

NCBI ID	Clade	Phylum	Class	Order	Family	Genus	Species	Environment	Methyl
ABO92121	. IX	Proteobact	Gammaprot	Aeromonad	Aeromonad	Aeromonas	Aeromonas	freshwater	Methyltr
ACN13200	. VII	Proteobact	Deltaprotec	Desulfobact	Desulfobact	Desulfobact	Desulfobact	multiple	Methyltr
ADO11389	. IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Pantoea	Pantoea va	terrestrial	Methyltr
ADP10859	. IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Erwinia	Erwinia sp.	terrestrial	Methyltr
ADP98497	. V	Proteobact	Gammaprot	Alteromona	Alteromona	Marinobact	Marinobact	marine	Methyltr
ADU71258	. IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Pantoea	Pantoea sp.	terrestrial	Methyltr
AIX52114	. IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Pantoea	Pantoea sp.	terrestrial	Methyltr
CAG22398	. IX	Proteobact	Gammaprot	Vibrionales	Vibrionacea	Photobacte	Photobacte	multiple	Methyltr
CCO49244	. IX	Proteobact	Gammaprot	Vibrionales	Vibrionacea	Vibrio	Vibrio nigri	marine	Methyltr
EIB97654	. IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Pantoea	Pantoea sp.	terrestrial	Methyltr
ENV00193	. V	Proteobact	Gammaprot	Pseudomon	Moraxellac	Acinetobact	Acinetobact	terrestrial	Methyltr
ENW25723	. V	Proteobact	Gammaprot	Pseudomon	Moraxellac	Acinetobact	Acinetobact	terrestrial	Methyltr
ERK17000	. IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Pantoea	Pantoea sp.	terrestrial	Methyltr
KEI72528	. IX	Proteobact	Gammaprot	Oceanospiri	Endozoicor	Endozoicor	Endozoicor	marine	Methyltr
KEK26869	. IX	Proteobact	Gammaprot	Alteromona	Shewanella	Shewanella	Shewanella	marine	Methyltr
KEQ17325	. IX	Proteobact	Gammaprot	Oceanospiri	Endozoicor	Endozoicor	Endozoicor	marine	Methyltr
KFL34065	. VIII	Proteobact	Epsilonprot	Campyloba	Campyloba	Sulfurospiril	Sulfurospiril	terrestrial	Methyltr
KGM07216	. IV	Proteobact	Gammaprot	Thiotrichale	Pisciricketts	Methyloph	Methyloph	marine	Methyltr
KGO33924	. VI	Proteobact	Deltaprotec	Desulfobact	Desulfobult	Desulfobult	Desulfobult	terrestrial	Methyltr
KHG33776	. VIII	Proteobact	Epsilonprot	Campyloba	Campyloba	Sulfurospiril	Sulfurospiril	freshwater	Methyltr
KMV73205	. IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Unclassified	bacteria syr	terrestrial	Methyltr
KTC75633	. IX	Proteobact	Gammaprot	Legionellale	Legionellac	Legionella	Legionella a	multiple	Methyltr
NEO40907	. IX	Cyanobacte	Oscillatorio	Oscillatorial	Oscillatoria	Moorea	Moorea sp.	multiple	Methyltr
NEP20964	. IX	Cyanobacte	Oscillatorio	Oscillatorial	Oscillatoria	Moorea	Moorea sp.	multiple	Methyltr
sp_AOR5N	OUT	Actinobact	Actinobact	Corynebact	Mycobacter	Mycolicibac	Mycoliciba	terrestrial	Absent
sp_G7CFI3	OUT	Actinobact	Actinobact	Corynebact	Mycobacter	Mycolicibac	Mycoliciba	terrestrial	Absent
sp_Q7D51	OUT	Actinobact	Actinobact	Corynebact	Mycobacter	Mycolicibac	Mycoliciba	terrestrial	Absent
TAD81928	OUT	Cyanobacte	Oscillatorio	Oscillatorial	Unclassified	Unclassified	Unclassified	freshwater	Absent
TNF49314	. VII	Proteobact	Deltaprotec	Unclassified	Unclassified	Unclassified	Unclassified	freshwater	Methyltr
WP_00293	V	Proteobact	Betaproteol	Rhodocycla	Zoogloeace	Thauera	Thauera sp.	freshwater	Methyltr
WP_00343	VIII	Bacteroidet	Flavobacter	Flavobacter	Flavobacter	Psychroflex	Psychroflex	freshwater	Methyltr
WP_00363	IX	Proteobact	Gammaprot	Legionellale	Legionellac	Legionella	Legionella k	multiple	Methyltr
WP_00416	IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Erwinia	Erwinia am	terrestrial	Methyltr
WP_00431	V	Proteobact	Betaproteol	Rhodocycla	Zoogloeace	Thauera	Unclassified	unknown	Methyltr
WP_00464	V	Proteobact	Gammaprot	Pseudomon	Moraxellac	Acinetobact	Unclassified	unknown	Methyltr
WP_00486	III	Proteobact	Acidithioba	Acidithioba	Acidithioba	Acidithioba	Acidithioba	terrestrial	Methyltr
WP_00493	V	Proteobact	Gammaprot	Pseudomon	Moraxellac	Acinetobact	Acinetobact	terrestrial	Methyltr
WP_00499	V	Proteobact	Gammaprot	Pseudomon	Moraxellac	Acinetobact	Acinetobact	terrestrial	Methyltr
WP_00532	IX	Proteobact	Gammaprot	Aeromonad	Aeromonad	Aeromonas	Aeromonas	freshwater	Methyltr
WP_00534	IX	Proteobact	Gammaprot	Aeromonad	Aeromonad	Aeromonas	Aeromonas	multiple	Methyltr
WP_00535	IX	Proteobact	Gammaprot	Aeromonad	Aeromonad	Aeromonas	Aeromonas	multiple	Methyltr
WP_00600	V	Proteobact	Gammaprot	Alteromona	Alteromona	Glacielola	Glacielola	marine	Methyltr
WP_00612	IX	Proteobact	Gammaprot	Enterobact	Erwiniaceae	Pantoea	Pantoea ste	unknown	Methyltr
WP_00645	II	Proteobact	Gammaprot	Thiotrichale	Pisciricketts	Thiomicros	Thiomicros	marine	Methyltr
WP_00714	IV	Proteobact	Gammaprot	Thiotrichale	Pisciricketts	Methyloph	Methyloph	marine	Methyltr
WP_00722	V	Proteobact	Gammaprot	Cellvibriona	Spongiibact	BD1-7 clade	marine gam	marine	Methyltr
WP_00734	V	Proteobact	Gammaprot	Alteromona	Alteromona	Marinobact	Marinobact	freshwater	Methyltr
WP_00746	IX	Proteobact	Gammaprot	Vibrionales	Vibrionacea	Photobacte	Photobacte	marine	Methyltr
WP_00765	IX	Proteobact	Gammaprot	Alteromona	Shewanella	Shewanella	Shewanella	marine	Methyltr

WP_00789	IX	Proteobact	Gammapro	Enterobact	Erwiniaceae	Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_00805	V	Proteobact	Betaproteo	Nitrosomon	Sterolibacte	Methylover	Methylover	unknown	Methyltr
WP_00809	VIII	Verrucomic	Verrucomic	Unclassified	Unclassified	Unclassified	Verrucomic	marine	Methyltr
WP_00810	IX	Proteobact	Gammapro	Enterobact	Erwiniaceae	Pantoea	Unclassified	unknown	Methyltr
WP_00830	V	Proteobact	Gammapro	Pseudomon	Moraxellace	Acinetobact	Unclassified	unknown	Methyltr
WP_00833	IX	Proteobact	Epsilonprot	Campyloba	Helicobacte	Sulfurimon	Sulfurimon	marine	Methyltr
WP_00892	IX	Proteobact	Gammapro	Enterobact	Erwiniaceae	Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_00910	V	Proteobact	Gammapro	Oceanospir	Halomonad	Halomonas	Halomonas	marine	Methyltr
WP_00956	III	Proteobact	Acidithioba	Acidithioba	Acidithioba	Acidithioba	Acidithioba	multiple	Methyltr
WP_00960	IX	Proteobact	Gammapro	Vibrionales	Vibrionacea	Vibrio	Vibrio carib	marine	Methyltr
WP_00963	IX	Proteobact	Gammapro	Enterobact	Yersiniaceae	Serratia	Serratia sp.	terrestrial	Methyltr
WP_00972	V	Proteobact	Gammapro	Oceanospir	Halomonad	Halomonas	Halomonas	freshwater	Methyltr
WP_00972	IV	Proteobact	Gammapro	Thiotrichale	Pisciricketts	Methyloph	Methyloph	freshwater	Methyltr
WP_01060	IX	Proteobact	Gammapro	Alteromona	Pseudoalter	Pseudoalter	Pseudoalter	marine	Methyltr
WP_01064	III	Proteobact	Acidithioba	Acidithioba	Acidithioba	Acidithioba	Acidithioba	marine	Methyltr
WP_01107	IX	Proteobact	Gammapro	Alteromona	Shewanella	Shewanella	Shewanella	multiple	Methyltr
WP_01111	V	Proteobact	Betaproteo	Nitrosomon	Nitrosomon	Nitrosomon	Nitrosomon	marine	Methyltr
WP_01118	V	Proteobact	Gammapro	Pseudomon	Moraxellace	Acinetobact	Acinetobact	multiple	Methyltr
WP_01137	II	Proteobact	Gammapro	Thiotrichale	Pisciricketts	Hydrogeno	Hydrogeno	marine	Methyltr
WP_01137	IX	Proteobact	Epsilonprot	Campyloba	Helicobacte	Sulfurimon	Sulfurimon	marine	Methyltr
WP_01138	V	Proteobact	Betaproteo	Nitrosomon	Nitrosomon	Nitrosospir	Nitrosospir	terrestrial	Methyltr
WP_01161	OUT	Proteobact	Betaproteo	Burkholderi	Burkholderi	Cupriavidus	Cupriavidus	terrestrial	Absent
WP_01163	V	Proteobact	Betaproteo	Nitrosomon	Nitrosomon	Nitrosomon	Nitrosomon	multiple	Methyltr
WP_01170	IX	Proteobact	Gammapro	Aeromonad	Aeromonad	Aeromonas	Aeromonas	unknown	Methyltr
WP_01171	IX	Proteobact	Gammapro	Alteromona	Shewanella	Shewanella	Shewanella	multiple	Methyltr
WP_01176	IX	Proteobact	Gammapro	Alteromona	Shewanella	Shewanella	Shewanella	multiple	Methyltr
WP_01184	IX	Proteobact	Gammapro	Alteromona	Shewanella	Shewanella	Shewanella	marine	Methyltr
WP_01191	IX	Proteobact	Gammapro	Alteromona	Shewanella	Shewanella	Shewanella	marine	Methyltr
WP_01193	VI	Proteobact	Deltaprotec	Desulfurom	Geobactera	Geobacter	Geobacter	marine	Methyltr
WP_01198	IX	Proteobact	Epsilonprot	Unclassified	Unclassified	Sulfurovum	Sulfurovum	marine	Methyltr
WP_01201	IX	Proteobact	Epsilonprot	Campyloba	Campyloba	Arcobacter	Arcobacter	multiple	Methyltr
WP_0124	IX	Proteobact	Gammapro	Enterobact	Erwiniaceae	Erwinia	Erwinia tas	terrestrial	Methyltr
WP_01252	OUT	Proteobact	Deltaprotec	Myxococcal	Anaeromyx	Anaeromyx	Anaeromyx	terrestrial	Absent
WP_01252	VI	Proteobact	Deltaprotec	Desulfurom	Geobactera	Geobacter	Geobacter	terrestrial	Methyltr
WP_01266	IX	Proteobact	Gammapro	Enterobact	Erwiniaceae	Erwinia	Erwinia pyri	terrestrial	Methyltr
WP_01272	IX	Proteobact	Gammapro	Aeromonad	Aeromonad	Tolomonas	Tolomonas	freshwater	Methyltr
WP_01277	VI	Proteobact	Deltaprotec	Desulfurom	Geobactera	Geobacter	Geobacter	marine	Methyltr
WP_01282	IX	Proteobact	Gammapro	Chromatia	Halothioba	Halothioba	Halothioba	multiple	Methyltr
WP_01285	VIII	Proteobact	Epsilonprot	Campyloba	Campyloba	Sulfurospir	Sulfurospir	marine	Methyltr
WP_01314	V	Proteobact	Betaproteo	Nitrosomon	Methylophi	Methyloten	Methyloten	freshwater	Methyltr
WP_01320	IX	Proteobact	Gammapro	Enterobact	Erwiniaceae	Erwinia	Erwinia billi	terrestrial	Methyltr
WP_01326	V	Proteobact	Gammapro	Unclassified	Unclassified	Unclassified	Unclassified	multiple	Methyltr
WP_01344	VIII	Bacteroidet	Bacteroidia	Bacteroida	Paludibacte	Paludibacte	Paludibacte	terrestrial	Methyltr
WP_01357	IX	Proteobact	Gammapro	Enterobact	Yersiniaceae	Rahnella	Rahnella aq	multiple	Methyltr
WP_01364	V	Proteobact	Betaproteo	Nitrosomon	Nitrosomon	Nitrosomon	Nitrosomon	multiple	Methyltr
WP_01378	IX	Proteobact	Gammapro	Alteromona	Alteromona	Alteromona	Alteromona	marine	Methyltr
WP_01383	II	Proteobact	Gammapro	Thiotrichale	Pisciricketts	Thiomicros	Thiomicros	marine	Methyltr
WP_01403	III	Proteobact	Acidithioba	Acidithioba	Acidithioba	Acidithioba	Acidithioba	freshwater	Methyltr
WP_01447	IX	Proteobact	Epsilonprot	Campyloba	Campyloba	Arcobacter	Arcobacter	multiple	Methyltr
WP_01470	IX	Proteobact	Gammapro	Thiotrichale	Pisciricketts	Methyloph	Methyloph	freshwater	Methyltr

