1352.2	3712.3	3846.0	4519.4	5155.1	4346.0	5185.3	4380.7	3255.2	2471.0	4170.7
680.5	3521.6	4417.5	5700.1	8105.3	4644.4	4636.9	5380.5	2451.5	741.2	2421.5
1046.9	3640.4	4304.0	5148.9	6375.3	4508.1	4608.7	5217.6	2998.8	3000.1	2589.6
1094.3	3451.5	4144.5	4535.2	7153.2	5031.1	3321.4	4480.0	1276.6	902.1	1788.1
684.1	3908.7	4581.0	4966.3	7503.6	4738.5	4568.1	4534.2	2292.3	944.2	4554.4
778.1	4751.3	5047.5	4963.8	7430.7	5563.6	5124.2	5618.8	3257.0	2016.8	4637.2
21044.3	9980.1	8558.8	10479.2	12645.4	9995.5	10714.7	9939.4	11006.3	9780.6	14393.4
6260.8	7265.4	7250.7	7543.6	8937.9	7444.4	8301.1	7275.1	9440.0	9214.6	8394.6
1892.7	1683.9	1634.5	1370.2	1351.6	1479.2	1311.7	1377.1	1155.8	3411.2	920.3
5072.1	7118.8	7651.5	8218.6	10079.9	8521.7	10616.7	8401.1	7295.9	7287.7	7956.9
611.8	3269.7	4448.4	4361.8	6317.9	4887.7	4087.3	4601.1	3451.0	4508.7	3170.3
830.3	2585.8	3336.4	2453.1	3717.2	3928.6	3657.1	3131.5	976.7	1066.1	1588.4
330.1	2342.0	2820.8	3259.0	4449.9	3060.6	2129.1	3021.4	2453.2	1982.4	2565.3
1170.0	2091.6	2286.2	3097.7	3612.2	1688.1	1807.8	3851.3	2381.2	1456.8	1391.1
99.9	673.8	765.7	664.9	987.1	846.2	748.7	1370.8	439.1	479.6	621.5
665.6	6122.9	5938.1	6061.4	4741.5	6427.2	4873.6	6044.7	6908.5	8430.6	4588.0
2191.1	8087.0	7546.8	7383.9	7103.1	7597.2	6875.4	7761.1	8494.8	7324.5	5154.1
9687.5	5912.7	4451.3	7008.7	7178.4	5714.5	7923.1	5642.9	4929.3	5518.5	6795.1
4205.9	3535.3	3559.0	3746.0	6348.5	4062.9	3057.3	4697.5	2085.2	1150.8	3462.5
5857.0	6570.2	7217.4	7382.6	9790.5	9481.0	7765.6	7667.9	4717.5	4844.1	5666.8
7784.3	7447.0	6071.5	5468.3	6404.8	6390.3	7140.6	6562.7	6446.2	4980.9	6131.7
149.6	3739.1	4385.6	4357.4	6794.2	5854.3	3155.8	4423.4	2767.4	6093.2	2146.4
161.5	3086.5	3687.7	3922.2	7521.1	5452.0	3001.0	4825.2	2123.8	1434.6	1599.1
978.9	2115.1	2306.5	3110.4	3326.1	2085.5	3377.6	3179.0	1549.1	775.2	1849.0
21516.1	10544.4	9758.6	11056.2	11470.3	10043.7	11735.6	10535.2	13894.9	9934.7	12503.1
11159.5	9239.4	8757.4	9330.7	11826.4	10510.9	9857.8	9178.4	8014.0	10049.4	7153.2
3751.6	6366.5	5954.6	5218.7	6600.2	6301.1	7522.2	4951.4	5692.7	6021.8	3219.3
1366.1	4859.6	4814.5	4417.3	3854.4	3991.4	3728.3	5305.5	6181.9	3290.1	3131.8
3489.0	5324.1	5385.7	4913.3	8395.2	7158.1	5225.4	4496.9	2733.2	1716.9	3827.7
5257.0	4264.0	5055.3	5581.1	8394.0	7147.7	5254.2	5619.1	2553.3	2472.7	3512.1
26397.3	11905.2	10671.4	10321.6	10679.0	10783.1	11863.7	9663.0	12674.0	11663.8	13452.6
516.9	6341.3	5974.6	5026.1	4467.9	5817.0	5292.0	4586.5	5126.2	4864.2	5191.0
22055.5	11487.1	10220.1	8910.8	9890.6	10196.5	10728.8	8874.5	9779.8	10969.6	6596.9
4685.0	5789.8	6207.4	6831.2	12327.9	7914.5	5394.5	7761.8	3179.5	5038.7	4103.4
3646.4	4565.5	4135.2	4646.2	3952.2	4433.7	4841.0	4041.6	4100.8	2076.5	4078.2
2246.2	3722.9	3456.2	4143.7	3319.4	4185.1	4096.6	3601.6	3076.5	4005.0	3246.0
6301.7	7868.2	7459.9	9090.8	7358.3	9140.6	8701.0	8925.3	8337.6	11646.2	6878.8
1943.1	2965.8	2999.0	3190.3	3589.0	3451.8	3534.0	4202.9	2923.7	1727.9	2301.9
1566.9	3191.7	2890.2	3677.6	4026.5	3937.6	3092.3	3578.4	3442.2	3947.2	2423.4
42.1	16.2	28.5	27.1	17.9	62.2	16.9	14.8	22.5	23.3	26.6
1096.4	2921.7	3259.3	3587.0	4349.1	3081.3	3150.1	4140.3	3393.7	4524.0	3877.3

4460.2	4968.5	4611.0
4076.9	5311.1	5068.2
4180.4	4585.7	4294.3
3881.2	4226.3	4998.6
3937.2	4524.4	4594.5
3693.6	4301.7	5086.2
9266.1	10165.0	9817.0
6475.5	8545.2	6891.0
1296.9	1719.0	1149.9
8388.5	8789.6	8247.4
3729.8	4846.8	4240.7
3022.1	2413.7	3702.2
2709.6	2862.4	2551.1
2635.7	3088.6	3099.8
717.9	1051.5	495.2
5614.8	6597.7	5080.4
7649.5	6277.0	6173.8
5401.4	6246.6	6214.0
3500.6	3314.9	4154.9
6761.3	6735.1	8061.2
6245.0	6550.0	5884.1
4499.6	4739.9	4051.6
4066.0	3496.6	5360.8
2415.0	3218.4	3174.9
9964.6	10726.1	9202.7
9541.1	9049.0	9510.3
5002.2	4863.0	5168.0
4220.0	5593.0	3654.2
3795.6	3981.8	5080.3
4435.9	5640.5	5416.9
9940.6	9080.7	9383.0
4604.6	5057.3	4384.2
10103.0	7904.7	8747.0
4913.7	5590.7	6626.3
3331.2	4131.6	3908.1
3509.2	3576.6	3363.5
10083.4	9134.5	7028.9
4229.8	3850.0	3910.7
3483.7	3566.0	3263.0
17.8	19.2	19.9
3468.9	4447.4	2717.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Methylococcales	f__Piscirickettsiaceae
o__Oceanospirillales	f__125ds10
o__Oceanospirillales	f__125ds10
o__Oceanospirillales	f__125ds10
o__Oceanospirillales	f__125ds10
o__Oceanospirillales	f__125ds10
o__Oceanospirillales	f__211ds20
o__Oceanospirillales	f__211ds20

g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__Thiomicrospira
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	3338
s__unclassified	3339
s__unclassified	3350
s__unclassified	3414
s__unclassified	3471
s__unclassified	3498
s__unclassified	3501
s__unclassified	3523
s__unclassified	3548
s__unclassified	3606
s__unclassified	3611
s__unclassified	3620
s__unclassified	3621
s__unclassified	3626
s__unclassified	3645
s__unclassified	3730
s__unclassified	3744
s__unclassified	3762
s__unclassified	3775
s__unclassified	3790
s__unclassified	3812
s__unclassified	3835
s__unclassified	3873
s__unclassified	3889
s__unclassified	3930
s__unclassified	3963
s__unclassified	3971
s__unclassified	4003
s__unclassified	4054
s__unclassified	4069
s__unclassified	4080
s__unclassified	4107
s__unclassified	4108
s__unclassified	3690
s__unclassified	2113
s__unclassified	2116
s__unclassified	349
s__unclassified	527
s__unclassified	777
s__unclassified	1504
s__unclassified	1812

NR_029135.1 gg_id:555362 Hydrogenovibrio marinus str. MH-110; JCM7688 NR_02
AF013978.1 gg_id:7695 Thiomicrospira kuenenii str. JB-A1 AF013
EU196336.1 gg_id:252812 Thiomicrospira sp. NP20 EU196
FJ791897.1 gg_id:557561 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7918
AJ294334.1 gg_id:75896 Thiomicrospira crunogena HY-62 AJ2943
DQ513094.1 gg_id:161678 Microbial life fluids ridge flank crustal fluid clone FS274-19B-03 DQ513
AY922201.1 gg_id:112990 whalefall clone 131635 AY922
FJ792061.1 gg_id:532975 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7920
AJ237758.1 gg_id:7698 Thiomicrospira sp. str. Milos-T2 AJ2377
DQ390450.1 gg_id:152006 Thiovibrio halophilus str. HL 5 DQ390
EF644790.1 gg_id:296669 genes and citrate lyase deep-sea microbial MAR Logatchev hydrothermal vent syster EF6447
AF013975.1 gg_id:7696 Thiomicrospira chilensis str. Ch-1 AF013
FJ792110.1 gg_id:564352 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7921
EU999014.1 gg_id:320018 Predominance Methanolobus and Methanoculleus spp. Archaeal Saline Gas Field Foı EU999
AB176166.1 gg_id:187293 Microbial Hydrothermal System Suiyo Seamount on Izu-Ogasawara Arc vent area wa AB176
FJ792063.1 gg_id:551499 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7920
FJ791999.1 gg_id:532862 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7919
DQ270630.1 gg_id:142939 hydrothermal carbonate chimney clone LC1446B-39 DQ270
FJ792260.1 gg_id:512284 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7922
FJ791896.1 gg_id:570053 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7918
EF687189.1 gg_id:286578 Biogeochemistry iron- and sulfur-precipitating microbial mats (Nile Mediterranean) ir EF6871
DQ513107.1 gg_id:160820 Microbial life fluids ridge flank crustal fluid clone FS275-74B-03 DQ513
AY575776.1 gg_id:106343 Thiomicrospira sp. str. AD03 AY5757
AM888291.1 gg_id:254539 Thiomicrospira sp. str. NV40C1 AM888
FJ792466.1 gg_id:539354 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7924
FJ792299.1 gg_id:511672 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7922
AF513949.1 gg_id:62496 Piscirickettsia group clone LA7-B48N AF513
FJ792295.1 gg_id:508761 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7922
DQ270607.1 gg_id:142087 hydrothermal carbonate chimney clone LC1408B-58 DQ270
AF069959.1 gg_id:7689 Thiomicrospira crunogena str. MA-3; ATCC700270 AF069
AF082327.1 gg_id:7682 Thiomicrospira sp. str. Milos T-1 AF082
FJ791989.1 gg_id:511184 Unexpectedly archaeal species shift between rare and dominant over thousand year FJ7919
AY575777.1 gg_id:106505 Thiomicrospira sp. str. AD07 AY5757
AF016046.1 gg_id:7702 Thiomicrospira thyasirae str. DSM 5322 AF016
EU050820.1 gg_id:245893 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_07_77 EU050
EU104341.1 gg_id:340969 Evidence Comamonadaceae determinants settling performance activated sludge clo EU104
EU104176.1 gg_id:311244 Evidence Comamonadaceae determinants settling performance activated sludge clo EU104
CU466829.1 gg_id:344621 Evry wastewater treatment plant anoxic basin clone CU466
DQ463205.1 gg_id:157299 Acid Drainage Tong Lushan Copper Mine China acid mine drainage clone tls3-10 DQ463
AY493942.1 gg_id:136796 Fingerprinting aggregates soil clone 105 AY493
EU134703.1 gg_id:243013 tallgrass prarie soil clone FFCH6306 EU134

