 0

genus Arcobacter 0

order Nautiliales 0

unclassified\_Nautiliales 0

family Nautiliaceae 0

unclassified\_Nautiliaceae 0

genus Cetia 0

genus Lebetimonas 0

genus Nitratiruptor 0

genus Nautilia 0

genus Caminibacter 0

genus Nitratifractor 0

genus Thioreductor 0

class Deltaproteobacteria 0

unclassified\_Deltaproteobacteria 0

order Desulfurellales 0

unclassified\_Desulfurellales 0

family Desulfurellaceae 0

unclassified\_Desulfurellaceae 0

genus Hippea 0

genus Desulfurella 0

order Bradymonadales 0

unclassified\_Bradymonadales 0

family Bradymonadaceae 0

unclassified\_Bradymonadaceae 0

genus Bradymonas 0

order Syntrophobacterales 0

unclassified\_Syntrophobacterales 0

family Syntrophaceae 0

unclassified\_Syntrophaceae 0

genus Desulfomonile 0

genus Smithella 0

genus Desulfobacca 0

genus Syntrophus 0

family Syntrophobacteraceae 0

unclassified\_Syntrophobacteraceae 0

genus Desulfosoma 0

genus Desulfacinum 0

genus Syntrophobacter 0

genus Desulfoglaeba 0

genus Thermodesulforhabdus 0

genus Desulforhabdus 0

genus Desulfovirga 0

order Desulfovibrionales 0

unclassified\_Desulfovibrionales 0

family Desulfohalobiaceae 0

unclassified\_Desulfohalobiaceae 0

genus Desulfonatronospira 0

genus Desulfonatronovibrio 0

genus Desulfothermus 0

genus Desulfohalobium 0

genus Desulfovermiculus 0

genus Desulfonauticus 0

family Desulfonatronaceae 0

unclassified\_Desulfonatronaceae 0

genus Desulfonatronum 0

family Desulfomicrobiaceae 0

unclassified\_Desulfomicrobiaceae 0

genus Desulfomicrobium 0

family Desulfovibrionaceae 0

unclassified\_Desulfovibrionaceae 0

genus Bilophila 0

genus Desulfovibrio 0

genus Desulfobaculum 0

genus Lawsonia 0

genus Desulfocurvus 0

order Bdellovibrionales 0

unclassified\_Bdellovibrionales 0

family Bdellovibrionaceae 0

unclassified\_Bdellovibrionaceae 0

genus Bdellovibrio 0

genus Vampirovibrio 0

family Bacteriovoracaceae 0

unclassified\_Bacteriovoracaceae 0

genus Halobacteriovorax 0

genus Peredibacter 0

genus Bacteriovorax 0

family Pseudobacteriovoracaceae 0

unclassified\_Pseudobacteriovoracaceae 0

genus Pseudobacteriovorax 0

order Desulfuromonadales 0

unclassified\_Desulfuromonadales 0

family Desulfuromonadaceae 0

unclassified\_Desulfuromonadaceae 0

genus Desulfuromonas 0

genus Desulfuromusa 0

genus Malonomonas 0

genus Pelobacter 0

family Geobacteraceae 0

unclassified\_Geobacteraceae 0

genus Geopsychrobacter 0

genus Geothermobacter 0

genus Geobacter 0

genus Geoalkalibacter 0

order Desulfarculales 0

unclassified\_Desulfarculales 0

family Desulfarculaceae 0

unclassified\_Desulfarculaceae 0

genus Desulfarculus 0

genus Desulfocarbo 0

family Syntrophorhabdaceae 0

unclassified\_Syntrophorhabdaceae 0

genus Syntrophorhabdus 0

order Deltaproteobacteria\_incertae\_sedis 0

unclassified\_Deltaproteobacteria\_incertae\_sedis 0

genus Deferrisoma 0

genus Dissulfuribacter 0

order Desulfobacterales 0

unclassified\_Desulfobacterales 0

family Desulfobulbaceae 0

unclassified\_Desulfobulbaceae 0

genus Desulfobulbus 0

genus Desulfopila 0

genus Desulfofustis 0

genus Desulforhopalus 0

genus Desulfurivibrio 0

genus Desulfotalea 0

genus Desulfoprunum 0

genus Desulfocapsa 0

family Desulfobacteraceae 0

unclassified\_Desulfobacteraceae 0

genus Desulfonema 0

genus Desulfobacter 0

genus Desulfocella 0

genus Desulfobacterium 0

genus Desulfatibacillum 0

genus Desulfoconvexum 0

genus Desulfoluna 0

genus Desulfatiglans 0

genus Desulfobotulus 0

genus Desulfosalsimonas 0

genus Desulforegula 0

genus Desulfatiferula 0

genus Desulfospira 0

genus Desulfofrigus 0

genus Desulfococcus 0

genus Desulfosarcina 0

genus Desulfatirhabdium 0

genus Desulfofaba 0

genus Desulfobacula 0

genus Desulfotignum 0

genus Desulfatitalea 0

genus Desulfonatronobacter 0

order Myxococcales 0

unclassified\_Myxococcales 0

family Sandaracinaceae 0

unclassified\_Sandaracinaceae 0

genus Sandaracinus 0

suborder Cystobacterineae 0

unclassified\_Cystobacterineae 0

family Cystobacteraceae 0

unclassified\_Cystobacteraceae 0

genus Cystobacter 0

genus Hyalangium 0

genus Archangium 0

genus Stigmatella 0

genus Melittangium 0

genus Anaeromyxobacter 0

family Vulgatibacteraceae 0

unclassified\_Vulgatibacteraceae 0

genus Vulgatibacter 0

family Myxococcaceae 0

unclassified\_Myxococcaceae 0

genus Myxococcus 0

genus Corallococcus 0

genus Aggregicoccus 0

genus Pyxidicoccus 0

genus Angiococcus 0

suborder Sorangiineae 0

unclassified\_Sorangiineae 0

family Labilitrichaceae 0

unclassified\_Labilitrichaceae 0

genus Labilithrix 0

family Phaselicystidaceae 0

unclassified\_Phaselicystidaceae 0

genus Phaselicystis 0

family Polyangiaceae 0

unclassified\_Polyangiaceae 0

genus Jahnella 0

genus Minicystis 0

genus Polyangium 0

genus Chondromyces 0

genus Sorangium 0

genus Byssovorax 0

suborder Nannocystineae 0

unclassified\_Nannocystineae 0

family Kofleriaceae 0

unclassified\_Kofleriaceae 0

genus Kofleria 0

family Nannocystaceae 0

unclassified\_Nannocystaceae 0

genus Enhygromyxa 0

genus Pseudenhygromyxa 0

genus Nannocystis 0

genus Plesiocystis 0

family "Haliangiaceae" 0

unclassified\_"Haliangiaceae" 0

genus Haliangium 0

class Betaproteobacteria 0

unclassified\_Betaproteobacteria 0

order "Procabacteriales" 0

unclassified\_"Procabacteriales" 0

family "Procabacteriaceae" 0

unclassified\_"Procabacteriaceae" 0

genus Candidatus Procabacter 0

order Nitrosomonadales 0

unclassified\_Nitrosomonadales 0

family Nitrosomonadaceae 0

unclassified\_Nitrosomonadaceae 0

genus Nitrosomonas 0

genus Nitrosospira 0

family Spirillaceae 0

unclassified\_Spirillaceae 0

genus Spirillum 0

order Burkholderiales 0

unclassified\_Burkholderiales 0

family Burkholderiales\_incertae\_sedis 0

unclassified\_Burkholderiales\_incertae\_sedis 0

genus Methylibium 0

genus Leptothrix 0

genus Paucibacter 0

genus Tepidimonas 0

genus Piscinibacter 0

genus Aquabacterium 0

genus Aquincola 0

genus Mitsuaria 0

genus Rubrivivax 0

genus Sphaerotilus 0

genus Inhella 0

genus Thiomonas 0

genus Thiobacter 0

genus Xylophilus 0

genus Ideonella 0

genus Rivibacter 0

family Sutterellaceae 0

unclassified\_Sutterellaceae 0

genus Parasutterella 0

genus Sutterella 0

family Alcaligenaceae 0

unclassified\_Alcaligenaceae 0

genus Castellaniella 0

genus Candidimonas 0

genus Kerstersia 0

genus Pusillimonas 0

genus Oligella 0

genus Paenalcaligenes 0

genus Taylorella 0

genus Pigmentiphaga 0

genus Brackiella 0

genus Eoetvoesia 0

genus Achromobacter 0

genus Paralcaligenes 0

genus Bordetella 0

genus Azohydromonas 0

genus Advenella 0

genus Derxia 0

genus Pelistega 0

genus Parapusillimonas 0

genus Basilea 0

genus Alcaligenes 0

family Burkholderiaceae 0

unclassified\_Burkholderiaceae 0

genus Cupriavidus 0

genus Limnobacter 0

genus Ralstonia 0

genus Paucimonas 0

genus Pandoraea 0

genus Polynucleobacter 0

genus Lautropia 0

genus Burkholderia 0

genus Chitinimonas 0

family Comamonadaceae 0

unclassified\_Comamonadaceae 0

genus Simplicispira 0

genus Ramlibacter 0

genus Brachymonas 0

genus Comamonas 0

genus Hylemonella 0

genus Tepidicella 0

genus Caenimonas 0

genus Lampropedia 0

genus Delftia 0

genus Pseudorhodoferax 0

genus Roseateles 0

genus Schlegelella 0

genus Verminephrobacter 0

genus Curvibacter 0

genus Caldimonas 0

genus Giesbergeria 0

genus Diaphorobacter 0

genus Ottowia 0

genus Acidovorax 0

genus Pseudacidovorax 0

genus Extensimonas 0

genus Malikia 0

genus Zhizhongheella 0

genus Kinneretia 0

genus Rhodoferax 0

genus Xenophilus 0

genus Hydrogenophaga 0

genus Melaminivora 0

genus Macromonas 0

genus Variovorax 0

genus Limnohabitans 0

genus Polaromonas 0

genus Alicycliphilus 0

genus Pelomonas 0

family Oxalobacteraceae 0

unclassified\_Oxalobacteraceae 0

genus Duganella 0

genus Oxalicibacterium 0

genus Herminiimonas 0

genus Pseudoduganella 0

genus Massilia 0

genus Noviherbaspirillum 0

genus Janthinobacterium 0

genus Paraherbaspirillum 0

genus Oxalobacter 0

genus Glaciimonas 0

genus Herbaspirillum 0

genus Rugamonas 0

genus Telluria 0

genus Collimonas 0

genus Undibacterium 0

genus Chitinivorax 0

order Gallionellales 0

unclassified\_Gallionellales 0

family Gallionellaceae 0

unclassified\_Gallionellaceae 0

genus Sideroxydans 0

genus Gallionella 0

genus Ferriphaselus 0

order Ferrovales 0

unclassified\_Ferrovales 0

family Ferrovaceae 0

unclassified\_Ferrovaceae 0

genus Ferrovum 0

order Hydrogenophilales 0

unclassified\_Hydrogenophilales 0

family Hydrogenophilaceae 0

unclassified\_Hydrogenophilaceae 0

genus Thiobacillus 0

genus Tepidiphilus 0

genus Hydrogenophilus 0

order Methylophilales 0

unclassified\_Methylophilales 0

family Methylophilaceae 0

unclassified\_Methylophilaceae 0

genus Methylotenera 0

genus Methylobacillus 0

genus Methylovorus 0

genus Methylophilus 0

order Neisseriales 0

unclassified\_Neisseriales 0

family Neisseriaceae 0

unclassified\_Neisseriaceae 0

genus Chitinibacter 0

genus Neisseria 0

genus Chitiniphilus 0

genus Amantichitinum 0

genus Morococcus 0

genus Deefgea 0

genus Formivibrio 0

genus Laribacter 0

genus Aquaspirillum 0

genus Aquitalea 0

genus Crenobacter 0

genus Bergeriella 0

genus Kingella 0

