Opitutales	Opitutaceae	Opitutus	Opitutus_X	>HE861315.1.937	99.3	X7
Clostridiales	Gracilibacteraceae	Lutispora	Lutispora_X	>AM991201.1.1439	98.77	X53
Methylococcales	Methylococcaceae	Methylobacter	Methylobacter_X	>HQ534083.1.871	100	X49
Clostridiales	Clostridiaceae_1	Clostridium_sensu_stricto_12	Clostridium_sensu_stricto_12_X	>HQ622753.1.1475	100	X78
Solirubrobacterales	Gsoil−1167	Gsoil−1167_X	Gsoil−1167_XX	>KJ173737.1.715	99.53	X98
C_Azambacteria_X	C_Azambacteria_XX	C_Azambacteria_XXX	C_Azambacteria_XXXX	>EF072692.1.875	94.83	X154
Rhizobiales	Bradyrhizobiaceae	Rhodoblastus	Rhodoblastus_X	>HG324431.1.823	100	X103
Clostridiales	Eubacteriaceae	Acetobacterium	Acetobacterium_X	>FJ592917.1.1367	100	X20
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>EF034868.1.824	99.52	X32
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>KC663943.1.799	99.5	X125
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>EU861845.1.1526	98.36	X62
43F−1404R	43F−1404R_X	43F−1404R_XX	43F−1404R_XXX	>AB657299.1.898	100	X232
Rhizobiales	Rhodobiaceae	Rhodobiaceae_X	Rhodobiaceae_XX	>AB806462.1.1413	100	X107
Ignavibacteriales	BSV26	BSV26_X	BSV26_XX	>GQ421108.1.1056	99.76	X156
Solirubrobacterales	Solirubrobacteraceae	Solirubrobacter	Solirubrobacter_X	>FN567276.1.854	100	X147
Clostridiales	Clostridiaceae_1	Clostridium_sensu_stricto_13	Clostridium_sp._C5S18	>AB539901.1.1369	100	X2
Frankiales	Nakamurellaceae	Nakamurella	Nakamurella_X	>FJ661758.1.817	99.75	X1
Rhizobiales	MNG7	MNG7_X	MNG7_XX	>AB630410.1.1412	100	X3
Methylococcales	Crenotrichaceae	Crenothrix	Crenothrix_X	>AB753932.1.1453	97.42	X6
Acidimicrobiales	Acidimicrobiaceae	CL500−29_marine_group	CL500−29_marine_group_X	>EF019527.1.1372	100	X5
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>EF589981.1.1374	97.02	X4
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>EF019369.1.1353	99.75	X10
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>FJ568560.1.651	100	X8
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>GQ420996.1.1029	100	X11
Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium	Bradyrhizobium_X	>AB035490.1.1413	100	X29
Corynebacteriales	Mycobacteriaceae	Mycobacterium	Mycobacterium_X	>EF187357.1.1401	99.75	X9
Gaiellales	Gaiellaceae	Gaiella	Gaiella_X	>JQ253435.1.801	98.59	X12
Nitrospirales	Nitrospiraceae	Nitrospira	Nitrospira_X	>GQ397034.1.1506	100	X25
Rhizobiales	Xanthobacteraceae	Pseudolabrys	Pseudolabrys_X	>FJ592559.1.1346	99.75	X15
Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium	Hyphomicrobium_X	>GQ263780.1.1426	100	X14
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>AB656545.1.851	100	X24
Blastocatellales	Blastocatellaceae_(Subgroup_4)	RB41	RB41_X	>HQ598379.1.1515	99.76	X19
Cytophagales	Cytophagaceae	Chryseolinea	Chryseolinea_X	>HQ911211.1.870	99.76	X18
Acidimicrobiales	Acidimicrobiaceae	CL500−29_marine_group	CL500−29_marine_group_X	>EF019440.1.1370	100	X17
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>EU514548.1.844	100	X31
ARKICE−90_X	ARKICE−90_XX	ARKICE−90_XXX	ARKICE−90_XXXX	>AM935045.1.1376	100	X16
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>FQ658747.1.1316	98.51	X34
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>EF018302.1.1408	99.77	X50
Desulfobacterales	Desulfobulbaceae	[Desulfobacterium]_catecholicum_group	[Desulfobacterium]_catecholicum_group_X	>KF424855.1.853	99.3	X23
TRA3−20	TRA3−20_X	TRA3−20_XX	TRA3−20_XXX	>AB658352.1.889	100	X38
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>JX981697.1.1043	99.53	X21
Methylococcales	Methylococcaceae	Methylobacter	Methylobacter_X	>EU124849.1.925	100	X28
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>JN038942.1.1513	98.83	X35
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC607214.1.764	98.01	X76
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>KJ849553.1.600	99.75	X70
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>AM940531.1.819	99.75	X42
Clostridiales	Gracilibacteraceae	Lutispora	Lutispora_X	>HM481373.1.1391	98.77	X27
Micrococcales	Intrasporangiaceae	Intrasporangiaceae_X	Intrasporangiaceae_XX	>CU919398.1.1343	99.02	X41
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>EF019959.1.1369	100	X54
Frankiales	Nakamurellaceae	Nakamurella	Nakamurella_X	>AM697044.1.1472	100	X67
Kineosporiales	Kineosporiaceae	Kineosporia	Kineosporia_rhamnosa_JCM_9954	>BBID01001182.73.1567	100	X96
Rhizobiales	JG34−KF−361	JG34−KF−361_X	JG34−KF−361_XX	>JQ384506.1.744	100	X36
Solibacterales	Solibacteraceae_(Subgroup_3)	C_Solibacter	C_Solibacter_X	>EF664878.1.795	100	X30
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>HE861232.1.925	99.77	X93
Methylococcales	Methylococcaceae	Methylobacter	Methylobacter_X	>EU124850.1.925	99.53	X44
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>EU644258.1.1482	99.76	X37
Rhizobiales	Rhizobiales_Incertae_Sedis	Rhizomicrobium	Rhizomicrobium_X	>AF498717.1.1397	100	X128
SB−5_X	SB−5_XX	SB−5_XXX	SB−5_XXXX	>AB630505.1.1452	100	X22
Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	Rhodoplanes_X	>EF516342.1.1408	100	X75
Solibacterales	Solibacteraceae_(Subgroup_3)	C_Solibacter	C_Solibacter_X	>KF973879.1.667	100	X26
Rhizobiales	Xanthobacteraceae	Pseudolabrys	Pseudolabrys_X	>EF665573.1.807	100	X39