WP_01470€ IV	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Methylopha€ Methylopha€ marine	Methyltra€
WP_01476€ VIII	Proteobact€ Epsilonprot Campyloba€ Campyloba€ Sulfurospiril Sulfurospiril marine	Methyltra€
WP_01486€ V	Proteobact€ Gammapro€ Alteromona€ Alteromona Marinobact Marinobact marine	Methyltra€
WP_01499€ IX	Proteobact€ Gammapro€ Alteromona€ Alteromona Alteromona Alteromona unknown	Methyltra€
WP_01502€ VIII	Bacteroidet Flavobacter Flavobacter Flavobacter Psychroflex€ Psychroflex€ marine	Methyltra€
WP_01571€ VI	Proteobact€ Deltaprotec Desulfurom Geobactera Geobacter Geobacter s€ terrestrial	Methyltra€
WP_01665€ V	Proteobact€ Gammapro€ Pseudomon Moraxellac€ Acinetobact Acinetobact terrestrial	Methyltra€
WP_01749€ IX	Proteobact€ Gammapro€ Unclassified Unclassified Unclassified Unclassified freshwater€	Methyltra€
WP_01840€ V	Proteobact€ Gammapro€ Alteromona€ Alteromona Marinobact Marinobact marine	Methyltra€
WP_01841€ V	Proteobact€ Betaproteol Nitrosomon Sterolibacte Methylover Methylover freshwater€	Methyltra€
WP_01898€ IX	Proteobact€ Gammapro€ Alteromona€ Alteromona Salinimona€ Salinimona€ marine	Methyltra€
WP_01898€ V	Proteobact€ Betaproteol Nitrosomon Methylophi Methylophi Methylophi marine	Methyltra€
WP_01903€ VIII	Bacteroidet Flavobacter Flavobacter Flavobacter Psychroflex€ Psychroflex€ marine	Methyltra€
WP_01920€ IX	Proteobact€ Gammapro€ Enterobact€ Yersiniaceae Yersinia Yersinia ma€ freshwater€	Methyltra€
WP_01954€ VIII	Bacteroidet Bacteroidia Bacteroida€ Dysgonamo Proteiniphil Proteiniphil marine	Methyltra€
WP_01955€ II	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Thiomicror€ Thiomicror€ marine	Methyltra€
WP_01989€ II	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Hydrogeno€ Hydrogeno€ marine	Methyltra€
WP_01993€ IX	Proteobact€ Gammapro€ Aeromonad Aeromonad Oceanimon Oceanimon marine	Methyltra€
WP_02016€ V	Proteobact€ Betaproteol Nitrosomon Sterolibacte Methylover Methylover unknown	Methyltra€
WP_02050€ V	Proteobact€ Gammapro€ Chromatia€ Chromatiac Lamprocyst Lamprocyst multiple	Methyltra€
WP_02059€ IX	Proteobact€ Alphaprote€ Kiloniellales Kiloniellace€ Kiloniella Kiloniella la€ marine	Methyltra€
WP_02067€ VII	Proteobact€ Deltaprotec Desulfurom Geobactera Geopsychro Geopsychro marine	Methyltra€
WP_02093€ VII	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Cycloclastic Cycloclastic terrestrial	Methyltra€
WP_02125€ V	Proteobact€ Betaproteol Rhodocycla Zoogloeace€ Thauera Thauera ter€ terrestrial	Methyltra€
WP_02128€ IX	Proteobact€ Epsilonprot Campyloba€ Helicobacte Sulfurimon€ Sulfurimon€ marine	Methyltra€
WP_02430€ V	Proteobact€ Betaproteol Nitrosomon Sterolibacte Methylover Methylover unknown	Methyltra€
WP_02453€ V	Proteobact€ Betaproteol Burkholderi Comamona Comamona Comamona terrestrial	Methyltra€
WP_02485€ II	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Hydrogeno€ Hydrogeno€ marine	Methyltra€
WP_02487€ IX	Proteobact€ Gammapro€ Aeromonad Aeromonad Tolumonas Tolumonas terrestrial	Methyltra€
WP_02504€ V	Proteobact€ Betaproteol Nitrosomon Nitrosomon Nitrosospir€ Nitrosospir€ marine	Methyltra€
WP_02520€ IX	Proteobact€ Gammapro€ Aeromonad Aeromonad Aeromonas Aeromonas unknown	Methyltra€
WP_02525€ IX	Proteobact€ Gammapro€ Alteromona€ Alteromona Alteromona Alteromona marine	Methyltra€
WP_02534€ VIII	Proteobact€ Epsilonprot Campyloba€ Campyloba€ Sulfurospiril Sulfurospiril terrestrial	Methyltra€
WP_02586€ VIII	Bacteroidet Bacteroidia Marinilabili Prolixibacte Prolixibacte Prolixibacte marine	Methyltra€
WP_02590€ IX	Proteobact€ Gammapro€ Enterobact€ Erwiniaceae Tatumella Tatumella s€ unknown	Methyltra€
WP_02618€ V	Proteobact€ Betaproteol Nitrosomon Sterolibacte Methylover Methylover unknown	Methyltra€
WP_02727€ IX	Proteobact€ Gammapro€ Legionellale Legionellac€ Legionella Legionella s€ multiple	Methyltra€
WP_02810€ IX	Proteobact€ Gammapro€ Alteromona Ferrimonad Ferrimonas Ferrimonas marine	Methyltra€
WP_02846€ V	Proteobact€ Betaproteol Nitrosomon Nitrosomon Nitrosomon Nitrosomon marine	Methyltra€
WP_02848€ II	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Thiomicror€ Thiomicror€ marine	Methyltra€
WP_02940€ II	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Thiomicror€ Thiomicror€ multiple	Methyltra€
WP_02990€ VII	Proteobact€ Deltaprotec Desulfurom Desulfurom Pelobacter Pelobacter :€ marine	Methyltra€
WP_02991€ II	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Hydrogeno€ Hydrogeno€ marine	Methyltra€
WP_02993€ II	Proteobact€ Gammapro€ Thiotrichale Pisciricketts Thiomicros€ Thiomicros€ marine	Methyltra€
WP_03007€ V	Proteobact€ Gammapro€ Oceanospiri Halomonad Halomonas Halomonas marine	Methyltra€
WP_03209€ IX	Proteobact€ Gammapro€ Alteromona€ Alteromona Alteromona Unclassified unknown	Methyltra€
WP_03311€ IX	Proteobact€ Gammapro€ Aeromonad Aeromonad Aeromonas Aeromonas freshwater€	Methyltra€
WP_03342€ V	Proteobact€ Gammapro€ Chromatia€ Chromatiac Rheinheime Rheinheime marine	Methyltra€
WP_03375€ IX	Proteobact€ Gammapro€ Enterobact€ Erwiniaceae Pantoea Pantoea sp.€ terrestrial	Methyltra€
WP_03378€ IX	Proteobact€ Gammapro€ Enterobact€ Erwiniaceae Pantoea Pantoea ag€ terrestrial	Methyltra€

WP_034796 IX	Proteobactæ Gammaproterobactæ Enterobactæ Yersiniaceæ Ewingella	Ewingella ai	terrestrial	Methyltr
WP_034830 IX	Proteobactæ Gammaproterobactæ Enterobactæ Enterobactæ Enterobactæ	multiple		Methyltr
WP_034898 IX	Proteobactæ Gammaproterobactæ Erwiniaceæ Erwinia	Erwinia typ	terrestrial	Methyltr
WP_034918 IX	Proteobactæ Gammaproterobactæ Erwiniaceæ Erwinia	Erwinia sp. 1	terrestrial	Methyltr
WP_034945 IX	Proteobactæ Gammaproterobactæ Erwiniaceæ Erwinia	Erwinia ole	terrestrial	Methyltr
WP_035581 V	Proteobactæ Gammaproterobactæ Oceanospirillum Halomonad	Halomonas	Unclassified unknown	Methyltr
WP_036130 V	Proteobactæ Gammaproterobactæ Alteromonad Alteromonad	Marinobact	Marinobact	marine
WP_036508 IX	Proteobactæ Gammaproterobactæ Oceanospirillum Oceanospirillum	Nitrincola	Nitrincola n	freshwater
WP_036754 IX	Proteobactæ Gammaproterobactæ Vibrionales Vibrionaceæ	Photobacte	Photobacte	marine
WP_037940 IX	Proteobactæ Epsilonproteobactæ Campylobacter Campylobacter	Sulfurospirillum	Sulfurospirillum	marine
WP_038000 IX	Proteobactæ Epsilonproteobactæ Unclassified Unclassified	Sulfurovum	Sulfurovum	marine
WP_038138 II	Proteobactæ Gammaproterobactæ Thiotrichales Piscirickettsia	Hydrogenobacter	Hydrogenobacter	multiple
WP_038166 V	Proteobactæ Betaproteobactæ Burkholderia	Unclassified Thiomonas	Thiomonas	marine
WP_038479 V	Proteobactæ Gammaproterobactæ Oceanospirillum Halomonad	Halomonas	Halomonas	marine
WP_038643 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea rw	terrestrial
WP_039332 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea roc	multiple
WP_039339 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea ste	unknown
WP_040479 V	Proteobactæ Gammaproterobactæ Oceanospirillum Halomonad	Halomonas	Halomonas	multiple
WP_040727 II	Proteobactæ Gammaproterobactæ Thiotrichales Piscirickettsia	Thiomicrospira	Thiomicrospira	marine
WP_040851 V	Proteobactæ Betaproteobactæ Nitrosomonas Nitrosomonas	Nitrosospirillum	Nitrosospirillum	freshwater
WP_041212 IX	Proteobactæ Gammaproterobactæ Aeromonad Aeromonad	Aeromonas	Aeromonas	multiple
WP_041360 V	Proteobactæ Betaproteobactæ Nitrosomonas Nitrosomonas	Nitrosomonas	Nitrosomonas	marine
WP_041543 IX	Proteobactæ Gammaproterobactæ Aeromonad Aeromonad	Oceanimonas	Oceanimonas	marine
WP_041673 V	Proteobactæ Betaproteobactæ Nitrosomonas Gallionellaceæ	Sulfuricella	Sulfuricella	marine
WP_041675 IX	Proteobactæ Epsilonproteobactæ Campylobacter Helicobacter	Sulfurimonas	Sulfurimonas	marine
WP_041693 IX	Proteobactæ Gammaproterobactæ Alteromonad Alteromonad	Alteromonas	Alteromonas	unknown
WP_041930 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea an	terrestrial
WP_043139 IX	Proteobactæ Gammaproterobactæ Aeromonad Aeromonad	Aeromonas	Aeromonas	multiple
WP_043684 V	Proteobactæ Betaproteobactæ Burkholderia Alcaligenaceæ	Castellaniella	Castellaniella	marine
WP_043763 IX	Proteobactæ Gammaproterobactæ Aeromonad Aeromonad	Aeromonas	Aeromonas	multiple
WP_045815 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea sp.	freshwater
WP_045833 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea sp.	freshwater
WP_046289 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea sp.	terrestrial
WP_048435 OUT	Proteobactæ Betaproteobactæ Burkholderia Comamonad	Caenimonas	Caenimonas	freshwater
WP_048696 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Erwinia	Erwinia piri	terrestrial
WP_048914 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Erwinia	Erwinia sp. 1	terrestrial
WP_049852 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea sp.	terrestrial
WP_050976 V	Proteobactæ Gammaproterobactæ Cellvibrionaceæ Cellvibrionaceæ	Cellvibrion	Cellvibrion s	terrestrial
WP_051050 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Erwinia	Erwinia tole	terrestrial
WP_051516 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Pantoea	Pantoea sp.	terrestrial
WP_051789 IX	Proteobactæ Gammaproterobactæ Oceanospirillum Endozoicomonas	Endozoicomonas	Endozoicomonas	marine
WP_051849 V	Proteobactæ Betaproteobactæ Burkholderia	Unclassified Thiomonas	Thiomonas	marine
WP_052364 IX	Proteobactæ Gammaproterobactæ Alteromonad Alteromonad	Alteromonas	Alteromonas	marine
WP_052901 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Erwinia	Erwinia inie	terrestrial
WP_056241 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ	Erwinia	Erwinia sp. 1	terrestrial
WP_057791 IX	Proteobactæ Gammaproterobactæ Alteromonad Alteromonad	Alteromonas	Alteromonas	marine
WP_058957 IX	Proteobactæ Gammaproterobactæ Enterobactæ Enterobactæ	Unclassified Type-F sym	terrestrial	Methyltr
WP_058961 IX	Proteobactæ Gammaproterobactæ Enterobactæ Enterobactæ	Unclassified Type-E sym	terrestrial	Methyltr
WP_058973 IX	Proteobactæ Gammaproterobactæ Enterobactæ Enterobactæ	Unclassified Type-D sym	terrestrial	Methyltr
WP_059012 IX	Proteobactæ Gammaproterobactæ Enterobactæ Enterobactæ	Unclassified Type-C sym	terrestrial	Methyltr