genus Microvirgula 0

genus Paludibacterium 0

genus Stenoxybacter 0

genus Gulbenkiania 0

genus Andreprevotia 0

genus Vitreoscilla 0

genus Conchiformibius 0

genus Eikenella 0

genus Chitinilyticum 0

genus Chromobacterium 0

genus Snodgrassella 0

genus Jeongeupia 0

genus Pseudogulbenkiania 0

genus Leeia 0

genus Uruburuella 0

genus Rivicola 0

genus Iodobacter 0

genus Vogesella 0

genus Alysiella 0

genus Silvimonas 0

genus Simonsiella 0

order Ferritrophicales 0

unclassified\_Ferritrophicales 0

family Ferritrophicaceae 0

unclassified\_Ferritrophicaceae 0

genus Ferritrophicum 0

order Sulfuricellales 0

unclassified\_Sulfuricellales 0

family Sulfuricellaceae 0

unclassified\_Sulfuricellaceae 0

genus Sulfuricella 0

genus Sulfuriferula 0

order Rhodocyclales 0

unclassified\_Rhodocyclales 0

family Rhodocyclaceae 0

unclassified\_Rhodocyclaceae 0

genus Methyloversatilis 0

genus Dechloromonas 0

genus Sterolibacterium 0

genus Georgfuchsia 0

genus Ferribacterium 0

genus Thauera 0

genus Propionivibrio 0

genus Denitratisoma 0

genus Uliginosibacterium 0

genus Rhodocyclus 0

genus Zoogloea 0

genus Azoarcus 0

genus Azonexus 0

genus Quatrionicoccus 0

genus Azospira 0

genus Sulfuritalea 0

genus Sulfurisoma 0

genus Azovibrio 0

class Alphaproteobacteria 0

unclassified\_Alphaproteobacteria 0

order Alphaproteobacteria\_incertae\_sedis 0

unclassified\_Alphaproteobacteria\_incertae\_sedis 0

genus Geminicoccus 0

genus Rhizomicrobium 0

genus Breoghania 0

order Rhizobiales 0

unclassified\_Rhizobiales 0

family Bartonellaceae 0

unclassified\_Bartonellaceae 0

genus Bartonella 0

family Bradyrhizobiaceae 0

unclassified\_Bradyrhizobiaceae 0

genus Rhodopseudomonas 0

genus Bradyrhizobium 0

genus Tardiphaga 0

genus Afipia 0

genus Bosea 0

genus Nitrobacter 0

genus Rhodoblastus 0

genus Salinarimonas 0

genus Oligotropha 0

family Roseiarcaceae 0

unclassified\_Roseiarcaceae 0

genus Roseiarcus 0

family Rhizobiaceae 0

unclassified\_Rhizobiaceae 0

genus Kaistia 0

genus Neorhizobium 0

genus Rhizobium 0

genus Ciceribacter 0

genus Shinella 0

genus Ensifer 0

family Cohaesibacteraceae 0

unclassified\_Cohaesibacteraceae 0

genus Cohaesibacter 0

family Methylocystaceae 0

unclassified\_Methylocystaceae 0

genus Methylocystis 0

genus Methylosinus 0

genus Albibacter 0

genus Pleomorphomonas 0

genus Methylopila 0

genus Hansschlegelia 0

genus Terasakiella 0

family Beijerinckiaceae 0

unclassified\_Beijerinckiaceae 0

genus Methyloferula 0

genus Methylocapsa 0

genus Camelimonas 0

genus Methylocella 0

genus Methylorosula 0

genus Pseudochelatococcus 0

genus Chelatococcus 0

genus Beijerinckia 0

genus Methylovirgula 0

family Rhodobiaceae 0

unclassified\_Rhodobiaceae 0

genus Methyloceanibacter 0

genus Rhodoligotrophos 0

genus Parvibaculum 0

genus Dichotomicrobium 0

genus Anderseniella 0

genus Methyloligella 0

genus Roseospirillum 0

genus Afifella 0

genus Rhodobium 0

genus Tepidamorphus 0

genus Lutibaculum 0

family Phyllobacteriaceae 0

unclassified\_Phyllobacteriaceae 0

genus Lentilitoribacter 0

genus Phyllobacterium 0

genus Mesorhizobium 0

genus Pseudaminobacter 0

genus Aquamicrobium 0

genus Aminobacter 0

genus Hoeflea 0

genus Chelativorans 0

genus Pseudahrensia 0

genus Nitratireductor 0

family Brucellaceae 0

unclassified\_Brucellaceae 0

genus Mycoplana 0

genus Paenochrobactrum 0

genus Daeguia 0

genus Pseudochrobactrum 0

genus Brucella 0

genus Ochrobactrum 0

genus Falsochrobactrum 0

family Rhizobiales\_incertae\_sedis 0

unclassified\_Rhizobiales\_incertae\_sedis 0

genus Hartmannibacter 0

genus Phreatobacter 0

genus Methylobrevis 0

genus Variibacter 0

genus Bauldia 0

genus Amorphus 0

genus Vasilyevaea 0

genus Alsobacter 0

family Xanthobacteraceae 0

unclassified\_Xanthobacteraceae 0

genus Ancylobacter 0

genus Azorhizobium 0

genus Labrys 0

genus Xanthobacter 0

genus Pseudoxanthobacter 0

genus Pseudolabrys 0

genus Starkeya 0

family Hyphomicrobiaceae 0

unclassified\_Hyphomicrobiaceae 0

genus Maritalea 0

genus Pelagibacterium 0

genus Cucumibacter 0

genus Prosthecomicrobium 0

genus Rhodoplanes 0

genus Hyphomicrobium 0

genus Angulomicrobium 0

genus Methylorhabdus 0

genus Ancalomicrobium 0

genus Rhodomicrobium 0

genus Filomicrobium 0

genus Aquabacter 0

genus Devosia 0

genus Blastochloris 0

genus Pedomicrobium 0

family Methylobacteriaceae 0

unclassified\_Methylobacteriaceae 0

genus Microvirga 0

genus Methylobacterium 0

genus Meganema 0

genus Psychroglaciecola 0

family "Aurantimonadaceae" 0

unclassified\_"Aurantimonadaceae" 0

genus Jiella 0

genus Fulvimarina 0

genus Martelella 0

genus Aurantimonas 0

genus Aureimonas 0

order "Parvularculales" 0

unclassified\_"Parvularculales" 0

family "Parvularculaceae" 0

unclassified\_"Parvularculaceae" 0

genus Parvularcula 0

genus Amphiplicatus 0

order Caulobacterales 0

unclassified\_Caulobacterales 0

family Hyphomonadaceae 0

unclassified\_Hyphomonadaceae 0

genus Hirschia 0

genus Robiginitomaculum 0

genus Litorimonas 0

genus Marinicauda 0

genus Fretibacter 0

genus Woodsholea 0

genus Hellea 0

genus Glycocaulis 0

genus Algimonas 0

genus Henriciella 0

genus Oceanicaulis 0

genus Hyphomonas 0

genus Ponticaulis 0

genus Maricaulis 0

family Caulobacteraceae 0

unclassified\_Caulobacteraceae 0

genus Caulobacter 0

genus Asticcacaulis 0

genus Brevundimonas 0

genus Phenylobacterium 0

order Rickettsiales 0

unclassified\_Rickettsiales 0

family Anaplasmataceae 0

unclassified\_Anaplasmataceae 0

genus Neorickettsia 0

genus Ehrlichia 0

genus Anaplasma 0

family Rickettsiaceae 0

unclassified\_Rickettsiaceae 0

genus Rickettsia 0

genus Orientia 0

order Sneathiellales 0

unclassified\_Sneathiellales 0

family Sneathiellaceae 0

unclassified\_Sneathiellaceae 0

genus Ferrovibrio 0

genus Oceanibacterium 0

genus Sneathiella 0

genus Taonella 0

order Sphingomonadales 0

unclassified\_Sphingomonadales 0

family Sphingomonadaceae 0

unclassified\_Sphingomonadaceae 0

genus Blastomonas 0

genus Sandaracinobacter 0

genus Sandarakinorhabdus 0

genus Parasphingopyxis 0

genus Zymomonas 0

genus Sphingomicrobium 0

genus Polymorphobacter 0

genus Sphingobium 0

genus Sphingomonas 0

genus Sphingorhabdus 0

genus Rhizorhapis 0

genus Sphingopyxis 0

genus Hephaestia 0

genus Novosphingobium 0

genus Sphingosinicella 0

genus Rhizorhabdus 0

genus Stakelama 0

genus Parablastomonas 0

family Erythrobacteraceae 0

unclassified\_Erythrobacteraceae 0

genus Erythromicrobium 0

genus Porphyrobacter 0

genus Altererythrobacter 0

genus Erythrobacter 0

genus Croceicoccus 0

order Rhodospirillales 0

unclassified\_Rhodospirillales 0

genus Reyranella 0

genus Elioraea 0

family Rhodospirillaceae 0

unclassified\_Rhodospirillaceae 0

genus Marispirillum 0

genus Azospirillum 0

genus Constrictibacter 0

genus Dongia 0

genus Rhodospirillum 0

genus Magnetovibrio 0

genus Tistlia 0

genus Niveispirillum 0

genus Limimonas 0

genus Phaeospirillum 0

genus Pelagibius 0

genus Lacibacterium 0

genus Nisaea 0

genus Roseospira 0

genus Skermanella 0

genus Oceanibaculum 0

genus Defluviicoccus 0

genus Desertibacter 0

genus Nitrospirillum 0

genus Thalassobaculum 0

genus Telmatospirillum 0

genus Novispirillum 0

genus Rhodovibrio 0

genus Inquilinus 0

genus Phaeovibrio 0

genus Elstera 0

genus Fodinicurvata 0

genus Rhodocista 0

genus Rhodospira 0

genus Caenispirillum 0

genus Tistrella 0

genus Magnetospira 0

genus Magnetospirillum 0

genus Thalassospira 0

genus Pararhodospirillum 0

genus Aestuariispira 0

genus Insolitispirillum 0

family Acetobacteraceae 0

unclassified\_Acetobacteraceae 0

genus Ameyamaea 0

genus Kozakia 0

genus Granulibacter 0

genus Belnapia 0

genus Neoasaia 0

genus Saccharibacter 0

genus Acidomonas 0

genus Acidiphilium 0

genus Stella 0

genus Craurococcus 0

genus Bombella 0

genus Acidisoma 0

genus Swingsia 0

genus Rhodopila 0

genus Acetobacter 0

genus Paracraurococcus 0

genus Acidocella 0

genus Neokomagataea 0

genus Roseomonas 0

genus Endobacter 0

genus Rhodovarius 0

genus Nguyenibacter 0

genus Asaia 0

genus Komagataeibacter 0

genus Humitalea 0

genus Swaminathania 0

genus Acidisphaera 0

genus Roseococcus 0

genus Rubritepida 0

genus Acidicaldus 0

genus Tanticharoenia 0

genus Gluconacetobacter 0

genus Gluconobacter 0

genus Eilatimonas 0

order Magnetococcales 0

unclassified\_Magnetococcales 0

family Magnetococcaceae 0

unclassified\_Magnetococcaceae 0

genus Magnetococcus 0

order Kordiimonadales 0

unclassified\_Kordiimonadales 0

family Temperatibacteraceae 0

unclassified\_Temperatibacteraceae 0

genus Temperatibacter 0

family "Kordiimonadaceae" 0

unclassified\_"Kordiimonadaceae" 0

genus Kordiimonas 0

order Kiloniellales 0

unclassified\_Kiloniellales 0

family Kiloniellaceae 0

unclassified\_Kiloniellaceae 0

genus Kiloniella 0

family SAR11 0

unclassified\_SAR11 0

genus Candidatus Pelagibacter 0

order Rhodobacterales 0

unclassified\_Rhodobacterales 0

family Rhodobacteraceae 0

unclassified\_Rhodobacteraceae 0

genus Albirhodobacter 0

genus Roseivivax 0

genus Roseicitreum 0

genus Pelagibaca 0

genus Hwanghaeicola 0

genus Thalassococcus 0

genus Nautella 0

genus Haematobacter 0