Acidimicrobiales	Acidimicrobiaceae	CL500−29_marine_group	CL500−29_marine_group_X	>AB127668.1.529	100	X40
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>EU644173.1.1418	100	X33
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>HE861214.1.932	99.3	X43
Methanobacteriales	Methanobacteriaceae	Methanobrevibacter	Methanobrevibacter_X	>JN098606.1.1027	92.23	X52
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>JX098605.1.1344	99.51	X45
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>EU978745.1.1103	99.52	X63
Holophagales	Holophagaceae	Geothrix	Geothrix_X	>FR732316.1.868	99.3	X72
Anaerolineales	Anaerolineaceae	Anaerolinea	Anaerolinea_X	>GQ182779.1.1356	93.05	X46
Clostridiales	Family_XIII	Anaerovorax	Anaerovorax_X	>EF034739.1.837	100	X60
Gemmatimonadales	Gemmatimonadaceae	Gemmatimonadaceae_X	Gemmatimonadaceae_XX	>AB657184.1.856	99.5	X56
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>AM991157.1.897	99.3	X159
C_Azambacteria_X	C_Azambacteria_XX	C_Azambacteria_XXX	C_Azambacteria_XXXX	>KC922849.1.716	99.26	X144
Planctomycetales	Planctomycetaceae	Planctomycetaceae_X	Planctomycetaceae_XX	>AB657271.1.872	100	X57
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>AM158357.1.935	99.77	X202
Blastocatellales	Blastocatellaceae_(Subgroup_4)	RB41	RB41_X	>FJ849538.1.1484	100	X138
Saccharibacteria_XX	Saccharibacteria_XXX	Saccharibacteria_XXXX	Saccharibacteria_XXXXX	>FJ823169.1.982	98.01	X64
Chloroplast_X	Chloroplast_XX	Chloroplast_XXX	Chloroplast_XXXX	>AB657488.1.850	100	X90
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>DQ884928.1.813	99.3	X69
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>FJ592570.1.1136	100	X48
SC−I−84	SC−I−84_X	SC−I−84_XX	SC−I−84_XXX	>AB659315.1.876	100	X61
SC−I−84	SC−I−84_X	SC−I−84_XX	SC−I−84_XXX	>GQ287539.1.1059	96.25	X108
Sphingobacteriales	Saprospiraceae	Saprospiraceae_X	Saprospiraceae_XX	>EU297642.1.825	100	X94
Ignavibacteriales	BSV26	BSV26_X	BSV26_XX	>KC922989.1.740	99.29	X51
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>EF019847.1.1382	98.83	X68
Climacium_dendroides	Climacium_dendroides_X	Climacium_dendroides_XX	Climacium_dendroides_XXX	>AF393588.1.1468	100	X80
Gaiellales	Gaiellales_X	Gaiellales_XX	Gaiellales_XXX	>FJ568791.1.670	99.77	X133
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>KC192541.1.799	98.03	X55
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>EF018450.1.1368	100	X110
Sphingomonadales	JG34−KF−161	Sphingomonas_sp._52NP12	Sphingomonas_sp._52NP12_X	>AB242798.1.763	100	X189
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>FN548025.1.637	100	X58
Solibacterales	Solibacteraceae_(Subgroup_3)	Bryobacter	Bryobacter_X	>FJ166450.1.762	100	X89
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>FQ659713.1.1311	100	X84
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>JX859931.1.1101	99.75	X66
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>EF589981.1.1374	96.77	X79
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>EU644259.1.1454	99.75	X65
Propionibacteriales	Propionibacteriaceae	Propionibacteriaceae_X	Propionibacteriaceae_XX	>CU917889.1.1341	97.79	X155
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>FQ658747.1.1316	89.55	X101
Desulfobacterales	Desulfobulbaceae	Desulfobulbaceae_X	Desulfobulbaceae_XX	>EF034474.1.839	98.36	X47
Acidimicrobiales	Acidimicrobiaceae	Acidimicrobiaceae_X	Acidimicrobiaceae_XX	>EU715952.1.834	99.5	X210
unidentified	unidentified	unidentified	unidentified	>JN098606.1.1027	77.14	X73
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>HE861242.1.925	99.75	X102
Solirubrobacterales	Solirubrobacteraceae	Solirubrobacter	Solirubrobacter_X	>AM940921.1.992	100	X59
Acidimicrobiales	Acidimicrobiaceae	CL500−29_marine_group	CL500−29_marine_group_X	>AB544029.1.552	100	X169
Desulfobacterales	Desulfobacteraceae	Desulfatirhabdium	Desulfatirhabdium_X	>GU556333.1.591	99.77	X130
Solirubrobacterales	Elev−16S−1332	Elev−16S−1332_X	Elev−16S−1332_XX	>HQ119382.1.1516	100	X323
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>JQ368120.1.810	100	X124
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>AB630798.1.1448	100	X131
Methylococcales	Crenotrichaceae	Crenothrix	Crenothrix_X	>KC606445.1.790	100	X180
Propionibacteriales	Nocardioidaceae	Nocardioides	Nocardioides_X	>HM340619.1.1346	100	X91
Caldisericales	Caldisericaceae	Caldisericum	Caldisericum_X	>AB999433.1.889	98.36	X106
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>KF712627.1.1476	99	X71
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>AB660781.1.885	100	X92
Subgroup_22_X	Subgroup_22_XX	Subgroup_22_XXX	Subgroup_22_XXXX	>AM909943.1.923	99.77	X85
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>EF073875.1.782	99.53	X193
Rhizobiales	JG34−KF−361	JG34−KF−361_X	JG34−KF−361_XX	>HE861245.1.923	100	X165
Micrococcales	Microbacteriaceae	Lysinimonas	Lysinimonas_X	>FJ568349.1.591	100	X123
Acidimicrobiales	Acidimicrobiaceae	CL500−29_marine_group	CL500−29_marine_group_X	>EF019527.1.1372	99.26	X105
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>EF019692.1.1362	100	X81
Gaiellales	Gaiellales_X	Gaiellales_XX	Gaiellales_XXX	>JX171822.1.731	100	X185