WP_063881 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_064738 IX	Proteobactæ Gammaproterobactæ Enterobactæ Enterobactæ Enterobactæ	Enterobactæ	multiple	Methyltr
WP_067428 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Erwinia	Erwinia ger	terrestrial	Methyltr
WP_067700 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Erwinia	Erwinia sp.	terrestrial	Methyltr
WP_076758 V	Proteobactæ Gammaproterobactæ Pseudomon Moraxellaceæ Acinetobact	Acinetobact	multiple	Methyltr
WP_078002 IX	Proteobactæ Gammaproterobactæ Enterobactæ Enterobactæ Izhakiella	Izhakiella ac	terrestrial	Methyltr
WP_084128 V	Proteobactæ Gammaproterobactæ Cellvibriona Cellvibriona Cellvibrio	Cellvibrio m	terrestrial	Methyltr
WP_084494 V	Proteobactæ Gammaproterobactæ Pseudomon Moraxellaceæ Alkanindige	Alkanindige	terrestrial	Methyltr
WP_084878 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea cyf	terrestrial	Methyltr
WP_084888 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Erwinia	Pantoea seq	terrestrial	Methyltr
WP_088518 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_090968 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_094121 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea coi	terrestrial	Methyltr
WP_095928 IX	Proteobactæ Gammaproterobactæ Enterobactæ Yersiniaceæ Rahnella	Rahnella vic	terrestrial	Methyltr
WP_096348 V	Proteobactæ Gammaproterobactæ Pseudomon Pseudomon Pseudomon	Pseudomon	marine	Methyltr
WP_097118 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_101508 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Erwinia	Erwinia sp.	terrestrial	Methyltr
WP_101768 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea en	terrestrial	Methyltr
WP_104094 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_104188 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_105598 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea col	terrestrial	Methyltr
WP_109717 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea alli	terrestrial	Methyltr
WP_110268 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_110331 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	freshwater	Methyltr
WP_110868 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_111140 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_111208 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_118668 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Erwinia	Erwinia per	terrestrial	Methyltr
WP_119231 IX	Proteobactæ Gammaproterobactæ Alteromona Pseudoalter Pseudoalter	Pseudoalter	marine	Methyltr
WP_121208 V	Proteobactæ Gammaproterobactæ Alteromona Alteromona Marinobact	Marinobact	marine	Methyltr
WP_128084 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea del	terrestrial	Methyltr
WP_133622 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Erwinia	Erwinia aph	terrestrial	Methyltr
WP_133844 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Erwinia	Erwinia rha	terrestrial	Methyltr
WP_137988 I	Cyanobacte Oscillatorioj Oscillatoria Oscillatoria Moorea	Moorea prc	multiple	Methyltr
WP_140924 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea ant	terrestrial	Methyltr
WP_148208 V	Proteobactæ Gammaproterobactæ Cellvibriona Cellvibriona Cellvibrio	Cellvibrio ja	terrestrial	Methyltr
WP_148238 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea sp.	terrestrial	Methyltr
WP_155518 IX	Proteobactæ Gammaproterobactæ Enterobactæ Erwiniaceæ Pantoea	Pantoea dis	terrestrial	Methyltr

Oxygen Metabo OvoB

aerobic chemoorg: Present
aerobic chemoorg: Present
facultative chemoorg: Present
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aerobic chemoorg: Absent
aerobic chemoorg: Absent
facultative chemoorg: Present
aerobic chemoorg: Present
aerobic chemolith: Absent
facultative chemoorg: Present
aerobic chemolith: Present
aerobic methylotr: Present
anaerobic chemoorg: Absent
aerobic chemolith: Present
aerobic chemoorg: Present
aerobic chemoorg: Absent
aerobic photosynt: Absent
aerobic photosynt: Absent
aerobic chemoorg: Absent
aerobic chemoorg: Absent
aerobic chemoorg: Absent
aerobic photosynt: Absent
facultative chemoorg: Present
anaerobic chemoorg: Present
aerobic chemoorg: Absent
aerobic chemoorg: Absent
facultative chemoorg: Present
unknown unknown Absent
aerobic chemoorg: Absent
aerobic chemolith: Present
aerobic chemoorg: Absent
aerobic chemoorg: Absent
facultative chemoorg: Present
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facultative chemoorg: Absent
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aerobic methylotr: Present
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aerobic chemolith: Absent

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unknown unknown Absent
aerobic chemoorg: Present
facultative chemoorg: Absent
aerobic chemoorg: Absent
facultative chemolith: Present
facultative chemoorg: Present
anaerobic chemoorg: Present
aerobic chemolith: Present
facultative chemolith: Present
aerobic chemoorg: Present
aerobic chemoorg: Present
aerobic methylotr: Present
aerobic chemoorg: Absent
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facultative chemolith: Absent
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aerobic chemolith: Present
facultative mixotroph Absent
aerobic chemolith: Present
facultative chemoorg: Absent
aerobic chemolith: Absent
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anaerobic chemoorg: Absent
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aerobic chemolith: Present
aerobic chemolith: Present
aerobic methylotr: Present
aerobic chemoorg: Present
aerobic chemoorg: Present
anaerobic chemoorg: Present
facultative chemoorg: Present
aerobic chemolith: Present
aerobic chemoorg: Present
aerobic chemolith: Present
aerobic chemolith: Present
aerobic chemolith: Absent
aerobic methylotr: Present

aerobic methylotr: Present
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aerobic chemoorg: Present
aerobic methylotr: Present
aerobic chemoorg: Present
aerobic methylotr: Present
aerobic chemoorg: Absent
aerobic chemoorg: Present
anaerobic chemoorg: Present
aerobic chemolith: Present
aerobic chemolith: Present
aerobic chemoorg: Present
unknown unknown Absent
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unknown unknown Absent
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facultative chemoorg: Present
aerobic chemoorg: Absent
aerobic chemoorg: Present
facultative chemoorg: Present
facultative chemoorg: Present
facultative chemoorg: Present
aerobic photosynt Absent
facultative chemoorg: Present
aerobic chemolith Present
facultative chemoorg: Present
facultative chemoorg: Present

OGA ID	Clade	Phylum	Class
OM-RGC.v2.000349952	I	Alveolata	Dinophyceae
OM-RGC.v2.000435455	I	Cyanobacteria	Candidatus Sericytochromat
OM-RGC.v2.000466038	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000537517	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000538874	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000538974	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000545675	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000559465	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000561332	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000561736	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000572215	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000579182	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000580937	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000582204	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000582454	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000595364	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000616009	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000638863	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000657502	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000688252	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000693901	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000696533	IX	Planctomycetes	Planctomycetia
OM-RGC.v2.000697753	IV	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000698844	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000699480	IV	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000699540	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000699543	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000703423	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000705402	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000705421	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000705801	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000706054	IX	Proteobacteria	Alphaproteobacteria
OM-RGC.v2.000708874	IX	Proteobacteria	Alphaproteobacteria
OM-RGC.v2.000708925	IX	Proteobacteria	Alphaproteobacteria
OM-RGC.v2.000711768	IX	Proteobacteria	Alphaproteobacteria
OM-RGC.v2.000714566	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000715946	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000716556	I	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000717480	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000718214	VI	Bacteroidetes	Bacteroidia
OM-RGC.v2.000718448	IV	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000718705	IV	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000719250	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000719682	IV	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000721319	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000722414	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000724182	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000724212	IX	Proteobacteria	Alphaproteobacteria
OM-RGC.v2.000724260	IV	Proteobacteria	Gammaproteobacteria

OM-RGC.v2.000725550	VIII	Verrucomicrobia	Verrucomicrobiae
OM-RGC.v2.000726782	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000727802	IV	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000728152	VIII	Verrucomicrobia	Verrucomicrobiae
OM-RGC.v2.000730008	VIII	Verrucomicrobia	Verrucomicrobiae
OM-RGC.v2.000732852	VII	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000733035	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000733118	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000733270	VII	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000733304	VII	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000733414	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000733525	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000733855	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000747349	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000751003	II	Kiritimatiellaeota	Kiritimatiellae
OM-RGC.v2.000751006	II	Kiritimatiellaeota	Kiritimatiellae
OM-RGC.v2.000754068	V	Proteobacteria	Betaproteobacteria
OM-RGC.v2.000755354	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000757179	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000757290	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000758356	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000759154	V	Proteobacteria	Betaproteobacteria
OM-RGC.v2.000759155	V	Proteobacteria	Betaproteobacteria
OM-RGC.v2.000759179	V	Proteobacteria	Betaproteobacteria
OM-RGC.v2.000760584	V	Proteobacteria	Betaproteobacteria
OM-RGC.v2.000763076	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000763186	IV	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000763188	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000763603	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000763828	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000763838	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000770325	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000770631	VII	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000771292	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000780857	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000781847	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000782037	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000797809	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000800360	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000822135	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000834471	V	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000872356	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000908272	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.000917877	VIII	Verrucomicrobia	Verrucomicrobiae
OM-RGC.v2.001028378	IX	Proteobacteria	Gammaproteobacteria
OM-RGC.v2.001133936	II	Kiritimatiellaeota	Kiritimatiellae
OM-RGC.v2.001429317	IX	Proteobacteria	Gammaproteobacteria

Order

Suessiales
Unclassified (Sericytochromatia)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Alteromonadales
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Alteromonadales
Unclassified (Gammaproteobacteria)
Alteromonadales
Alteromonadales
Alteromonadales
Pirellulales
Unclassified (Gammaproteobacteria)
Alteromonadales
Unclassified (Gammaproteobacteria)
Alteromonadales
Alteromonadales
Alteromonadales
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Kiloniellales
Rhodobacterales
Kiloniellales
Kiloniellales
OMG group
Alteromonadales
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Marinilabiliales
Thiotrichales
Thiotrichales
Alteromonadales
Thiotrichales
Pseudomonadales
Unclassified (Gammaproteobacteria)
Alteromonadales
Kiloniellales
Thiotrichales

Family

Symbiodiniaceae
Unclassified (Sericytochromatia)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Colwelliaceae
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
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Unclassified (Gammaproteobacteria)
Colwelliaceae
Unclassified (Gammaproteobacteria)
Colwelliaceae
Alteromonadaceae
Alteromonadaceae
Pirellulaceae
Unclassified (Gammaproteobacteria)
Unclassified (Alteromonadales)
Unclassified (Gammaproteobacteria)
Alteromonadaceae
Unclassified (Alteromonadales)
Alteromonadaceae
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Kiloniellaceae
Rhodobacteraceae
Kiloniellaceae
Kiloniellaceae
OM182
Alteromonadaceae
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Marinifilaceae
Piscirickettsiaceae
Piscirickettsiaceae
Alteromonadaceae
Piscirickettsiaceae
Pseudomonadaceae
Unclassified (Gammaproteobacteria)
Alteromonadaceae
Kiloniellaceae
Piscirickettsiaceae

Unclassified (Verrucomicrobiae)	Unclassified (Verrucomicrobiae)
Alteromonadales	Colwelliaceae
Thiotrichales	Piscirickettsiaceae
Unclassified (Verrucomicrobiae)	Unclassified (Verrucomicrobiae)
Unclassified (Verrucomicrobiae)	Unclassified (Verrucomicrobiae)
Thiotrichales	Piscirickettsiaceae
Pseudomonadales	Pseudomonadaceae
Pseudomonadales	Pseudomonadaceae
Thiotrichales	Piscirickettsiaceae
Thiotrichales	Piscirickettsiaceae
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Pseudomonadales	Pseudomonadaceae
Pseudomonadales	Pseudomonadaceae
Pseudomonadales	Moraxellaceae
Kiritimatiellales	Kiritimatiellaceae
Kiritimatiellales	Kiritimatiellaceae
Unclassified (Betaproteobacteria)	Unclassified (Betaproteobacteria)
OMG group	OM182
Alteromonadales	Alteromonadaceae
Alteromonadales	Alteromonadaceae
Alteromonadales	Alteromonadaceae
Nitrosomonadales	Unclassified (Nitrosomonadales)
Nitrosomonadales	Unclassified (Nitrosomonadales)
Nitrosomonadales	Unclassified (Nitrosomonadales)
Nitrosomonadales	Unclassified (Nitrosomonadales)
Alteromonadales	Colwelliaceae
Thiotrichales	Piscirickettsiaceae
Alteromonadales	Colwelliaceae
Alteromonadales	Colwelliaceae
Alteromonadales	Colwelliaceae
Alteromonadales	Colwelliaceae
Alteromonadales	Colwelliaceae
Thiotrichales	Piscirickettsiaceae
Alteromonadales	Alteromonadaceae
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Oceanospirillales	Halomonadaceae
Alteromonadales	Colwelliaceae
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Alteromonadales	Alteromonadaceae
Alteromonadales	Colwelliaceae
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Unclassified (Verrucomicrobiae)	Unclassified (Verrucomicrobiae)
Alteromonadales	Alteromonadaceae
Kiritimatiellales	Kiritimatiellaceae
OMG group	OM182

Genus

Symbiodinium
Unclassified (Sericytochromatia)
Pseudohongiella
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Colwellia
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Pseudohongiella
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Pseudohongiella
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Colwellia
Unclassified (Gammaproteobacteria)
Colwellia
Alteromonas
Alteromonas
Mariniblastus
Unclassified (Gammaproteobacteria)
Unclassified (Alteromonadales)
Unclassified (Gammaproteobacteria)
Paraglaciecola
Unclassified (Alteromonadales)
Marinobacter
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Kiloniella
Amylibacter
Kiloniella
Kiloniella
Unclassified (OM182)
Marinobacter
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Marinifilaceae)
Methylophaga
Methylophaga
Marinobacter
Methylophaga
Pseudomonas
Unclassified (Gammaproteobacteria)
Paraglaciecola
Kiloniella
Methylophaga

Species

Symbiodinium microadriaticum
Unclassified (Sericytochromatia)
Unclassified (Pseudohongiella)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Colwellia sp. 39_35_sub15_T18
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Pseudohongiella)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Pseudohongiella acticola
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Colwellia psychrerythraea 34H
Unclassified (Gammaproteobacteria)
Colwellia sp. 39_35_sub15_T18
Alteromonas australica
Unclassified (Alteromonas)
Mariniblastus fucicola
Unclassified (Gammaproteobacteria)
Unclassified (Alteromonadales)
Unclassified (Gammaproteobacteria)
Paraglaciecola polaris LMG 21857
Unclassified (Alteromonadales)
Unclassified (Marinobacter)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Unclassified (Kiloniella)
Unclassified (Amylibacter)
Unclassified (Kiloniella)
Unclassified (Kiloniella)
Unclassified (OM182)
Unclassified (Marinobacter)
Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)
Marinifilaceae bacterium SPP2
Unclassified (Methylophaga)
Methylophaga nitratireducentisrescens
Unclassified (Marinobacter)
Unclassified (Methylophaga)
Pseudomonas salina
Unclassified (Gammaproteobacteria)
Unclassified (Paraglaciecola)
Unclassified (Kiloniella)
Unclassified (Methylophaga)