genus Thioclava 0

genus Pelagimonas 0

genus Palleronia 0

genus Paracoccus 0

genus Celeribacter 0

genus Wenxinia 0

genus Roseibaca 0

genus Marivita 0

genus Profundibacterium 0

genus Roseibium 0

genus Salipiger 0

genus Marinovum 0

genus Citreimonas 0

genus Confluentimicrobium 0

genus Planktotalea 0

genus Boseongicola 0

genus Litoreibacter 0

genus Planktomarina 0

genus Pelagicola 0

genus Oceanicella 0

genus Lutimaribacter 0

genus Roseibacterium 0

genus Leisingera 0

genus Amaricoccus 0

genus Loktanella 0

genus Pseudodonghicola 0

genus Amylibacter 0

genus Frigidibacter 0

genus Thalassobius 0

genus Stappia 0

genus Yangia 0

genus Nesiotobacter 0

genus Falsirhodobacter 0

genus Rhodothalassium 0

genus Citreicella 0

genus Ascidiaceihabitans 0

genus Pannonibacter 0

genus Nereida 0

genus Pseudovibrio 0

genus Pseudooctadecabacter 0

genus Tropicimonas 0

genus Seohaeicola 0

genus Labrenzia 0

genus Jannaschia 0

genus Shimia 0

genus Thiobacimonas 0

genus Tranquillimonas 0

genus Rhodovulum 0

genus Rubellimicrobium 0

genus Nioella 0

genus Puniceibacterium 0

genus Ponticoccus 0

genus Antarctobacter 0

genus Roseicyclus 0

genus Litorimicrobium 0

genus Gaetbulicola 0

genus Lentibacter 0

genus Sedimentitalea 0

genus Pseudorhodobacter 0

genus Cereibacter 0

genus Maribius 0

genus Hasllibacter 0

genus Poseidonocella 0

genus Phaeobacter 0

genus Ketogulonicigenium 0

genus Sediminimonas 0

genus Youngimonas 0

genus Pleomorphobacterium 0

genus Pacificibacter 0

genus Pseudohalocynthiibacter 0

genus Albidovulum 0

genus Rhodobacter 0

genus Oceanibulbus 0

genus Donghicola 0

genus Pontibaca 0

genus Rubrimonas 0

genus Halocynthiibacter 0

genus Maritimibacter 0

genus Methylarcula 0

genus Octadecabacter 0

genus Sagittula 0

genus Jhaorihella 0

genus Actibacterium 0

genus Gemmobacter 0

genus Cribrihabitans 0

genus Paenirhodobacter 0

genus Oceanicola 0

genus Aestuariihabitans 0

genus Sulfitobacter 0

genus Defluviimonas 0

genus Primorskyibacter 0

genus Tateyamaria 0

genus Pseudophaeobacter 0

genus Litorisediminicola 0

genus Agaricicola 0

genus Dinoroseobacter 0

genus Aestuariivita 0

genus Epibacterium 0

genus Ruegeria 0

genus Aliiroseovarius 0

genus Vadicella 0

genus Pseudopelagicola 0

genus Roseisalinus 0

genus Tropicibacter 0

genus Rubribacterium 0

genus Salinihabitans 0

genus Rhodobaca 0

genus Albimonas 0

genus Roseobacter 0

genus Ahrensia 0

genus Mameliella 0

genus Pseudoruegeria 0

genus Tabrizicola 0

genus Roseovarius 0

genus Roseinatronobacter 0

class Gammaproteobacteria 1

unclassified\_Gammaproteobacteria 0

order Orbales 0

unclassified\_Orbales 0

family Orbaceae 0

unclassified\_Orbaceae 0

genus Gilliamella 0

genus Frischella 0

genus Orbus 0

order Gammaproteobacteria\_incertae\_sedis 0

unclassified\_Gammaproteobacteria\_incertae\_sedis 0

genus Thiohalorhabdus 0

genus Eionea 0

genus Alkalimonas 0

genus Litorivivens 0

genus Pleionea 0

genus Gilvimarinus 0

genus Marinicella 0

genus Spongiibacter 0

genus Sedimenticola 0

genus Umboniibacter 0

genus Pseudohaliea 0

genus Zhongshania 0

genus Congregibacter 0

genus Candidatus Carsonella 0

genus Methylohalomonas 0

genus Thiolapillus 0

genus Porticoccus 0

genus Plasticicumulans 0

genus Halioglobus 0

genus Simiduia 0

genus Cocleimonas 0

genus Gallaecimonas 0

genus Methylonatrum 0

order Pseudomonadales 0

unclassified\_Pseudomonadales 0

family Pseudomonadales\_incertae\_sedis 0

unclassified\_Pseudomonadales\_incertae\_sedis 0

genus Dasania 0

family Moraxellaceae 0

unclassified\_Moraxellaceae 0

genus Faucicola 0

genus Perlucidibaca 0

genus Acinetobacter 0

genus Enhydrobacter 0

genus Moraxella 0

genus Psychrobacter 0

genus Alkanindiges 0

genus Paraperlucidibaca 0

family Pseudomonadaceae 0

unclassified\_Pseudomonadaceae 0

genus Permianibacter 0

genus Cellvibrio 0

genus Serpens 0

genus Thiopseudomonas 0

genus Azorhizophilus 0

genus Pseudomonas 0

genus Azomonas 0

genus Rhizobacter 0

genus Azotobacter 0

order Chromatiales 0

unclassified\_Chromatiales 0

family Chromatiaceae 0

unclassified\_Chromatiaceae 0

genus Thiobaca 0

genus Thiohalobacter 0

genus Thioflavicoccus 0

genus Rheinheimera 0

genus Halochromatium 0

genus Marichromatium 0

genus Thiohalocapsa 0

genus Thiococcus 0

genus Thermochromatium 0

genus Thiodictyon 0

genus Lamprocystis 0

genus Thiorhodovibrio 0

genus Thiocystis 0

genus Nitrosococcus 0

genus Thiocapsa 0

genus Phaeochromatium 0

genus Thiophaeococcus 0

genus Isochromatium 0

genus Rhabdochromatium 0

genus Chromatium 0

genus Thioalkalicoccus 0

genus Thiorhodococcus 0

genus Thiolamprovum 0

genus Allochromatium 0

family Thioalkalispiraceae 0

unclassified\_Thioalkalispiraceae 0

genus Thiohalophilus 0

genus Thioprofundum 0

family Ectothiorhodospiraceae 0

unclassified\_Ectothiorhodospiraceae 0

genus Natronocella 0

genus Thioalkalivibrio 0

genus Oceanococcus 0

genus Nitrococcus 0

genus Spiribacter 0

genus Alkalispirillum 0

genus Thiohalomonas 0

genus Arhodomonas 0

genus Thiogranum 0

genus Thioalkalispira 0

genus Thiohalospira 0

genus Ectothiorhodosinus 0

genus Alkalilimnicola 0

genus Thioalbus 0

genus Halorhodospira 0

genus Acidiferrobacter 0

genus Aquisalimonas 0

genus Ectothiorhodospira 0

genus Thiorhodospira 0

family Halothiobacillaceae 0

unclassified\_Halothiobacillaceae 0

genus Thiofaba 0

genus Thioalkalibacter 0

genus Thiovirga 0

genus Halothiobacillus 0

family Granulosicoccaceae 0

unclassified\_Granulosicoccaceae 0

genus Granulosicoccus 0

order "Salinisphaerales" 0

unclassified\_"Salinisphaerales" 0

family "Salinisphaeraceae" 0

unclassified\_"Salinisphaeraceae" 0

genus Salinisphaera 0

order Oceanospirillales 0

unclassified\_Oceanospirillales 0

family Oleiphilaceae 0

unclassified\_Oleiphilaceae 0

genus Oleiphilus 0

family Hahellaceae 0

unclassified\_Hahellaceae 0

genus Endozoicomonas 0

genus Halospina 0

genus Zooshikella 0

genus Kistimonas 0

genus Hahella 0

family Alcanivoracaceae 0

unclassified\_Alcanivoracaceae 0

genus Kangiella 0

genus Alcanivorax 0

family Litoricolaceae 0

unclassified\_Litoricolaceae 0

genus Litoricola 0

family "Saccharospirillaceae" 0

unclassified\_"Saccharospirillaceae" 0

genus Salinispirillum 0

genus Saccharospirillum 0

family Oceanospirillaceae 0

unclassified\_Oceanospirillaceae 0

genus Oceaniserpentilla 0

genus Pseudospirillum 0

genus Litoribrevibacter 0

genus Oleibacter 0

genus Oceanospirillum 0

genus Nitrincola 0

genus Reinekea 0

genus Neptunomonas 0

genus Balneatrix 0

genus Neptuniibacter 0

genus Bermanella 0

genus Motiliproteus 0

genus Amphritea 0

genus Spongiispira 0

genus Marinospirillum 0

genus Thalassolituus 0

genus Oleispira 0

genus Oceanobacter 0

genus Sinobacterium 0

genus Marinomonas 0

genus Marinobacterium 0

genus Litoribacillus 0

genus Corallomonas 0

family Halomonadaceae 0

unclassified\_Halomonadaceae 0

genus Modicisalibacter 0

genus Salinicola 0

genus Larsenimonas 0

genus Halomonas 0

genus Halotalea 0

genus Carnimonas 0

genus Halovibrio 0

genus Zymobacter 0

genus Chromohalobacter 0

genus Aidingimonas 0

genus Kushneria 0

genus Cobetia 0

family Oceanospirillales\_incertae\_sedis 0

unclassified\_Oceanospirillales\_incertae\_sedis 0

genus Pseudohongiella 0

genus Salicola 0

genus Gynuella 0

order Legionellales 0

unclassified\_Legionellales 0

family Legionellaceae 0

unclassified\_Legionellaceae 0

genus Legionella 0

family Coxiellaceae 0

unclassified\_Coxiellaceae 0

genus Coxiella 0

genus Aquicella 0

genus Diplorickettsia 0

order "Enterobacteriales" 0

unclassified\_"Enterobacteriales" 0

family Enterobacteriaceae 0

unclassified\_Enterobacteriaceae 0

genus Enterobacter 0

genus Tatumella 0

genus Pectobacterium 0

genus Brenneria 0

genus Photorhabdus 0

genus Providencia 0

genus Leminorella 0

genus Pluralibacter 0

genus Rahnella 0

genus Dickeya 0

genus Siccibacter 0

genus Erwinia 0

genus Cronobacter 0

genus Mangrovibacter 0

genus Plesiomonas 0

genus Moellerella 0

genus Budvicia 0

genus Yersinia 0

genus Obesumbacterium 0

genus Pseudocitrobacter 0

genus Serratia 0

genus Kluyvera 0

genus Raoultella 0

genus Leclercia 0

genus Kosakonia 0

genus Franconibacter 0

genus Hafnia 0

genus Escherichia/Shigella 0

genus Biostraticola 0

genus Trabulsiella 0

genus Pantoea 0

genus Sodalis 0

genus Xenorhabdus 0

genus Edwardsiella 0

genus Lonsdalea 0

genus Thorsellia 0

genus Buttiauxella 0

genus Ewingella 0

genus Gibbsiella 0

genus Yokenella 0

genus Proteus 0

genus Cosenzaea 0

genus Morganella 0

genus Shimwellia 0

genus Rosenbergiella 0

genus Pragia 0

genus Klebsiella 0

genus Cedecea 0

genus Buchnera 0

genus Citrobacter 0

genus Lelliottia 0

genus Arsenophonus 0

genus Salmonella 0

genus Phaseolibacter 0

genus Samsonia 0

order Pasteurellales 0

unclassified\_Pasteurellales 0

family Pasteurellaceae 0

unclassified\_Pasteurellaceae 0

genus Aggregatibacter 0

genus Necropsobacter 0

genus Gallibacterium 0

genus Actinobacillus 0

genus Pasteurella 0

genus Chelonobacter 0

genus Haemophilus 0

genus Vespertiliibacter 0

genus Mesocricetibacter 0

genus Phocoenobacter 0

genus Basfia 0

genus Nicoletella 0