Desulfobacterales	Desulfobulbaceae	[Desulfobacterium]_catecholicum_group	[Desulfobacterium]_catecholicum_group_X	>KF424855.1.853	99.53	X87
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>JQ376947.1.778	95.04	X229
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>EF019286.1.1337	100	X77
Rhizobiales	Xanthobacteraceae	Pseudolabrys	Pseudolabrys_X	>HQ844552.1.1457	99.75	X122
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>EF034374.1.820	99.76	X206
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>JN868123.1.876	98.34	X117
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>JX967597.1.890	100	X157
Acidimicrobiales	Iamiaceae	Iamia	Iamia_X	>KF275501.1.772	99.75	X262
Desulfobacterales	Desulfobacteraceae	Desulfatirhabdium	Desulfatirhabdium_X	>FJ529202.1.588	100	X100
SBR2076_X	SBR2076_XX	SBR2076_XXX	SBR2076_XXXX	>CU923637.1.1318	100	X120
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>EF516030.1.1440	100	X208
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KM107857.1.536	92.04	X115
Acidimicrobiales	Acidimicrobiaceae	CL500−29_marine_group	CL500−29_marine_group_X	>KM841222.1.807	100	X95
Caulobacterales	Hyphomonadaceae	Woodsholea	Woodsholea_X	>LN570440.1.1296	99.25	X86
Rhizobiales	Hyphomicrobiaceae	Hyphomicrobiaceae_X	Hyphomicrobiaceae_XX	>HE860805.1.936	100	X171
Coriobacteriales	Coriobacteriaceae	Coriobacteriaceae_X	Coriobacteriaceae_XX	>FR732325.1.658	99	X204
Holophagales	Holophagaceae	Holophagaceae_X	Holophagaceae_XX	>FR732181.1.581	99.53	X113
Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium	Bradyrhizobium_X	>EF613950.1.867	100	X99
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>HE861319.1.933	97.18	X88
Rhizobiales	Hyphomicrobiaceae	Devosia	Devosia_X	>DQ648956.1.1282	100	X230
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>HQ462526.1.1224	100	X136
Rhizobiales	Xanthobacteraceae	Pseudolabrys	Pseudolabrys_X	>EF664828.1.832	100	X74
Methylococcales	Crenotrichaceae	Crenothrix	Crenothrix_X	>ABSP01000657.1821.3334	98.12	X153
SC−I−84	SC−I−84_X	SC−I−84_XX	SC−I−84_XXX	>EU869802.1.1030	99.3	X142
Ignavibacteriales	BSV26	BSV26_X	BSV26_XX	>EU644265.1.1458	100	X104
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>FQ658747.1.1316	96.77	X226
Coriobacteriales	Coriobacteriaceae	Coriobacteriaceae_X	Coriobacteriaceae_XX	>KJ955690.1.1475	99.25	X129
Planctomycetales	Planctomycetaceae	Pir4_lineage	Pir4_lineage_X	>HM253616.1.1351	97.6	X191
Rhizobiales	Rhizobiales_Incertae_Sedis	Nordella	Nordella_X	>GQ264032.1.1439	100	X119
Sphingobacteriales	Chitinophagaceae	Ferruginibacter	Ferruginibacter_X	>FJ849217.1.1453	100	X121
Saccharibacteria_XX	Saccharibacteria_XXX	Saccharibacteria_XXXX	Saccharibacteria_XXXXX	>JN833504.1.800	100	X118
Chloroplast_X	Chloroplast_XX	Chloroplast_XXX	Chloroplast_XXXX	>JQ383731.1.746	100	X109
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>JX859930.1.1080	100	X148
Burkholderiales	Comamonadaceae	Comamonadaceae_X	Comamonadaceae_XX	>KF071137.1.1352	99.77	X252
OPB35_soil_group_X	OPB35_soil_group_XX	OPB35_soil_group_XXX	OPB35_soil_group_XXXX	>LC017385.1.591	96.24	X205
Corynebacteriales	Mycobacteriaceae	Mycobacterium	Mycobacterium_X	>JF089640.1.1338	100	X158
Sphingobacteriales	Lentimicrobiaceae	Lentimicrobiaceae_X	Lentimicrobiaceae_XX	>AB659778.1.879	100	X173
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>JQ368584.1.808	99.53	X253
Clostridiales	Christensenellaceae	Christensenellaceae_R−7_group	Christensenellaceae_R−7_group_X	>EF034664.1.835	100	X375
Xanthomonadales	Xanthomonadales_Incertae_Sedis	Xanthomonadales_Incertae_Sedis_X	Xanthomonadales_Incertae_Sedis_XX	>AJ532712.1.1305	99.77	X134
Planctomycetales	Planctomycetaceae	Pir4_lineage	Pir4_lineage_X	>FN594626.1.859	100	X172
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>JQ368582.1.808	99.77	X228
Parcubacteria_XX	Parcubacteria_XXX	Parcubacteria_XXXX	Parcubacteria_XXXXX	>FJ902567.1.983	96.77	X132
Acidimicrobiales	Acidimicrobiaceae	CL500−29_marine_group	CL500−29_marine_group_X	>FN824835.1.1286	99.5	X194
Micrococcales	Microbacteriaceae	Lysinimonas	Lysinimonas_X	>AB116404.1.1151	100	X276
Acidimicrobiales	Acidimicrobiaceae	Acidimicrobiaceae_X	Acidimicrobiaceae_XX	>JF179403.1.1342	100	X127
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>FQ659926.1.1379	100	X183
Caulobacterales	Hyphomonadaceae	Woodsholea	Woodsholea_X	>KF275539.1.796	100	X111
Rhizobiales	Hyphomicrobiaceae	Hyphomicrobiaceae_X	Hyphomicrobiaceae_XX	>GQ397031.1.1447	100	X168
Solirubrobacterales	Conexibacteraceae	Conexibacter	Conexibacter_X	>EU223949.1.1514	99.06	X170
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>AB280370.1.890	99.75	X140
Anaerolineales	Anaerolineaceae	Anaerolinea	Anaerolinea_X	>GQ183421.1.737	95.04	X97
Planctomycetales	Planctomycetaceae	Pir4_lineage	Pir4_lineage_X	>FN659215.1.876	98.57	X126
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>KJ849553.1.600	99.26	X83
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>KF275247.1.812	99.53	X160
Anaerolineales	Anaerolineaceae	Anaerolinea	Anaerolinea_X	>JQ379870.1.762	98.76	X116
Coriobacteriales	Coriobacteriaceae	Coriobacteriaceae_X	Coriobacteriaceae_XX	>EF034953.1.762	99.75	X114
Rhizobiales	A0839	A0839_X	A0839_XX	>FJ568509.1.652	100	X137