Unclassified (Verrucomicrobiae)	Verrucomicrobiae bacterium DG1235
Unclassified (Colwelliaceae)	Unclassified (Colwelliaceae)
Methylophaga	Methylophaga aminisulfivorans MP
Unclassified (Verrucomicrobiae)	Verrucomicrobiae bacterium DG1235
Unclassified (Verrucomicrobiae)	Verrucomicrobiae bacterium DG1235
Unclassified (Piscirickettsiaceae)	Unclassified (Piscirickettsiaceae)
Pseudomonas	Pseudomonas pelagia
Pseudomonas	Pseudomonas pelagia
Unclassified (Piscirickettsiaceae)	Unclassified (Piscirickettsiaceae)
Unclassified (Piscirickettsiaceae)	Unclassified (Piscirickettsiaceae)
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Pseudomonas	Unclassified (Pseudomonas)
Pseudomonas	Pseudomonas salina
Paraperlucidibaca	Paraperlucidibaca baekdonensis
Unclassified (Kiritimatiellaceae)	Unclassified (Kiritimatiellaceae)
Unclassified (Kiritimatiellaceae)	Unclassified (Kiritimatiellaceae)
Unclassified (Betaproteobacteria)	Unclassified (Betaproteobacteria)
Unclassified (OM182)	Unclassified (OM182)
Paraglaciecola	Unclassified (Paraglaciecola)
Paraglaciecola	Paraglaciecola arctica BSs20135
Alteromonas	Alteromonas mediterranea
Unclassified (Nitrosomonadales)	Unclassified (Nitrosomonadales)
Unclassified (Nitrosomonadales)	Unclassified (Nitrosomonadales)
Unclassified (Nitrosomonadales)	Unclassified (Nitrosomonadales)
Unclassified (Nitrosomonadales)	Unclassified (Nitrosomonadales)
Colwellia	Colwellia aestuarii
Methylophaga	Unclassified (Methylophaga)
Colwellia	Unclassified (Colwellia)
Colwellia	Colwellia polaris
Colwellia	Unclassified (Colwellia)
Colwellia	Unclassified (Colwellia)
Unclassified (Colwelliaceae)	Unclassified (Colwelliaceae)
Unclassified (Piscirickettsiaceae)	Unclassified (Piscirickettsiaceae)
Alteromonas	Unclassified (Alteromonas)
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Halomonas	Unclassified (Halomonas)
Colwellia	Colwellia sp. PAMC 20917
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Marinobacter	Unclassified (Marinobacter)
Unclassified (Colwelliaceae)	Unclassified (Colwelliaceae)
Unclassified (Gammaproteobacteria)	Unclassified (Gammaproteobacteria)
Unclassified (Verrucomicrobiae)	Verrucomicrobiae bacterium DG1235
Alteromonas	Unclassified (Alteromonas)
Unclassified (Kiritimatiellaceae)	Unclassified (Kiritimatiellaceae)
Unclassified (OM182)	Unclassified (OM182)

marine	Methyltransf_31	aerobic	chemoorganotrophic
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_31	aerobic	methylotrophic
marine	Methyltransf_31	aerobic	chemoorganotrophic
marine	Methyltransf_31	aerobic	chemoorganotrophic
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	facultative anaerobic	chemoorganotrophic
marine	Methyltransf_31	facultative anaerobic	chemoorganotrophic
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	facultative anaerobic	chemoorganotrophic
marine	Methyltransf_31	aerobic	chemoorganotrophic
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_11	facultative anaerobic	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_11	facultative anaerobic	unknown
marine	Methyltransf_11	facultative anaerobic	unknown
marine	Methyltransf_11	facultative anaerobic	unknown
marine	Methyltransf_11	facultative anaerobic	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_25	facultative anaerobic	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_31	aerobic	chemoorganotrophic
marine	Methyltransf_31	unknown	unknown
marine	Methyltransf_25	unknown	unknown
marine	Methyltransf_25	unknown	unknown

Species	Host	Pathogenic	Commensal	Symbiotic
<i>Acidithiobacillus caldus</i>				
<i>Acidithiobacillus ferrivorans</i>				
<i>Acidithiobacillus ferrooxidans</i>				
<i>Acidithiobacillus thiooxidans</i>				
<i>Acinetobacter baylyi</i>		Human		
<i>Acinetobacter indicus</i>		Animal	Yes	
<i>Acinetobacter lwoffii</i> NCTC 5866 = CIP 64.10 = NIPH 512		Human	Yes	
<i>Acinetobacter schindleri</i>		Human		
<i>Acinetobacter soli</i>				
<i>Acinetobacter</i> sp. NIPH 899		Human	Yes	
<i>Acinetobacter ursingii</i>		Human	Yes	
<i>Aeromonas bestiarum</i>		Animal		
<i>Aeromonas caviae</i>		Animal; human		
<i>Aeromonas diversa</i>		Human		
<i>Aeromonas lacus</i>				
<i>Aeromonas media</i>		Animal; human		
<i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> A449		Animal		
<i>Aeromonas taiwanensis</i>		Human		
<i>Aeromonas veronii</i>		Animal; human		
<i>Alkanindiges illinoisensis</i>				
<i>Alteromonas australica</i>				
<i>Alteromonas naphthalenivorans</i>				
<i>Alteromonas</i> sp. ALT199		Animal		
<i>Alteromonas stellipolaris</i>				
<i>Arcobacter butzleri</i>		Human		
<i>Arcobacter</i> sp. L		Animal; human		
bacteria symbiont BFo1 of <i>Frankliniella occidentalis</i>		Plant		Yes
<i>Castellaniella defragrans</i>				
<i>Cellvibrio japonicus</i>				
<i>Cellvibrio mixtus</i>				Yes
<i>Cellvibrio</i> sp. BR	Bovine			Yes
<i>Comamonas badia</i>				
<i>Cycloclasticus zancles</i>				
<i>Desulfobacterium autotrophicum</i> HRM2				
<i>Desulfobulbus</i> sp. Tol-SR				
<i>Endozoicomonas elysicola</i>		Animal		
<i>Endozoicomonas montiporae</i>				Yes
<i>Endozoicomonas numazuensis</i>	Sponge			Yes
<i>Enterobacter cancerogenus</i>		Human		
<i>Enterobacter ludwigii</i>		Human		
<i>Erwinia amylovora</i>		Plant		
<i>Erwinia aphidicola</i>		Plant		
<i>Erwinia billingiae</i>		Plant; human		
<i>Erwinia gerundensis</i>		Plant		
<i>Erwinia iniecta</i>		Plant		
<i>Erwinia oleae</i>		Plant		
<i>Erwinia persicina</i>		Plant		
<i>Erwinia piriflorinigrans</i>		Plant		
<i>Erwinia pyrifoliae</i>		Plant		

<i>Erwinia rhapontici</i>	Plant	
<i>Erwinia</i> sp. 9145	Plant	
<i>Erwinia</i> sp. B116	Plant	
<i>Erwinia</i> sp. Ejp617	Plant	
<i>Erwinia</i> sp. ErVv1	Plant	
<i>Erwinia</i> sp. Leaf53		
<i>Erwinia</i> sp. OLMDLW33		
<i>Erwinia toletana</i>	Plant	
<i>Erwinia typographi</i>	Plant	
<i>Ewingella americana</i>	Human	Yes
<i>Ferrimonas futtsuensis</i>		
<i>Geobacter bemidjiensis</i>		
<i>Geobacter</i> sp. M18		
<i>Geobacter</i> sp. M21		
<i>Geobacter uraniireducens</i>		
<i>Geopsychrobacter electrophilus</i>		
<i>Glaciecola punicea</i>		
<i>Halomonas alkaliantarctica</i>		
<i>Halomonas boliviensis</i>		
<i>Halomonas campaniensis</i>		
<i>Halomonas</i> sp. GFAJ-1		
<i>Halomonas</i> sp. TD01		
<i>Halothiobacillus neapolitanus</i>		
<i>Hydrogenovibrio crunogenus</i>		
<i>Hydrogenovibrio halophilus</i>		
<i>Hydrogenovibrio kuenenii</i>		
<i>Hydrogenovibrio marinus</i>		
<i>Hydrogenovibrio</i> sp. Milos-T1		
<i>Izhakiella australiensis</i>		
<i>Kiloniella laminariae</i>	Brown algae	Yes
<i>Lamprocystis purpurea</i>		
<i>Legionella anisa</i>	Human	
<i>Legionella longbeachae</i>	Human	
<i>Legionella sainthelensi</i>	Human	
marine gamma proteobacterium HTCC2143		
<i>Marinobacter adhaerens</i> HP15		
<i>Marinobacter hydrocarbonoclasticus</i>		
<i>Marinobacter lipolyticus</i>		
<i>Marinobacter nitratireducens</i>		
<i>Marinobacter</i> sp. BSs20148		
<i>Marinobacter</i> sp. ELB17		
<i>Methylophaga aminisulfidivorans</i>		
<i>Methylophaga frappieri</i>		
<i>Methylophaga lonarensis</i>		
<i>Methylophaga nitratireducenticrescens</i>		
<i>Methylophaga thiooxydans</i>		
<i>Methylophilus methylotrophus</i>		
<i>Methylotenera versatilis</i>		
<i>Methyloversatilis thermotolerans</i>		
<i>Moorea producens</i>		

Moorea sp. SIO3I6			
Moorea sp. SIOASIH			
Nitrincola nitratireducens			
Nitrosomonas cryotolerans			
Nitrosomonas europaea			
Nitrosomonas eutropha			
Nitrosomonas sp. AL212			
Nitrosomonas sp. Is79A3			
Nitrosospira briensis			
Nitrosospira lacus			
Nitrosospira multiformis			
Oceanimonas smirnovii			
Oceanimonas sp. GK1			
Paludibacter propionicipigenes			
Pantoea agglomerans	Animal; hu	Yes	
Pantoea allii	Plant		
Pantoea ananatis	Plant		
Pantoea anthophila	Plant		
Pantoea coffeiphila	Plant		
Pantoea conspicua			
Pantoea cypripedii	Plant		
Pantoea deleyi	Plant	Yes	
Pantoea dispersa	Plant; human		
Pantoea endophytica	Plant		
Pantoea rodasii	Plant		
Pantoea rwandensis			
Pantoea septica	Animal, Human		
Pantoea sp. 3.5.1			
Pantoea sp. 9140	Plant	Yes	
Pantoea sp. aB	Plant		
Pantoea sp. AG1095	Plant	Yes	
Pantoea sp. ARC270	Plant		
Pantoea sp. ARC607	Plant		
Pantoea sp. AS-PWVM4			
Pantoea sp. At-9b	Plant		
Pantoea sp. BL1			
Pantoea sp. GL120224-02	Plant		
Pantoea sp. GM01	Plant		
Pantoea sp. ICBG 828	Plant		
Pantoea sp. ICBG 985	Plant		
Pantoea sp. IMH			
Pantoea sp. JKS000250			
Pantoea sp. NGS-ED-1003	Human		
Pantoea sp. OV426	Plant		
Pantoea sp. OXWO6B1	Plant		
Pantoea sp. PNA 03-3		Yes	Yes
Pantoea sp. PSNIH1			
Pantoea sp. RIT-PI-b			
Pantoea sp. SM3			
Pantoea sp. VS1			Yes

<i>Pantoea vagans</i> C9-1		
<i>Pelobacter seleniigenes</i>		
<i>Photobacterium galathea</i>		
<i>Photobacterium marinum</i>		
<i>Photobacterium profundum</i> SS9		
<i>Prolixibacter bellariivorans</i>		
<i>Proteiniphilum acetatigenes</i>		
<i>Pseudoalteromonas flavipulchra</i>	Fish	Yes
<i>Pseudoalteromonas piscicida</i>		
<i>Pseudomonas pelagia</i>		Yes
<i>Psychroflexus gondwanensis</i>		
<i>Psychroflexus torquis</i>		Yes
<i>Psychroflexus tropicus</i>		
<i>Rahnella aquatilis</i>	Plant, Human	
<i>Rahnella victoriana</i>	Plant	
<i>Rheinheimera perlucida</i>		
<i>Salinimonas chungwhensis</i>		
<i>Serratia</i> sp. M24T3	Plant; hum	Yes
<i>Shewanella amazonensis</i>		
<i>Shewanella baltica</i>		
<i>Shewanella oneidensis</i>		
<i>Shewanella putrefaciens</i>	Animal	
<i>Shewanella</i> sp. ANA-3		
<i>Shewanella</i> sp. HN-41	Human	
<i>Shewanella xiamenensis</i>		
<i>Sulfuricella denitrificans</i>		
<i>Sulfurimonas autotrophica</i>		
<i>Sulfurimonas denitrificans</i>		
<i>Sulfurimonas gotlandica</i>		
<i>Sulfurimonas hongkongensis</i>		
<i>Sulfurospirillum arcachonense</i>		
<i>Sulfurospirillum barnesii</i>		
<i>Sulfurospirillum deleyianum</i>		
<i>Sulfurospirillum multivorans</i>		
<i>Sulfurospirillum</i> sp. MES		
<i>Sulfurospirillum</i> sp. SCADC		
<i>Sulfurovum</i> sp. AR		
<i>Sulfurovum</i> sp. NBC37-1		
<i>Thauera</i> sp. 27		
<i>Thauera terpenica</i>		
<i>Thiomicrothabodus arctica</i>		
<i>Thiomicrothabodus chilensis</i>		
<i>Thiomicrothabodus</i> sp. Kp2		
<i>Thiomicrothabodus</i> sp. Milos-T2		
<i>Thiomicrospira aerophila</i>		
<i>Thiomicrospira cyclica</i>		
<i>Thiomicrospira pelophila</i>		
<i>Thiomonas</i> sp. FB-6		
<i>Thiomonas</i> sp. FB-Cd		
<i>Tolomonas auensis</i>		