genus Seminibacterium 0

genus Frederiksenia 0

genus Histophilus 0

genus Avibacterium 0

genus Bisgaardia 0

genus Lonepinella 0

genus Bibersteinia 0

genus Mannheimia 0

genus Volucribacter 0

genus Otariodibacter 0

genus Cricetibacter 0

order Acidithiobacillales 0

unclassified\_Acidithiobacillales 0

family Acidithiobacillaceae 0

unclassified\_Acidithiobacillaceae 0

genus Acidithiobacillus 0

family Thermithiobacillaceae 0

unclassified\_Thermithiobacillaceae 0

genus Thermithiobacillus 0

order Xanthomonadales 1

unclassified\_Xanthomonadales 0

family Algiphilaceae 0

unclassified\_Algiphilaceae 0

genus Algiphilus 0

family Sinobacteraceae 0

unclassified\_Sinobacteraceae 0

genus Solimonas 0

genus Alkanibacter 0

genus Steroidobacter 0

genus Povalibacter 0

genus Panacagrimonas 0

genus Hydrocarboniphaga 0

genus Fontimonas 0

genus Nevskia 0

family Xanthomonadaceae 1

unclassified\_Xanthomonadaceae 0

genus Luteimonas 0

genus Oleiagrimonas 0

genus Wohlfahrtiimonas 0

genus Mizugakiibacter 0

genus Metallibacterium 0

genus Pseudofulvimonas 0

genus Frateuria 0

genus Ignatzschineria 0

genus Rhodanobacter 0

genus Chiayiivirga 0

genus Tahibacter 0

genus Xanthomonas 0

genus Fulvimonas 0

genus Thermomonas 0

genus Dyella 0

genus Aquimonas 0

genus Stenotrophomonas 0

genus Arenimonas 0

genus Vulcaniibacterium 0

genus Aspromonas 0

genus Silanimonas 0

genus Rehaibacterium 0

genus Luteibacter 0

genus Rudaea 0

genus Dokdonella 0

genus Lysobacter 0

genus Xylella 0

genus Pseudoxanthomonas 1

order Cardiobacteriales 0

unclassified\_Cardiobacteriales 0

family Cardiobacteriaceae 0

unclassified\_Cardiobacteriaceae 0

genus Suttonella 0

genus Dichelobacter 0

genus Cardiobacterium 0

order "Vibrionales" 0

unclassified\_"Vibrionales" 0

family Vibrionaceae 0

unclassified\_Vibrionaceae 0

genus Salinivibrio 0

genus Vibrio 0

genus Enterovibrio 0

genus Aliivibrio 0

genus Lucibacterium 0

genus Photobacterium 0

genus Allomonas 0

genus Catenococcus 0

genus Grimontia 0

order Aeromonadales 0

unclassified\_Aeromonadales 0

family Aeromonadaceae 0

unclassified\_Aeromonadaceae 0

genus Zobellella 0

genus Aeromonas 0

genus Oceanimonas 0

genus Tolumonas 0

genus Oceanisphaera 0

family Succinivibrionaceae 0

unclassified\_Succinivibrionaceae 0

genus Succinivibrio 0

genus Ruminobacter 0

genus Anaerobiospirillum 0

genus Succinatimonas 0

genus Succinimonas 0

order Methylococcales 0

unclassified\_Methylococcales 0

family Methylococcaceae 0

unclassified\_Methylococcaceae 0

genus Methyloparacoccus 0

genus Methylocaldum 0

genus Methylomonas 0

genus Methylovulum 0

genus Methylosphaera 0

genus Methylothermus 0

genus Methylohalobius 0

genus Methylosoma 0

genus Methylomarinum 0

genus Methylobacter 0

genus Methyloprofundus 0

genus Methylococcus 0

genus Methylomicrobium 0

genus Methylogaea 0

genus Methylosarcina 0

genus Methylomarinovum 0

order Alteromonadales 0

unclassified\_Alteromonadales 0

family Psychromonadaceae 0

unclassified\_Psychromonadaceae 0

genus Psychromonas 0

family Ferrimonadaceae 0

unclassified\_Ferrimonadaceae 0

genus Paraferrimonas 0

genus Ferrimonas 0

family Idiomarinaceae 0

unclassified\_Idiomarinaceae 0

genus Idiomarina 0

genus Aliidiomarina 0

family Colwelliaceae 0

unclassified\_Colwelliaceae 0

genus Thalassomonas 0

genus Thalassotalea 0

genus Colwellia 0

family Celerinatantimonadaceae 0

unclassified\_Celerinatantimonadaceae 0

genus Celerinatantimonas 0

family Alteromonadales\_incertae\_sedis 0

unclassified\_Alteromonadales\_incertae\_sedis 0

genus Teredinibacter 0

genus Pseudomaricurvus 0

genus Neiella 0

genus Pseudoteredinibacter 0

genus Psychrobium 0

genus Maricurvus 0

genus Echinimonas 0

family Alteromonadaceae 0

unclassified\_Alteromonadaceae 0

genus Marinimicrobium 0

genus Catenovulum 0

genus Alteromonas 0

genus Agaribacter 0

genus Marinobacter 0

genus Paraglaciecola 0

genus Salinimonas 0

genus Chromatocurvus 0

genus Saccharophagus 0

genus Bowmanella 0

genus Aestuariibacter 0

genus Microbulbifer 0

genus Aliagarivorans 0

genus Alishewanella 0

genus Aliiglaciecola 0

genus Haliea 0

genus Agarivorans 0

genus Glaciecola 0

family Shewanellaceae 0

unclassified\_Shewanellaceae 0

genus Shewanella 0

family Moritellaceae 0

unclassified\_Moritellaceae 0

genus Moritella 0

genus Paramoritella 0

family Pseudoalteromonadaceae 0

unclassified\_Pseudoalteromonadaceae 0

genus Pseudoalteromonas 0

genus Psychrosphaera 0

genus Algicola 0

order Thiotrichales 0

unclassified\_Thiotrichales 0

family Francisellaceae 0

unclassified\_Francisellaceae 0

genus Francisella 0

family Thiotrichales\_incertae\_sedis 0

unclassified\_Thiotrichales\_incertae\_sedis 0

genus Fangia 0

family Thiotrichaceae 0

unclassified\_Thiotrichaceae 0

genus Thiothrix 0

genus Leucothrix 0

genus Beggiatoa 0

family Piscirickettsiaceae 0

unclassified\_Piscirickettsiaceae 0

genus Methylophaga 0

genus Sulfurivirga 0

genus Thioalkalimicrobium 0

genus Piscirickettsia 0

genus Cycloclasticus 0

genus Hydrogenovibrio 0

genus Galenea 0

genus Thiomicrospira 0

order Arenicellales 0

unclassified\_Arenicellales 0

family Arenicellaceae 0

unclassified\_Arenicellaceae 0

genus Arenicella 0

genus Perspicuibacter 0

class Oligoflexia 0

unclassified\_Oligoflexia 0

order Oligoflexales 0

unclassified\_Oligoflexales 0

family Oligoflexaceae 0

unclassified\_Oligoflexaceae 0

genus Oligoflexus 0

class "Zetaproteobacteria" 0

unclassified\_"Zetaproteobacteria" 0

order "Mariprofundales" 0

unclassified\_"Mariprofundales" 0

family "Mariprofundaceae" 0

unclassified\_"Mariprofundaceae" 0

genus Mariprofundus 0

phylum Hydrogenedentes 0

unclassified\_Hydrogenedentes 0

genus Candidatus Hydrogenedens 0

phylum Parcubacteria 0

unclassified\_Parcubacteria 0

genus Parcubacteria\_genera\_incertae\_sedis 0

phylum "Armatimonadetes" 0

unclassified\_"Armatimonadetes" 0

genus Armatimonadetes\_gp4 0

genus Armatimonadetes\_gp5 0

genus Armatimonadetes\_gp2 0

class Chthonomonadetes 0

unclassified\_Chthonomonadetes 0

order Chthonomonadales 0

unclassified\_Chthonomonadales 0

family Chthonomonadaceae 0

unclassified\_Chthonomonadaceae 0

genus Chthonomonas/Armatimonadetes\_gp3 0

class Fimbriimonadia 0

unclassified\_Fimbriimonadia 0

order Fimbriimonadales 0

unclassified\_Fimbriimonadales 0

family Fimbriimonadaceae 0

unclassified\_Fimbriimonadaceae 0

genus Fimbriimonas 0

genus Armatimonadetes\_gp7 0

genus Armatimonadetes\_gp6 0

class Armatimonadia 0

unclassified\_Armatimonadia 0

order Armatimonadales 0

unclassified\_Armatimonadales 0

family Armatimonadaceae 0

unclassified\_Armatimonadaceae 0

genus Armatimonas/Armatimonadetes\_gp1 0

phylum Candidatus Saccharibacteria 0

unclassified\_Candidatus Saccharibacteria 0

genus Saccharibacteria\_genera\_incertae\_sedis 0

phylum "Thermotogae" 0

unclassified\_"Thermotogae" 0

class Thermotogae 0

unclassified\_Thermotogae 0

order Thermotogales 0

unclassified\_Thermotogales 0

family Thermotogaceae 0

unclassified\_Thermotogaceae 0

genus Thermotoga 0

genus Mesoaciditoga 0

genus Pseudothermotoga 0

family Fervidobacteriaceae 0

unclassified\_Fervidobacteriaceae 0

genus Fervidobacterium 0

genus Thermosipho 0

order Kosmotogales 0

unclassified\_Kosmotogales 0

family Kosmotogaceae 0

unclassified\_Kosmotogaceae 0

genus Mesotoga 0

genus Kosmotoga 0

order Petrotogales 0

unclassified\_Petrotogales 0

family Petrotogaceae 0

unclassified\_Petrotogaceae 0

genus Geotoga 0

genus Oceanotoga 0

genus Petrotoga 0

genus Marinitoga 0

genus Defluviitoga 0

phylum Cloacimonetes 0

unclassified\_Cloacimonetes 0

genus Candidatus Cloacamonas 0

phylum Nitrospinae 0

unclassified\_Nitrospinae 0

class Nitrospinia 0

unclassified\_Nitrospinia 0

order Nitrospinales 0

unclassified\_Nitrospinales 0

family Nitrospinaceae 0

unclassified\_Nitrospinaceae 0

genus Nitrospina 0

phylum "Gemmatimonadetes" 0

unclassified\_"Gemmatimonadetes" 0

class Gemmatimonadetes 0

unclassified\_Gemmatimonadetes 0

order Gemmatimonadales 0

unclassified\_Gemmatimonadales 0

family Gemmatimonadaceae 0

unclassified\_Gemmatimonadaceae 0

genus Gemmatimonas 0

phylum "Chlorobi" 0

unclassified\_"Chlorobi" 0

class "Chlorobia" 0

unclassified\_"Chlorobia" 0

order Chlorobiales 0

unclassified\_Chlorobiales 0

family Chlorobiaceae 0

unclassified\_Chlorobiaceae 0

genus Chlorobaculum 0

genus Prosthecochloris 0

genus Chlorobium 0

genus Chloroherpeton 0

phylum Aminicenantes 0

unclassified\_Aminicenantes 0

genus Aminicenantes\_genera\_incertae\_sedis 0

phylum "Acidobacteria" 0

unclassified\_"Acidobacteria" 0

class Acidobacteria\_Gp26 0

unclassified\_Acidobacteria\_Gp26 0

genus Gp26 0

class Acidobacteria\_Gp25 0

unclassified\_Acidobacteria\_Gp25 0

genus Gp25 0

class Acidobacteria\_Gp9 0

unclassified\_Acidobacteria\_Gp9 0

genus Gp9 0

class Acidobacteria\_Gp24 0

unclassified\_Acidobacteria\_Gp24 0

genus Gp24 0

class Acidobacteria\_Gp23 0

unclassified\_Acidobacteria\_Gp23 0

genus Gp23 0

genus Thermoanaerobaculum 0

class Acidobacteria\_Gp22 0

unclassified\_Acidobacteria\_Gp22 0

genus Gp22 0

class Acidobacteria\_Gp21 0

unclassified\_Acidobacteria\_Gp21 0

genus Gp21 0