Solibacterales	Solibacteraceae_(Subgroup_3)	C_Solibacter	C_Solibacter_X	>EF074171.1.831	100	X269
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>EF665688.1.829	100	X187
Methylococcales	Methylococcaceae	Methylobacter	Methylobacter_X	>HQ534094.1.871	99.77	X199
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>GQ396976.1.1501	100	X573
Sphingobacteriales	Lentimicrobiaceae	Lentimicrobiaceae_X	Lentimicrobiaceae_XX	>FJ644322.1.579	98.35	X267
Solirubrobacterales	TM146	TM146_X	TM146_XX	>JF177027.1.1366	100	X513
Planctomycetales	Planctomycetaceae	Planctomyces	Planctomyces_X	>FJ437952.1.1478	100	X174
Gitt−GS−136_X	Gitt−GS−136_XX	Gitt−GS−136_XXX	Gitt−GS−136_XXXX	>FR734356.1.888	99.75	X162
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>FR871629.1.928	95.82	X197
Chlorobiales	SJA−28	SJA−28_X	SJA−28_XX	>GQ264497.1.1457	100	X355
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>JQ386800.1.741	99.25	X82
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>EF073875.1.782	99.53	X203
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>JX564295.1.905	95.58	X151
Halanaerobiales	ODP1230B8.23	ODP1230B8.23_X	ODP1230B8.23_XX	>AB464941.1.1424	97.76	X112
Xanthomonadales	Xanthomonadaceae	Rhodanobacter	Rhodanobacter_X	>AY044039.1.535	100	X382
Methylococcales	Methylococcaceae	Methylococcaceae_X	Methylococcaceae_XX	>HM216849.1.910	100	X399
Solirubrobacterales	Elev−16S−1332	Elev−16S−1332_X	Elev−16S−1332_XX	>GQ420860.1.1077	100	X146
OPB35_soil_group_X	OPB35_soil_group_XX	OPB35_soil_group_XXX	OPB35_soil_group_XXXX	>JQ366889.1.815	98.83	X247
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>GQ096763.1.1363	99.77	X518
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>AB661129.1.881	100	X222
Clostridiales	Eubacteriaceae	Acetobacterium	Acetobacterium_X	>HE860825.1.932	99.75	X150
C_Azambacteria_X	C_Azambacteria_XX	C_Azambacteria_XXX	C_Azambacteria_XXXX	>KP686645.1.1427	93.1	X475
Desulfuromonadales	Geobacteraceae	Geobacter	Geobacter_X	>HQ290498.1.832	100	X161
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>AY917513.1.780	92.31	X325
Solirubrobacterales	TM146	TM146_X	TM146_XX	>AB630587.1.1461	100	X163
C_Magasanikbacteria_X	C_Magasanikbacteria_XX	C_Magasanikbacteria_XXX	C_Magasanikbacteria_XXXX	>JF420809.1.1071	99.75	X261
Gaiellales	Gaiellales_X	Gaiellales_XX	Gaiellales_XXX	>JQ369231.1.803	100	X188
Syntrophobacterales	Syntrophaceae	Smithella	Smithella_X	>LN715709.1.897	99.77	X251
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>FJ568594.1.655	100	X195
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>JF208044.1.1377	98.83	X177
Micrococcales	Cellulomonadaceae	Actinotalea	Actinotalea_X	>EF034399.1.801	100	X141
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>GQ183147.1.792	100	X166
Holophagales	Holophagaceae	Geothrix	Geothrix_X	>GQ339218.1.917	100	X258
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>EU978745.1.1103	99.76	X215
Sphingobacteriales	Chitinophagaceae	Terrimonas	Terrimonas_X	>AM940533.1.800	99.76	X499
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>EF589981.1.1374	98.26	X200
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>KF875608.1.862	97.3	X217
Desulfobacterales	Desulfobacteraceae	Desulfatirhabdium	Desulfatirhabdium_X	>GU556333.1.591	99.77	X164
Xanthomonadales	Xanthomonadales_Incertae_Sedis	Acidibacter	Acidibacter_X	>GQ457052.1.626	100	X300
SB−5_X	SB−5_XX	SB−5_XXX	SB−5_XXXX	>DQ415815.1.1483	99.29	X271
Blastocatellales	Blastocatellaceae_(Subgroup_4)	Aridibacter	Aridibacter_X	>EF589982.1.1372	100	X279
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>JQ386800.1.741	98.76	X176
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>EF018374.1.1385	98.36	X266
Methylococcales	Methylococcaceae	Methylobacter	Methylobacter_X	>JF202547.1.1356	99.77	X384
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>KC922927.1.518	98.34	X326
MB−A2−108_X	MB−A2−108_XX	MB−A2−108_XXX	MB−A2−108_XXXX	>GU202377.1.572	100	X201
Rhodocyclales	Rhodocyclaceae	C_Accumulibacter	C_Accumulibacter_X	>HQ910626.1.883	100	X580
Frankiales	Nakamurellaceae	Nakamurella	Nakamurella_X	>EF018802.1.1366	99.75	X184
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>AM945502.1.895	98.83	X381
Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas	Rhodopseudomonas_X	>HM312932.1.1308	99.75	X722
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>JN868224.1.867	89.58	X393
Propionibacteriales	Nocardioidaceae	Marmoricola	Marmoricola_sp._MIM116	>AB686494.1.1250	100	X181
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>JN855503.1.1003	100	X244
Gaiellales	Gaiellaceae	Gaiella	Gaiella_X	>AB659067.1.836	100	X167
Rhizobiales	A0839	A0839_X	A0839_XX	>AB196032.1.561	100	X233
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>EF589981.1.1374	96.53	X213
Subgroup_17_X	Subgroup_17_XX	Subgroup_17_XXX	Subgroup_17_XXXX	>JF432892.1.1034	100	X361
Clostridiales	Family_XII	Guggenheimella	Guggenheimella_X	>KC606680.1.787	99.75	X329
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>LK024952.1.667	99.06	X698
Solibacterales	Solibacteraceae_(Subgroup_3)	C_Solibacter	Acidobacteria_bacterium_SCGC_AAA204−D14	>JF488162.1.740	99.5	X311