Tolumonas lignilytica				
Type-C symbiont of Plautia stali				Yes
Type-D symbiont of Plautia stali				Yes
Type-E symbiont of Plautia stali				Yes
Type-F symbiont of Plautia stali				Yes
Verrucomicrobiae bacterium DG1235				
Vibrio caribbeanus	Sponge		Yes	Yes
Vibrio nigripulchritudo SOn1		Animal		
Yersinia massiliensis				

Epiphyte

Yes

Yes

Yes

Yes

Yes

Yes

Species

<i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> A449	0
<i>Pantoea vagans</i> C9-1	0
<i>Erwinia</i> sp. Ejp617	0
<i>Marinobacter adhaerens</i> HP15	0
<i>Pantoea</i> sp. At-9b	0
<i>Pantoea</i> sp. PSNIH1	0
<i>Photobacterium profundum</i> SS9	0
<i>Vibrio nigripulchritudo</i> SOn1	0
<i>Pantoea</i> sp. Sc1]	0
<i>Acinetobacter</i> sp. NIPH 899	0
<i>Acinetobacter lwoffii</i> NCTC 5866 = CIP 64.10 = NIPH 512	0
<i>Pantoea</i> sp. AS-PWVM4	0
<i>Endozoicomonas elysicola</i>	0
<i>Endozoicomonas numazuensis</i>	0
bacteria symbiont BFo1 of <i>Frankliniella occidentalis</i>	0
<i>Legionella anisa</i>	0
<i>Moorea</i> sp. SIOASIH	0
<i>Moorea</i> sp. SIO3I6	0
<i>Deltaproteobacteria</i> bacterium	0
<i>Thauera</i> sp. 27	0
<i>Psychroflexus gondwanensis</i>	0
<i>Legionella longbeachae</i>	0
<i>Erwinia amylovora</i>	0
<i>Acinetobacter soli</i>	0
<i>Acinetobacter ursingii</i>	0
<i>Aeromonas media</i>	0
<i>Aeromonas diversa</i>	0
<i>Aeromonas veronii</i>	0
<i>Glaciecola punicea</i>	0
marine gamma proteobacterium HTCC2143	0
<i>Photobacterium marinum</i>	0
<i>Pantoea</i> sp. GM01	0
<i>Verrucomicrobiae</i> bacterium DG1235	0
<i>Sulfurimonas gotlandica</i>	0
<i>Pantoea</i> sp. aB	0
<i>Halomonas</i> sp. GFAJ-1	0
<i>Serratia</i> sp. M24T3	0
<i>Halomonas</i> sp. TD01	0
<i>Pseudoalteromonas flavipulchra</i>	0
<i>Acinetobacter baylyi</i>	0
<i>Erwinia tasmaniensis</i>	0
<i>Erwinia pyrifoliae</i>	0
<i>Erwinia billingiae</i>	0
gamma proteobacterium HdN1	0
<i>Paludibacter propionicipigenes</i>	0
<i>Rahnella aquatilis</i>	0
<i>Psychroflexus torquis</i>	0
gamma proteobacterium WG36	0
<i>Salinimonas chungwhensis</i>	0

<i>Psychroflexus tropicus</i>	0
<i>Yersinia massiliensis</i>	0
<i>Oceanimonas smirnovii</i>	0
<i>Lamprocystis purpurea</i>	0
<i>Kiloniella laminariae</i>	0
<i>Geopsychrobacter electrodiphilus</i>	0
<i>Cycloclasticus zancles</i>	0
<i>Thauera terpenica</i>	0
<i>Comamonas badia</i>	0
<i>Alteromonas</i> sp. ALT199	0
<i>Prolixibacter bellariivorans</i>	0
<i>Legionella sainthelensi</i>	0
<i>Halomonas alkaliantarctica</i>	0
<i>Aeromonas lacus</i>	0
<i>Rheinheimera perlucida</i>	0
<i>Pantoea</i> sp. NGS-ED-1003	0
<i>Pantoea agglomerans</i>	0
<i>Ewingella americana</i>	0
<i>Enterobacter cancerogenus</i>	0
<i>Erwinia typographi</i>	0
<i>Erwinia</i> sp. 9145	0
<i>Erwinia oleae</i>	0
<i>Photobacterium galathea</i>	0
<i>Halomonas campaniensis</i>	0
<i>Pantoea rwandensis</i>	0
<i>Pantoea rodasii</i>	0
<i>Halomonas boliviensis</i>	0
<i>Aeromonas caviae</i>	0
<i>Oceanimonas</i> sp. GK1	0
<i>Pantoea ananatis</i>	0
<i>Aeromonas bestiarum</i>	0
<i>Aeromonas taiwanensis</i>	0
<i>Pantoea</i> sp. SM3	0
<i>Pantoea</i> sp. BL1	0
<i>Pantoea</i> sp. 3.5.1	0
<i>Erwinia piriflorinigrans</i>	0
<i>Erwinia</i> sp. OLMDLW33	0
<i>Pantoea</i> sp. RIT-PI-b	0
<i>Cellvibrio</i> sp. BR	0
<i>Erwinia toletana</i>	0
<i>Pantoea</i> sp. IMH	0
<i>Endozoicomonas montiporae</i>	0
<i>Alteromonas australica</i>	0
<i>Erwinia iniecta</i>	0
<i>Erwinia</i> sp. Leaf53	0
<i>Alteromonas stellipolaris</i>	0
Type-F symbiont of <i>Plautia stali</i>	0
Type-E symbiont of <i>Plautia stali</i>	0
Type-D symbiont of <i>Plautia stali</i>	0
Type-C symbiont of <i>Plautia stali</i>	0

<i>Pantoea</i> sp. OXWO6B1	0	
<i>Enterobacter ludwigii</i>	0	
<i>Erwinia gerundensis</i>	0	
<i>Erwinia</i> sp. ErVv1	0	
<i>Acinetobacter schindleri</i>	0	
<i>Izhakiella australiensis</i>	0	
<i>Pantoea cyripedii</i>	0	
<i>Pantoea septica</i>	0	
<i>Pantoea</i> sp. VS1	0	
<i>Pantoea</i> sp. OV426	0	
<i>Pantoea conspicua</i>	0	
<i>Rahnella victoriana</i>	0	
<i>Pseudomonas pelagia</i>	0	
<i>Pantoea</i> sp. GL120224-02	0	
<i>Erwinia</i> sp. B116	0	
<i>Pantoea endophytica</i>	0	
<i>Pantoea</i> sp. ICBG 985	0	
<i>Pantoea</i> sp. ICBG 828	0	
<i>Pantoea coffeiphila</i>	0	
<i>Pantoea allii</i>	0	
<i>Pantoea</i> sp. PNA 03-3	0	
<i>Pantoea</i> sp. JKS000250	0	
<i>Pantoea</i> sp. AG1095	0	
<i>Pantoea</i> sp. ARC607	0	
<i>Pantoea</i> sp. ARC270	0	
<i>Erwinia persicina</i>	0	
<i>Pseudoalteromonas piscicida</i>	0	
<i>Pantoea deleyi</i>	0	
<i>Erwinia aphidicola</i>	0	
<i>Erwinia rhapontici</i>	0	
<i>Moorea producens</i>	0	
<i>Pantoea anthophila</i>	0	
<i>Pantoea</i> sp. 9140	0	
<i>Pantoea dispersa</i>	0	
<i>Proteiniphilum acetatigenes</i>		pyruvate, glycine and l-arginine
<i>Geobacter uraniireducens</i>		acetate
<i>Geobacter bemidjiensis</i>		acetate
<i>Geobacter</i> sp. M21		acetate
<i>Geobacter</i> sp. M18		acetate
<i>Castellaniella defragrans</i>		acyclic, monocyclic and bicyclic monoterper
<i>Vibrio caribbeanicus</i>		ammonia or nitrite
<i>Shewanella oneidensis</i>		ammonia or nitrite
<i>Nitrosomonas europaea</i>		ammonia-oxidizing
<i>Nitrospira multiformis</i>		ammonia-oxidizing
<i>Nitrosomonas eutropha</i>		ammonia-oxidizing
<i>Nitrosomonas</i> sp. AL212		ammonia-oxidizing
<i>Nitrospira briensis</i>		ammonia-oxidizing
<i>Nitrosomonas cryotolerans</i>		ammonia-oxidizing
<i>Nitrospira lacus</i>		ammonia-oxidizing
<i>Nitrosomonas</i> sp. Is79A3		ammonia-oxidizing

<i>Arcobacter butzleri</i>	ammonia-oxidizing
<i>Cellvibrio japonicus</i>	ammonia-oxidizing
<i>Shewanella</i> sp. HN-41	arsenic
<i>Shewanella</i> sp. ANA-3	arsenic
<i>Thiomonas</i> sp. FB-6	arsenic or sulfur oxidizing
<i>Thiomonas</i> sp. FB-Cd	arsenic or sulfur oxidizing
<i>Sulfurimonas hongkongensis</i>	de- nitrifying, hydrogen- and sulfur-oxidizing
<i>Alteromonas naphthalenivorans</i>	degradation of polycyclic aromatic hydrocarbons
<i>Acinetobacter indicus</i>	hexachlorocyclohexane
<i>Marinobacter</i> sp. ELB17	hydrocarbons
<i>Marinobacter</i> sp. BSs20148	hydrocarbons
<i>Marinobacter lipolyticus</i>	hydrocarbons
<i>Marinobacter hydrocarbonoclasticus</i>	hydrocarbons
<i>Hydrogenovibrio halophilus</i>	hydrogen oxidizing
<i>Hydrogenovibrio kuenenii</i>	hydrogen oxidizing
<i>Hydrogenovibrio marinus</i>	hydrogen oxidizing
<i>Hydrogenovibrio</i> sp. Milos-T1	hydrogen oxidizing
<i>Shewanella putrefaciens</i>	iron, sulfur, hydrogen
<i>Shewanella amazonensis</i>	metal-reducing
<i>Methylophaga thiooxydans</i>	methanol
<i>Methylophaga aminisulfidivorans</i>	methanol
<i>Methylophaga Ionarensis</i>	methanol
<i>Methylophaga versatilis</i>	methanol
<i>Methylophaga frappieri</i>	methanol
<i>Methylophaga nitratireducens</i>	methanol
<i>Methylophaga nitratireducens</i>	methanol
<i>Methylophaga nitratireducens</i>	methanol
<i>Methylophilus methylotrophus</i>	methanol
<i>Nitricola nitratireducens</i>	nitrate-reducing
<i>Acidithiobacillus ferrooxidans</i>	oxidation/reduction of iron and sulfur
<i>Ferrimonas furtensis</i>	selenate-reducing
<i>Pelobacter selenigenes</i>	selenate-reducing
<i>Alkanindiges illinoisensis</i>	squalane-degrading
<i>Thiomicrothrix arctica</i>	sulfur
<i>Thiomicrothrix chilensis</i>	sulfur
<i>Thiomicrothrix</i> sp. Milos-T2	sulfur
<i>Thiomicrothrix</i> sp. Kp2	sulfur
<i>Shewanella xiamenensis</i>	sulfur
<i>Shewanella baltica</i>	sulfur
<i>Hydrogenovibrio crunogenus</i>	sulfur and hydrogen oxidizing
<i>Acidithiobacillus ferrivorans</i>	sulfur and iron
<i>Sulfurospirillum</i> sp. SCADC	sulfur or nitrogen oxidants
<i>Sulfurospirillum</i> sp. MES	sulfur or nitrogen oxidants
<i>Sulfurospirillum barnesii</i>	sulfur or nitrogen oxidants
<i>Sulfurospirillum multivorans</i>	sulfur or nitrogen oxidants
<i>Acidithiobacillus caldus</i>	sulfur-oxidizing
<i>Marinobacter nitratireducens</i>	sulfur-oxidizing
<i>Thiomicrospira aerophila</i>	sulfur-oxidizing
<i>Acidithiobacillus thiooxidans</i>	sulfur-oxidizing
<i>Sulfurimonas denitrificans</i>	sulfur-oxidizing
<i>Sulfurovum</i> sp. NBC37-1	sulfur-oxidizing

Halothiobacillus neapolitanus	sulfur-oxidizing
Thiomicrospira cyclica	sulfur-oxidizing
Arcobacter sp. L	sulfur-oxidizing
Thiomicrospira pelophila	sulfur-oxidizing
Sulfurovum sp. AR	sulfur-oxidizing
Sulfuricella denitrificans	sulfur-oxidizing
Sulfurimonas autotrophica	sulfur-oxidizing
Sulfurospirillum deleyianum	sulfur-reducing
Desulfobacterium autotrophicum HRM2	sulfur-reducing
Sulfurospirillum arcachonense	sulfur-reducing
Desulfobulbus sp. Tol-SR	toluene
Tolumonas auensis	toluene
Tolumonas lignilytica	toluene
Cellvibrio mixtus	xylanase-producing