7954.2	3902.2	4148.5	4271.3	4192.6	4098.3	4362.7	4303.6	4335.8	3928.2	3814.9
2218.8	3785.3	4637.7	4814.9	4251.6	3719.8	4009.9	3774.1	3954.6	4149.7	4932.6
69.4	326.0	522.6	638.8	516.2	669.1	211.6	599.8	767.0	1275.6	319.8
3067.8	5024.9	4794.6	6892.7	9506.2	5333.0	6092.5	7440.5	6109.1	3544.2	5152.7
2684.1	2795.9	2961.8	2736.5	3238.0	3101.0	3288.7	2908.3	2779.6	1485.7	2179.7
12759.0	9426.9	8553.1	10105.2	11299.4	10597.2	9547.1	11098.6	12535.2	13314.0	12040.2
272.3	1814.4	1961.9	1668.1	2086.3	1696.8	2276.8	2542.1	1441.1	754.8	1580.6
4447.4	5207.7	4049.5	4327.0	5278.0	4416.6	4236.8	3871.5	4357.9	5399.7	3361.2
581.1	3059.0	3531.4	3600.1	3076.5	3440.3	4212.3	3668.2	3982.6	3921.2	2216.7
443.1	1795.9	1674.5	1823.3	1670.2	1484.6	1560.1	1896.8	1366.4	1940.6	1365.5
127.3	3549.3	3526.8	3733.5	2547.1	4659.6	1965.2	3643.7	3293.5	4872.6	1969.7
49.5	137.2	224.3	227.3	307.1	264.4	757.6	285.2	252.6	78.6	76.1
6548.3	3208.3	3459.3	3266.5	3093.4	3553.9	3359.9	3067.8	4887.2	4809.7	4280.3
918.7	2411.0	2940.8	3059.9	3703.6	2965.8	3674.2	3650.8	3228.5	2566.4	2576.0
3843.2	4389.1	4818.7	5299.1	3874.6	4684.9	4146.8	4787.0	4959.7	3190.8	5887.3
7371.5	7460.5	7429.1	8295.3	6302.2	8287.2	5999.1	7063.0	9011.9	8531.9	8425.0
1674.4	2804.8	2289.2	2775.7	2332.3	2793.5	2258.3	2587.8	3244.0	3717.5	2414.0
1215.4	4121.4	5336.7	5320.9	7578.5	5180.6	7212.4	5362.7	4302.2	4750.8	4248.3
4444.7	6069.4	7956.6	8628.5	9355.4	8005.6	8446.5	7803.9	10296.9	12244.8	9317.1
22853.7	12608.4	11836.5	12928.5	15009.2	12455.8	13736.5	11906.5	17691.6	19439.3	15784.9
2455.3	4609.1	4542.7	4826.8	5016.4	5153.1	3889.4	5099.0	4289.6	4381.4	4117.5
5412.4	3466.2	4098.3	4841.4	3931.0	4794.0	3642.0	4776.7	4355.2	8024.2	4399.8
6179.5	1865.4	2486.4	2544.4	2759.7	3058.7	3303.7	3104.0	2091.0	1974.0	931.5
679.7	1272.8	998.5	1060.5	895.5	1127.9	739.9	1283.9	821.2	601.0	836.4
2880.2	3140.6	4316.3	4811.9	5595.3	4019.4	4484.8	4582.5	5313.3	4678.6	4349.9
785.1	1556.9	1584.1	1217.6	1159.0	1415.3	1646.7	1113.5	1057.1	1831.9	973.5
128.0	854.0	943.1	990.7	842.0	634.8	1035.1	665.1	410.8	468.3	268.2
408.8	2929.7	2349.1	3014.3	2518.4	3250.3	2399.9	2874.8	3416.5	1992.4	2641.4
361.4	2627.3	2498.3	2907.4	2693.8	2662.8	2905.8	2877.3	2481.7	1494.5	1928.0
3029.7	4475.3	4047.6	5241.2	6250.2	5733.2	4095.8	5166.4	5202.9	6501.4	3727.1
1114.6	1984.1	1928.2	2453.8	1399.4	1717.8	1630.1	1606.6	1552.9	1415.6	2082.4
3572.7	5219.3	4378.1	4308.2	4200.0	4289.8	3746.8	4175.5	6205.8	4470.4	4735.7
22002.9	6286.1	7089.6	6737.3	5946.2	8122.6	6817.3	6936.9	8780.6	8481.1	10400.1
1668.1	2654.4	2745.8	2713.8	4024.4	4005.7	3059.1	3777.0	1616.5	3658.1	1444.4
195.7	3381.1	2539.2	2784.4	3005.8	3253.3	3188.0	2843.5	1593.8	1212.8	1951.3
2437.0	7759.2	7279.7	7619.2	9216.1	7832.0	8921.0	8582.8	7215.5	7275.7	6628.0
2381.0	5818.7	5899.4	6734.0	7731.7	5734.5	6362.1	7290.5	5647.3	5369.6	5655.4
46.9	1149.7	1114.9	999.7	5865.0	2241.5	6797.5	1652.1	1710.4	891.8	582.2
1566.4	5408.4	4682.5	5290.2	8602.7	5662.7	8920.3	5615.2	3107.4	1953.0	2852.3
43.1	575.3	868.6	1004.7	1021.0	654.2	725.4	1163.4	303.6	318.1	427.7
49.5	394.7	1026.0	1111.0	425.4	1092.2	150.2	1683.6	527.2	45.4	316.3

4002.0	5686.4	5421.6
4672.1	3899.7	2491.5
672.6	721.1	248.4
6938.7	8146.5	5988.5
2382.7	2333.6	3531.4
10134.1	10636.3	8637.2
2088.2	2271.1	1738.7
3850.1	4647.4	4629.7
3671.1	4295.6	2603.8
1863.8	1986.9	1752.6
3022.5	3583.1	2326.4
112.7	219.0	206.9
2980.8	3786.7	2269.1
3260.6	4110.6	2627.5
4315.5	5190.7	4405.8
7657.8	8153.6	5556.4
2395.6	3235.0	1862.8
5214.8	6523.6	6893.8
7233.9	9221.6	7421.8
12127.6	12743.6	12150.0
5224.2	5567.0	3654.4
5228.1	5255.2	3741.5
4291.2	3250.5	2652.2
1194.2	993.2	1256.4
4450.9	5143.8	4210.1
934.1	1767.3	1152.5
667.5	564.3	465.5
2597.3	2423.0	1468.2
2661.4	2967.0	1967.3
5286.1	5161.8	4569.2
1529.6	1803.1	1987.7
3985.6	4769.9	3251.1
6552.6	6510.6	6962.8
3133.3	3126.3	4706.9
2979.7	2986.9	3869.9
8714.0	7823.6	7285.6
7386.4	7002.0	6246.6
2099.6	2394.7	2407.2
6560.8	5005.3	5198.0
1026.4	643.3	917.9
1418.9	355.5	1756.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__211ds20
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae

g__unclassified
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Alcanivorax
g__Kangiella
g__Kangiella
g__Kangiella
g__Kangiella
g__Kangiella
g__Kangiella
g__Kangiella
g__Kangiella
g__Kangiella
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	1940
s__Alcanivorax borkumensis	1817
s__Alcanivorax dieselolei	1053
s__Alcanivorax dieselolei	1653
s__Alcanivorax dieselolei	306
s__Alcanivorax dieselolei	498
s__Alcanivorax dieselolei	53
s__Alcanivorax venustensis	2265
s__Alcanivorax venustensis	2286
s__Alcanivorax venustensis	913
s__unclassified	107
s__unclassified	1262
s__unclassified	1447
s__unclassified	1474
s__unclassified	1594
s__unclassified	1601
s__unclassified	1634
s__unclassified	1745
s__unclassified	1781
s__unclassified	1915
s__unclassified	2012
s__unclassified	2163
s__unclassified	585
s__unclassified	592
s__unclassified	719
s__Kangiella koreensis	3791
s__Kangiella koreensis	3892
s__Kangiella koreensis	4020
s__unclassified	3741
s__unclassified	3809
s__unclassified	3860
s__unclassified	3864
s__unclassified	3988
s__unclassified	4011
s__unclassified	1108
s__unclassified	1287
s__unclassified	1663
s__unclassified	1767
s__unclassified	1910
s__unclassified	444
s__unclassified	454

EF173354.1 gg_id:187488 Options situ remediation contaminated mixture chlorinated hydrocarbons hydrocarb EF1733
EU647558.1 gg_id:285678 Alcanivorax sp. str. PA2 EU6475
GQ153648.1 gg_id:581006 Alcanivorax dieselolei str. ANT-2400 S12 GQ153
EF647617.1 gg_id:270691 Alcanivorax dieselolei P40 EF6476
AB176073.1 gg_id:195877 Microbial Hydrothermal System Suiyo Seamount on Izu-Ogasawara Arc vent area wa AB1760
GU183681.1 gg_id:593585 Alcanivorax dieselolei str. H1673 GU183
DQ270698.1 gg_id:143401 Alcanivorax sp. B-3025 DQ270
DQ768648.1 gg_id:255548 Alcanivorax venustensis MARC4C DQ768
AJ244731.1 gg_id:73634 Smegmaraptor porcuscaenosi str. V4.BO.19 = MM_2368 AJ2447
GQ153640.1 gg_id:587714 Alcanivorax sp. str. ANT-2400 S4 GQ153
EU621895.1 gg_id:278807 Alcanivorax sp. str. LY2 EU6218
GQ153644.1 gg_id:589864 Alcanivorax dieselolei str. ANT-2400 S8 GQ153
GQ153643.1 gg_id:541649 Alcanivorax dieselolei str. ANT-2400 S7 GQ153
DQ234131.2 gg_id:144283 determined library mangrove clone DS047 DQ234
EU799249.1 gg_id:329506 It's all ranking aquatic Newport Harbour RI clone 1C226826 EU7992
EF583624.1 gg_id:275378 Alcanivorax indicus str. B114 EF5836
EF648146.1 gg_id:244272 dynamics during produced water treatment aerobic activated sludge clone XJ93 EF6481
AY686709.1 gg_id:105070 Uruburuia balearica str. MACL04 AY6867
FM242351.1 gg_id:325493 sequences sediment clone 52 T9d+oil FM242
FM242291.1 gg_id:314738 sequences sediment clone 12 T9d-oil FM242
AB176167.1 gg_id:187343 Microbial Hydrothermal System Suiyo Seamount on Izu-Ogasawara Arc vent area wa AB1761
FM242201.1 gg_id:320352 sequences sediment clone 123 T0h-oil FM242
GQ009749.1 gg_id:499916 Topographical and Temporal Human Skin Microbiome skin plantar heel clone nbw77 GQ009
EU440954.1 gg_id:345659 Alcanivorax sp. str. 2PR511-6 EU4409
AB053125.1 gg_id:32122 Alcanivorax sp. str. I4 AB0531
EU369139.1 gg_id:340580 libraries oyster shell clone MBIOS-23 EU3691
NR_027574.1 gg_id:560452 Kangiella koreensis str. SW-125; DSM 16069 NR_027
EU328013.1 gg_id:279401 dynamics during bioremediation crude oil contaminated moderate saline soil clone B EU3280
AY542567.1 gg_id:114206 Gulf Mexico seafloor sediment clone GoM GB425 02B-35 AY5425
AF382097.1 gg_id:79413 bacterioplankton clone ZA2202c AF3820
FJ905711.1 gg_id:551031 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F45b FJ9057
EF687362.1 gg_id:280438 Biogeochemistry iron- and sulfur-precipitating microbial mats (Nile Mediterranean) s EF6873
AY162089.1 gg_id:136096 Cultivating Sargasso Sea clone GMD38D11 AY1620
EU290714.1 gg_id:249481 microbial structure biogeochemical contrasting shelf sediments Namibian upwelling EU2907
FM242204.1 gg_id:313320 sequences sediment clone 317 T0h-oil FM242
EU652570.1 gg_id:278394 Seasonal variation microbial Yel Sea sediment clone B8S-19 EU6525
EU287139.1 gg_id:241890 Pacific arctic surface sediment clone P13-46 EU2871
EU050815.1 gg_id:240357 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_06_26 EU0508
FM242475.1 gg_id:321501 sequences sediment clone 29 T12d+oil FM242
EU037349.2 gg_id:259038 structure landfill sediments receiving long-term augmentations wastes chromium co EU0373
EU735618.1 gg_id:346955 archaeal structures and pristine soils China oil contaminated soil Jidong Oilfield clone EU7356