class Acidobacteria\_Gp4 0

unclassified\_Acidobacteria\_Gp4 0

genus Aridibacter 0

genus Pyrinomonas 0

genus Blastocatella 0

genus Gp4 0

class Acidobacteria\_Gp3 0

unclassified\_Acidobacteria\_Gp3 0

genus Bryobacter 0

genus Paludibaculum 0

genus Candidatus Solibacter 0

genus Gp3 0

class Acidobacteria\_Gp2 0

unclassified\_Acidobacteria\_Gp2 0

genus Gp2 0

class Acidobacteria\_Gp1 0

unclassified\_Acidobacteria\_Gp1 0

genus Granulicella 0

genus Candidatus Koribacter 0

genus Edaphobacter 0

genus Telmatobacter 0

genus Terriglobus 0

genus Acidipila 0

genus Acidobacterium 0

genus Gp1 0

genus Bryocella 0

genus Acidicapsa 0

class Acidobacteria\_Gp7 0

unclassified\_Acidobacteria\_Gp7 0

genus Gp7 0

class Acidobacteria\_Gp6 0

unclassified\_Acidobacteria\_Gp6 0

genus Gp6 0

class Acidobacteria\_Gp5 0

unclassified\_Acidobacteria\_Gp5 0

genus Gp5 0

class Holophagae 0

unclassified\_Holophagae 0

order Acanthopleuribacterales 0

unclassified\_Acanthopleuribacterales 0

family Acanthopleuribacteraceae 0

unclassified\_Acanthopleuribacteraceae 0

genus Acanthopleuribacter 0

order Holophagales 0

unclassified\_Holophagales 0

family Holophagaceae 0

unclassified\_Holophagaceae 0

genus Geothrix 0

genus Holophaga 0

class Acidobacteria\_Gp15 0

unclassified\_Acidobacteria\_Gp15 0

genus Gp15 0

class Acidobacteria\_Gp14 0

unclassified\_Acidobacteria\_Gp14 0

genus Gp14 0

class Acidobacteria\_Gp17 0

unclassified\_Acidobacteria\_Gp17 0

genus Gp17 0

class Acidobacteria\_Gp16 0

unclassified\_Acidobacteria\_Gp16 0

genus Gp16 0

class Acidobacteria\_Gp11 0

unclassified\_Acidobacteria\_Gp11 0

genus Gp11 0

class Acidobacteria\_Gp10 0

unclassified\_Acidobacteria\_Gp10 0

genus Gp10 0

class Acidobacteria\_Gp13 0

unclassified\_Acidobacteria\_Gp13 0

genus Gp13 0

class Acidobacteria\_Gp12 0

unclassified\_Acidobacteria\_Gp12 0

genus Gp12 0

class Acidobacteria\_Gp19 0

unclassified\_Acidobacteria\_Gp19 0

genus Gp19 0

class Acidobacteria\_Gp18 0

unclassified\_Acidobacteria\_Gp18 0

genus Gp18 0

class Acidobacteria\_Gp20 0

unclassified\_Acidobacteria\_Gp20 0

genus Gp20 0

phylum candidate division WPS-2 0

unclassified\_candidate division WPS-2 0

genus WPS-2\_genera\_incertae\_sedis 0

phylum candidate division WPS-1 0

unclassified\_candidate division WPS-1 0

genus WPS-1\_genera\_incertae\_sedis 0

phylum Poribacteria 0

unclassified\_Poribacteria 0

genus Poribacteria\_genera\_incertae\_sedis 0

phylum "Aquificae" 0

unclassified\_"Aquificae" 0

class Aquificae 0

unclassified\_Aquificae 0

order Desulfurobacteriales 0

unclassified\_Desulfurobacteriales 0

family Desulfurobacteriaceae 0

unclassified\_Desulfurobacteriaceae 0

genus Balnearium 0

genus Phorcysia 0

genus Thermovibrio 0

genus Desulfurobacterium 0

order Aquificales 0

unclassified\_Aquificales 0

family Hydrogenothermaceae 0

unclassified\_Hydrogenothermaceae 0

genus Hydrogenothermus 0

genus Sulfurihydrogenibium 0

genus Persephonella 0

genus Venenivibrio 0

family Aquificaceae 0

unclassified\_Aquificaceae 0

genus Hydrogenobacter 0

genus Thermocrinis 0

genus Hydrogenobaculum 0

genus Aquifex 0

genus Hydrogenivirga 0

family Aquificales\_incertae\_sedis 0

unclassified\_Aquificales\_incertae\_sedis 0

genus Thermosulfidibacter 0

phylum Atribacteria 0

unclassified\_Atribacteria 0

genus Atribacteria\_genera\_incertae\_sedis 0

phylum Firmicutes 0

unclassified\_Firmicutes 0

class Clostridia 0

unclassified\_Clostridia 0

order Natranaerobiales 0

unclassified\_Natranaerobiales 0

family Natranaerobiaceae 0

unclassified\_Natranaerobiaceae 0

genus Dethiobacter 0

genus Natranaerobius 0

genus Natranaerobaculum 0

genus Natronovirga 0

order Clostridiales 0

unclassified\_Clostridiales 0

family Clostridiales\_incertae\_sedis 0

unclassified\_Clostridiales\_incertae\_sedis 0

genus Proteiniborus 0

family Clostridiales\_Incertae Sedis XII 0

unclassified\_Clostridiales\_Incertae Sedis XII 0

genus Guggenheimella 0

genus Fusibacter 0

genus Acidaminobacter 0

family Clostridiales\_Incertae Sedis IV 0

unclassified\_Clostridiales\_Incertae Sedis IV 0

genus Caldicoprobacter 0

genus Mahella 0

family Clostridiales\_Incertae Sedis XVIII 0

unclassified\_Clostridiales\_Incertae Sedis XVIII 0

genus Symbiobacterium 0

family Peptoniphilaceae 0

unclassified\_Peptoniphilaceae 0

genus Anaerosphaera 0

genus Peptoniphilus 0

family Peptococcaceae 1 0

unclassified\_Peptococcaceae 1 0

genus Peptococcus 0

genus Syntrophobotulus 0

genus Desulfitispora 0

genus Desulfitobacterium 0

genus Desulfonispora 0

genus Desulfosporosinus 0

genus Thermincola 0

genus Desulfitibacter 0

genus Dehalobacter 0

family Clostridiales\_Incertae Sedis XIII 0

unclassified\_Clostridiales\_Incertae Sedis XIII 0

genus Mogibacterium 0

genus Anaerovorax 0

family Peptococcaceae 2 0

unclassified\_Peptococcaceae 2 0

genus Pelotomaculum 0

genus Sporotomaculum 0

genus Cryptanaerobacter 0

genus Desulfurispora 0

genus Desulfotomaculum 0

family Clostridiaceae 4 0

unclassified\_Clostridiaceae 4 0

genus Anaerosolibacter 0

genus Thermotalea 0

genus Salimesophilobacter 0

genus Caminicella 0

genus Geosporobacter 0

family Clostridiales\_Incertae Sedis XIV 0

unclassified\_Clostridiales\_Incertae Sedis XIV 0

genus Anaerobranca 0

genus Natranaerovirga 0

family Clostridiaceae 1 0

unclassified\_Clostridiaceae 1 0

genus Fonticella 0

genus Youngiibacter 0

genus Hathewaya 0

genus Fervidicella 0

genus Anaerobacter 0

genus Clostridium sensu stricto 0

genus Oxobacter 0

genus Proteiniclasticum 0

genus Thermobrachium 0

genus Oceanirhabdus 0

genus Caloramator 0

family Catabacteriaceae 0

unclassified\_Catabacteriaceae 0

genus Catabacter 0

family Clostridiaceae 3 0

unclassified\_Clostridiaceae 3 0

genus Clostridiisalibacter 0

genus Caloranaerobacter 0

genus Thermohalobacter 0

genus Sporosalibacterium 0

genus Brassicibacter 0

family Christensenellaceae 0

unclassified\_Christensenellaceae 0

genus Christensenella 0

family Lachnospiraceae 0

unclassified\_Lachnospiraceae 0

genus Oribacterium 0

genus Robinsoniella 0

genus Cellulosilyticum 0

genus Eisenbergiella 0

genus Syntrophococcus 0

genus Stomatobaculum 0

genus Ruminococcus2 0

genus Dorea 0

genus Johnsonella 0

genus Anaerosporobacter 0

genus Hungatella 0

genus Shuttleworthia 0

genus Marvinbryantia 0

genus Clostridium XlVa 0

genus Clostridium XlVb 0

genus Blautia 0

genus Lachnoanaerobaculum 0

genus Howardella 0

genus Parasporobacterium 0

genus Hespellia 0

genus Roseburia 0

genus Acetatifactor 0

genus Mobilitalea 0

genus Catonella 0

genus Lachnospira 0

genus Coprococcus 0

genus Pseudobutyrivibrio 0

genus Sporobacterium 0

genus Lactonifactor 0

genus Butyrivibrio 0

genus Lachnobacterium 0

genus Acetitomaculum 0

genus Anaerostipes 0

genus Murimonas 0

genus Moryella 0

genus Fusicatenibacter 0

genus Lachnospiracea\_incertae\_sedis 0

family Clostridiaceae 2 0

unclassified\_Clostridiaceae 2 0

genus Natronincola 0

genus Anaerovirgula 0

genus Anoxynatronum 0

genus Tindallia 0

genus Alkaliphilus 0

family Clostridiales\_Incertae Sedis XI 0

unclassified\_Clostridiales\_Incertae Sedis XI 0

genus Ezakiella 0

genus Gallicola 0

genus Murdochiella 0

genus Soehngenia 0

genus Helcococcus 0

genus Anaerosalibacter 0

genus Sedimentibacter 0

genus Anaerococcus 0

genus Parvimonas 0

genus Clostridium XII 0

genus Tissierella 0

genus Sporanaerobacter 0

genus Finegoldia 0

genus Tepidimicrobium 0

genus Dethiosulfatibacter 0

family Heliobacteriaceae 0

unclassified\_Heliobacteriaceae 0

genus Heliobacterium 0

genus Heliobacillus 0

genus Heliophilum 0

genus Hydrogenispora 0

genus Heliorestis 0

family Syntrophomonadaceae 0

unclassified\_Syntrophomonadaceae 0

genus Syntrophothermus 0

genus Thermohydrogenium 0

genus Pelospora 0

genus Thermosyntropha 0

genus Syntrophomonas 0

family Ruminococcaceae 0

unclassified\_Ruminococcaceae 0

genus Acetanaerobacterium 0

genus Pseudobacteroides 0

genus Intestinimonas 0

genus Ethanoligenens 0

genus Anaerobacterium 0

genus Fastidiosipila 0

genus Hydrogenoanaerobacterium 0

genus Clostridium IV 0

genus Oscillibacter 0

genus Anaerofilum 0

genus Papillibacter 0

genus Ercella 0

genus Faecalibacterium 0

genus Acetivibrio 0

genus Butyricicoccus 0

genus Clostridium III 0

genus Gemmiger 0

genus Ruminococcus 0

genus Cellulosibacter 0

genus Flavonifractor 0

genus Subdoligranulum 0

genus Anaerotruncus 0

genus Pseudoflavonifractor 0

genus Sporobacter 0

genus Saccharofermentans 0

family Clostridiales\_Incertae Sedis III 0

unclassified\_Clostridiales\_Incertae Sedis III 0

genus Fervidicola 0

genus Thermosediminibacter 0

genus Tepidanaerobacter 0

genus Thermovenabulum 0

genus Thermovorax 0

genus Caldicellulosiruptor 0

genus Thermoanaerobacterium 0

genus Caldanaerovirga 0

genus Vallitalea 0

family Eubacteriaceae 0

unclassified\_Eubacteriaceae 0

genus Eubacterium 0

genus Garciella 0

genus Pseudoramibacter 0

genus Alkalibacter 0

genus Acetobacterium 0

genus Alkalibaculum 0

genus Anaerofustis 0

family Proteinivoraceae 0

unclassified\_Proteinivoraceae 0

genus Proteinivorax 0

family Clostridiales\_Incertae Sedis XVII 0

unclassified\_Clostridiales\_Incertae Sedis XVII 0