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Species

Acidithiobacillus caldus
Acidithiobacillus ferrivorans
Acidithiobacillus ferrooxidans
Acidithiobacillus thiooxidans
Acinetobacter baylyi
Acinetobacter indicus
Acinetobacter lwoffii NCTC 5866 = CIP 64.10 = NIPH 512
Acinetobacter schindleri
Acinetobacter soli
Acinetobacter sp. NIPH 899
Acinetobacter ursingii
Aeromonas bestiarum
Aeromonas caviae
Aeromonas diversa
Aeromonas lacus
Aeromonas media
Aeromonas salmonicida subsp. salmonicida A449
Aeromonas taiwanensis
Aeromonas veronii
Alkanindiges illinoisensis
Alteromonas australica
Alteromonas naphthalenivorans
Alteromonas sp. ALT199
Alteromonas stellipolaris
Arcobacter butzleri
Arcobacter sp. L
bacteria symbiont BFO1 of Frankliniella occidentalis
Castellaniella defragrans
Cellvibrio japonicus
Cellvibrio mixtus
Cellvibrio sp. BR
Comamonas badia
Cycloclasticus zancles
Deltaproteobacteria bacterium
Desulfobacterium autotrophicum HRM2
Desulfobulbus sp. Tol-SR
Endozoicomonas elysicola
Endozoicomonas montiporae
Endozoicomonas numazuensis
Enterobacter cancerogenus
Enterobacter ludwigii
Erwinia amylovora
Erwinia aphidicola
Erwinia billingiae
Erwinia gerundensis
Erwinia iniecta
Erwinia oleae
Erwinia persicina
Erwinia piriflorinigrans

Habitat Isolation

terrestrial isolated from coal spoils
fresh water isolated from the water of a mine
multiple isolated from bituminous coal mine
marine isolated from marine environment
multiple isolated from multiple habitats
terrestrial isolated from a hexachlorocyclohexane
terrestrial isolated from terrestrial environment
multiple isolated from human urine
terrestrial isolated from soil
terrestrial isolated from Conjunctiva
terrestrial isolated from blood of female white rat
multiple isolated from Rainbow trout or rainbow trout
multiple isolated from water or food
multiple isolated from leg wound
lake isolated from Finnish recreational waters
fresh water isolated from water samples or from
fresh water isolated from a brown trout with
multiple isolated from river sediments or
multiple isolated from multiple habitats
terrestrial isolated from oilfield soils
marine isolated often from the oceans and
marine isolated from a crude oil-contaminated
marine isolated from marine environment
marine isolate from sea water
multiple isolated from a human patient with
multiple isolated from waters, river water
terrestrial isolated from insect gut Frankliniella
marine isolated from marine environment
terrestrial isolated from soil
terrestrial isolated from terrestrial environment
terrestrial isolated from bovine rumen
terrestrial isolated from activated sludge
terrestrial isolated from tar at the shipwreck
fresh water isolated from the water ground
multiple isolated from a marine sediment
terrestrial isolated from from oil sands tailings
marine isolated from digestive tract of Elymus
marine isolated from coral tissue
marine isolated from a marine sponge from
multiple isolated from multiple habitats
multiple isolated from multiple habitats
terrestrial isolated from pear and apple trees
terrestrial isolated from pea aphid
terrestrial isolated from plant
terrestrial isolated from pome fruit trees
terrestrial isolated from plant
terrestrial isolated from olive knots caused
terrestrial isolated from plant
terrestrial isolated from pear tree

<i>Erwinia pyrifoliae</i>	terrestrial	isolated from pear tree
<i>Erwinia rhapontici</i>	terrestrial	isolated from plant
<i>Erwinia</i> sp. 9145	terrestrial	isolated from plant
<i>Erwinia</i> sp. B116	terrestrial	isolated from plant
<i>Erwinia</i> sp. Ejp617	terrestrial	isolated from nashi pears in Japan
<i>Erwinia</i> sp. ErVv1	terrestrial	isolated from plant
<i>Erwinia</i> sp. Leaf53	terrestrial	isolated from plant
<i>Erwinia</i> sp. OLMDLW33	terrestrial	isolated from insect
<i>Erwinia toletana</i>	terrestrial	isolated from plant
<i>Erwinia typographi</i>	terrestrial	isolated from bark beetle
<i>Ewingella americana</i>	terrestrial	isolated from human clinical source
<i>Ferrimonas futtsuensis</i>	marine	isolated from marine sediment
gamma proteobacterium HdN1	multiple	isolated from water or food
gamma proteobacterium WG36	lake	isolated from Wintergreen Lake
<i>Geobacter bemidjensis</i>	terrestrial	isolated from subsurface sediment
<i>Geobacter</i> sp. M18	terrestrial	isolated from soil
<i>Geobacter</i> sp. M21	marine	isolated from an in situ uranium
<i>Geobacter uraniireducens</i>	marine	isolated from marine environment
<i>Geopsychrobacter electrodiphilus</i>	marine	isolated from marine sediment
<i>Glaciecola punicea</i>	marine	isolated from marine environment
<i>Halomonas alkaliantarctica</i>	marine	isolated from marine environment
<i>Halomonas boliviensis</i>	multiple	isolated from soil around the hydrothermal vent
<i>Halomonas campaniensis</i>	marine	isolated from marine sediment
<i>Halomonas</i> sp. GFAJ-1	marine	isolated from marine environment
<i>Halomonas</i> sp. TD01	lake	isolated from salt lake
<i>Halothiobacillus neapolitanus</i>	multiple	isolated from a sulfide-rich natural
<i>Hydrogenovibrio crunogenus</i>	marine	isolated from a deep-sea hydrothermal
<i>Hydrogenovibrio halophilus</i>	marine	isolated from marine environment
<i>Hydrogenovibrio kuenenii</i>	marine	isolated from marine environment
<i>Hydrogenovibrio marinus</i>	marine	isolated from marine environment
<i>Hydrogenovibrio</i> sp. Milos-T1	multiple	isolated from hydrothermal vent
<i>Izhakiella australiensis</i>	terrestrial	isolated from desert
<i>Kiloniella laminariae</i>	marine	isolated from marine environment
<i>Lamprocystis purpurea</i>	multiple	mud and stagnant water of pond
<i>Legionella anisa</i>	multiple	isolated from human respiratory
<i>Legionella longbeachae</i>	multiple	isolated from a patient, water
<i>Legionella saintelensi</i>	multiple	isolated from patients, water
marine gamma proteobacterium HTCC2143	marine	isolated from marine environment
<i>Marinobacter adhaerens</i> HP15	marine	isolated from German Wadden Sea
<i>Marinobacter hydrocarbonoclasticus</i>	marine	isolated from marine environment
<i>Marinobacter lipolyticus</i>	marine	isolated from marine environment
<i>Marinobacter nitratireducens</i>	marine	isolated from sea water sample
<i>Marinobacter</i> sp. BSs20148	marine	isolated from marine environment
<i>Marinobacter</i> sp. ELB17	lake	isolated from Lake Bonney, an ice
<i>Methylophaga aminisulfidivorans</i>	marine	isolated from marine environment
<i>Methylophaga frappieri</i>	fresh water	isolated from the water
<i>Methylophaga lonarensis</i>	lake	isolated from Lonar Lake water
<i>Methylophaga nitratireducenticrescens</i>	marine	isolated from marine sediment
<i>Methylophaga thiooxydans</i>	marine	isolated from marine environment
<i>Methylophilus methylotrophus</i>	marine	isolated from marine environment

<i>Methylothermobacter versatilis</i>	lake	isolated from lake sediment
<i>Methylothermobacter thermotolerans</i>	lake	isolated from lake of Washington
<i>Moorea producens</i>	multiple	isolated from marine environment
<i>Moorea</i> sp. SIO3I6	multiple	isolated from marine environment
<i>Moorea</i> sp. SIOASIH	multiple	isolated from marine environment
<i>Nitrocola nitratireducens</i>	lake	isolated from alkaline lake
<i>Nitrosomonas cryotolerans</i>	marine	isolated from marine environment
<i>Nitrosomonas europaea</i>	marine	isolated from marine environment
<i>Nitrosomonas eutropha</i>	multiple	isolated from sewage disposal plant
<i>Nitrosomonas</i> sp. AL212	multiple	isolated from laboratory waste water
<i>Nitrosomonas</i> sp. Is79A3	marine	isolated from marine environment
<i>Nitrospira briensis</i>	marine	isolated from marine environment
<i>Nitrospira lacus</i>	lake	isolated sandy freshwater lake sediment
<i>Nitrospira multiformis</i>	terrestrial	isolated from soil
<i>Oceanimonas smirnovii</i>	marine	isolated from marine environment
<i>Oceanimonas</i> sp. GK1	marine	isolated from Gavkhouni Wetland
<i>Paludibacter propionigenes</i>	terrestrial	isolated from soil
<i>Pantoea agglomerans</i>	terrestrial	isolated from plant
<i>Pantoea allii</i>	terrestrial	isolated from plant
<i>Pantoea ananatis</i>	terrestrial	isolated from plant
<i>Pantoea anthophila</i>	terrestrial	isolated from plant
<i>Pantoea coffeiphila</i>	terrestrial	isolated from root or plant
<i>Pantoea conspicua</i>	terrestrial	isolated from blood of patients
<i>Pantoea cypripedii</i>	terrestrial	isolated from plant
<i>Pantoea deleyi</i>	terrestrial	isolated from plant
<i>Pantoea dispersa</i>	terrestrial	isolated from plant
<i>Pantoea endophytica</i>	terrestrial	isolated from plant
<i>Pantoea rodasii</i>	multiple	isolated from waterfall or isolated
<i>Pantoea rwandensis</i>	terrestrial	isolated from Eucalyptus sp
<i>Pantoea septica</i>	terrestrial	isolated from human fecal
<i>Pantoea</i> sp. 3.5.1	terrestrial	isolated from soil
<i>Pantoea</i> sp. 9140	terrestrial	isolated from plant
<i>Pantoea</i> sp. aB	terrestrial	isolated from plant
<i>Pantoea</i> sp. AG1095	terrestrial	isolated from plant
<i>Pantoea</i> sp. ARC270	terrestrial	isolated from plant
<i>Pantoea</i> sp. ARC607	terrestrial	isolated from plant
<i>Pantoea</i> sp. AS-PWVM4	terrestrial	isolated from roots
<i>Pantoea</i> sp. At-9b	terrestrial	isolated from plant
<i>Pantoea</i> sp. BL1	lake	isolated from natural lake
<i>Pantoea</i> sp. GL120224-02	terrestrial	isolated from plant
<i>Pantoea</i> sp. GM01	terrestrial	isolated from root
<i>Pantoea</i> sp. ICBG 828	terrestrial	isolated from fungal garden
<i>Pantoea</i> sp. ICBG 985	terrestrial	isolated from fungal garden
<i>Pantoea</i> sp. IMH	terrestrial	isolated from arsenic-contaminated
<i>Pantoea</i> sp. JKS000250	lake	isolated from lake
<i>Pantoea</i> sp. NGS-ED-1003	terrestrial	isolated from blood
<i>Pantoea</i> sp. OV426	terrestrial	isolated from plant
<i>Pantoea</i> sp. OXWO6B1	terrestrial	isolated from stem
<i>Pantoea</i> sp. PNA 03-3	terrestrial	isolated from plant
<i>Pantoea</i> sp. PSNIH1	terrestrial	isolated from wood

<i>Pantoea</i> sp. RIT-PI-b	terrestrial	isolated from plant
<i>Pantoea</i> sp. SM3	fresh water	isolated from a river in Endau-Ro
<i>Pantoea</i> sp. VS1	terrestrial	isolated from plant
<i>Pantoea vagans</i> C9-1	terrestrial	isolated from terrestrial environr
<i>Pelobacter seleniigenes</i>	marine	isolated from marine environme
<i>Photobacterium galathea</i>	marine	isolated from marine environme
<i>Photobacterium marinum</i>	marine	isolated from sediment samples
<i>Photobacterium profundum</i> SS9	multiple	isolated at a depth of 2500 m fro
<i>Prolixibacter bellariivorans</i>	marine	isolated from a marine sedimen
<i>Proteiniphilum acetatigenes</i>	marine	isolated from marine environme
<i>Pseudoalteromonas flavipulchra</i>	marine	isolated from rearing water of he
<i>Pseudoalteromonas piscicida</i>	marine	isolated from seawater from the
<i>Pseudomonas pelagia</i>	marine	isolated from a culture of the ant
<i>Psychroflexus gondwanensis</i>	lake	isolated form hypersaline lake
<i>Psychroflexus torquis</i>	marine	isolated from marine environme
<i>Psychroflexus tropicus</i>	marine	isolated from marine environme
<i>Rahnella aquatilis</i>	multiple	isolated from drinking water or p
<i>Rahnella victoriana</i>	terrestrial	isolated from <i>Quercus robur</i>
<i>Rheinheimera perlucida</i>	marine	isolated from marine environme
<i>Salinimonas chungwhensis</i>	marine	isolated from marine environme
<i>Serratia</i> sp. M24T3	terrestrial	isolated from <i>Bursaphelenchus x</i>
<i>Shewanella amazonensis</i>	multiple	isolated from shallow marine de
<i>Shewanella baltica</i>	marine	isolated from marine environme
<i>Shewanella oneidensis</i>	multiple	isolated from Oneida lake
<i>Shewanella putrefaciens</i>	marine	isolated from shrimp
<i>Shewanella</i> sp. ANA-3	multiple	isolated from an arsenate treat
<i>Shewanella</i> sp. HN-41	marine	isolated isolated from estuarine
<i>Shewanella xiamenensis</i>	marine	isolated from marine environme
<i>Sulfuricella denitrificans</i>	marine	isolated from marine sediment
<i>Sulfurimonas autotrophica</i>	marine	isolated from hydrothermal sedit
<i>Sulfurimonas denitrificans</i>	marine	isolated isolated from estuarine
<i>Sulfurimonas gotlandica</i>	marine	isolated from Gotland Deep, Balt
<i>Sulfurimonas hongkongensis</i>	marine	isolated from marine coastal sed
<i>Sulfurospirillum arcachonense</i>	marine	isolated from marine environme
<i>Sulfurospirillum barnesii</i>	marine	isolated from marine sediments
<i>Sulfurospirillum deleyianum</i>	marine	isolated from marine environme
<i>Sulfurospirillum multivorans</i>	terrestrial	isolated from activated sludge of
<i>Sulfurospirillum</i> sp. MES	fresh water	isolated from bioreactor
<i>Sulfurospirillum</i> sp. SCADC	terrestrial	isolated from fromoil sands tailir
<i>Sulfurovum</i> sp. AR	marine	isolated from marine sediment
<i>Sulfurovum</i> sp. NBC37-1	marine	isolated from a deep-sea hydroth
<i>Thauera</i> sp. 27	fresh water	isolated from wastewater treatr
<i>Thauera terpenica</i>	terrestrial	isolated from forest
<i>Thiomicrohabdus arctica</i>	marine	isolated from marine sediment
<i>Thiomicrohabdus chilensis</i>	marine	isolated from marine sediment
<i>Thiomicrohabdus</i> sp. Kp2	marine	isolated from marine sediment
<i>Thiomicrohabdus</i> sp. Milos-T2	multiple	isolated from hydrothermal vent
<i>Thiomicrospira aerophila</i>	marine	isolated from marine sediments
<i>Thiomicrospira cyclica</i>	marine	isolated from hypersaline habit
<i>Thiomicrospira pelophila</i>	marine	isolated from marine environme

Thiomonas sp. FB-6	marine	isolated from marine environment
Thiomonas sp. FB-Cd	marine	isolated from marine environment
Tolumonas auensis	lake	isolated from the sediment of a freshwater lake
Tolumonas lignilytica	terrestrial	isolated from tropical forest soil
Type-C symbiont of Plautia stali	terrestrial	isolated from insect
Type-D symbiont of Plautia stali	terrestrial	isolated from insect
Type-E symbiont of Plautia stali	terrestrial	isolated from insect
Type-F symbiont of Plautia stali	terrestrial	isolated from insect
Verrucomicrobiae bacterium DG1235	marine	isolated from marine environment
Vibrio caribbeanicus	marine	isolated from a marine sponge
Vibrio nigripulchritudo SOn1	marine	isolated from moribund shrimp
Yersinia massiliensis	fresh water	isolated from the water

ers, waste water and sea water, foods, animal origin, such as beef, pork, sheep and poultry meat.