52.8	636.0	1117.2	1122.8	325.9	667.3	744.1	1694.9	441.6	456.7	432.5
249.0	2682.3	3636.0	3237.9	2893.7	3030.4	3521.8	3616.7	2321.3	2091.8	2957.4
2554.6	3898.5	3963.7	4336.5	4150.8	4212.6	4637.9	4735.8	3440.2	2843.5	3217.0
631.9	1746.7	1957.5	2766.3	1742.4	2551.0	1008.9	1720.4	1284.9	2360.8	1003.0
1657.2	4383.8	4544.2	4691.2	4784.6	5217.4	4109.7	5144.8	3733.9	3732.3	4217.6
2325.4	4298.4	4419.0	4752.3	4958.2	4697.1	5064.6	5131.9	3765.4	2938.0	4244.6
583.8	3331.5	3147.4	3408.3	3457.9	3350.0	3271.7	3666.8	3154.4	2548.5	3759.8
9356.2	4896.6	5583.4	7289.9	6058.6	5183.4	6186.5	6191.6	6595.3	3770.7	4790.9
136.1	2770.3	3613.2	4025.8	3966.8	3674.6	3966.9	4218.0	4697.7	804.1	2776.2
1140.0	4819.9	5606.9	6097.8	6029.6	5733.6	6250.5	6630.5	6498.5	6961.6	4991.7
601.2	2324.9	2427.2	2939.5	2407.8	2682.8	2137.7	3820.4	1286.6	4825.0	1375.8
2261.2	4235.7	4761.9	5078.8	3237.5	3791.1	5280.5	4068.4	4230.4	4227.2	4471.0
2366.6	3062.5	3124.5	3527.8	3292.4	3344.6	4196.6	3966.9	2840.9	2354.8	2341.9
5911.1	1380.3	1353.3	1486.3	2249.7	1588.0	1962.9	1566.6	1022.8	366.6	1011.1
983.1	2244.1	2249.1	2326.3	2438.0	2845.8	2910.6	3669.8	1873.6	4648.3	3053.2
596.7	3222.1	3562.6	3535.2	3258.7	3803.6	3608.1	4137.8	3911.7	3581.7	2508.8
13719.8	6766.9	7245.0	7129.6	7642.3	7440.5	7176.3	9231.9	7730.8	6383.3	6607.8
1842.6	3425.5	4048.6	4310.5	3345.9	4015.2	5081.9	4488.6	3331.6	3540.0	2624.4
9288.9	5886.9	4992.6	5893.6	6305.7	5157.2	6190.9	5997.4	5281.9	2518.2	4403.5
4654.4	6251.8	6390.3	7111.6	6993.8	7116.8	6419.6	8197.4	6245.0	4096.5	5399.0
1534.8	4138.0	4278.5	4916.0	4550.1	4833.2	4271.2	4727.4	3476.4	3000.7	3712.0
5929.4	4573.2	3902.8	5219.3	4460.4	4575.2	4689.7	5333.3	7277.2	4719.4	4421.3
221.7	2288.9	3153.1	2823.5	3813.3	2939.4	5131.0	2817.6	1869.9	1593.4	1434.4
3074.9	3485.2	3779.9	4139.0	4135.2	4300.0	3078.1	4630.7	4327.5	4799.8	4165.7
112.0	309.1	470.4	306.1	373.3	525.2	132.9	481.4	236.1	544.2	255.5
3800.9	5710.2	6300.9	5935.3	6862.8	5823.0	6928.9	7201.4	6782.8	3282.8	6316.8
1449.8	3221.5	2925.8	2285.1	3376.4	3159.5	4314.1	2739.7	2356.0	1213.4	1571.6
5865.1	4833.5	4888.3	4454.3	4568.7	4443.3	5125.7	4559.7	6775.5	3875.8	4487.7
3921.4	3702.3	3467.8	3560.5	4443.3	4014.2	4378.6	5005.7	3155.8	1940.7	2750.0
46.8	25.1	16.1	20.9	34.2	84.1	26.5	14.6	36.4	67.1	44.9
1267.0	2985.4	2818.1	2842.5	2509.2	3598.4	2616.6	3672.0	3619.8	4521.5	2488.9
521.4	3046.8	3063.4	3348.3	2878.7	3239.3	2732.2	5624.2	2572.1	2679.0	4487.3
16707.5	4716.7	4172.8	4414.4	4880.5	4006.3	4364.7	4948.0	7443.7	7106.4	6901.1
3180.3	9132.5	9173.2	9433.8	10535.7	9884.4	10758.5	9687.5	11924.2	11997.1	9825.3
2218.5	3961.8	4374.3	5446.4	5599.5	4409.2	5346.9	4512.6	3341.1	2163.9	3514.4
624.2	3560.3	4084.5	4503.7	4396.7	3849.9	4189.3	4122.7	4467.0	5261.6	4179.5
4939.6	5935.3	5955.9	5993.3	6901.0	5720.8	7808.4	6753.5	8170.7	4858.8	6553.0
1483.2	4122.9	4379.9	4339.7	4319.8	4152.6	4420.2	4190.1	4807.9	4239.6	2866.0
1543.4	3145.5	3445.1	3925.5	5421.4	4929.6	6618.7	4952.7	3632.4	3756.5	2259.1
65.8	947.4	1527.7	1183.6	666.6	1207.2	1593.9	1630.0	697.7	126.5	560.9
2961.4	3462.4	3425.4	3088.5	3370.6	3128.5	3394.9	3921.2	2867.4	2537.3	3021.7

1332.2	393.5	377.0
2428.1	2570.2	2536.0
4863.6	5400.5	5190.5
1963.6	2913.3	1388.7
5009.8	5535.2	4838.6
4987.9	5513.9	5422.7
3419.2	4110.9	3712.6
5975.7	7406.1	6411.9
4084.6	5747.5	2645.5
6807.1	7534.3	5040.7
3689.8	2833.5	2156.8
4448.2	6101.1	4835.9
4125.4	4358.6	4436.2
1675.8	2014.3	1733.7
2912.0	3220.3	1970.6
4127.9	4817.4	3238.0
8254.0	8665.0	7786.3
4686.2	6446.6	5531.4
5501.8	6370.3	6892.3
7618.9	7165.2	6694.0
4652.8	5163.6	4881.3
4816.3	5397.1	6538.0
2757.5	2899.7	3281.0
4799.1	5094.0	3684.2
394.5	653.8	573.9
7342.0	6285.2	5784.0
2740.1	2933.0	2335.3
4324.4	5142.5	5010.7
4313.6	4683.5	4079.9
22.0	158.2	24.8
3326.4	4394.2	2476.4
4910.0	3454.4	3040.2
3408.3	5731.1	3646.8
11046.8	11138.5	10394.2
4221.7	5404.3	4385.7
4008.9	5557.9	3893.6
6896.1	7410.0	8403.1
4595.8	5621.1	5199.9
6140.0	5022.0	5509.4
2541.2	745.7	463.5
3834.4	4152.1	3035.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alcanivoracaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae

g__unclassified
g__unclassified
g__unclassified
g__BD2-13
g__BD2-13
g__BD2-13
g__BD2-13
g__BD2-13
g__BD2-13
g__BD2-13
g__Candidatus Endobugula
g__Candidatus Endobugula
g__Candidatus Endobugula
g__Candidatus Endobugula
g__Cellvibrio
g__Cellvibrio
g__Cellvibrio
g__Cellvibrio
g__Cellvibrio
g__Cellvibrio
g__Cellvibrio
g__Cellvibrio
g__Cellvibrio
g__HB2-32-21
g__HB2-32-21
g__HB2-32-21
g__HB2-32-21
g__HB2-32-21
g__HB2-32-21
g__HB2-32-21
g__HB2-32-21
g__HB2-32-21
g__HTCC2207
g__HTCC2207
g__HTCC2207
g__HTCC2207
g__HTCC2207
g__Marinimicrobium
g__Marinimicrobium
g__Marinimicrobium
g__Marinimicrobium

s__unclassified	469
s__unclassified	511
s__unclassified	988
s__unclassified	10
s__unclassified	1180
s__unclassified	2180
s__unclassified	597
s__unclassified	651
s__unclassified	767
s__unclassified	872
s__unclassified	1205
s__unclassified	1232
s__unclassified	204
s__unclassified	850
s__Cellvibrio japonicus	562
s__unclassified	1229
s__unclassified	1364
s__unclassified	2069
s__unclassified	208
s__unclassified	453
s__unclassified	571
s__unclassified	638
s__unclassified	772
s__unclassified	1237
s__unclassified	1984
s__unclassified	2118
s__unclassified	2119
s__unclassified	2252
s__unclassified	5
s__unclassified	525
s__unclassified	568
s__unclassified	695
s__unclassified	1319
s__unclassified	2095
s__unclassified	2221
s__unclassified	402
s__unclassified	599
s__unclassified	1506
s__unclassified	1893
s__unclassified	2075
s__unclassified	2226

AY622252.1 gg_id:103157 subsurface soil clone B-AF45 AY6222
GQ259322.1 gg_id:579351 Microbial activities coastal marine sediments and water column Svalbard surface se GQ259
FM242356.1 gg_id:353945 sequences sediment clone 5 T9d+oil FM242
GU061307.1 gg_id:582472 Evaluation culturing methods cultivate previously Yel Sea intertidal beach seawater GU061
AB015541.1 gg_id:8407 deep-sea sediment clone BD2-13 AB0155
FJ203036.1 gg_id:316869 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2030
FJ202771.1 gg_id:318714 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2027
EU491790.1 gg_id:275246 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU4917
DQ889922.1 gg_id:172811 natural product producing octocoral Erythropodium caribaeorum clone EC52 DQ889
AJ853538.1 gg_id:110075 landfill leachate clone GZKB44 AJ8535
AF006606.2 gg_id:8204 Candidatus Endobugula sertula str. BnSP AF0066
AY532642.1 gg_id:105318 Bugula simplex symbiont AY5326
EU287080.1 gg_id:246890 Pacific arctic surface sediment clone B78-116 EU2870
EU286987.1 gg_id:236857 Pacific arctic surface sediment clone B78-23 EU2869
NC_010995.1 gg_id:350895 Cellvibrio japonicus str. Ueda107 NC_010
DQ824661.1 gg_id:186207 human fecal clone RL185_aaj71c06 DQ824
AJ289164.1 gg_id:30985 Cellvibrio fibrivorans str. R-4079 AJ2891
AF448514.1 gg_id:25527 Cellvibrio fulvus str. NCIMB 8634 AF4485
EF515971.1 gg_id:222753 grassland soil clone FCPS641 EF5159
AJ289161.1 gg_id:52677 Cellvibrio sp. str. R-4001 AJ2891
EU528236.1 gg_id:283599 Seasonal Dynamics Mudflat Mouth Major Kentucky Lake Reservoir Tributary sedime EU5282
AJ493583.1 gg_id:89552 Cellvibrio ostraviensis str. LMG 19434 AJ4935
GQ263640.1 gg_id:576714 Structure Simulated Level Waste Site simulated level waste site clone FW3_27C GQ263
AM935359.1 gg_id:565337 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
AM935949.1 gg_id:537030 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
AB186843.1 gg_id:103183 polychlorinated dioxin dechlorinating microcosm clone TSBX24 AB1868
EF648042.1 gg_id:257504 dynamics during produced water treatment aerobic activated sludge clone HB32 EF6480
EF420207.1 gg_id:213653 Mature fine processing harbour methanogenic oil sands tailings pond clone MLSB_30 EF4202
EU735695.1 gg_id:316525 archaeal structures oil contaminated and soils China pristine soil Jidong Oilfield clone EU7356
FM242423.1 gg_id:331444 sequences sediment clone 66 T12d-oil FM242
AM935832.1 gg_id:535164 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
AM935433.1 gg_id:532686 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
AY033301.1 gg_id:68989 marine bacterioplankton clone MB11B11 AY0333
EU005741.1 gg_id:277139 Major activity inside and outside natural iron-fertilized phytoplankton bloom 3 micro EU0057
EU544831.1 gg_id:267517 free-living particle- aggregate- archaeal and Laptev Sea 1.0-60 um size fraction (susp EU5448
AY697919.1 gg_id:103045 Antarctica clone F4C67 AY6979
GU230303.1 gg_id:585217 Multilevel approach along Rio de la Plata-South Atlantic Ocean coastal water clone A GU230
EU328092.1 gg_id:278620 dynamics during bioremediation crude oil contaminated moderate saline soil clone Y EU3280
AY839870.2 gg_id:109919 Marinobacter sp. str. M18 AY8398
FJ152968.1 gg_id:331146 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX4C FJ1529
EU874388.1 gg_id:321327 Marinimicrobium sp. str. ISL-43 EU8743