genus Thermaerobacter 0

genus Sulfobacillus 0

family Peptostreptococcaceae 0

unclassified\_Peptostreptococcaceae 0

genus Filifactor 0

genus Intestinibacter 0

genus Tepidibacter 0

genus Proteocatella 0

genus Peptostreptococcus 0

genus Asaccharospora 0

genus Sporacetigenium 0

genus Romboutsia 0

genus Terrisporobacter 0

genus Acetoanaerobium 0

genus Clostridium XI 0

genus Peptostreptococcaceae\_incertae\_sedis 0

family Clostridiales\_Incertae Sedis XVI 0

unclassified\_Clostridiales\_Incertae Sedis XVI 0

genus Carboxydocella 0

family Defluviitaleaceae 0

unclassified\_Defluviitaleaceae 0

genus Defluviitalea 0

family Gracilibacteraceae 0

unclassified\_Gracilibacteraceae 0

genus Gracilibacter 0

genus Lutispora 0

order Thermoanaerobacterales 0

unclassified\_Thermoanaerobacterales 0

family Thermodesulfobiaceae 0

unclassified\_Thermodesulfobiaceae 0

genus Thermodesulfobium 0

genus Coprothermobacter 0

family Thermoanaerobacteraceae 0

unclassified\_Thermoanaerobacteraceae 0

genus Caldanaerobius 0

genus Desulfovirgula 0

genus Syntrophaceticus 0

genus Calderihabitans 0

genus Carboxydothermus 0

genus Caldanaerobacter 0

genus Thermoanaerobacter 0

genus Gelria 0

genus Thermacetogenium 0

genus Caloribacterium 0

genus Moorella 0

genus Brockia 0

genus Ammonifex 0

genus Thermanaeromonas 0

order Halanaerobiales 0

unclassified\_Halanaerobiales 0

family Halanaerobiaceae 0

unclassified\_Halanaerobiaceae 0

genus Halanaerobium 0

genus Halarsenatibacter 0

genus Halothermothrix 0

genus Halocella 0

family Halobacteroidaceae 0

unclassified\_Halobacteroidaceae 0

genus Halonatronum 0

genus Selenihalanaerobacter 0

genus Orenia 0

genus Acetohalobium 0

genus Halanaerobacter 0

genus Natroniella 0

genus Halanaerobaculum 0

genus Halobacteroides 0

genus Sporohalobacter 0

genus Fuchsiella 0

genus Anoxybacter 0

class Thermolithobacteria 0

unclassified\_Thermolithobacteria 0

order Thermolithobacterales 0

unclassified\_Thermolithobacterales 0

family Thermolithobacteraceae 0

unclassified\_Thermolithobacteraceae 0

genus Thermolithobacter 0

class Bacilli 0

unclassified\_Bacilli 0

order Lactobacillales 0

unclassified\_Lactobacillales 0

family Streptococcaceae 0

unclassified\_Streptococcaceae 0

genus Streptococcus 0

genus Lactococcus 0

genus Lactovum 0

family Aerococcaceae 0

unclassified\_Aerococcaceae 0

genus Dolosicoccus 0

genus Facklamia 0

genus Aerococcus 0

genus Ignavigranum 0

genus Abiotrophia 0

genus Globicatella 0

genus Eremococcus 0

family Enterococcaceae 0

unclassified\_Enterococcaceae 0

genus Tetragenococcus 0

genus Enterococcus 0

genus Vagococcus 0

genus Bavariicoccus 0

genus Melissococcus 0

genus Pilibacter 0

family Leuconostocaceae 0

unclassified\_Leuconostocaceae 0

genus Leuconostoc 0

genus Fructobacillus 0

genus Weissella 0

genus Oenococcus 0

family Carnobacteriaceae 0

unclassified\_Carnobacteriaceae 0

genus Alloiococcus 0

genus Atopostipes 0

genus Dolosigranulum 0

genus Alkalibacterium 0

genus Lacticigenium 0

genus Marinilactibacillus 0

genus Carnobacterium 0

genus Isobaculum 0

genus Trichococcus 0

genus Allofustis 0

genus Catellicoccus 0

genus Granulicatella 0

genus Atopococcus 0

genus Jeotgalibaca 0

genus Pisciglobus 0

genus Desemzia 0

genus Atopobacter 0

family Lactobacillaceae 0

unclassified\_Lactobacillaceae 0

genus Pediococcus 0

genus Lactobacillus 0

order Bacillales 0

unclassified\_Bacillales 0

family Sporolactobacillaceae 0

unclassified\_Sporolactobacillaceae 0

genus Texcoconibacillus 0

genus Sporolactobacillaceae\_incertae\_sedis 0

genus Salisediminibacterium 0

genus Sporolactobacillus 0

family Bacillaceae 1 0

unclassified\_Bacillaceae 1 0

genus Domibacillus 0

genus Alteribacillus 0

genus Caldibacillus 0

genus Saccharococcus 0

genus Anaerobacillus 0

genus Thermolongibacillus 0

genus Fictibacillus 0

genus Falsibacillus 0

genus Geobacillus 0

genus Anoxybacillus 0

genus Bacillus 0

genus Aeribacillus 0

family Paenibacillaceae 2 0

unclassified\_Paenibacillaceae 2 0

genus Aneurinibacillus 0

genus Oxalophagus 0

genus Ammoniphilus 0

family Bacillaceae 2 0

unclassified\_Bacillaceae 2 0

genus Halobacillus 0

genus Pontibacillus 0

genus Tepidibacillus 0

genus Filobacillus 0

genus Sinibacillus 0

genus Natribacillus 0

genus Sediminibacillus 0

genus Oceanobacillus 0

genus Terribacillus 0

genus Sinobaca 0

genus Tuberibacillus 0

genus Gracilibacillus 0

genus Paraliobacillus 0

genus Salinibacillus 0

genus Pullulanibacillus 0

genus Vulcanibacillus 0

genus Streptohalobacillus 0

genus Alkalibacillus 0

genus Compostibacillus 0

genus Halalkalibacillus 0

genus Ornithinibacillus 0

genus Cerasibacillus 0

genus Salimicrobium 0

genus Virgibacillus 0

genus Salirhabdus 0

genus Lentibacillus 0

genus Geomicrobium 0

genus Salsuginibacillus 0

genus Piscibacillus 0

genus Aquibacillus 0

genus Amphibacillus 0

genus Melghiribacillus 0

genus Marinococcus 0

genus Thalassobacillus 0

genus Tenuibacillus 0

genus Halolactibacillus 0

genus Paucisalibacillus 0

genus Aquisalibacillus 0

genus Natronobacillus 0

genus Allobacillus 0

genus Saliterribacillus 0

family Paenibacillaceae 1 0

unclassified\_Paenibacillaceae 1 0

genus Fontibacillus 0

genus Cohnella 0

genus Brevibacillus 0

genus Thermobacillus 0

genus Paenibacillus 0

genus Ammoniibacillus 0

genus Saccharibacillus 0

family Bacillales\_Incertae Sedis XII 0

unclassified\_Bacillales\_Incertae Sedis XII 0

genus Exiguobacterium 0

family Alicyclobacillaceae 0

unclassified\_Alicyclobacillaceae 0

genus Kyrpidia 0

genus Effusibacillus 0

genus Tumebacillus 0

genus Alicyclobacillus 0

family Planococcaceae 0

unclassified\_Planococcaceae 0

genus Jeotgalibacillus 0

genus Rummeliibacillus 0

genus Filibacter 0

genus Chungangia 0

genus Ureibacillus 0

genus Planococcus 0

genus Caryophanon 0

genus Kurthia 0

genus Paenisporosarcina 0

genus Chryseomicrobium 0

genus Sporosarcina 0

genus Lysinibacillus 0

genus Psychrobacillus 0

genus Bhargavaea 0

genus Planococcaceae\_incertae\_sedis 0

genus Planomicrobium 0

genus Viridibacillus 0

genus Solibacillus 0

family Staphylococcaceae 0

unclassified\_Staphylococcaceae 0

genus Salinicoccus 0

genus Macrococcus 0

genus Nosocomiicoccus 0

genus Staphylococcus 0

genus Jeotgalicoccus 0

family Bacillales\_incertae\_sedis 0

unclassified\_Bacillales\_incertae\_sedis 0

genus Desulfuribacillus 0

genus Hydrogenibacillus 0

genus Caldalkalibacillus 0

genus Calditerricola 0

genus Microaerobacter 0

family Thermoactinomycetaceae 1 0

unclassified\_Thermoactinomycetaceae 1 0

genus Hazenella 0

genus Melghirimyces 0

genus Salinithrix 0

genus Laceyella 0

genus Shimazuella 0

genus Desmospora 0

genus Kroppenstedtia 0

genus Marininema 0

genus Thermoactinomyces 0

genus Geothermomicrobium 0

genus Lihuaxuella 0

genus Thermoflavimicrobium 0

family Thermoactinomycetaceae 2 0

unclassified\_Thermoactinomycetaceae 2 0

genus Seinonella 0

genus Mechercharimyces 0

genus Planifilum 0

genus Polycladomyces 0

family Bacillales\_Incertae Sedis X 0

unclassified\_Bacillales\_Incertae Sedis X 0

genus Thermicanus 0

family Listeriaceae 0

unclassified\_Listeriaceae 0

genus Brochothrix 0

genus Listeria 0

family Bacillales\_Incertae Sedis XI 0

unclassified\_Bacillales\_Incertae Sedis XI 0

genus Gemella 0

class Negativicutes 0

unclassified\_Negativicutes 0

order Selenomonadales 0

unclassified\_Selenomonadales 0

family Veillonellaceae 0

unclassified\_Veillonellaceae 0

genus Megamonas 0

genus "Anaerospora" 0

genus Sporolituus 0

genus Propionispira 0

genus Allisonella 0

genus Anaerovibrio 0

genus Negativicoccus 0

genus "Desulfosporomusa" 0

genus Anaeroarcus 0

genus Centipeda 0

genus Anaeromusa 0

genus Mitsuokella 0

genus Schwartzia 0

genus Dialister 0

genus Pelosinus 0

genus Thermosinus 0

genus Sporomusa 0

genus Acetonema 0

genus Propionispora 0

genus "Psychrosinus" 0

genus Pectinatus 0

genus Anaerosinus 0

genus Dendrosporobacter 0

genus Veillonella 0

genus Anaeroglobus 0

genus Megasphaera 0

genus Selenomonas 0

family Acidaminococcaceae 0

unclassified\_Acidaminococcaceae 0

genus Succinispira 0

genus Succiniclasticum 0

genus Acidaminococcus 0

genus Phascolarctobacterium 0

class Erysipelotrichia 0

unclassified\_Erysipelotrichia 0

order Erysipelotrichales 0

unclassified\_Erysipelotrichales 0

family Erysipelotrichaceae 0

unclassified\_Erysipelotrichaceae 0

genus Erysipelothrix 0

genus Sharpea 0

genus Coprobacillus 0

genus Erysipelotrichaceae\_incertae\_sedis 0

genus Faecalitalea 0

genus Kandleria 0

genus Solobacterium 0

genus Catenisphaera 0

genus Catenibacterium 0

genus Allobaculum 0

genus Faecalicoccus 0

genus Turicibacter 0

genus Holdemania 0

genus Bulleidia 0

genus Eggerthia 0

genus Holdemanella 0

genus Clostridium XVIII 0

phylum Marinimicrobia 0

unclassified\_Marinimicrobia 0

genus Marinimicrobia\_genera\_incertae\_sedis 0

phylum "Synergistetes" 0

unclassified\_"Synergistetes" 0

class Synergistia 0

unclassified\_Synergistia 0

order Synergistales 0

unclassified\_Synergistales 0

family Synergistaceae 0

unclassified\_Synergistaceae 0

genus Aminiphilus 0

genus Thermovirga 0