NCBI ID	Phylum	Class	Order	Family	Genus	Species
KFL35131.1	Proteobac	Epsilonpro	Campylob	Campylob	Sulfurospir	Sulfurospirillum sp. SC
KHG34356.1	Proteobac	Epsilonpro	Campylob	Campylob	Sulfurospir	Sulfurospirillum sp. M
KMV70985.1	Proteobac	Gammapr	Enterobac	Erwiniace	Unclassifie	bacteria symbiont BFC
MRR53461.1	Proteobac	Deltaprote	Unclassifie	Unclassifie	Unclassifie	Deltaproteobacteria k
MTI98977.1	Proteobac	Gammapr	Alteromon	Alteromon	Marinobac	Marinobacter adhaer
pdb_5UTS_G	Ascomycot	Sordariomycetes			Neurospor	Neurospora crassa
TBN45672.1	Actinobact	Actinomycetia			Mycoliciba	Mycolicibacterium sm
WP_002939982.1	Proteobac	Betaprote	Rhodocycl	Zoogloeac	Thauera	Thauera sp. 27
WP_004158011.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia amylovora
WP_004869079.1	Proteobac	Acidithiob	Acidithiob	Acidithiob	Acidithiob	Acidithiobacillus caldu
WP_006007264.1	Proteobac	Gammapr	Alteromon	Alteromon	Glaciecola	Glaciecola punicea
WP_006120256.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea stewartii
WP_006231172.1	Proteobac	Gammapr	Vibrionale	Vibrionace	Photobact	Photobacterium profu
WP_006459723.1	Proteobac	Gammapr	Thiotrichal	Pisciricketi	Thiomicro	Thiomicrospira aeropl
WP_007111784.1	Proteobac	Gammapr	Oceanospi	Halomona	Halomona	Halomonas boliviensi
WP_007146826.1	Proteobac	Gammapr	Thiotrichal	Pisciricketi	Methylopf	Methylophaga aminis
WP_007348205.1	Proteobac	Gammapr	Alteromon	Alteromon	Marinobac	Marinobacter sp. ELB
WP_007889546.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. GM01
WP_008104480.1	Verrucomi	Verrucomi	Unclassifie	Unclassifie	Unclassifie	Verrucomicrobiae bac
WP_008110506.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	unclassified Pantoea
WP_008245423.1	Proteobac	Epsilonpro	Unclassifie	Unclassifie	Sulfurovun	Sulfurovum sp. AR
WP_008291727.1	Proteobac	Gammapr	Thiotrichal	Pisciricketi	Methylopf	Methylophaga thioox
WP_008338716.1	Proteobac	Epsilonpro	Campylob	Helicobact	Sulfurimor	Sulfurimonas gotlandi
WP_008926236.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. aB
WP_009089702.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. Sc1]
WP_009097981.1	Proteobac	Gammapr	Oceanospi	Halomona	Halomona	Halomonas sp. GFAJ-1
WP_009206868.1	Proteobac	Betaprote	Nitrosomo	Gallionella	Sulfuricell	Sulfuricella denitrifica
WP_009602859.1	Proteobac	Gammapr	Vibrionale	Vibrionace	Vibrio	Vibrio caribbeanicus
WP_009635447.1	Proteobac	Gammapr	Enterobac	Yersiniace	Serratia	Serratia sp. M24T3
WP_009724024.1	Proteobac	Gammapr	Oceanospi	Halomona	Halomona	Halomonas sp. TD01
WP_009725766.1	Proteobac	Gammapr	Thiotrichal	Pisciricketi	Methylopf	Methylophaga Ionare
WP_011112873.1	Proteobac	Betaprote	Nitrosomo	Nitrosomo	Nitrosomo	Nitrosomonas europa
WP_011372115.1	Proteobac	Epsilonpro	Campylob	Helicobact	Sulfurimor	Sulfurimonas denitrifi
WP_011787209.1	Proteobac	Gammapr	Alteromon	Alteromon	Marinobac	Marinobacter hydroc
WP_012487513.1	Proteobac	Gammapr	Cellvibrion	Cellvibrion	Cellvibrio	Cellvibrio japonicus
WP_012528497.1	Proteobac	Deltaprote	Desulfuror	Geobacter	Geobacter	Geobacter bemidjiens
WP_012536039.1	Proteobac	Acidithiob	Acidithiob	Acidithiob	Acidithiob	Acidithiobacillus ferro
WP_012667864.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia pyrifoliae
WP_012729593.1	Proteobac	Gammapr	Aeromona	Aeromona	Tolumona	Tolumonas auensis
WP_012773769.1	Proteobac	Deltaprote	Desulfuror	Geobacter	Geobacter	Geobacter sp. M21
WP_012823949.1	Proteobac	Gammapr	Chromatia	Halothiob	Halothiob	Halothiobacillus neap
WP_012857216.1	Proteobac	Epsilonpro	Campylob	Campylob	Sulfurospir	Sulfurospirillum deley
WP_013148341.1	Proteobac	Betaprote	Nitrosomo	Methylopf	Methylote	Methylotenera versat
WP_013202540.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia billingiae
WP_013260885.1	Proteobac	Gammapr	Unclassifie	Unclassifie	Unclassifie	gamma proteobacteri
WP_013327439.1	Proteobac	Epsilonpro	Campylob	Helicobact	Sulfurimor	Sulfurimonas autotroj
WP_013444866.1	Bacteroid	Bacteroidi	Bacteroida	Paludibact	Paludibact	Paludibacter propioni
WP_013509480.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. At-9b
WP_013575023.1	Proteobac	Gammapr	Enterobac	Yersiniace	Rahnella	Rahnella aquatilis

WP_013648123.1 Proteobac Betaprotei Nitrosomo Nitrosomo Nitrosomo Nitrosomonas sp. AL2
 WP_013782796.1 Proteobac Gammapr Alteromon Alteromon Alteromon Alteromonas naphtha
 WP_013834583.1 Proteobac Gammapr Thiotrichal Pisciricketi Thiomicro: Thiomicrospira cyclica
 WP_013966369.1 Proteobac Betaprotei Nitrosomo Nitrosomo Nitrosomo Nitrosomonas sp. Is79
 WP_014030107.1 Proteobac Acidithiob: Acidithiob: Acidithiob: Acidithiob: Acidithiobacillus ferriv
 WP_014292703.1 Proteobac Gammapr Aeromona Aeromona Oceanimo: Oceanimonas sp. GK1
 WP_014544468.1 Proteobac Gammapr Enterobac: Erwiniace: Erwinia Erwinia sp. Ejp617
 WP_014703952.1 Proteobac Gammapr Thiotrichal Pisciricketi Methyloph Methylophaga frappie
 WP_014706106.1 Proteobac Gammapr Thiotrichal Pisciricketi Methyloph Methylophaga nitratir
 WP_014769673.1 Proteobac Epsilonpro Campylob: Campylob: Sulfurospir Sulfurospirillum barne
 WP_014872980.1 Proteobac Gammapr Alteromon Alteromon Marinobac Marinobacter sp. BS5
 WP_014999417.1 Proteobac Gammapr Alteromon Alteromon Alteromon Alteromonas macleoc
 WP_015138936.1 Cyanobact Cyanophyc: Nostocales: Nostocace Nostoc Nostoc sp. PCC 7524
 WP_015258085.1 Proteobac Gammapr Chromatia Ectothiorh Thioalkaliv Thioalkalivibrio nitratir
 WP_015718444.1 Proteobac Deltaprote Desulfuror Geobacter Geobacter Geobacter sp. M18
 WP_017494025.1 Proteobac Gammapr Unclassifie Unclassifie Unclassifie gamma proteobacteri
 WP_017802908.1 Proteobac Gammapr Enterobac: Erwiniace: Erwinia Erwinia toletana
 WP_018404193.1 Proteobac Gammapr Alteromon Alteromon Marinobac Marinobacter lipolytic
 WP_018983338.1 Proteobac Gammapr Alteromon Alteromon Salinimon: Salinimonas chungwh
 WP_019539710.1 Bacteroide Bacteroidi: Bacteroida Dysgonam Proteiniph Proteiniphilum acetat
 WP_019557492.1 Proteobac Gammapr Thiotrichal Pisciricketi Thiomicro: Thiomicrothabds arc
 WP_019894020.1 Proteobac Gammapr Thiotrichal Pisciricketi Hydrogenc Hydrogenovibrio halo
 WP_019935723.1 Proteobac Gammapr Aeromona Aeromona Oceanimo: Oceanimonas smirnov
 WP_020164404.1 Proteobac Betaprotei Nitrosomo Sterolibact Methylove Methyloversatilis disc
 WP_020505797.1 Proteobac Gammapr Chromatia Chromatia Lamprocys Lamprocystis purpure
 WP_020581324.1 Proteobac Gammapr Oceanospi Endozoico: Endozoico: Endozoicomonas elysi
 WP_021182945.1 Proteobac Gammapr Enterobac: Erwiniace: Pantoea Pantoea sp. AS-PWVM
 WP_021286861.1 Proteobac Epsilonpro Campylob: Helicobact Sulfurimor Sulfurimonas hongkor
 WP_021509958.1 Proteobac Gammapr Enterobac: Erwiniace: Pantoea Pantoea dispersa
 WP_022607184.1 Proteobac Gammapr Vibrionale: Vibrionace Vibrio Vibrio nigripulchritud
 WP_022964411.1 Proteobac Gammapr Pseudomo Pseudomo Pseudomo Pseudomonas pelagia
 WP_023655310.1 Proteobac Gammapr Enterobac: Erwiniace: Erwinia Erwinia piriflorinigran
 WP_024851555.1 Proteobac Gammapr Thiotrichal Pisciricketi Hydrogenc Hydrogenovibrio kuer
 WP_024870615.1 Proteobac Gammapr Aeromona Aeromona Tolumona: Tolumonas lignilytica
 WP_024955669.1 Proteobac Epsilonpro Campylob: Campylob: Sulfurospir Sulfurospirillum arcac
 WP_024968346.1 Proteobac Gammapr Enterobac: Erwiniace: Pantoea Pantoea sp. IMH
 WP_025256307.1 Proteobac Gammapr Alteromon Alteromon Alteromon Alteromonas sp. ALT1
 WP_025345165.1 Proteobac Epsilonpro Campylob: Campylob: Sulfurospir Sulfurospirillum multi
 WP_025864819.1 Bacteroide Bacteroidi: Marinilabil Prolixibact Prolixibact Prolixibacter bellariiv
 WP_026224516.1 Proteobac Betaprotei Nitrosomo Sterolibact Methylove Methyloversatilis ther
 WP_026349518.1 Proteobac Gammapr Chromatia Chromatia Rheinheim Rheinheimera perlucl
 WP_028485745.1 Proteobac Gammapr Thiotrichal Pisciricketi Thiomicro: Thiomicrothabds chi
 WP_029910020.1 Proteobac Gammapr Thiotrichal Pisciricketi Hydrogenc Hydrogenovibrio mari
 WP_029933517.1 Proteobac Gammapr Thiotrichal Pisciricketi Thiomicro: Thiomicrospira pelopl
 WP_031346342.1 Proteobac Betaprotei Rhodocycl: Zoogloeac: Thauera Thauera terpenica
 WP_033115335.1 Proteobac Gammapr Aeromona Aeromona Aeromona Aeromonas lacus
 WP_033749712.1 Proteobac Gammapr Enterobac: Erwiniace: Pantoea Pantoea sp. NGS-ED-1
 WP_033783330.1 Proteobac Gammapr Enterobac: Erwiniace: Pantoea Pantoea sp. 9140
 WP_034828630.1 Proteobac Gammapr Enterobac: Enterobac: Enterobac: Enterobacter cancro
 WP_034874517.1 Proteobac Gammapr Oceanospi Endozoico: Endozoico: Endozoicomonas mor