353.8	2413.2	2243.4	2202.7	1747.0	2767.7	1766.1	2733.9	1711.9	3013.4	1372.6
4841.2	3926.8	3612.1	4056.6	4257.8	4292.1	4635.2	4968.2	4212.1	4933.7	4516.4
9728.5	5658.3	6514.6	7315.3	6700.8	6142.9	6738.9	7218.4	7380.4	5628.1	7771.3
1930.0	4903.0	5317.4	5307.8	5711.3	5611.7	4224.4	6404.1	6451.6	6846.2	5299.6
47.4	257.8	338.4	397.6	327.1	213.9	311.6	259.7	71.1	76.1	190.6
1050.2	2487.6	3734.2	1445.1	1805.9	2057.5	1839.6	4560.9	2733.1	549.2	2031.1
82.9	2463.3	2834.4	2791.4	3399.4	2458.2	2892.0	4615.5	3181.8	979.2	2115.1
358.4	958.3	1573.6	1241.0	1065.7	1561.3	934.4	2563.6	1062.2	1798.2	832.5
44.8	636.4	889.9	731.6	546.8	1070.3	403.8	1821.1	782.7	60.5	729.9
101.1	972.6	1138.9	1137.6	1027.6	1364.7	882.5	2458.1	1374.7	592.7	862.4
2611.8	6066.7	5861.3	6070.1	6019.0	7595.2	5920.8	7705.4	8272.9	6666.8	5470.4
1006.9	3366.2	3797.6	4175.8	3357.4	3765.2	3049.2	5097.0	3046.4	3858.6	3140.1
162.3	1734.9	1677.4	2178.4	1396.7	1342.5	1956.8	2769.7	2025.1	957.9	1696.9
4913.2	2539.5	2937.5	3371.8	3227.4	2992.8	2802.7	3186.1	3034.6	2807.8	2955.3
230.9	3679.8	4587.7	5263.1	4532.5	4581.5	4429.2	6041.8	6909.8	3159.0	3717.2
59.5	240.2	386.9	383.6	334.7	245.9	381.0	339.5	236.1	173.1	135.4
2225.3	6263.7	7669.7	7654.1	4963.4	7644.6	4557.7	11648.9	9728.7	6284.2	8105.6
1193.0	7946.5	8298.3	8993.0	8597.1	7838.9	7762.5	10990.9	10136.2	4243.8	8213.7
145.3	4124.9	5047.9	5611.2	4640.7	5249.0	4834.0	7856.8	6674.6	2408.5	4031.5
640.0	4617.0	6833.0	6875.0	5687.3	7580.8	4237.5	11645.6	8251.2	3164.5	6453.7
10647.9	7899.8	7502.8	7603.3	8522.0	8590.9	8933.9	9581.2	11006.1	7908.7	7173.5
40.7	2969.6	3407.4	2809.5	1965.4	3381.5	1259.6	7221.9	3723.0	195.4	2424.6
3345.1	5702.9	5933.3	5828.8	6225.7	6618.9	5225.5	7540.4	7003.8	6474.0	5844.0
1506.7	1969.3	2028.8	2322.9	2552.4	2738.5	2386.9	3877.9	2456.7	2273.5	2384.1
1811.7	3920.5	3283.5	3372.9	4058.5	3860.7	4085.5	6704.4	3965.0	2371.9	6313.9
3302.1	2158.6	2850.6	2660.4	2826.6	3218.0	2860.4	4323.1	1105.6	908.5	1741.6
4781.4	4758.7	4820.2	5442.1	5830.4	5434.6	4812.1	5773.7	4296.6	2431.2	4140.2
4483.4	6594.6	5637.0	5838.3	7521.5	6454.1	6793.0	6868.3	6136.3	5640.9	6578.2
7880.5	4409.0	5231.7	4840.0	4505.5	3706.0	5161.3	4471.9	3813.8	2257.0	4203.6
5175.4	6367.1	5817.9	7301.6	7084.1	6724.4	7552.7	8750.2	6884.3	6946.0	7443.3
13552.0	8340.2	7070.9	7459.7	8738.6	8094.5	8273.1	7903.2	10799.3	7606.6	9712.6
16694.3	5720.9	5086.0	5184.4	5248.9	4635.1	4585.0	6259.2	4696.0	6373.8	6395.0
9293.2	5827.5	5850.3	6151.5	5867.2	6047.8	7872.7	6431.4	8354.6	4901.3	7211.3
45.0	733.2	929.4	989.8	1912.7	1125.8	1876.4	1266.4	477.5	1268.0	383.4
3197.9	2731.6	2968.0	3105.9	4136.2	3348.4	3769.1	2320.4	2438.1	3720.6	2480.2
6160.3	4038.7	3787.4	3862.6	3290.3	2789.9	3786.5	4198.2	5448.5	4926.0	6284.1
9309.8	7093.9	6926.2	6950.8	7543.7	7057.5	8987.7	7045.2	7219.4	5378.2	7318.3
733.6	2140.0	2658.1	2902.7	2931.5	3413.3	2759.3	4256.0	2046.8	2440.6	1952.6
644.6	2286.8	2094.2	2298.4	2385.9	2776.3	2308.8	3705.1	1661.5	2017.0	2100.6
2591.7	3759.9	3933.0	4241.4	4223.4	4247.3	4283.6	4618.3	2912.1	2325.2	3078.5
3644.1	3731.6	4550.7	5028.9	4820.1	4625.8	4246.3	6757.5	4957.5	4814.1	3617.8

3094.9	3622.3	3062.1
4311.9	4897.0	4590.3
6588.9	7611.4	5546.2
7037.6	6969.9	4995.1
370.3	289.6	276.6
2280.7	4468.1	2760.9
3457.9	4397.1	2337.6
3311.0	1925.9	1216.3
1396.8	1143.8	362.9
1685.7	2532.8	1806.6
7554.8	6846.3	6702.7
5139.5	4431.7	4518.1
2156.1	2770.6	3253.9
2978.6	3523.1	2176.6
5643.0	5630.3	4069.5
507.1	370.6	226.3
10352.3	8048.3	4357.5
10754.4	8313.6	6773.7
6456.8	5373.5	3389.5
9838.0	8160.5	4371.9
8869.1	8919.3	8419.0
5899.5	1430.4	532.5
6822.4	6745.0	4963.2
3231.5	4387.4	2699.7
4607.3	3441.9	3451.7
3616.9	3708.5	4665.2
5301.9	5669.0	4121.8
6935.5	6922.1	8440.9
3873.2	4968.5	3602.2
7712.1	7073.1	8021.1
8000.2	8402.0	7937.4
5240.1	5893.1	4479.5
7165.7	6909.6	6612.8
1032.8	1017.8	928.1
2592.5	3715.6	2748.6
3654.7	4355.2	3328.6
7032.0	7316.1	8534.8
3693.9	3343.4	2210.6
2864.4	3058.0	2838.7
4336.8	4784.5	5199.4
6677.6	5092.8	3225.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae

g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter

s__Marinobacter bryozoorum	1154
s__Marinobacter bryozoorum	181
s__Marinobacter bryozoorum	405
s__Marinobacter hydrocarbonoclasticus	1280
s__Marinobacter hydrocarbonoclasticus	1684
s__Marinobacter litoralis	1294
s__Marinobacter litoralis	1378
s__Marinobacter mobilis	2229
s__Marinobacter mobilis	390
s__Marinobacter mobilis	549
s__Marinobacter sp. ELB17	2006
s__Marinobacter sp. ELB17	2239
s__Marinobacter sp. ELB17	697
s__Marinobacter taiwanensis	509
s__unclassified	1036
s__unclassified	1125
s__unclassified	1176
s__unclassified	1182
s__unclassified	1299
s__unclassified	1300
s__unclassified	1309
s__unclassified	1325
s__unclassified	1344
s__unclassified	1345
s__unclassified	1348
s__unclassified	1366
s__unclassified	1376
s__unclassified	1381
s__unclassified	1382
s__unclassified	1426
s__unclassified	1436
s__unclassified	1439
s__unclassified	1452
s__unclassified	1454
s__unclassified	1497
s__unclassified	152
s__unclassified	1522
s__unclassified	1537
s__unclassified	1541
s__unclassified	1562
s__unclassified	1611

EU441002.1 gg_id:332510 Marinobacter bryozoorum str. PR53-11 EU441
NR_027192.1 gg_id:541894 Marinobacter bryozoorum str. 50-11; KMM 3840 NR_02
AF238495.1 gg_id:20696 Marinobacter sp AF238
GQ200189.1 gg_id:548606 Marinobacter hydrocarbonoclasticus str. DQHS-3 GQ200
FJ984522.1 gg_id:382828 Marinobacter hydrocarbonoclasticus str. NBSL04 FJ9845
NR_028841.1 gg_id:565301 Marinobacter litoralis str. SW-45; JCM 11547 NR_02
AM945661.1 gg_id:272890 Marinobacter litoralis 2 AM945
GU223376.1 gg_id:533417 Marinobacter sp. str. EM497 GU223
GQ214550.1 gg_id:556839 Marinobacter mobilis str. B17 GQ214
AB435646.1 gg_id:396810 Marinobacter sp. str. 2M46 AB435
DQ677876.1 gg_id:235549 Marinobacter sp. BF04_CF-4 DQ677
DQ530479.1 gg_id:168080 Marinobacter sp. str. gap-e-81 DQ530
DQ521387.1 gg_id:164240 Marinobacter sp. str. ice-oil-325 DQ521
EF368018.1 gg_id:208660 Marinobacter taiwanensis str. 1645 EF368
AB513677.1 gg_id:582394 Marinobacter sp. str. PAD-2 AB513
GU183677.1 gg_id:548886 Marinobacter alkaliphilus str. H1711 GU183
EU603452.1 gg_id:275327 Marinobacter bryozoorum str. PTG4-16 EU603
FJ675262.1 gg_id:517038 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6752
DQ325514.1 gg_id:149482 Marinobacter koreensis str. DD-M3 DQ325
NR_025116.1 gg_id:573563 Marinobacter lutaoensis str. T5054; CCRC 17087; JCM 11179 NR_02
FJ675204.1 gg_id:528351 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6752
FJ675118.1 gg_id:527584 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6751
AY592402.1 gg_id:103215 deep-sea mud volcano clone Amsterdam-2B-44; BC20-2B-44 AY592
GQ131626.2 gg_id:581833 Marinobacter sp. str. YCSA7 GQ131
FJ674834.1 gg_id:518091 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6748
FJ746583.1 gg_id:547174 Marinobacter sp. str. H184B35 FJ7465
EF660754.1 gg_id:240909 Marinobacter goseongensis str. En6 EF6607
AB305311.1 gg_id:234441 Marinobacter sp. str. IW11-2CT AB305
EF667989.1 gg_id:244324 and biogeochemical influences active heterotrophic prokaryotes off Palmer Peninsul EF6679
FJ425903.1 gg_id:590148 Marinobacter zhanjiangensis str. JSM 078120 FJ4259
U14584.1 gg_id:8799 gas vacuolate str. S36-W<gv>1 U1458
AF468259.1 gg_id:80533 Arctic pack ice; northern Fram Strait; 80 31.1 N; 01 deg 59.7 min E clone ARKDMS-57 AF468
EU287196.1 gg_id:246628 Pacific arctic surface sediment clone S11-13 EU287
EU328041.1 gg_id:277828 dynamics during bioremediation crude oil contaminated moderate saline soil clone B EU328
AY180101.1 gg_id:78569 Marinobacter excellens str. KMM 3809 AY180
FJ196021.1 gg_id:351303 Marinobacter sp. str. ZS3-32 FJ1960
DQ015835.1 gg_id:139700 Antarctic lake water clone ELB19-223 DQ015
AM503093.1 gg_id:311877 Marinobacter guineae str. LMG 24048 = M3B AM503
AJ292527.1 gg_id:37115 Marinobacter sp. Trimyema-1 1 AJ2925
AJ439500.1 gg_id:59259 Marinobacter squalenivorans str. 2Asq64 AJ4395
GU223379.1 gg_id:557645 Marinobacter sp. str. EM492 GU223

2665.1	2671.5	2973.1	2877.8	2982.1	3397.9	3617.3	4023.2	2793.4	2789.7	3066.9
1128.8	2782.4	3273.1	3799.9	3717.4	3641.3	4093.1	3750.4	2614.6	1684.1	3040.4
187.2	2398.4	2613.4	2947.4	2188.9	3445.8	1457.7	5178.1	2193.2	4824.9	2075.5
1589.6	1028.5	1308.8	1343.0	1131.0	1795.0	713.0	1637.9	410.8	1896.9	827.5
7661.1	2686.7	1856.9	1676.2	1860.6	1426.1	1857.6	2110.6	2496.8	2128.2	1646.8
757.5	1965.0	1806.7	2272.9	2336.8	2087.0	2474.9	2251.2	1055.8	876.7	1020.0
1831.7	3218.4	3715.7	3862.4	3858.7	3466.5	3476.8	3875.6	2645.3	1441.5	2912.7
2855.7	5169.7	6358.7	7159.8	5661.3	6673.2	4627.8	6699.8	7809.6	7252.3	4807.4
76.3	985.1	1779.3	1154.0	1021.9	1180.5	1179.3	2214.3	1552.5	2151.0	820.0
310.6	2266.0	2941.8	3079.8	2933.7	3659.0	2563.7	3897.0	1884.3	4640.2	1561.6
2717.3	2613.9	2716.0	3335.9	3544.4	4227.3	4356.5	3413.8	2241.2	4921.0	2283.1
159.7	1090.1	1528.4	1643.6	1867.7	2625.0	2203.6	2347.7	1523.1	4548.4	1690.4
16174.8	5193.9	5135.7	6090.4	5084.7	5982.2	6881.3	5241.2	6979.5	9263.3	7240.0
61.5	2008.4	2105.1	2214.4	1500.8	2544.1	1654.9	2687.3	1306.6	1673.4	1344.9
115.4	1240.2	1280.8	1690.4	2179.3	943.3	1690.6	1553.2	1138.7	548.1	676.8
5927.5	3261.1	3053.3	3666.9	3001.1	3593.4	3107.5	4232.5	5073.4	5287.1	4625.0
1559.1	2416.3	2724.3	2732.1	2791.3	3416.6	2826.3	3138.9	2406.7	2038.0	3615.9
809.8	1973.5	2085.3	2478.7	2335.4	2781.1	2111.6	2577.9	1386.3	4446.5	2381.5
192.3	507.2	660.7	722.9	750.5	664.0	523.3	804.7	266.9	303.8	263.4
85.4	2495.6	3567.4	3836.5	2588.2	3837.6	2567.1	4084.4	3055.0	4833.6	2160.9
735.7	1985.4	2195.0	1936.9	1958.0	2369.4	2098.5	2888.0	1862.8	3841.0	2716.9
761.3	2300.3	2622.5	2840.9	2655.0	3710.2	2875.7	3219.1	1166.2	5735.1	2468.9
403.5	1655.1	1992.7	2271.8	2410.7	2686.5	2617.4	2770.5	892.3	3957.8	1687.4
278.1	1421.6	2307.7	2043.7	2569.8	2612.7	2633.6	4842.6	1450.4	1078.7	1769.9
3547.5	4447.7	4238.4	5027.5	4148.8	4699.5	4729.4	4353.8	4689.2	7305.9	4164.4
66.8	1545.2	1467.6	1739.0	1758.4	1609.1	1387.3	1661.1	950.0	1379.7	825.8
410.8	2865.2	3576.9	3968.4	3172.0	3499.6	2183.4	3111.0	2084.3	4029.2	2116.4
1698.4	3149.7	3314.5	3723.9	3732.4	4236.4	3738.3	3322.0	2890.4	3767.6	3623.3
82.3	383.8	514.4	439.3	604.1	574.3	373.9	616.9	240.6	423.7	198.7
103.3	1390.9	1678.5	1759.1	1403.2	1626.7	1158.9	2328.0	2405.1	1509.9	1636.9
184.4	1100.2	1345.7	1507.3	1475.7	2305.3	1544.0	1983.5	981.8	3404.0	834.5
1092.4	2351.2	2520.6	2741.0	2553.3	3331.9	2524.3	3484.9	1527.0	943.4	1490.2
437.0	1955.4	2476.5	2014.1	1896.8	2120.0	1898.5	2662.8	1395.8	2910.4	1468.9
4400.1	4464.9	4900.7	5402.2	5270.8	5248.2	5641.1	5621.1	4597.8	5539.1	5807.6
40.3	2360.3	1761.9	2362.5	1604.1	2811.3	1425.2	2823.8	1930.0	1891.7	1181.1
128.3	1415.1	1559.4	1621.6	1396.6	2354.9	875.2	2311.1	1147.1	2870.8	1417.1
125.9	2542.6	2535.2	3261.7	2573.8	2803.6	2615.9	3035.0	1946.1	2427.8	2711.5
447.0	1756.5	2349.6	2553.4	2930.6	3393.7	2175.9	2823.2	1666.4	6347.5	1541.5
110.8	1622.7	2000.8	2075.7	2670.2	2137.9	2259.9	1972.3	1229.9	2648.4	1144.5
17177.2	4288.2	4916.1	5751.9	4799.2	5639.6	4697.9	5373.7	6229.9	6419.2	5392.8
1604.7	4989.0	4882.9	4933.2	4677.3	6474.7	4571.7	6796.4	4083.5	7551.1	5620.9