genus Jonquetella 0

genus Aminomonas 0

genus Anaerobaculum 0

genus Lactivibrio 0

genus Aminivibrio 0

genus Pyramidobacter 0

genus Fretibacterium 0

genus Dethiosulfovibrio 0

genus Aminobacterium 0

genus Thermanaerovibrio 0

genus Synergistes 0

genus Cloacibacillus 0

phylum "Deinococcus-Thermus" 0

unclassified\_"Deinococcus-Thermus" 0

class Deinococci 0

unclassified\_Deinococci 0

order Deinococcales 0

unclassified\_Deinococcales 0

family Deinococcaceae 0

unclassified\_Deinococcaceae 0

genus Deinobacterium 0

genus Deinococcus 0

family Trueperaceae 0

unclassified\_Trueperaceae 0

genus Truepera 0

order Thermales 0

unclassified\_Thermales 0

family Thermaceae 0

unclassified\_Thermaceae 0

genus Oceanithermus 0

genus Meiothermus 0

genus Thermus 0

genus Vulcanithermus 0

genus Marinithermus 0

genus Rhabdothermus 0

phylum Nitrospirae 0

unclassified\_Nitrospirae 0

class "Nitrospira" 0

unclassified\_"Nitrospira" 0

order "Nitrospirales" 0

unclassified\_"Nitrospirales" 0

family "Nitrospiraceae" 0

unclassified\_"Nitrospiraceae" 0

genus Leptospirillum 0

genus Nitrospira 0

genus Thermodesulfovibrio 0

phylum "Verrucomicrobia" 0

unclassified\_"Verrucomicrobia" 0

class Subdivision5 0

unclassified\_Subdivision5 0

genus Subdivision5\_genera\_incertae\_sedis 0

class Spartobacteria 0

unclassified\_Spartobacteria 0

genus Spartobacteria\_genera\_incertae\_sedis 0

genus Terrimicrobium 0

genus Xiphinematobacter 0

class Opitutae 0

unclassified\_Opitutae 0

order Puniceicoccales 0

unclassified\_Puniceicoccales 0

family Puniceicoccaceae 0

unclassified\_Puniceicoccaceae 0

genus Coraliomargarita 0

genus Puniceicoccus 0

genus Cerasicoccus 0

genus Pelagicoccus 0

order Opitutales 0

unclassified\_Opitutales 0

family Opitutaceae 0

unclassified\_Opitutaceae 0

genus Opitutus 0

genus Alterococcus 0

class Verrucomicrobiae 0

unclassified\_Verrucomicrobiae 0

order Verrucomicrobiales 0

unclassified\_Verrucomicrobiales 0

family Verrucomicrobiaceae 0

unclassified\_Verrucomicrobiaceae 0

genus Luteolibacter 0

genus Roseibacillus 0

genus Verrucomicrobium 0

genus Persicirhabdus 0

genus Prosthecobacter 0

genus Brevifollis 0

genus Haloferula 0

genus Roseimicrobium 0

genus Akkermansia 0

family "Rubritaleaceae" 0

unclassified\_"Rubritaleaceae" 0

genus Rubritalea 0

class Subdivision3 0

unclassified\_Subdivision3 0

genus Subdivision3\_genera\_incertae\_sedis 0

genus Limisphaera 0

phylum Acetothermia 0

unclassified\_Acetothermia 0

genus Acetothermia\_genera\_incertae\_sedis 0

phylum "Dictyoglomi" 0

unclassified\_"Dictyoglomi" 0

class "Dictyoglomia" 0

unclassified\_"Dictyoglomia" 0

order "Dictyoglomales" 0

unclassified\_"Dictyoglomales" 0

family "Dictyoglomaceae" 0

unclassified\_"Dictyoglomaceae" 0

genus Dictyoglomus 0

phylum "Planctomycetes" 0

unclassified\_"Planctomycetes" 0

class Phycisphaerae 0

unclassified\_Phycisphaerae 0

order Phycisphaerales 0

unclassified\_Phycisphaerales 0

family Phycisphaeraceae 0

unclassified\_Phycisphaeraceae 0

genus Phycisphaera 0

order Tepidisphaerales 0

unclassified\_Tepidisphaerales 0

family Tepidisphaeraceae 0

unclassified\_Tepidisphaeraceae 0

genus Tepidisphaera 0

class Planctomycetia 0

unclassified\_Planctomycetia 0

order Planctomycetales 0

unclassified\_Planctomycetales 0

family Planctomycetaceae 0

unclassified\_Planctomycetaceae 0

genus Schlesneria 0

genus Planctomicrobium 0

genus Aquisphaera 0

genus Zavarzinella 0

genus Planctopirus 0

genus Thermogutta 0

genus Rhodopirellula 0

genus Gemmata 0

genus Rubinisphaera 0

genus Blastopirellula 0

genus Gimesia 0

genus Telmatocola 0

genus Isosphaera 0

genus Singulisphaera 0

genus Pirellula 0

order Candidatus Brocadiales 0

unclassified\_Candidatus Brocadiales 0

family Candidatus Brocadiaceae 0

unclassified\_Candidatus Brocadiaceae 0

genus Candidatus Anammoxoglobus 0

genus Candidatus Kuenenia 0

genus Candidatus Brocadia 0

genus Candidatus Scalindua 0

phylum Microgenomates 0

unclassified\_Microgenomates 0

genus Microgenomates\_genera\_incertae\_sedis 0

phylum "Elusimicrobia" 0

unclassified\_"Elusimicrobia" 0

class Endomicrobia 0

unclassified\_Endomicrobia 0

genus Candidatus Endomicrobium 0

class Elusimicrobia 0

unclassified\_Elusimicrobia 0

order Elusimicrobiales 0

unclassified\_Elusimicrobiales 0

family Elusimicrobiaceae 0

unclassified\_Elusimicrobiaceae 0

genus Elusimicrobium 0

phylum "Tenericutes" 0

unclassified\_"Tenericutes" 0

class Mollicutes 0

unclassified\_Mollicutes 0

order Mycoplasmatales 0

unclassified\_Mycoplasmatales 0

family Mycoplasmataceae 0

unclassified\_Mycoplasmataceae 0

genus Ureaplasma 0

genus Mycoplasma 0

order Anaeroplasmatales 0

unclassified\_Anaeroplasmatales 0

family Anaeroplasmataceae 0

unclassified\_Anaeroplasmataceae 0

genus Anaeroplasma 0

genus Asteroleplasma 0

order Entomoplasmatales 0

unclassified\_Entomoplasmatales 0

family Spiroplasmataceae 0

unclassified\_Spiroplasmataceae 0

genus Spiroplasma 0

family Entomoplasmataceae 0

unclassified\_Entomoplasmataceae 0

genus Entomoplasma 0

genus Mesoplasma 0

order Acholeplasmatales 0

unclassified\_Acholeplasmatales 0

family Acholeplasmataceae 0

unclassified\_Acholeplasmataceae 0

genus Acholeplasma 0

order Haloplasmatales 0

unclassified\_Haloplasmatales 0

family Haloplasmataceae 0

unclassified\_Haloplasmataceae 0

genus Haloplasma 0

phylum "Fibrobacteres" 0

unclassified\_"Fibrobacteres" 0

class Chitinivibrionia 0

unclassified\_Chitinivibrionia 0

order Chitinivibrionales 0

unclassified\_Chitinivibrionales 0

family Chitinivibrionaceae 0

unclassified\_Chitinivibrionaceae 0

genus Chitinivibrio 0

class "Fibrobacteria" 0

unclassified\_"Fibrobacteria" 0

order "Fibrobacterales" 0

unclassified\_"Fibrobacterales" 0

family "Fibrobacteraceae" 0

unclassified\_"Fibrobacteraceae" 0

genus Fibrobacter 0

phylum "Lentisphaerae" 0

unclassified\_"Lentisphaerae" 0

class Oligosphaeria 0

unclassified\_Oligosphaeria 0

order Oligosphaerales 0

unclassified\_Oligosphaerales 0

family Oligosphaeraceae 0

unclassified\_Oligosphaeraceae 0

genus Oligosphaera 0

class "Lentisphaeria" 0

unclassified\_"Lentisphaeria" 0

order Victivallales 0

unclassified\_Victivallales 0

family "Victivallaceae" 0

unclassified\_"Victivallaceae" 0

genus Victivallis 0

order Lentisphaerales 0

unclassified\_Lentisphaerales 0

family "Lentisphaeraceae" 0

unclassified\_"Lentisphaeraceae" 0

genus Lentisphaera 0

phylum "Thermodesulfobacteria" 0

unclassified\_"Thermodesulfobacteria" 0

class Thermodesulfobacteria 0

unclassified\_Thermodesulfobacteria 0

order Thermodesulfobacteriales 0

unclassified\_Thermodesulfobacteriales 0

family Thermodesulfobacteriaceae 0

unclassified\_Thermodesulfobacteriaceae 0

genus Thermosulfurimonas 0

genus Thermodesulfobacterium 0

genus Caldimicrobium 0

genus Thermodesulfatator 0

phylum Ignavibacteriae 0

unclassified\_Ignavibacteriae 0

class Ignavibacteria 0

unclassified\_Ignavibacteria 0

order Ignavibacteriales 0

unclassified\_Ignavibacteriales 0

family Ignavibacteriaceae 0

unclassified\_Ignavibacteriaceae 0

genus Melioribacter 0

genus Ignavibacterium 0

phylum "Chloroflexi" 0

unclassified\_"Chloroflexi" 0

class Ktedonobacteria 0

unclassified\_Ktedonobacteria 0

order Thermogemmatisporales 0

unclassified\_Thermogemmatisporales 0

family Thermogemmatisporaceae 0

unclassified\_Thermogemmatisporaceae 0

genus Thermogemmatispora 0

order Ktedonobacterales 0

unclassified\_Ktedonobacterales 0

family Ktedonobacteraceae 0

unclassified\_Ktedonobacteraceae 0

genus Ktedonobacter 0

family Thermosporotrichaceae 0

unclassified\_Thermosporotrichaceae 0

genus Thermosporothrix 0

class Ardenticatenia 0

unclassified\_Ardenticatenia 0

order Ardenticatenales 0

unclassified\_Ardenticatenales 0

family Ardenticatenaceae 0

unclassified\_Ardenticatenaceae 0

genus Ardenticatena 0

class Dehalococcoidia 0

unclassified\_Dehalococcoidia 0

order Dehalococcoidales 0

unclassified\_Dehalococcoidales 0

family Dehalococcoidaceae 0

unclassified\_Dehalococcoidaceae 0

genus Dehalococcoides 0

class "Dehalococcoidetes" 0

unclassified\_"Dehalococcoidetes" 0

genus Dehalogenimonas 0

class Anaerolineae 0

unclassified\_Anaerolineae 0

order Anaerolineales 0

unclassified\_Anaerolineales 0

family Anaerolineaceae 0

unclassified\_Anaerolineaceae 0

genus Thermomarinilinea 0

genus Levilinea 0

genus Leptolinea 0

genus Pelolinea 0

genus Anaerolinea 0

genus Longilinea 0

genus Bellilinea 0

genus Ornatilinea 0

class Thermomicrobia 0

unclassified\_Thermomicrobia 0

subclass Sphaerobacteridae 0

unclassified\_Sphaerobacteridae 0

order Sphaerobacterales 0

unclassified\_Sphaerobacterales 0

suborder "Sphaerobacterineae" 0

unclassified\_"Sphaerobacterineae" 0

family Sphaerobacteraceae 0

unclassified\_Sphaerobacteraceae 0

genus Sphaerobacter 0

genus Nitrolancea 0

order Thermomicrobiales 0

unclassified\_Thermomicrobiales 0

family Thermomicrobiaceae 0

unclassified\_Thermomicrobiaceae 0

genus Thermorudis 0

genus Thermomicrobium 0

class Thermoflexia 0

unclassified\_Thermoflexia 0

order Thermoflexales 0

unclassified\_Thermoflexales 0

family Thermoflexaceae 0

unclassified\_Thermoflexaceae 0