WP_034895873.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia typographi
WP_034915453.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia sp. 9145
WP_034947328.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia oleae
WP_035217720.1	Proteobac	Acidithiob	Acidithiob	Acidithiob	Acidithiob	Acidithiobacillus thioo
WP_035385326.1	Proteobac	Gammapr	Alteromon	Ferrimona	Ferrimona	Ferrimonas futtsuensi
WP_036127534.1	Proteobac	Gammapr	Alteromon	Alteromon	Marinobac	Marinobacter nitratir
WP_036508164.1	Proteobac	Gammapr	Oceanospi	Oceanospi	Nitrincola	Nitrincola nitratireduc
WP_036574263.1	Proteobac	Betaprote	Nitrosomo	Nitrosomo	Nitrosomo	Nitrosomonas cryotol
WP_039913609.1	Proteobac	Gammapr	Cellvibrion	Cellvibrion	Cellvibrio	Cellvibrio mixtus
WP_040018759.1	Proteobac	Gammapr	Enterobac	Enterobac	Enterobac	Enterobacter ludwigii
WP_040391718.1	Proteobac	Gammapr	Cellvibrion	Cellvibrion	Cellvibrio	Cellvibrio sp. BR
WP_040823109.1	Proteobac	Gammapr	Cellvibrion	Spongiibac	BD1-7 clad marine gamma prote	
WP_040851105.1	Proteobac	Betaprote	Nitrosomo	Nitrosomo	Nitrosospii	Nitrosospira lacus
WP_042958836.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia tasmaniensis
WP_043135558.1	Proteobac	Gammapr	Aeromona	Aeromona	Aeromona	Aeromonas bestiarum
WP_043597834.1	Proteobac	Gammapr	Aeromona	Aeromona	Aeromona	Aeromonas diversa
WP_044057977.1	Proteobac	Gammapr	Alteromon	Alteromon	Alteromon	Alteromonas australic
WP_045816043.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. SM3
WP_045832923.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. BL1
WP_046102000.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea anthophila
WP_046288267.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. 3.5.1
WP_049852067.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. RIT-PI-b
WP_051786203.1	Proteobac	Gammapr	Oceanospi	Endozoico	Endozoico	Endozoicomonas num
WP_052902351.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia iniecta
WP_056241850.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia sp. Leaf53
WP_058127192.1	Actinobact	Actinobact	Corynebac	Mycobact	Mycoliciba	Mycolicibacterium sm
WP_058957339.1	Proteobac	Gammapr	Enterobac	Enterobac	Unclassifie	Type-F symbiont of PI
WP_058960194.1	Proteobac	Gammapr	Enterobac	Enterobac	Unclassifie	Type-E symbiont of PI
WP_058972523.1	Proteobac	Gammapr	Enterobac	Enterobac	Unclassifie	Type-D symbiont of PI
WP_059009773.1	Proteobac	Gammapr	Enterobac	Enterobac	Unclassifie	Type-C symbiont of PI
WP_062746310.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia persicina
WP_063879910.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. OXWO6B
WP_067431479.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia gerundensis
WP_067701099.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia sp. ErVv1
WP_069026425.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea agglomerans
WP_074797200.1	Proteobac	Betaprote	Nitrosomo	Nitrosomo	Nitrosospii	Nitrosospira briensis
WP_074928651.1	Proteobac	Betaprote	Nitrosomo	Nitrosomo	Nitrosomo	Nitrosomonas eutropi
WP_078001669.1	Proteobac	Gammapr	Enterobac	Enterobac	Izhakiella	Izhakiella australiensis
WP_084875429.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea cypripedii
WP_084882333.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Pantoea septica
WP_084934435.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea rwandensis
WP_086904323.1	Proteobac	Gammapr	Alteromon	Shewanell	Shewanell	Shewanella putrefacis
WP_088517806.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. VS1
WP_088698784.1	Proteobac	Gammapr	Oceanospi	Halomona	Halomona	Halomonas campanie
WP_090960177.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. OV426
WP_094120012.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea conspicua
WP_095922393.1	Proteobac	Gammapr	Enterobac	Yersiniace	Rahnella	Rahnella victoriana
WP_097116848.1	Proteobac	Gammapr	Enterobac	Erwiniace	Pantoea	Pantoea sp. GL120224
WP_099462821.1	Proteobac	Gammapr	Enterobac	Yersiniace	Yersinia	Yersinia massiliensis
WP_099753936.1	Proteobac	Gammapr	Enterobac	Erwiniace	Erwinia	Erwinia sp. OLMDLW3

WP_100700755.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea rodasii
WP_101505699.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Erwinia	Erwinia sp. B116
WP_101764149.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea endophytica
WP_103422363.1	Proteobac	Gammapro	Aeromona	Aeromona	Aeromona	Aeromonas veronii
WP_104093215.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. ICBG 985
WP_104188958.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. ICBG 828
WP_105099094.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea ananatis
WP_105595064.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea coffeiphila
WP_109716484.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea allii
WP_110267420.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. PNA 03-3
WP_110330496.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. JKS00025
WP_110866317.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. AG1095
WP_111139796.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. ARC607
WP_111207747.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. ARC270
WP_113072275.1	Proteobac	Betaprote	Nitrosomo	Nitrosomo	Nitrososp	Nitrosospira multiforr
WP_113720557.1	Proteobac	Gammapro	Aeromona	Aeromona	Aeromona	Aeromonas salmonici
WP_113977763.1	Proteobac	Gammapro	Aeromona	Aeromona	Aeromona	Aeromonas caviae
WP_133623813.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Erwinia	Erwinia aphidicola
WP_133731078.1	Proteobac	Gammapro	Oceanospi	Halomona	Halomona	Halomonas alkalianta
WP_133841771.	Proteobac	Gammapro	Enterobac	Erwiniaceae	Erwinia	Erwinia rhapontici
WP_133841771.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Erwinia	Erwinia sp.
WP_134696958.1	Proteobac	Gammapro	Aeromona	Aeromona	Aeromona	Aeromonas taiwanen
WP_135319222.1	Proteobac	Gammapro	Aeromona	Aeromona	Aeromona	Aeromonas hydrophil
WP_135796185.1	Proteobac	Gammapro	Thiotrichal	Pisciricket	Hydrogenc	Hydrogenovibrio crun
WP_139435577.1	Proteobac	Gammapro	Aeromona	Aeromona	Aeromona	Aeromonas media
WP_140474067.1	Proteobac	Gammapro	Enterobac	Yersiniaceae	Ewingella	Ewingella americana
WP_145339013.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea sp. PSNIH1
WP_147789044.1	Proteobac	Gammapro	Enterobac	Erwiniaceae	Pantoea	Pantoea vagans C9-1
WP_148154744.1	Proteobac	Epsilonpro	Unclassifie	Unclassifie	Sulfurovun	Sulfurovum sp. NBC37
WP_148214783.1	Proteobac	Deltaprote	Desulfoba	Desulfoba	Desulfoba	Desulfobacterium aut
WP_154650045.1	Proteobac	Betaprote	Nitrosomo	Methylopt	Methylopt	Methylophilus methyl
WP_157281352.1	Proteobac	Betaprote	Nitrosomo	Sterolibact	Methylove	Methyloversatilis univ
WP_157372533.1	Proteobac	Gammapro	Vibrionale	Vibrionace	Photobact	Photobacterium marii

01 of *Frankliniella occidentalis*

obacterium HTCC2143

da subsp. salmonicida A449

OGA ID	Phylum	Class	Order	Family	Genus	Species
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Bacteria)
OM-RGC.v	Proteobac	Gammapro	Unclassifie	Unclassifie	Unclassifie	Unclassified (Gammaproteobacteria)
OM-RGC.v	Proteobac	Gammapro	Oceanospi	Unclassifie	Unclassifie	Unclassified (Oceanospirillales)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Verrucomi	Verrucomi	Unclassifie	Unclassifie	Unclassifie	Verrucomicrobiae bacterium DG1235
OM-RGC.v	Proteobac	Alphaprot	Rhodobact	Rhodobact	Jannaschia	Jannaschia donghaensis
OM-RGC.v	Proteobac	Gammapro	Alteromon	Alteromon	Marinobac	Unclassified (Marinobacter)
OM-RGC.v	Proteobac	Gammapro	Alteromon	Alteromon	Marinobac	Unclassified (Marinobacter)
OM-RGC.v	Bacteroid	Bacteroidi	Bacteroida	Unclassifie	Unclassifie	Unclassified (Bacteroidales)
OM-RGC.v	Proteobac	Alphaprot	Rhodobact	Rhodobact	Unclassifie	Unclassified (Rhodobacteraceae)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Gammapro	Oceanospi	Halomona	Halomona	Halomonas sp. S2151
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Gammapro	Alteromon	Alteromon	Marinobac	Unclassified (Marinobacter)
OM-RGC.v	Bacteroid	Bacteroidi	Bacteroida	Unclassifie	Unclassifie	Unclassified (Bacteroidales)
OM-RGC.v	Proteobac	Gammapro	Unclassifie	Unclassifie	Unclassifie	Unclassified (Gammaproteobacteria)
OM-RGC.v	Verrucomi	Opitutae	Unclassifie	Unclassifie	Unclassifie	Unclassified (Opitutae)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Alphaprot	Rhodobact	Rhodobact	Unclassifie	Unclassified (Rhodobacteraceae)
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Bacteria)
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified
OM-RGC.v	Verrucomi	Opitutae	Unclassifie	Unclassifie	Unclassifie	Unclassified (Opitutae)
OM-RGC.v	Proteobac	Alphaprot	Rhodobact	Rhodobact	Unclassifie	Unclassified (Rhodobacteraceae)
OM-RGC.v	Proteobac	Gammapro	Thiotrichal	Piscirickett	Methylopt	Methylophaga muralis
OM-RGC.v	Proteobac	Gammapro	Thiotrichal	Piscirickett	Methylopt	Methylophaga muralis
OM-RGC.v	Proteobac	Alphaprot	Rhodobact	Rhodobact	Unclassifie	Unclassified (Rhodobacteraceae)
OM-RGC.v	Proteobac	Gammapro	Thiotrichal	Piscirickett	Methylopt	Methylophaga muralis
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Bacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Bacteria)
OM-RGC.v	Proteobac	Alphaprot	Rhodobact	Rhodobact	Unclassifie	Unclassified (Rhodobacteraceae)
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Bacteria)
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Bacteria)
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified
OM-RGC.v	Proteobac	Gammapro	Oceanospi	Halomona	Halomona	Unclassified (Halomonas)
OM-RGC.v	Bacteroid	Bacteroidi	Marinilabil	Prolixibact	Marinipha	Mariniphaga anaerophila
OM-RGC.v	Proteobac	Gammapro	Unclassifie	Unclassifie	Unclassifie	Unclassified (Gammaproteobacteria)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Bacteria)
OM-RGC.v	Proteobac	Gammapro	Oceanospi	Unclassifie	Unclassifie	Unclassified (Oceanospirillales)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)
OM-RGC.v	Verrucomi	Opitutae	Unclassifie	Unclassifie	Unclassifie	Unclassified (Opitutae)
OM-RGC.v	Proteobac	Unclassifie	Unclassifie	Unclassifie	Unclassifie	Unclassified (Proteobacteria)

OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Gammaprø Unclassifie Unclassifie Unclassifie Unclassified (Gammaproteobacteria)
OM-RGC.v Verrucomi Opitutae Unclassifie Unclassifie Unclassifie Unclassified (Opitutae)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Gammaprø Cellvibrion Spongiibac Dasania Dasania marina
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Verrucomi Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Verrucomicrobia)
OM-RGC.v Proteobac Gammaprø Unclassifie Unclassifie Unclassifie Unclassified (Gammaproteobacteria)
OM-RGC.v Proteobac Gammaprø Unclassifie Unclassifie Unclassifie Unclassified (Gammaproteobacteria)
OM-RGC.v Proteobac Gammaprø Unclassifie Unclassifie Unclassifie Unclassified (Gammaproteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Actinobact Unclassifie Unclassifie Unclassifie Unclassifie Actinobacteria bacterium 66_15
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Verrucomi Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Verrucomicrobia)
OM-RGC.v Verrucomi Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Verrucomicrobia)
OM-RGC.v Proteobac Gammaprø Unclassifie Unclassifie Unclassifie Unclassified (Gammaproteobacteria)
OM-RGC.v Verrucomi Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Verrucomicrobia)
OM-RGC.v Proteobac Gammaprø Alteromon Alteromon Paraglaciei Unclassified (Paraglaciecola)
OM-RGC.v Proteobac Gammaprø Unclassifie Unclassifie Unclassifie Unclassified (Gammaproteobacteria)
OM-RGC.v Proteobac Gammaprø Alteromon Unclassifie Unclassifie Unclassified (Alteromonadaceae)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Gammaprø Alteromon Alteromon Paraglaciei Paraglaciecola polaris LMG 21857
OM-RGC.v Proteobac Gammaprø Alteromon Unclassifie Unclassifie Unclassified (Alteromonadaceae)
OM-RGC.v Proteobac Gammaprø Alteromon Alteromon Paraglaciei Unclassified (Alteromonadaceae)
OM-RGC.v Proteobac Gammaprø Unclassifie Unclassifie Unclassifie Unclassified (Gammaproteobacteria)
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Proteobac Betaprotei Nitrosomo Unclassifie Unclassifie Unclassified (Nitrosomonadales)
OM-RGC.v Proteobac Gammaprø Oceanospi Unclassifie Marinomo Marinomonas aquimarina
OM-RGC.v Proteobac Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Proteobacteria)
OM-RGC.v Verrucomi Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Verrucomicrobia)
OM-RGC.v Verrucomi Opitutae Unclassifie Unclassifie Unclassifie Unclassified (Opitutae)
OM-RGC.v Bacteroides Unclassifie Unclassifie Unclassifie Unclassifie Unclassified (Bacteroidetes)
OM-RGC.v Actinobact Unclassifie Unclassifie Unclassifie Unclassifie marine actinobacterium MedAcidi-G3
ORM8680: Proteobac Gammaprø Enterobac Erwiniaceae Pantoea Pantoea deleyi

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