3410.6	3823.5	2614.9
3252.9	3617.7	4208.2
3792.9	3263.9	2077.5
1726.5	1420.4	1458.6
1843.6	2075.2	1691.3
2121.6	2389.5	2415.2
3323.7	3818.7	2357.1
6342.6	6032.2	5747.8
1718.8	1840.4	1039.4
3415.6	3400.0	1925.6
3850.0	3899.0	2865.5
2344.5	2509.6	1561.5
5453.7	6698.8	4818.9
2962.7	2581.7	2685.7
1166.5	1735.6	1722.1
3225.5	4174.7	3188.2
2807.7	3592.0	2417.6
2830.3	2656.8	1900.7
798.0	845.2	495.2
4560.5	3681.2	2488.3
2347.8	3170.1	1749.1
3642.4	2977.7	2049.5
2684.6	2705.7	2628.9
3421.5	2358.8	1299.5
4853.0	5639.4	4117.7
1497.5	2922.1	1541.0
3593.8	2825.7	1993.9
3315.9	4123.3	3909.8
460.3	785.5	413.0
1965.9	2322.6	985.6
1960.0	2082.5	1358.7
2859.4	3374.0	3147.6
2276.4	1782.3	2029.3
5449.3	5988.5	4679.9
2909.6	2463.3	2583.3
1888.4	1940.4	1128.2
2945.4	3934.2	2533.8
3416.8	2510.2	2206.8
2404.3	2417.8	2460.9
4599.1	5981.1	5542.3
6218.1	6762.9	5317.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae

g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Marinobacter
g__Microbulbifer
g__Microbulbifer

s__unclassified	1651
s__unclassified	1658
s__unclassified	1704
s__unclassified	1729
s__unclassified	1808
s__unclassified	1824
s__unclassified	194
s__unclassified	1981
s__unclassified	2029
s__unclassified	203
s__unclassified	2052
s__unclassified	2055
s__unclassified	2151
s__unclassified	2176
s__unclassified	2225
s__unclassified	2244
s__unclassified	2295
s__unclassified	263
s__unclassified	32
s__unclassified	44
s__unclassified	449
s__unclassified	468
s__unclassified	478
s__unclassified	484
s__unclassified	536
s__unclassified	539
s__unclassified	547
s__unclassified	551
s__unclassified	57171
s__unclassified	607
s__unclassified	629
s__unclassified	650
s__unclassified	661
s__unclassified	729
s__unclassified	801
s__unclassified	867
s__unclassified	89
s__unclassified	904
s__unclassified	907
s__Microbulbifer agarilyticus	281
s__Microbulbifer elongatus	2005

FJ675168.1 gg_id:513433 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6751
EU328057.1 gg_id:278624 dynamics during bioremediation crude oil contaminated moderate saline soil clone Y EU328
AJ871937.1 gg_id:163334 hydrocarbonoclastic Guanabara Bay Brazil mangrove sediments AJ8719
AB252057.1 gg_id:170550 Brassica napus str. SKA S2 AB252
EU440995.1 gg_id:340108 Marinobacter flavimaris str. 2PR54-4 EU440
EU293413.1 gg_id:242328 Marinobacter sp. str. cn74 EU293
NR_025799.1 gg_id:549391 Marinobacter flavimaris str. SW-145; KCTC 12185 NR_02
AB026946.1 gg_id:8806 Marinobacter sp. str. NK-1 AB026
FJ675374.1 gg_id:528098 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6753
FJ675429.1 gg_id:526155 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6754
NR_025671.1 gg_id:557510 Marinobacter lipolyticus str. SM-19; DSM 15157 NR_02
U85863.1 gg_id:8800 Marinobacter sp. str. IC022 U8586
EF428127.1 gg_id:277000 Marinobacter excellens str. LL406 EF4281
AF237685.1 gg_id:21327 Marinobacter sp AF237
FJ348439.1 gg_id:565377 Investigation microbial soil method saltern 15 cm be surface clone DGGE gel band ntu FJ3484
DQ097521.1 gg_id:129808 Marinobacter giovannonii str. IS17 DQ097
DQ530455.1 gg_id:170366 Marinobacter sp. str. gap-d-2 DQ530
EU718223.1 gg_id:337093 Microbial farmed prawn preservation methods Marinobacter clone HL13 EU718
EF632877.1 gg_id:238588 Unique microbial contrasting aquatic altitude Andean Altiplano (northern Chile) wate EF6328
DQ097526.1 gg_id:131161 Marinobacter koreensis str. KGB22 DQ097
NR_029028.1 gg_id:592275 Marinobacter sediminum str. R65; KMM 3657 NR_02
AY690675.1 gg_id:99388 Marinobacter sp. str. GC101 AY690
FJ973518.1 gg_id:454067 Marinobacter alkaliphilus str. NBSL07 FJ9735
FJ674980.1 gg_id:511539 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6749
AF173969.1 gg_id:21222 Marinobacter aquaeolei str. KT02ds19 AF173
EU440994.1 gg_id:353090 Marinobacter alkaliphilus str. 2PR56-13 EU440
GU223374.1 gg_id:554900 Marinobacter sp. str. EM491 GU223
EU196317.1 gg_id:255215 Marinobacter sp. NP38 EU196
EU907917.1 gg_id:326599 Marinobacter sp. str. SKUK MB1002 EU907
FJ897726.1 gg_id:547256 Marinobacter sp. str. Set74 FJ8977
DQ235263.1 gg_id:144953 Marinobacter vinulentus str. FB1 DQ235
GU370116.1 gg_id:517692 Marinobacter hydrocarbonoclasticus str. P721(1) GU370
AB166970.1 gg_id:104848 Marinobacter sp. str. NT N14 AB166
AJ557854.1 gg_id:84236 Arctic deep sea Isolation common chemoorganotrophic oxygen-respiring polar current AJ5578
EU432582.1 gg_id:262300 Marinobacter sp. str. 10050 EU432
FJ497670.1 gg_id:509005 Marinobacter sp. str. VS-43 FJ4976
AM990796.1 gg_id:278977 Marinobacter sp. MOLA 20 AM990
EU164778.1 gg_id:250476 Marinobacter szutsaonensis str. Halo30-39 EU164
AY771710.1 gg_id:108686 Marinobacter lipolyticus str. S2-44 AY7717
AB304799.1 gg_id:255218 Microbulbifer agarolyticus str. JAMM 0654 AB304
GQ334398.1 gg_id:585495 Microbulbifer maritimus str. RV1 GQ334

12892.0	2718.3	3446.7	3509.6	3768.2	3556.3	3560.1	4926.7	3334.4	6293.5	2977.5
2066.7	4884.4	6102.1	6451.7	5026.4	6373.6	7498.6	6639.7	4025.9	6223.3	5615.9
659.4	748.8	729.0	776.8	779.6	791.8	641.2	1178.3	503.8	693.2	600.2
920.8	1187.1	1330.1	1727.0	1284.2	942.5	1797.8	1483.3	369.7	169.8	526.0
44.9	1070.7	1496.8	1565.4	896.7	1284.7	787.2	1907.2	1335.8	1247.6	947.9
94.3	2320.9	2457.3	2413.2	2104.8	2696.8	2063.7	3134.0	1541.8	2527.6	1046.7
71.7	1076.5	1579.5	1537.5	1081.6	1695.2	769.2	2886.5	1670.6	1696.5	1577.7
9426.0	4620.3	5052.5	5282.7	4834.2	4930.5	4357.7	6465.4	3952.0	5663.7	5544.0
4874.2	2703.2	2807.6	2734.4	2340.5	2849.1	2449.3	2682.4	3668.4	4574.2	2797.4
663.4	3638.2	3109.6	3919.8	3327.8	4368.0	2829.7	4648.6	3347.1	7258.1	3187.9
3612.6	5512.0	5736.9	6145.3	6177.4	7173.4	5285.6	7335.5	4155.3	8315.6	8549.7
1233.2	800.6	832.3	1077.9	1006.9	1374.3	970.7	1244.7	596.0	2318.8	704.9
96.9	1244.2	1626.0	1851.0	987.6	1850.8	1361.9	2230.3	1546.5	4793.4	1042.1
1014.3	1686.5	1830.1	1774.2	1835.9	2665.6	1443.2	2779.1	1493.0	4206.2	1541.2
2623.2	3510.5	3955.5	4045.7	3871.9	3827.0	4075.3	4411.3	4268.3	3722.1	5672.2
253.9	2099.0	2976.1	3253.9	2342.0	3370.6	2008.5	3288.3	2207.7	3808.0	1962.9
179.7	913.0	1487.8	1647.6	1598.9	2420.8	1759.8	2205.5	1516.2	4432.8	1498.5
341.5	3366.5	4192.3	5122.6	3053.5	4042.0	3562.6	5155.7	4218.0	4155.8	3343.8
188.3	2863.1	2464.3	2867.2	2998.8	2994.0	2330.7	3357.6	2553.7	2638.3	2094.1
2778.7	2762.6	2740.4	3053.0	2866.8	3031.9	3294.2	3943.7	2786.1	1235.9	2509.0
624.0	2066.3	2545.0	2743.5	2679.7	2635.9	2372.2	2209.3	1737.1	2089.6	2301.3
329.6	3627.3	3873.5	4654.5	3891.6	4594.2	3121.3	4647.5	3059.3	4756.9	4097.9
1295.6	2559.9	2760.5	3128.2	2632.0	3760.4	1929.2	3825.5	2986.1	6743.5	3217.9
245.0	1529.4	1768.5	2322.7	3211.8	2524.9	2446.1	1729.8	827.8	6576.8	1120.5
620.5	3000.9	3347.3	3354.0	2871.9	3651.7	2802.6	3603.0	2529.0	3825.2	2481.8
1906.5	3151.0	3427.7	3651.8	2957.3	4584.2	1810.7	5070.2	3359.8	8610.4	3662.7
1868.2	4448.1	5073.1	5383.0	5442.0	5161.4	5189.2	5417.7	4251.8	4924.1	4302.7
10491.0	2987.6	3166.7	3233.7	3694.0	3915.2	4207.4	3283.0	3469.1	6462.3	2187.5
14824.5	3009.7	3506.9	3983.0	3736.8	3750.2	3897.4	4094.2	1681.9	1658.4	4127.4
154.0	1921.0	3589.6	1739.5	1478.3	1955.8	1578.5	2151.1	702.9	342.1	2242.0
98.6	1701.9	1676.8	1846.6	786.0	2011.4	884.7	1856.9	994.1	2818.3	1026.0
3043.5	2608.3	3262.1	4015.2	3263.2	1828.2	3815.2	3649.4	3633.7	1328.5	3291.2
61.6	352.9	379.8	521.9	316.6	733.5	180.1	1050.8	379.3	798.3	245.5
647.5	4047.4	4276.5	4480.4	3667.0	4445.1	3645.3	4983.0	3678.8	5224.2	4804.5
191.6	1694.8	1972.4	2065.0	1763.8	2482.1	1664.9	2176.2	1091.0	2248.4	1133.5
65.3	1275.5	1066.4	1257.5	1718.7	1735.0	933.3	1303.4	1013.9	1970.1	908.5
484.5	1881.7	1919.4	1813.3	1898.5	2145.8	1969.4	2628.5	1491.4	1437.4	1337.6
74.9	1102.7	1362.9	1496.9	1252.8	1115.2	1017.1	1198.9	382.4	216.3	464.6
3015.2	2809.1	3416.9	3701.0	3600.6	3958.3	3782.5	3441.3	2136.2	5872.5	2214.7
459.6	3968.1	4460.3	4897.0	4833.2	4666.4	4214.0	6379.1	4708.5	4001.4	3906.9
1535.9	4718.9	5075.3	5697.3	4592.5	5386.1	4025.4	5802.6	4471.8	6021.7	4044.8