Parcubacteria_XX	Parcubacteria_XXX	Parcubacteria_XXXX	Parcubacteria_XXXXX	>LK025639.1.623	99.76	X280
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>EF019076.1.1385	98.12	X487
Sphingobacteriales	Lentimicrobiaceae	Lentimicrobiaceae_X	Lentimicrobiaceae_XX	>JF733664.1.870	99.53	X219
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>AB660450.1.836	99	X354
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC606918.1.776	98.76	X175
Methylococcales	Crenotrichaceae	Crenothrix	Crenothrix_X	>EU124843.1.925	100	X524
Frankiales	Nakamurellaceae	Nakamurella	Nakamurella_X	>HQ899507.1.952	99.51	X281
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>FN548071.1.637	100	X196
Propionibacteriales	Nocardioidaceae	Nocardioides	Nocardioides_X	>AB206015.1.568	100	X335
Solirubrobacterales	Elev−16S−1332	Elev−16S−1332_X	Elev−16S−1332_XX	>GQ425912.1.1047	98.59	X264
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>FM956597.1.932	98.59	X314
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>AY922044.1.1353	100	X517
Parcubacteria_XX	Parcubacteria_XXX	Parcubacteria_XXXX	Parcubacteria_XXXXX	>AB672277.1.1429	98.26	X403
Sphingobacteriales	Chitinophagaceae	Ferruginibacter	Ferruginibacter_X	>EU499702.1.1409	100	X558
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>LN570377.1.1323	99.75	X486
Subgroup_6_X	Subgroup_6_XX	Subgroup_6_XXX	Subgroup_6_XXXX	>GQ366413.1.1064	99.77	X417
Clostridiales	Clostridiaceae_1	Clostridium_sensu_stricto_12	Clostridium_sensu_stricto_12_X	>HG324550.1.850	99.75	X182
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>AY102320.1.1308	100	X319
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>AY917513.1.780	96.03	X220
Micromonosporales	Micromonosporaceae	Actinoplanes	Actinoplanes_X	>AM158398.1.893	100	X275
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>FQ659552.1.1416	98.03	X483
Planctomycetales	Planctomycetaceae	Planctomycetaceae_X	Planctomycetaceae_XX	>EU135226.1.1299	97.14	X284
Holophagales	Holophagaceae	Geothrix	Geothrix_X	>GQ390237.1.1464	99.77	X308
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>EF465081.1.850	99.53	X389
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>JX564295.1.905	97.54	X509
OPB41_X	OPB41_XX	OPB41_XXX	OPB41_XXXX	>AM746257.1.829	99.77	X529
Rhizobiales	Xanthobacteraceae	Pseudolabrys	Pseudolabrys_X	>AB630411.1.1412	100	X152
Solibacterales	Solibacteraceae_(Subgroup_3)	Paludibaculum	Paludibaculum_X	>AY647413.1.726	100	X397
Tepidisphaerales	Tepidisphaeraceae	Tepidisphaeraceae_X	Tepidisphaeraceae_XX	>JN795620.1.762	97.76	X256
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>GQ487882.1.849	100	X278
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC606918.1.776	99.26	X404
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>HQ664226.1.750	99.53	X983
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>AB630437.1.1406	100	X297
Burkholderiales	Alcaligenaceae	Alcaligenaceae_X	Alcaligenaceae_XX	>AJ863276.1.1047	100	X223
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>FJ946608.1.1290	99.05	X366
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>JF703332.1.1426	100	X463
Methylococcales	Methylococcales_X	Methylococcales_XX	Methylococcales_XXX	>AM409902.1.902	97.89	X485
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>FR732107.1.852	99.25	X139
Cytophagales	Cytophagaceae	Chryseolinea	Chryseolinea_X	>JF703557.1.1428	100	X388
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>GQ421097.1.1066	99.06	X145
Blastocatellales	Blastocatellaceae_(Subgroup_4)	RB41	RB41_X	>FJ849538.1.1484	99.53	X821
Syntrophobacterales	Syntrophaceae	Syntrophaceae_X	Syntrophaceae_XX	>DQ642334.1.952	99.53	X402
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>FQ658747.1.1316	98.51	X368
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>EF516339.1.1420	99.5	X238
Rhizobiales	Xanthobacteraceae	Pseudolabrys	Pseudolabrys_X	>JF295951.1.881	99.5	X214
Oligoflexales	0319−6G20	0319−6G20_X	0319−6G20_XX	>KM154265.1.615	96.73	X1207
Burkholderiales	Comamonadaceae	Comamonadaceae_X	Comamonadaceae_XX	>EU150282.1.1492	99.53	X571
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>AB660787.1.880	100	X459
TK10_X	TK10_XX	TK10_XXX	TK10_XXXX	>AB205862.1.564	98.51	X207
Bacteroidales	Porphyromonadaceae	Paludibacter	Paludibacter_X	>GU471806.1.578	99.29	X658
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>JX564295.1.905	98.03	X316
MB−A2−108_X	MB−A2−108_XX	MB−A2−108_XXX	MB−A2−108_XXXX	>EF220535.1.846	100	X243
Coriobacteriales	Coriobacteriaceae	Coriobacteriaceae_X	Coriobacteriaceae_XX	>FN824875.1.1267	98.76	X358
Burkholderiales	Comamonadaceae	Variovorax	Variovorax_sp._SRS16	>AY621157.1.1512	100	X334
Ignavibacteriales	PHOS−HE36	PHOS−HE36_X	PHOS−HE36_XX	>KC605828.1.794	99.53	X839
Myxococcales	Haliangiaceae	Haliangium	Haliangium_X	>EU299673.1.810	99.77	X391
S−BQ2−57_soil_group_X	S−BQ2−57_soil_group_XX	S−BQ2−57_soil_group_XXX	S−BQ2−57_soil_group_XXXX	>JN672055.1.1305	100	X237
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>HM269966.1.1321	100	X650
Ignavibacteriales	BSV26	BSV26_X	BSV26_XX	>KC922471.1.775	98.33	X324
Anaerolineales	Anaerolineaceae	Leptolinea	Leptolinea_X	>EF460002.1.891	93.8	X245