genus Thermoflexus 0

class Caldilineae 0

unclassified\_Caldilineae 0

order Caldilineales 0

unclassified\_Caldilineales 0

family Caldilineaceae 0

unclassified\_Caldilineaceae 0

genus Litorilinea 0

genus Caldilinea 0

class Chloroflexia 0

unclassified\_Chloroflexia 0

order "Herpetosiphonales" 0

unclassified\_"Herpetosiphonales" 0

family "Herpetosiphonaceae" 0

unclassified\_"Herpetosiphonaceae" 0

genus Herpetosiphon 0

order "Chloroflexales" 0

unclassified\_"Chloroflexales" 0

suborder Chloroflexineae 0

unclassified\_Chloroflexineae 0

family Oscillochloridaceae 0

unclassified\_Oscillochloridaceae 0

genus Oscillochloris 0

family Chloroflexaceae 0

unclassified\_Chloroflexaceae 0

genus Roseiflexus 0

genus Heliothrix 0

genus Chloroflexus 0

order Kallotenuales 0

unclassified\_Kallotenuales 0

family Kallotenuaceae 0

unclassified\_Kallotenuaceae 0

genus Kallotenue 0

phylum SR1 0

unclassified\_SR1 0

genus SR1\_genera\_incertae\_sedis 0

phylum "Chlamydiae" 0

unclassified\_"Chlamydiae" 0

class Chlamydiia 0

unclassified\_Chlamydiia 0

order Chlamydiales 0

unclassified\_Chlamydiales 0

family Parachlamydiaceae 0

unclassified\_Parachlamydiaceae 0

genus Neochlamydia 0

genus Parachlamydia 0

family Simkaniaceae 0

unclassified\_Simkaniaceae 0

genus Simkania 0

family Waddliaceae 0

unclassified\_Waddliaceae 0

genus Waddlia 0

family Chlamydiaceae 0

unclassified\_Chlamydiaceae 0

genus Chlamydophila 0

genus Chlamydia 0

domain Archaea 0

unclassified\_Archaea 0

phylum Pacearchaeota 0

unclassified\_Pacearchaeota 0

genus Pacearchaeota Incertae Sedis AR13 0

phylum Diapherotrites 0

unclassified\_Diapherotrites 0

genus Diapherotrites Incertae Sedis AR10 0

genus Candidatus Iainarchaeum 0

phylum "Euryarchaeota" 0

unclassified\_"Euryarchaeota" 0

class Methanobacteria 0

unclassified\_Methanobacteria 0

order Methanobacteriales 0

unclassified\_Methanobacteriales 0

family Methanothermaceae 0

unclassified\_Methanothermaceae 0

genus Methanothermus 0

family Methanobacteriaceae 0

unclassified\_Methanobacteriaceae 0

genus Methanosphaera 0

genus Methanothermobacter 0

genus Methanobrevibacter 0

genus Methanobacterium 0

class Methanococci 0

unclassified\_Methanococci 0

order Methanococcales 0

unclassified\_Methanococcales 0

family Methanocaldococcaceae 0

unclassified\_Methanocaldococcaceae 0

genus Methanocaldococcus 0

genus Methanotorris 0

family Methanococcaceae 0

unclassified\_Methanococcaceae 0

genus Methanothermococcus 0

genus Methanococcus 0

class Thermoplasmata 0

unclassified\_Thermoplasmata 0

order Methanomassiliicoccales 0

unclassified\_Methanomassiliicoccales 0

family Methanomassiliicoccaceae 0

unclassified\_Methanomassiliicoccaceae 0

genus Methanomassiliicoccus 0

order Thermoplasmatales 0

unclassified\_Thermoplasmatales 0

family Thermoplasmataceae 0

unclassified\_Thermoplasmataceae 0

genus Thermoplasma 0

family Picrophilaceae 0

unclassified\_Picrophilaceae 0

genus Picrophilus 0

family Thermoplasmatales\_incertae\_sedis 0

unclassified\_Thermoplasmatales\_incertae\_sedis 0

genus Thermogymnomonas 0

family Ferroplasmaceae 0

unclassified\_Ferroplasmaceae 0

genus Acidiplasma 0

genus Ferroplasma 0

class Thermococci 0

unclassified\_Thermococci 0

order Thermococcales 0

unclassified\_Thermococcales 0

family Thermococcaceae 0

unclassified\_Thermococcaceae 0

genus Pyrococcus 0

genus Thermococcus 0

genus Palaeococcus 0

class "Methanomicrobia" 0

unclassified\_"Methanomicrobia" 0

order Methanocellales 0

unclassified\_Methanocellales 0

family Methanocellaceae 0

unclassified\_Methanocellaceae 0

genus Methanocella 0

order Methanosarcinales 0

unclassified\_Methanosarcinales 0

family Methermicoccaceae 0

unclassified\_Methermicoccaceae 0

genus Methermicoccus 0

family Methanosarcinaceae 0

unclassified\_Methanosarcinaceae 0

genus Methanococcoides 0

genus Methanimicrococcus 0

genus Methanohalophilus 0

genus Methanosalsum 0

genus Methanolobus 0

genus Methanosarcina 0

genus Methanomethylovorans 0

genus Methanohalobium 0

family Methanotrichaceae 0

unclassified\_Methanotrichaceae 0

genus Methanothrix 0

order Methanomicrobiales 0

unclassified\_Methanomicrobiales 0

family Methanospirillaceae 0

unclassified\_Methanospirillaceae 0

genus Methanospirillum 0

family Methanoregulaceae 0

unclassified\_Methanoregulaceae 0

genus Methanosphaerula 0

genus Methanoregula 0

genus Methanolinea 0

family Methanomicrobiaceae 0

unclassified\_Methanomicrobiaceae 0

genus Methanomicrobium 0

genus Methanogenium 0

genus Methanoplanus 0

genus Methanolacinia 0

genus Methanoculleus 0

genus Methanofollis 0

family Methanocorpusculaceae 0

unclassified\_Methanocorpusculaceae 0

genus Methanocorpusculum 0

family Methanomicrobiales\_incertae\_sedis 0

unclassified\_Methanomicrobiales\_incertae\_sedis 0

genus Methanocalculus 0

class Archaeoglobi 0

unclassified\_Archaeoglobi 0

order Archaeoglobales 0

unclassified\_Archaeoglobales 0

family Archaeoglobaceae 0

unclassified\_Archaeoglobaceae 0

genus Ferroglobus 0

genus Geoglobus 0

genus Archaeoglobus 0

class Halobacteria 0

unclassified\_Halobacteria 0

order Natrialbales 0

unclassified\_Natrialbales 0

family Natrialbaceae 0

unclassified\_Natrialbaceae 0

genus Halovivax 0

genus Natronobacterium 0

genus Haloterrigena 0

genus Natribaculum 0

genus Natronorubrum 0

genus Halopiger 0

genus Natronococcus 0

genus Halostagnicola 0

genus Natronolimnobius 0

genus Natrialba 0

genus Natrinema 0

order Halobacteriales 0

unclassified\_Halobacteriales 0

family Halobacteriaceae 0

unclassified\_Halobacteriaceae 0

genus Natronomonas 0

genus Halosimplex 0

genus Salinarchaeum 0

genus Salarchaeum 0

genus Salinirubrum 0

genus Halomicroarcula 0

genus Halobiforma 0

genus Halorussus 0

genus Halorientalis 0

genus Haloarcula 0

genus Halomarina 0

genus Halobacterium 0

genus Halalkalicoccus 0

genus Halovenus 0

genus Halocalculus 0

genus Halorubellus 0

genus Halococcus 0

genus Halorhabdus 0

genus Halarchaeum 0

genus Halapricum 0

genus Haladaptatus 0

genus Halomicrobium 0

genus Haloarchaeobius 0

genus Natronoarchaeum 0

order Haloferacales 0

unclassified\_Haloferacales 0

family Haloferacaceae 0

unclassified\_Haloferacaceae 0

genus Salinigranum 0

genus Halobellus 0

genus Halonotius 0

genus Halohasta 0

genus Halogranum 0

genus Halopenitus 0

genus Halogeometricum 0

genus Haloplanus 0

genus Halopelagius 0

genus Halobaculum 0

genus Haloferax 0

genus Halorubrum 0

genus Haloquadratum 0

genus Halolamina 0

class Methanopyri 0

unclassified\_Methanopyri 0

order Methanopyrales 0

unclassified\_Methanopyrales 0

family Methanopyraceae 0

unclassified\_Methanopyraceae 0

genus Methanopyrus 0

phylum "Crenarchaeota" 0

unclassified\_"Crenarchaeota" 0

class Thermoprotei 0

unclassified\_Thermoprotei 0

order Sulfolobales 0

unclassified\_Sulfolobales 0

family Sulfolobaceae 0

unclassified\_Sulfolobaceae 0

genus Stygiolobus 0

genus Metallosphaera 0

genus Sulfurisphaera 0

genus Sulfolobus 0

genus Acidianus 0

order Desulfurococcales 0

unclassified\_Desulfurococcales 0

family Pyrodictiaceae 0

unclassified\_Pyrodictiaceae 0

genus Pyrolobus 0

genus Hyperthermus 0

genus Pyrodictium 0

family Desulfurococcaceae 0

unclassified\_Desulfurococcaceae 0

genus Aeropyrum 0

genus Staphylothermus 0

genus Ignicoccus 0

genus Thermosphaera 0

genus Sulfophobococcus 0

genus Thermodiscus 0

genus Ignisphaera 0

genus Desulfurococcus 0

genus Stetteria 0

order Thermoproteales 0

unclassified\_Thermoproteales 0

family Thermoproteaceae 0

unclassified\_Thermoproteaceae 0

genus Pyrobaculum 0

genus Vulcanisaeta 0

genus Caldivirga 0

genus Thermocladium 0

genus Thermoproteus 0

family Thermofilaceae 0

unclassified\_Thermofilaceae 0

genus Thermofilum 0

order Fervidicoccales 0

unclassified\_Fervidicoccales 0

family Fervidicoccaceae 0

unclassified\_Fervidicoccaceae 0

genus Fervidicoccus 0

order Acidilobales 0

unclassified\_Acidilobales 0

family Acidilobaceae 0

unclassified\_Acidilobaceae 0

genus Acidilobus 0

family Caldisphaeraceae 0

unclassified\_Caldisphaeraceae 0

genus Caldisphaera 0

phylum Nanohaloarchaeota 0

unclassified\_Nanohaloarchaeota 0

genus Candidatus Nanosalina 0

phylum Aenigmarchaeota 0

unclassified\_Aenigmarchaeota 0

genus Candidatus Aenigmarchaeum 0

phylum Woesearchaeota 0

unclassified\_Woesearchaeota 0

genus Woesearchaeota Incertae Sedis AR18 0

genus Woesearchaeota Incertae Sedis AR16 0

genus Woesearchaeota Incertae Sedis AR17 0

genus Woesearchaeota Incertae Sedis AR20 0

genus Woesearchaeota Incertae Sedis AR15 0

phylum "Nanoarchaeota" 0

unclassified\_"Nanoarchaeota" 0

genus "Nanoarchaeum" 0

phylum "Thaumarchaeota" 0

unclassified\_"Thaumarchaeota" 0

order Nitrososphaerales 0

unclassified\_Nitrososphaerales 0

family Nitrososphaeraceae 0

unclassified\_Nitrososphaeraceae 0

genus Nitrososphaera 0

order Nitrosopumilales 0

unclassified\_Nitrosopumilales 0

family Nitrosopumilaceae 0

unclassified\_Nitrosopumilaceae 0

genus Nitrosopumilus 0

phylum "Korarchaeota" 0

unclassified\_"Korarchaeota" 0

genus "Candidatus Korarchaeum" 0

phylum Parvarchaeota 0

unclassified\_Parvarchaeota 0

genus Candidatus Parvarchaeum 0