4374.1	4382.1	3056.8
6954.3	4947.1	3961.7
1036.9	1668.1	1122.2
1066.8	1571.8	2146.1
1987.0	2170.3	952.5
2341.0	1932.7	1198.0
2351.0	1797.8	768.9
5573.9	5864.0	4395.2
2687.9	3681.3	2382.4
3411.1	5551.4	3706.0
7163.5	6687.5	5207.0
1194.0	1388.3	1229.4
1834.6	1665.3	1149.8
2569.1	2718.5	1502.7
4424.9	3872.7	3935.7
3735.6	3072.7	2588.3
2134.1	2421.9	1467.7
5655.9	4492.2	3496.1
3736.0	3635.3	2915.9
3521.7	4847.6	2941.0
2321.5	2882.4	2746.2
5569.9	4342.8	3369.7
3630.0	3243.9	2408.0
2413.4	2229.8	1921.2
3869.5	4107.5	3213.3
4274.5	3832.2	2983.2
4895.3	5421.4	5691.7
3643.5	4689.1	3284.7
3379.0	3894.6	3197.4
2015.3	2160.2	1276.4
1988.5	2303.3	1816.0
3941.5	3811.5	3528.3
882.8	1191.1	494.2
4895.4	5268.3	3986.0
2459.9	2203.8	1603.6
1373.4	3477.9	789.7
2246.5	2723.9	2388.5
1169.9	1658.3	1510.2
3811.5	4227.8	3627.7
4969.4	6215.7	5239.8
6123.0	5843.0	5172.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae
o__Oceanospirillales	f__Alteromonadaceae

g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__Microbulbifer
g__ND137
g__ND137
g__nsmpVI18
g__nsmpVI18
g__nsmpVI18
g__nsmpVI18
g__nsmpVI18
g__Saccharophagus
g__Simidua
g__Simidua
g__Spongiibacter
g__Spongiibacter
g__Spongiibacter
g__Spongiibacter
g__Spongiibacter
g__Teredinibacter
g__Teredinibacter
g__Teredinibacter
g__Teredinibacter
g__Umboniibacter
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__ZD0117
g__ZD0117
g__ZD0117
g__ZD0117

s__Microbulbifer thermotolerans	1627
s__Microbulbifer variabilis	513
s__unclassified	1001
s__unclassified	1109
s__unclassified	1367
s__unclassified	1418
s__unclassified	1451
s__unclassified	1507
s__unclassified	1518
s__unclassified	1825
s__unclassified	1942
s__unclassified	2114
s__unclassified	330
s__unclassified	2183
s__unclassified	794
s__unclassified	1062
s__unclassified	1210
s__unclassified	295
s__unclassified	474
s__unclassified	932
s__Saccharophagus degradans	1841
s__unclassified	1057
s__unclassified	950
s__unclassified	1347
s__unclassified	1823
s__unclassified	2165
s__unclassified	364
s__unclassified	938
s__Teredinibacter turnerae	2203
s__unclassified	1793
s__unclassified	1975
s__unclassified	312
s__unclassified	2157
s__unclassified	1223
s__unclassified	1468
s__unclassified	353
s__unclassified	476
s__unclassified	1317
s__unclassified	1950
s__unclassified	50
s__unclassified	625

AB304801.1 gg_id:248696 Microbulbifer thermotolerans str. JAMM 1327 AB3048
AB167354.2 gg_id:108039 Pelagiobacter variabilis str. Ni2088 AB1673
AJ510266.1 gg_id:69355 Microbulbifer arenaceous str. RSBr-1 AJ5102
GQ262812.1 gg_id:558634 Microbulbifer sp. str. Y215 GQ262
FJ169190.1 gg_id:338941 microbial and polyketide biosynthetic potential palmerolide-producing tunicate Synoi FJ1691
AB500893.1 gg_id:555088 Microbulbifer sp. str. ABABA 23 AB5008
EF486352.1 gg_id:222510 Microbulbifer celer str. ISL-39 EF4863
DQ340189.1 gg_id:147845 Dominance Mycoplasma guts Long-Jawed Mudsucker Gillichthys mirabilis five Califo DQ340
EF674853.1 gg_id:257184 Microbulbifer halotolerans str. YIM 91118 EF6748
AY224196.1 gg_id:81821 Microbulbifer sp. str. Th/B/38 AY2241
AF479688.1 gg_id:51065 Microbulbifer salipaludis str. SM-1 AF4796
AM180745.1 gg_id:145463 Pseudomonas sp. UC14a AM180
AB500894.1 gg_id:573761 Microbulbifer sp. str. ABABA 212 AB5008
AB052969.1 gg_id:24308 Pseudomonas sp. PE2 AB0529
AY862188.1 gg_id:111195 Microbulbifer sp. str. MY05 AY8621
AB456139.1 gg_id:551285 Microorganisms involved anaerobic phenol degradation treatment synthetic coke-o AB4561
EU491487.1 gg_id:263181 Abundance and microbial life ocean crust seafloor lavas Hawai'i South Point X4 clone EU4914
DQ334644.1 gg_id:194566 Impact metals on sediments heavy metal polluted marine sediment clone HB2-9-21 DQ334
AB456140.1 gg_id:572166 Microorganisms involved anaerobic phenol degradation treatment synthetic coke-o AB4561
EU491452.1 gg_id:259455 Abundance and microbial life ocean crust seafloor lavas Hawai'i South Point X4 clone EU4914
NC_007912.1 gg_id:153124 Saccharophagus degradans str. 2-40 NC_00
GQ872422.1 gg_id:569907 Simiduia sp. str. M2-5 GQ872
EF617350.1 gg_id:234841 Simidua agarivorans str. SA1 EF6173
FJ202639.1 gg_id:341703 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2026
FJ356668.1 gg_id:541691 Intra- Microheterogeneity Multiple Displacement Single-cells Marine Cyanobacteria L FJ3566
EF092194.1 gg_id:269778 Persistent Axinella corrugata clone Ax29_A1 EF0921
FJ203003.1 gg_id:317569 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2030
GU391220.1 gg_id:530532 Spongiibacter sp. str. JYr4 GU391
NR_027564.1 gg_id:565759 Teredinibacter turnerae T7901 str. T7902; ATCC 39867 NR_02
DQ269073.1 gg_id:198202 marine macro-alga surface clone DPC012 DQ269
DQ272313.1 gg_id:141068 Lyrodus pedicellatus symbiont RT18 DQ272
EF061962.1 gg_id:194319 Xiamen China mangrove sediment clone XME54 EF0619
AB467280.1 gg_id:534461 Umboniibacter marinipuniceus str. KMM 3892 AB4672
EU236385.1 gg_id:298139 Haliclona gellius: sponge and symbionts 13 m depth Pacific Ocean clone Hg92A4 EU2363
GQ920839.1 gg_id:550044 Marinimicrobium sp. str. SX15 GQ920
AY845232.1 gg_id:110380 sponge clone 34P38 AY8452
EU050817.1 gg_id:237439 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_05_77 EU0508
AY375151.1 gg_id:96709 deep sea sediment clone D78 AY3751
EU799127.1 gg_id:348578 It's all ranking aquatic Newport Harbour RI clone 1C226690 EU7991
FJ628337.1 gg_id:555614 transition and zone within near-shore basin: brackish water anoxic fjord Nitinat Lake FJ6283
EU286983.1 gg_id:256729 Pacific arctic surface sediment clone B78-19 EU2869

2993.2	3370.0	3639.0	4021.4	4697.1	3672.6	3906.2	4612.1	2474.3	2921.4	6255.9
1776.1	4031.0	3847.0	3733.9	3886.5	4250.5	3559.2	6220.1	3544.3	3705.3	3393.3
592.2	6748.8	7153.8	7126.9	5865.3	7667.5	4695.1	8444.2	6402.9	11059.5	6974.1
506.4	2070.2	2227.3	2073.2	2265.8	2440.3	2327.2	3420.0	1588.2	950.9	1734.2
992.9	3590.4	3513.1	3632.9	4771.1	4177.2	4255.2	5645.0	2573.7	3464.7	2898.3
7456.6	4873.7	5281.5	5283.4	4904.8	5024.5	4964.5	6573.3	4327.3	5459.7	4797.1
94.7	1795.1	2315.3	2086.3	1714.6	2282.0	2016.9	2386.9	1737.2	509.9	945.2
282.3	2328.8	2925.5	3337.2	3769.5	2803.9	2709.0	3318.3	2597.4	3064.2	2202.1
7444.9	4470.7	4333.0	4801.7	5067.7	4630.3	5935.7	6202.1	5017.7	2271.2	4793.8
314.8	2181.8	2415.3	2159.9	2408.6	3544.7	2270.3	3334.3	922.6	2476.8	1774.1
196.0	2460.2	2649.2	2735.5	2747.2	3042.6	1946.2	4042.3	2054.2	1315.9	2201.7
2089.0	4937.3	5401.6	5076.4	4931.4	5902.7	5121.6	6698.9	5467.1	9534.0	4392.6
1060.5	2076.9	2632.2	2718.3	2973.7	2786.4	1910.8	3442.1	1964.9	895.0	2225.4
2833.1	5127.0	4579.1	4541.5	4489.7	5292.1	4964.4	5897.1	7944.5	3602.8	4836.9
4727.6	4570.1	4354.6	4522.4	4334.8	5662.5	3639.7	8274.7	4502.0	3343.2	5077.6
744.8	1887.6	2391.9	2728.5	2843.3	2748.4	2299.4	2438.9	2722.9	5050.5	1972.9
10933.1	9345.3	10030.9	10703.4	10066.4	9510.4	10657.4	10768.9	10326.1	9873.1	12249.0
46.9	364.0	671.3	49.4	267.6	302.8	366.4	516.7	204.8	1032.3	520.2
441.8	1270.8	1385.6	1201.0	1199.5	1150.9	1297.8	1202.5	1303.7	507.7	1212.9
95.4	977.5	1197.2	1035.6	771.5	1225.9	889.8	1219.7	673.5	773.4	390.9
30.0	133.3	187.8	194.4	187.5	158.1	253.8	297.1	83.7	121.0	85.5
3601.4	5867.7	6177.2	6186.3	6655.8	6873.1	5555.7	6532.2	7187.6	4272.3	5218.0
34.4	646.4	727.4	572.6	385.0	443.5	340.9	910.3	355.1	112.4	278.8
132.4	2778.0	2852.5	3014.9	2811.4	3314.8	2847.2	3335.2	1466.9	1523.7	1593.0
594.1	2687.2	3540.7	3290.8	2169.8	2656.5	2555.2	3293.3	1624.3	1428.5	1857.2
138.8	2220.5	2733.4	2771.0	2197.3	2928.7	2100.0	3665.4	1925.3	1651.5	1192.3
27.1	591.1	1090.6	953.2	469.0	492.3	507.2	2431.8	1015.5	118.7	776.1
234.7	1330.6	2043.8	2291.7	1361.0	2032.4	2319.1	2260.5	1572.3	2068.9	1398.2
173.9	2382.0	2947.4	2611.4	2983.5	3434.2	1896.1	4182.8	2380.3	2225.7	2026.7
999.0	1320.9	1770.7	1784.0	2567.2	2078.1	2369.7	2557.8	1241.5	1933.6	1297.5
164.1	2261.4	2858.7	2757.6	1776.8	2636.8	1696.9	3705.9	3282.3	2606.7	2248.2
133.0	1745.7	2048.7	1967.1	1579.3	2125.1	1446.4	2493.2	1297.5	1457.9	1201.3
4136.0	5752.1	5456.6	4301.5	3974.1	5686.0	4204.6	3802.8	7321.9	3781.8	6028.4
4181.0	5187.6	3911.7	3607.2	3264.1	5720.4	2851.1	6032.7	5896.3	2583.7	3018.2
10333.9	7126.8	7160.6	7272.8	6747.0	7777.9	6768.7	8964.1	8802.1	6348.3	8568.3
44.8	127.0	180.6	148.9	311.3	241.6	937.6	230.0	76.0	45.1	81.1
143.3	2467.4	3174.0	3039.4	2628.7	3230.4	2773.1	3965.5	2805.5	3006.0	2411.1
4630.5	4699.5	6512.1	5318.4	4834.5	6100.8	4553.5	6820.9	4294.1	3162.3	6485.1
72.9	226.9	77.1	200.9	130.8	158.8	226.2	360.3	114.2	59.6	178.2
65.6	466.2	527.4	547.5	641.4	663.6	832.7	604.6	186.5	202.0	330.9
5413.9	4558.9	5932.4	5344.6	5226.4	5356.6	4759.7	4784.3	6655.4	5013.7	5573.7