Subgroup_7	Subgroup_7_X	Subgroup_7_XX	Subgroup_7_XXX	>EF663641.1.877	100	X198
Xanthomonadales	Xanthomonadales_Incertae_Sedis	Xanthomonadales_Incertae_Sedis_X	Xanthomonadales_Incertae_Sedis_XX	>LN571359.1.1369	98.13	X383
Thiotrichales	Thiotrichaceae	Thiotrichaceae_X	Thiotrichaceae_XX	>JQ793333.1.681	99.53	X405
Gaiellales	Gaiellales_X	Gaiellales_XX	Gaiellales_XXX	>AB656990.1.902	98.83	X241
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>JQ379775.1.763	100	X315
Dehalococcoidales	Dehalococcoidaceae	Dehalogenimonas	Dehalogenimonas_X	>EF667708.1.885	100	X221
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>AB630854.1.1444	100	X135
Desulfobacterales	Desulfobulbaceae	Desulfobulbaceae_X	Desulfobulbaceae_XX	>GQ420946.1.1080	99.53	X527
Myxococcales	Haliangiaceae	Haliangium	Haliangium_X	>EF662754.1.818	98.6	X468
Planctomycetales	Planctomycetaceae	Pirellula	Pirellula_X	>JX948506.1.844	100	X273
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>EF073875.1.782	99.53	X212
Chlamydiales	Parachlamydiaceae	C_Protochlamydia	C_Protochlamydia_X	>AB518086.1.587	92.72	X301
Gaiellales	Gaiellales_X	Gaiellales_XX	Gaiellales_XXX	>GQ425880.1.1043	99.53	X242
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC606888.1.778	99.26	X380
Campylobacterales	Helicobacteraceae	Sulfuricurvum	Sulfuricurvum_X	>AM181817.1.894	100	X741
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>HM069087.1.1508	99.77	X313
Planctomycetales	Planctomycetaceae	Pir4_lineage	Pir4_lineage_X	>FN594691.1.1482	99.76	X379
Rhodospirillales	Rhodospirillaceae	Rhodospirillaceae_X	Rhodospirillaceae_XX	>KM139685.1.562	94.03	X522
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>KC922842.1.728	99.53	X274
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>EU861862.1.1524	100	X216
Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium	Hyphomicrobium_X	>HM921151.1.1276	100	X656
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>JQ373576.1.792	100	X596
Saccharibacteria_XX	Saccharibacteria_XXX	Saccharibacteria_XXXX	Saccharibacteria_XXXXX	>AF145815.1.1484	94.04	X254
Opitutales	Opitutaceae	Alterococcus	Alterococcus_X	>FJ801187.1.1525	97.89	X488
Anaerolineales	Anaerolineaceae	Leptolinea	Leptolinea_X	>KC607104.1.769	92.06	X236
Myxococcales	Haliangiaceae	Haliangium	Haliangium_X	>EF664306.1.824	99.77	X733
Cytophagales	Cytophagaceae	Chryseolinea	Chryseolinea_X	>FJ568533.1.604	99.29	X303
Solirubrobacterales	TM146	TM146_X	TM146_XX	>KC605643.1.796	100	X149
Rhizobiales	Xanthobacteraceae	Pseudolabrys	Pseudolabrys_X	>FJ807446.1.839	100	X343
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>EF664309.1.832	100	X510
Corynebacteriales	Nocardiaceae	Rhodococcus	Rhodococcus_sp._2216.25.15	>AB094463.1.1434	99.75	X386
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>GU127816.1.1486	99.3	X356
Sphingobacteriales	Chitinophagaceae	Terrimonas	Terrimonas_X	>FJ592636.1.1398	99.05	X432
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>FJ615932.1.764	99.75	X289
Planctomycetales	Planctomycetaceae	Planctomycetaceae_X	Planctomycetaceae_XX	>JQ376910.1.778	99.76	X294
Micromonosporales	Micromonosporaceae	Dactylosporangium	Dactylosporangium_maewongense	>AB495209.1.1468	100	X292
Myxococcales	Haliangiaceae	Haliangium	Haliangium_X	>EF664306.1.824	99.77	X299
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>EF460089.1.912	98.58	X797
Corynebacteriales	Mycobacteriaceae	Mycobacterium	Mycobacterium_X	>EF516107.1.1437	100	X282
Flavobacteriales	Flavobacteriaceae	Flavobacterium	Flavobacterium_saccharophilum	>AB473208.1.1439	100	X430
Saccharibacteria_XX	Saccharibacteria_XXX	Saccharibacteria_XXXX	Saccharibacteria_XXXXX	>FJ568620.1.654	99	X607
Saccharibacteria_XX	Saccharibacteria_XXX	Saccharibacteria_XXXX	Saccharibacteria_XXXXX	>JN634215.1.910	96.77	X1454
Parcubacteria_XX	Parcubacteria_XXX	Parcubacteria_XXXX	Parcubacteria_XXXXX	>KC607326.1.746	99.27	X1028
Myxococcales	Haliangiaceae	Haliangium	Haliangium_X	>AB658953.1.905	99.07	X484
OPB35_soil_group_X	OPB35_soil_group_XX	OPB35_soil_group_XXX	OPB35_soil_group_XXXX	>JX981686.1.1060	99.77	X413
SBR2076_X	SBR2076_XX	SBR2076_XXX	SBR2076_XXXX	>JX079283.1.801	94.29	X225
MSBL3_X	MSBL3_XX	MSBL3_XXX	MSBL3_XXXX	>JN447786.1.1465	92.97	X746
Sphingobacteriales	Chitinophagaceae	Chitinophagaceae_X	Chitinophagaceae_XX	>EF020181.1.1389	99.29	X569
Burkholderiales	Comamonadaceae	Ramlibacter	Ramlibacter_X	>AB487384.1.1371	100	X317
Rickettsiales	Mitochondria	Anomodon_rugelii	Anomodon_rugelii_X	>JF973314.31281.33002	100	X489
Rhodobacterales	Rhodobacteraceae	Rhodobacteraceae_X	Rhodobacteraceae_XX	>AB529676.1.709	100	X505
Myxococcales	Haliangiaceae	Haliangium	Haliangium_X	>EF515931.1.1464	99.06	X773
Clostridiales	Christensenellaceae	Christensenellaceae_R−7_group	Christensenellaceae_R−7_group_X	>KF803011.1.800	100	X304
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>KF973876.1.592	100	X555
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC607214.1.764	98.26	X1077
Micrococcales	Demequinaceae	Demequina	Demequina_X	>EF034863.1.828	99.75	X235
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>EF034317.1.810	100	X611
Gaiellales	Gaiellales_X	Gaiellales_XX	Gaiellales_XXX	>AB659064.1.899	100	X143