3822.5	3724.2	3846.6
4449.4	4727.5	3386.8
7228.4	7634.1	6129.7
2592.2	3164.3	3292.5
4513.8	4346.3	3894.8
6488.2	6049.9	5118.3
2913.6	2554.5	2675.5
2566.5	3386.8	2751.0
5343.1	5583.1	4669.8
3288.7	3880.4	3350.2
3342.1	3789.8	4019.4
6982.3	5961.3	3983.7
3560.2	2555.7	2913.0
5625.6	4866.7	3838.0
6980.2	5422.3	2730.6
2596.3	3314.2	2969.7
11346.0	10829.0	11104.6
440.9	410.7	150.7
1462.3	1661.3	1107.6
1464.1	1711.9	1183.5
143.1	322.4	517.0
6933.8	6381.0	5552.8
672.9	1328.1	473.7
3463.4	2955.0	3258.9
4667.3	2530.3	1880.7
4973.3	2845.0	3302.1
1326.3	651.5	139.9
2113.3	1958.5	1243.4
3232.0	3518.5	2402.0
2947.0	2929.2	2040.6
3708.4	3927.0	1489.1
2246.5	2295.0	920.7
3596.7	4668.5	2791.0
4480.3	4555.0	3367.7
8726.6	7791.6	7238.0
184.0	125.6	176.3
3873.3	3889.6	2988.4
5812.4	5358.8	4884.0
213.7	228.7	99.7
585.8	666.7	632.1
5092.7	5294.7	4551.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Endozoicimonaceae
o__Oceanospirillales	f__Endozoicimonaceae
o__Oceanospirillales	f__Endozoicimonaceae
o__Oceanospirillales	f__Endozoicimonaceae
o__Oceanospirillales	f__Endozoicimonaceae
o__Oceanospirillales	f__Endozoicimonaceae
o__Oceanospirillales	f__Endozoicimonaceae
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__FCPT525
o__Oceanospirillales	f__Hahellaceae
o__Oceanospirillales	f__Hahellaceae
o__Oceanospirillales	f__Hahellaceae
o__Oceanospirillales	f__Hahellaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae

g__Endozoicimonas
g__Endozoicimonas
g__Endozoicimonas
g__Endozoicimonas
g__Endozoicimonas
g__Endozoicimonas
g__SGUS388
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Hahella
g__Hahella
g__Hahella
g__Zooshikella
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera

s__unclassified	217
s__unclassified	307
s__unclassified	360
s__unclassified	537
s__unclassified	747
s__unclassified	994
s__unclassified	1479
s__unclassified	1142
s__unclassified	3327
s__unclassified	3337
s__unclassified	3411
s__unclassified	3458
s__unclassified	3625
s__unclassified	3723
s__unclassified	3784
s__unclassified	3795
s__unclassified	3802
s__unclassified	3858
s__unclassified	3907
s__unclassified	4073
s__unclassified	4082
s__unclassified	1911
s__unclassified	2132
s__unclassified	992
s__Zooshikella ganghwensis	2098
s__Candidatus Portiera aleyrodidarum	2316
s__Candidatus Portiera aleyrodidarum	2350
s__Candidatus Portiera aleyrodidarum	2484
s__Candidatus Portiera aleyrodidarum	2515
s__Candidatus Portiera aleyrodidarum	2751
s__Candidatus Portiera aleyrodidarum	2754
s__Candidatus Portiera aleyrodidarum	2785
s__Candidatus Portiera aleyrodidarum	2791
s__Candidatus Portiera aleyrodidarum	2797
s__Candidatus Portiera aleyrodidarum	2861
s__Candidatus Portiera aleyrodidarum	2866
s__Candidatus Portiera aleyrodidarum	2979
s__Candidatus Portiera aleyrodidarum	3147
s__Candidatus Portiera aleyrodidarum	3148
s__unclassified	2311
s__unclassified	2322

GU118076.1 gg_id:567768 Threatened Corals Provide Microbial Habitats clone Apal_O13 GU118
FJ347758.1 gg_id:370251 Endozoicomonas sp. str. CL-33 FJ3477
AM259915.1 gg_id:252743 Chondrilla nucula-specific sponge mesohyl clone CN34 AM259
AY700601.1 gg_id:109430 Australia: Great Barrier Reef clone PDA-OTU3 AY7006
AB205011.1 gg_id:113799 Spongiobacter nickelotolerans str. 00P-Ni033-1-1-2 AB2050
AM990755.1 gg_id:277802 Culturable along NW Mediterranean coast Petrosia ficiformis sponge AM990
FJ202634.1 gg_id:354436 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2026
EF516073.1 gg_id:223694 grassland soil clone FCPT525 EF5160
EU464803.1 gg_id:287677 Hartmann's mountain zebra feces clone AFZEB_aaj71b02 EU4648
EU104099.1 gg_id:351662 Evidence Comamonadaceae determinants settling performance activated sludge clo EU1040
EU464733.1 gg_id:301670 Hartmann's mountain zebra feces clone AFZEB_aaj69h03 EU4647
EU464904.1 gg_id:301529 Hartmann's mountain zebra feces clone AFZEB_aaj72h05 EU4649
DQ824554.1 gg_id:183389 human fecal clone RL185_aaj69f03 DQ824
DQ824608.1 gg_id:180882 human fecal clone RL185_aaj70d02 DQ824
EU464879.1 gg_id:298205 Hartmann's mountain zebra feces clone AFZEB_aaj72d02 EU4648
EU104233.1 gg_id:352480 Evidence Comamonadaceae determinants settling performance activated sludge clo EU1042
EU464760.1 gg_id:291795 Hartmann's mountain zebra feces clone AFZEB_aaj70c11 EU4647
DQ824684.1 gg_id:179599 human fecal clone RL185_aaj71f06 DQ824
EU104152.1 gg_id:319880 Evidence Comamonadaceae determinants settling performance activated sludge clo EU1041
DQ824679.1 gg_id:181704 human fecal clone RL185_aaj71e11 DQ824
CU466815.1 gg_id:307591 Evry wastewater treatment plant anoxic basin clone CU4668
AF195410.1 gg_id:24515 Hahella chejuensis str. KCTC 2396 AF1954
EF495227.1 gg_id:217600 Hahella antarctica str. IMCC3113 EF4952
AY676463.1 gg_id:107320 Hahella ganghwensis str. FR1050 AY6764
AY130995.1 gg_id:70229 Zooshikella ganghwensis str. JC2045 AY1309
AF400466.1 gg_id:36328 Primary endosymbiont Bemisia tabaci clone UG23 aleyrodidarum AF4004
Z11928.1 gg_id:8116 symbiont of Trialeurodes vaporariorum (greenhouse whitefly) Z11928
AF400467.1 gg_id:46892 Primary endosymbiont Bemisia tabaci clone UG26 aleyrodidarum AF4004
Z11927.1 gg_id:8122 symbiont of Siphoninus phillyreae (ash whitefly) Z11927
AY266108.1 gg_id:99204 Neomaskellia andropogonis symbiont AY2661
AF286123.1 gg_id:51913 symbiont AF2861
AY266098.1 gg_id:103124 Aleuroparadoxus arctostaphylli symbiont AY2660
AF400469.1 gg_id:54022 Primary endosymbiont Bemisia tabaci clone UG25 AF4004
AY268081.1 gg_id:88180 Bemisia tabaci symbiont AY2680
AY266100.1 gg_id:106952 Aleuroplatus sp. symbiont AY2661
AY266107.1 gg_id:99043 Dialeurodes hongkongensis symbiont AY2661
AY266096.1 gg_id:102829 Aleurodicus dispersus symbiont AY2660
AY266095.1 gg_id:102674 symbiont AY2660
AF400462.1 gg_id:19222 Primary endosymbiont Bemisia tabaci clone MEX4 aleyrodidarum AF4004
DQ396070.1 gg_id:154863 deep-sea octacoral clone ctg_NISA053 DQ396
EU799800.1 gg_id:326262 It's all ranking aquatic Newport Harbour RI clone 1C227454 EU7998

7752.7	5225.2	5272.4	4450.6	3918.5	4253.4	5120.8	4237.8	4813.7	3093.1	4562.9
80.9	403.2	451.2	649.7	371.3	646.1	270.2	1285.4	200.2	344.4	735.0
5241.3	3053.9	3251.6	1841.9	1779.6	3006.4	1390.7	3276.5	3035.1	1498.0	1513.3
46.4	482.0	530.5	397.7	353.7	747.0	229.2	435.7	216.2	470.3	130.2
44.8	617.4	752.6	628.3	642.3	795.5	409.4	894.7	284.8	649.2	304.8
808.9	2850.3	3000.5	3112.2	3268.3	4539.2	4203.8	4816.1	2189.4	3569.8	2872.8
46.8	140.9	164.6	188.0	202.5	238.9	120.9	174.0	80.2	87.3	77.9
54.8	288.5	422.0	424.3	800.4	479.4	552.2	824.4	254.4	44.7	153.2
16178.6	8701.6	8755.2	9592.6	10475.5	8747.8	11129.3	9155.9	10512.8	8103.7	11681.5
4745.5	9123.7	8891.3	8794.6	9428.2	8188.8	10307.0	9103.2	9122.8	10308.6	9311.7
4666.7	4964.0	6816.6	7098.6	7433.9	8827.4	7684.6	6558.9	4415.5	8912.2	8340.6
24499.7	9914.1	10532.7	11639.9	12592.2	9649.5	13591.2	9888.8	10751.4	5921.2	9933.0
12536.8	8488.9	8669.8	9730.3	11061.9	8703.1	11831.1	9878.0	10307.5	9980.1	10266.4
28997.3	10352.4	9826.2	11099.8	12240.8	10100.8	12445.3	11061.6	12020.1	13433.9	14342.0
2335.3	6777.4	7974.0	7013.3	6550.0	6925.6	6605.7	6484.0	5304.2	7061.5	5619.2
4025.5	4359.2	4791.2	5040.9	5961.1	4679.6	5361.0	6058.7	5921.8	3810.2	3897.2
12417.0	10443.2	9938.6	11017.4	10838.7	9336.6	12003.4	10042.4	9805.5	9028.1	9722.4
8470.1	7818.0	9066.3	8478.1	7742.4	7768.4	8038.2	7963.6	9435.4	10576.3	8454.6
6174.0	7143.6	7286.6	8570.5	8363.3	8095.1	8314.1	9426.6	7183.0	10235.0	7798.7
6889.1	5394.7	6093.6	6426.3	8466.2	5862.5	9074.2	6728.2	6373.4	4960.4	6984.7
7540.2	7533.8	7495.5	7897.7	8135.6	6973.4	8508.0	7657.9	7337.6	7196.2	8206.9
51.4	296.0	601.0	537.6	333.4	596.1	345.0	457.6	256.4	915.5	204.3
46.9	119.2	174.8	155.0	201.4	165.8	132.8	216.8	90.1	102.1	76.9
33.6	40.7	68.7	33.6	74.1	52.3	61.0	47.7	24.7	20.9	23.0
44.7	104.9	101.7	105.8	153.8	89.6	174.6	332.3	144.7	40.3	120.9
2671.8	3952.5	3780.7	4224.5	4963.6	4605.8	4402.6	4758.7	3616.1	4156.9	5569.7
4743.8	3993.1	3994.0	4540.6	4976.2	4426.7	4582.3	5165.6	4544.2	4211.6	4389.8
4019.8	4041.8	3591.9	4625.7	3725.1	3844.6	4996.6	4421.7	4974.2	5518.9	3788.3
47.0	105.8	330.8	370.6	504.0	234.9	668.2	346.6	324.1	177.3	273.7
128.8	437.1	565.8	659.0	519.8	596.9	484.1	568.5	152.6	184.3	355.3
1208.7	1555.4	1889.9	2339.2	2514.2	2190.3	2640.8	2534.7	1073.6	1073.2	1471.9
3848.4	2249.3	2568.5	2181.3	2723.0	3449.3	3426.6	3439.5	3357.8	1708.3	2793.3
271.8	730.9	868.0	939.1	872.1	957.0	1225.6	1689.8	709.6	530.6	866.7
150.4	1052.7	931.5	982.8	908.1	1232.3	1374.2	1692.8	1001.0	858.2	1187.9
3595.3	2517.7	2595.8	3022.5	3658.0	2554.2	3834.7	3232.4	1717.3	2312.9	1991.5
50.5	50.7	71.5	77.0	71.8	53.8	71.1	63.8	52.3	30.1	39.8
15973.5	5529.8	6659.1	5917.3	8337.5	7463.4	4966.8	6976.4	7406.8	9627.3	5745.7
7430.6	6694.5	6968.0	7473.8	7455.6	7096.5	7846.7	7625.5	5785.4	5911.8	8077.9
1165.1	3192.3	2180.1	2718.8	2393.5	3043.4	3103.9	3015.3	2984.8	2183.6	5630.9
102.2	810.4	725.7	774.8	751.1	763.3	1163.5	637.4	561.9	344.4	473.4
13035.2	8400.8	7753.9	7940.5	7673.8	8173.7	8770.5	7766.5	8495.7	9241.1	11520.9