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>GU983338.1.1354	99.75	X364
Clostridiales	Caldicoprobacteraceae	Caldicoprobacter	Caldicoprobacter_X	>EF034782.1.825	100	X550
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>GQ366439.1.1029	99.25	X211
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>GU202318.1.1167	99.75	X257
Propionibacteriales	Propionibacteriaceae	Propionibacteriaceae_X	Propionibacteriaceae_XX	>JX405969.1.894	98.53	X270
Chromatiales	Chromatiaceae	Thiobaca	Thiobaca_X	>HM128102.1.1453	96.96	X1705
SBR2076_X	SBR2076_XX	SBR2076_XXX	SBR2076_XXXX	>KJ465959.1.1356	90.57	X260
Raphanus_sativus_(radish)	Raphanus_sativus_(radish)_X	Raphanus_sativus_(radish)_XX	Raphanus_sativus_(radish)_XXX	>AC255230.106080.107549	100	X394
Fibrobacterales	Fibrobacteraceae	Fibrobacteraceae_X	Fibrobacteraceae_XX	>EF075320.1.792	98.81	X1086
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC606918.1.776	95.29	X464
Spirochaetales	Spirochaetaceae	Spirochaeta_2	Spirochaeta_2_X	>AB659117.1.868	96.02	X764
Desulfuromonadales	Geobacteraceae	Geobacter	Geobacter_X	>AB658885.1.890	100	X639
Acidimicrobiales	Acidimicrobiales_X	Acidimicrobiales_XX	Acidimicrobiales_XXX	>GQ397046.1.1478	100	X192
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>EF589981.1.1374	97.02	X369
Solibacterales	Solibacteraceae_(Subgroup_3)	Bryobacter	Bryobacter_X	>AB657937.1.853	100	X286
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC606918.1.776	100	X240
Solibacterales	Solibacteraceae_(Subgroup_3)	C_Solibacter	C_Solibacter_X	>AB300097.1.1295	99.75	X673
OPB35_soil_group_X	OPB35_soil_group_XX	OPB35_soil_group_XXX	OPB35_soil_group_XXXX	>JX491602.1.589	99.77	X456
Sphingobacteriales	Lentimicrobiaceae	Lentimicrobiaceae_X	Lentimicrobiaceae_XX	>AB240492.1.1486	99.53	X623
Methylococcales	Crenotrichaceae	Crenothrix	Crenothrix_X	>GQ421019.1.1067	99.53	X1069
Rhizobiales	Rhizobiales_X	Rhizobiales_XX	Rhizobiales_XXX	>AB630426.1.1409	100	X179
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>KC606918.1.776	99.26	X295
SAR11_clade	Surface_1	Surface_1_X	Surface_1_XX	>FR684008.1.1435	99.75	X298
WCHB1−32_X	WCHB1−32_XX	WCHB1−32_XXX	WCHB1−32_XXXX	>EU644161.1.1400	99.29	X330
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>FJ645708.1.1377	92.54	X557
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>JX859921.1.1080	99.05	X287
S−BQ2−57_soil_group_X	S−BQ2−57_soil_group_XX	S−BQ2−57_soil_group_XXX	S−BQ2−57_soil_group_XXXX	>HE861309.1.929	98.36	X283
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>GQ366439.1.1029	99.25	X594
Rhizobiales	Hyphomicrobiaceae	Rhodomicrobium	Rhodomicrobium_X	>AB630711.1.1406	100	X348
Clostridiales	Christensenellaceae	Christensenellaceae_R−7_group	Christensenellaceae_R−7_group_X	>FJ810722.1.781	100	X506
Parcubacteria_XX	Parcubacteria_XXX	Parcubacteria_XXXX	Parcubacteria_XXXXX	>JF301012.1.583	96.81	X1173
Solirubrobacterales	Elev−16S−1332	Elev−16S−1332_X	Elev−16S−1332_XX	>GQ420860.1.1077	99.53	X259
Xanthomonadales	Xanthomonadales_Incertae_Sedis	Acidibacter	Acidibacter_X	>JQ371754.1.794	99.77	X734
S−BQ2−57_soil_group_X	S−BQ2−57_soil_group_XX	S−BQ2−57_soil_group_XXX	S−BQ2−57_soil_group_XXXX	>JN002848.1.1027	97.42	X651
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>FQ659410.1.1319	99.5	X340
Planctomycetales	Planctomycetaceae	Planctomycetaceae_X	Planctomycetaceae_XX	>HE614843.1.845	95.99	X544
Anaerolineales	Anaerolineaceae	Anaerolinea	Anaerolinea_X	>GQ182779.1.1356	93.05	X465
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>KM170044.1.600	99.5	X378
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>DQ110032.1.898	95.29	X694
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>AB252927.1.1503	100	X545
Propionibacteriales	Nocardioidaceae	Nocardioides	Nocardioides_X	>KM130505.1.581	99.52	X705
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>EF460089.1.912	98.82	X450
Parcubacteria_XX	Parcubacteria_XXX	Parcubacteria_XXXX	Parcubacteria_XXXXX	>JQ380380.1.759	98.04	X1760
Subgroup_10	ABS−19	ABS−19_X	ABS−19_XX	>GQ420896.1.1080	100	X539
Methylococcales	Crenotrichaceae	Crenothrix	Crenothrix_X	>JQ793373.1.628	99.77	X736
JG30−KF−CM45	JG30−KF−CM45_X	JG30−KF−CM45_XX	JG30−KF−CM45_XXX	>EF018623.1.1351	99.75	X186
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>EF507991.1.779	95.04	X209
Rhizobiales	Xanthobacteraceae	Variibacter	Variibacter_X	>AJ534617.1.1232	99.5	X250
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>EF219815.1.838	100	X581
Hydrogenophilales	Hydrogenophilaceae	Thiobacillus	Thiobacillus_X	>EF667637.1.916	95.55	X426
Burkholderiales	Comamonadaceae	Rhizobacter	Rhizobacter_X	>AB989863.1.1453	100	X852
Cellvibrionales	Porticoccaceae	C1−B045	C1−B045_X	>JN051298.1.878	100	X772
Gemmatimonadales	Gemmatimonadaceae	Gemmatimonadaceae_X	Gemmatimonadaceae_XX	>HM445332.1.1473	99.26	X429
Planctomycetales	Planctomycetaceae	Pir4_lineage	Pir4_lineage_X	>AB630875.1.1457	100	X305
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>FM201023.1.887	100	X598
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>CU921875.1.1356	100	X443
Sphingobacteriales	Sphingobacteriales_X	Sphingobacteriales_XX	Sphingobacteriales_XXX	>HE861044.1.948	99.05	X585
C_Azambacteria_X	C_Azambacteria_XX	C_Azambacteria_XXX	C_Azambacteria_XXXX	>HM486201.1.870	98.77	X3034
Gemmatimonadales	Gemmatimonadaceae	Gemmatimonas	Gemmatimonas_X	>JN976793.1.897	98.09	X480
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>AB657626.1.886	100	X444
Chthoniobacterales	DA101_soil_group	DA101_soil_group_X	DA101_soil_group_XX	>JF833587.1.1463	99.3	X884
SJA−15_X	SJA−15_XX	SJA−15_XXX	SJA−15_XXXX	>EF393252.1.886	98.26	X288
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>KF366547.1.1037	98.26	X272
Anaerolineales	Anaerolineaceae	Anaerolineaceae_X	Anaerolineaceae_XX	>EF589981.1.1374	97.52	X255
Anaerolineales	Anaerolineaceae	Bellilinea	Bellilinea_X	>KR476592.1.767	94.04	X341
Rhizobiales	Bradyrhizobiaceae	Bradyrhizobiaceae_X	Bradyrhizobiaceae_XX	>HE860789.1.895	99.75	X231
Micrococcales	Intrasporangiaceae	Tetrasphaera	Tetrasphaera_X	>GQ369174.1.661	99.75	X738
Selenomonadales	Veillonellaceae	Veillonellaceae_X	Veillonellaceae_XX	>AB999362.1.881	99.06	X855
Rhizobiales	Rhizobiales_Incertae_Sedis	Rhizomicrobium	Rhizomicrobium_X	>AY921822.1.1339	100	X371
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>JQ371631.1.795	99.29	X495
Myxococcales	BIrii41	BIrii41_X	BIrii41_XX	>GQ096763.1.1363	95.07	X1453
Micrococcales	Cellulomonadaceae	Actinotalea	Actinotalea_X	>DQ628959.1.1442	99.75	X590
Rhizobiales	JG34−KF−361	JG34−KF−361_X	JG34−KF−361_XX	>EU298324.1.802	100	X447
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>JX981697.1.1043	99.05	X449
Clostridiales	Eubacteriaceae	Acetobacterium	Acetobacterium_X	>HE860825.1.932	99.26	X344
Chromatiales	Chromatiaceae	Chromatiaceae_X	Chromatiaceae_XX	>HQ003530.1.1492	96.49	X1424
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>GQ366523.1.1061	100	X861
Saccharibacteria_XX	Saccharibacteria_XXX	Saccharibacteria_XXXX	Saccharibacteria_XXXXX	>AY571850.1.1398	97.27	X637
Bdellovibrionales	Bacteriovoracaceae	Peredibacter	Bdellovibrio_sp._SD2GS	>GQ179642.1.813	94.16	X1052
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>HE860893.1.934	99.77	X178
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>KP724747.1.1053	97.62	X729
Solirubrobacterales	Elev−16S−1332	Elev−16S−1332_X	Elev−16S−1332_XX	>HQ197609.1.830	99.06	X351
Subgroup_6_X	Subgroup_6_XX	Subgroup_6_XXX	Subgroup_6_XXXX	>EU298888.1.834	99.53	X732
C_Azambacteria_X	C_Azambacteria_XX	C_Azambacteria_XXX	C_Azambacteria_XXXX	>EF072692.1.875	94.33	X661
Methylococcales	Methylococcaceae	Methylobacter	Methylobacter_X	>EU124841.1.928	99.77	X657
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>HG324731.1.590	98.36	X532
Tepidisphaerales	Tepidisphaeraceae	Tepidisphaeraceae_X	Tepidisphaeraceae_XX	>EF665263.1.813	99.5	X312
Xanthomonadales	Xanthomonadales_Incertae_Sedis	Steroidobacter	Steroidobacter_X	>AM158345.1.915	99.3	X791
Blastocatellales	Blastocatellaceae_(Subgroup_4)	RB41	RB41_X	>EF664930.1.821	99.76	X1019
Clostridiales	Peptostreptococcaceae	Peptoclostridium	Peptoclostridium_X	>AB330612.1.687	100	X1013
Nitrosomonadales	Nitrosomonadaceae	Nitrosomonadaceae_X	Nitrosomonadaceae_XX	>DQ450770.1.1367	99.77	X477
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>EF516172.1.1475	100	X1029
Cytophagales	Cytophagaceae	Cytophagaceae_X	Cytophagaceae_XX	>KC922986.1.700	99.05	X415
Sphingobacteriales	Sphingobacteriales_X	Sphingobacteriales_XX	Sphingobacteriales_XXX	>JF341433.1.790	100	X600
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>FR871629.1.928	96.56	X939
Chlamydiales	Simkaniaceae	Simkaniaceae_X	Simkaniaceae_XX	>DQ903988.1.1373	97.89	X460
Micrococcales	Intrasporangiaceae	Oryzihumus	Oryzihumus_X	>EU978745.1.1103	99.76	X385
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>JX564295.1.905	97.3	X744
Clostridiales	Caldicoprobacteraceae	Caldicoprobacter	Caldicoprobacter_X	>EF034782.1.825	99.51	X564
Caldilineales	Caldilineaceae	Caldilineaceae_X	Caldilineaceae_XX	>CU921400.1.1327	98.26	X353
MB−A2−108_X	MB−A2−108_XX	MB−A2−108_XXX	MB−A2−108_XXXX	>HQ664389.1.752	100	X452
Bacteroidales	Prolixibacteraceae	BSV13	BSV13_X	>FQ659581.1.1347	99.53	X438
Frankiales	Frankiales_X	Frankiales_XX	Frankiales_XXX	>JX171950.1.809	98.28	X291
Bacillales	Planococcaceae	Sporosarcina	Sporosarcina_psychrophila	>AB680853.1.1477	100	X360
Opitutales	Opitutaceae	Opitutus	Opitutus_X	>EF516121.1.1449	99.77	X787
Corynebacteriales	Mycobacteriaceae	Mycobacterium	Mycobacterium_X	>AM934740.1.1337	100	X977
Kineosporiales	Kineosporiaceae	Kineosporia	Kineosporia_X	>FN548028.1.637	99.51	X1070
Anaerolineales	Anaerolineaceae	Leptolinea	Leptolinea_X	>KC607104.1.769	93.55	X473
KD4−96_X	KD4−96_XX	KD4−96_XXX	KD4−96_XXXX	>JX859933.1.1080	100	X634
Bacteroidetes_vadinHA17_X	Bacteroidetes_vadinHA17_XX	Bacteroidetes_vadinHA17_XXX	Bacteroidetes_vadinHA17_XXXX	>KF973906.1.688	99.53	X420
C_Nomurabacteria_X	C_Nomurabacteria_XX	C_Nomurabacteria_XXX	C_Nomurabacteria_XXXX	>FJ482182.1.1476	96.81	X938
Coriobacteriales	Coriobacteriaceae	Coriobacteriaceae_X	Coriobacteriaceae_XX	>FN824875.1.1267	99.5	X362
Rhizobiales	Rhizobiales_Incertae_Sedis	Bauldia	Bauldia_X	>EF665038.1.791	99	X572
Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium	Bradyrhizobium_X	>JF139745.1.1310	100	X437
Clostridiales	Peptococcaceae	Desulfosporosinus	Desulfosporosinus_X	>EF034375.1.826	100	X234