5054.3	4363.7	3848.5
741.3	642.5	217.0
3195.6	1465.7	1276.1
669.4	865.5	430.0
594.4	1072.3	473.0
4599.8	4111.5	4565.8
258.9	347.4	175.7
305.5	564.1	352.1
9545.2	11050.6	9876.8
8753.2	8798.2	8296.8
7611.3	6859.5	7942.1
11811.5	11110.1	12053.0
10299.7	11043.9	10055.6
12198.0	13782.4	11520.4
7948.5	6424.8	6849.8
4792.3	5788.4	4063.6
10360.5	9685.2	10007.1
8892.1	11004.4	7806.2
9980.9	9846.6	7558.4
7212.4	7905.5	7400.8
7817.4	8217.9	7608.7
593.1	491.5	197.0
158.0	200.2	129.7
65.1	85.2	44.7
133.0	489.3	114.1
3454.2	5123.7	5224.0
5193.9	5412.8	5409.2
3722.0	4343.1	3072.8
444.7	537.7	787.2
379.1	809.2	690.0
2410.9	3311.6	3805.8
2922.6	3370.3	2761.0
1286.7	1536.0	1778.6
1814.2	1586.3	2130.1
2285.4	3205.1	2676.9
87.9	82.8	82.3
6845.7	8600.7	5609.9
6908.9	8932.4	7807.2
2827.6	3355.9	3126.4
943.3	1162.2	969.2
7311.0	8447.2	5619.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae

g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera

s__unclassified	2324
s__unclassified	2338
s__unclassified	2354
s__unclassified	2363
s__unclassified	2378
s__unclassified	2406
s__unclassified	2503
s__unclassified	2526
s__unclassified	2529
s__unclassified	2541
s__unclassified	2545
s__unclassified	2598
s__unclassified	2625
s__unclassified	2655
s__unclassified	2676
s__unclassified	2704
s__unclassified	2716
s__unclassified	2758
s__unclassified	2826
s__unclassified	2828
s__unclassified	2855
s__unclassified	2867
s__unclassified	2910
s__unclassified	2932
s__unclassified	2946
s__unclassified	2974
s__unclassified	3006
s__unclassified	3017
s__unclassified	3028
s__unclassified	3030
s__unclassified	3039
s__unclassified	3042
s__unclassified	3069
s__unclassified	3079
s__unclassified	3082
s__unclassified	3083
s__unclassified	3091
s__unclassified	3115
s__unclassified	3116
s__unclassified	3121
s__unclassified	3125

EU259803.1 gg_id:240733 summer sea Dalian and Liaodong determined bay water clone D3532 EU259
GU061920.1 gg_id:534100 and function microbial mesoscale eddy perturbations South China Sea clone S-5m-3 GU061
EU805404.1 gg_id:326883 It's all ranking aquatic 250 miles Panama City clone 6C233413 EU805
EF574040.1 gg_id:233586 site S25 near Coco's Island marine clone S25_384 EF574
GU230321.1 gg_id:561326 Multilevel approach along Rio de la Plata-South Atlantic Ocean coastal water clone A GU230
EF573891.1 gg_id:239178 site S25 near Coco's Island marine clone S25_235 EF5738
DQ300590.1 gg_id:145831 microbial ocean's interior amplicon single fosmid library pool 130m depth HOT static DQ300
EF572462.1 gg_id:232188 Coco's Island site 23 marine clone S23_561 EF5724
EU799371.1 gg_id:355943 It's all ranking aquatic Newport Harbour RI clone 1C226958 EU799
FJ826408.1 gg_id:510568 Succession during spring diatom bloom Sea filtered surface sea water contrasting nor FJ8264
AY458632.2 gg_id:101609 marine waters clone EBAC750-02H09 AY458
AY907736.1 gg_id:137300 identification picoplankton contrasting waters Arabian Sea water clone A313002 AY907
EU805263.1 gg_id:313140 It's all ranking aquatic 250 miles Panama City clone 6C233263 EU805
EU237284.1 gg_id:239425 Genes transcripts Eastern and Western Equatorial North Atlantic Ocean microbial as EU237
GQ346911.1 gg_id:593801 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
EU799141.1 gg_id:344498 It's all ranking aquatic Newport Harbour RI clone 1C226706 EU799
EU800939.1 gg_id:313914 It's all ranking aquatic Delaware Bay NJ clone 2C229197 EU800
EU005838.1 gg_id:276035 Major activity inside and outside natural iron-fertilized phytoplankton bloom 3 micro EU005
AY033317.1 gg_id:55020 marine bacterioplankton clone MB12G11 AY033
EF573454.1 gg_id:232533 Coco's Island site 23 marine clone S23_1553 EF5734
GQ347847.1 gg_id:569985 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
GU061821.1 gg_id:542597 and function microbial mesoscale eddy perturbations South China Sea clone CEP-DC GU061
EF574197.1 gg_id:232349 site S25 near Coco's Island marine clone S25_541 EF5741
AY354844.1 gg_id:92279 coastal seawater during phytoplankton bloom clone PLY-P1-108 AY354
GQ349521.1 gg_id:545321 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
GU230325.1 gg_id:591130 Multilevel approach along Rio de la Plata-South Atlantic Ocean coastal water clone A GU230
AF406526.1 gg_id:60646 bacterioplankton clone AEGEAN_234 AF406
EF574293.1 gg_id:233685 site S25 near Coco's Island marine clone S25_637 EF5742
GQ337298.1 gg_id:593315 Hydrography shapes biogeography deep Arctic Ocean water depth 252m clone NB2 GQ337
EU035854.2 gg_id:306650 Insight microbial structure Norwegian deep-water water deep-sea coral reef off Nor EU035
DQ071078.1 gg_id:129984 marine surface water clone PB1.39 DQ071
GU119483.1 gg_id:592804 Threatened Corals Provide Microbial Habitats reef water clone Reef_M13 GU119
DQ009457.1 gg_id:125125 bacterioplankton clone SPOTSMAY03_500m13 DQ009
EU799709.1 gg_id:341723 It's all ranking aquatic Newport Harbour RI clone 1C227344 EU799
EF572084.1 gg_id:227627 Coco's Island site 23 marine clone S23_183 EF572
GU061923.1 gg_id:532750 and function microbial mesoscale eddy perturbations South China Sea clone S-5m-8 GU061
EU804090.1 gg_id:330520 It's all ranking aquatic 250 miles Panama City clone 6C231982 EU804
GQ348088.1 gg_id:572910 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
AF406528.1 gg_id:60645 bacterioplankton clone AEGEAN_146 AF406
DQ009141.1 gg_id:119608 bacterioplankton clone SPOTSAUG01_5m95 DQ009
EU805314.1 gg_id:336262 It's all ranking aquatic 250 miles Panama City clone 6C233317 EU805

17669.4	9932.8	8797.0	8829.8	8006.8	9008.9	9083.3	8568.1	12914.3	10495.3	14381.2
255.8	1559.4	2070.5	1510.6	947.0	1467.2	1238.4	1362.1	1600.6	236.8	3204.5
4697.0	5723.8	5129.3	5567.7	5667.3	5548.7	6368.5	5013.2	5536.7	4086.7	7105.7
1939.2	2641.3	3033.6	4004.3	3636.4	3232.4	5349.7	3804.8	4584.1	2276.4	2730.2
7529.1	4825.2	5043.6	4755.5	4025.3	4202.1	4744.4	4775.3	6850.9	3999.0	6261.9
4530.4	4785.9	4091.3	4466.1	4297.4	3591.6	4586.9	3792.5	5778.9	4159.8	4979.9
17965.6	8373.5	8523.3	9582.0	7844.0	8322.9	8588.1	8329.9	8844.5	9596.2	11574.3
8013.2	3545.8	3117.5	3442.9	3679.3	3145.4	5299.2	3765.9	4336.6	4745.6	3443.1
35.4	173.7	175.9	142.7	164.9	202.3	141.7	196.9	69.3	114.8	159.1
12732.9	3710.8	5167.6	3743.8	4043.7	4517.8	4445.3	3379.9	3390.0	3148.3	4537.5
12548.1	7561.0	6914.2	7646.1	8488.9	8370.6	8105.4	7759.6	7871.6	6898.2	8646.2
11653.5	4825.8	5183.6	5783.0	4699.8	5307.3	5856.7	5390.1	6611.6	7378.8	5941.3
392.1	2840.6	2949.3	2713.8	2307.6	3353.3	1841.2	3815.1	2557.3	3744.3	2288.5
259.6	2564.2	3388.1	2343.9	1837.7	2068.3	2502.1	2712.4	1945.4	3037.9	2371.5
7573.0	4578.9	4594.8	4421.9	4355.1	4455.1	5142.8	4138.3	3749.4	6381.2	6904.7
2770.5	4653.7	4185.8	2924.5	2215.8	3675.1	2342.8	3420.7	3973.7	1191.2	3988.7
17466.9	8397.8	9481.1	8757.8	8307.8	9116.8	8876.2	8870.3	12361.2	10972.3	14499.7
9312.9	5266.9	4594.3	5449.4	7244.2	4626.7	6836.7	4379.6	6652.8	4811.3	5716.2
323.0	1842.8	1958.4	2099.0	1569.5	2169.5	2398.1	2269.5	2046.2	1634.9	1766.5
79.3	80.4	89.4	100.4	167.6	108.8	68.3	127.3	59.3	42.5	92.1
5628.6	6092.6	6468.6	6846.7	4862.5	5611.8	5892.6	6141.4	7517.0	5065.6	7464.3
2533.7	6032.1	5863.3	7373.9	7876.4	7487.8	7387.4	7230.2	7379.6	8261.8	6116.1
15731.5	6610.8	6001.0	7012.1	7168.1	5942.1	7350.3	5864.6	7754.5	6289.6	8180.8
4268.9	4863.1	5140.0	5315.3	4410.4	4799.7	4798.9	4966.0	7058.0	4070.7	5754.1
15834.2	8135.3	6623.4	7309.6	7170.8	8861.6	6230.9	7522.3	8125.6	7401.0	5277.1
17723.1	4992.3	5085.0	5922.7	4937.8	5306.0	5294.8	5039.9	4168.1	4109.2	6559.6
2317.1	5804.4	5028.0	5208.1	4776.4	4505.3	5019.6	5717.0	4413.4	1843.9	6520.3
12111.4	6964.9	6400.8	7456.2	7548.5	6728.9	8384.4	6386.1	7999.2	5953.5	9294.3
7718.8	4068.2	4984.4	4729.5	4819.7	4368.5	5252.7	4239.4	5917.1	6541.8	6439.7
399.2	1861.6	1656.9	1963.8	1625.6	1877.7	2222.1	1765.8	1924.3	2668.1	1324.0
2527.8	2161.2	1918.5	1982.5	1842.0	2048.7	1643.9	1890.7	2900.5	2211.4	2795.4
1925.4	2228.0	2400.0	3083.7	2722.0	2812.9	3216.8	2715.3	2278.3	2232.8	2492.6
6838.5	6218.5	5576.8	5724.2	5837.9	6043.9	5770.8	5569.6	9533.2	5537.2	8116.8
3745.7	6552.4	5622.7	5263.2	6650.1	7746.9	6055.5	6768.2	8734.3	5023.4	7010.2
3314.3	3110.7	3530.6	3558.9	3836.2	3252.7	4633.1	3896.3	2517.7	2380.7	3067.8
1034.3	4249.4	3969.4	4212.3	4776.3	4221.8	5293.5	3748.6	3502.5	2103.4	4340.9
49.4	222.8	292.2	372.5	375.1	270.9	385.3	284.7	141.3	160.9	170.9
3226.4	3508.9	3799.1	3152.0	3852.2	4162.7	4171.9	3801.9	3000.7	5112.4	4447.5
909.5	1201.5	1696.9	1900.3	1960.1	2634.3	2492.5	2830.4	1023.4	3530.8	2315.4
295.6	3148.2	3519.0	2317.7	1432.6	2496.2	1582.4	2343.1	2640.3	1222.4	2002.0
71.4	2861.9	2372.4	2752.6	1678.3	2914.8	1943.9	2382.5	3969.4	2413.1	3021.4

7080.6	10345.8	8743.9
1342.8	2118.3	1620.7
4767.5	5472.7	5543.5
3483.3	4391.1	2097.1
2890.7	5032.4	4100.4
3838.3	4326.2	4694.2
7811.3	8616.2	7338.5
3719.8	4085.4	3296.5
141.2	215.5	138.1
4002.3	3852.6	4180.2
7457.4	8881.9	7956.4
5424.9	6900.4	4598.1
3663.7	4413.1	3203.7
2033.5	2068.2	2091.0
4181.7	4224.6	3367.1
1107.9	2936.2	2243.7
7616.8	8908.9	7476.3
3898.7	6036.6	4764.9
2107.8	2973.3	2795.4
73.6	149.1	133.9
5471.3	7727.3	5626.8
7326.1	7601.3	6425.3
6094.9	6337.8	5834.9
4163.7	6527.5	4651.4
8271.5	8783.5	8956.8
4363.9	4960.8	4776.3
5115.4	5329.4	5645.9
6518.2	7213.1	7529.8
3644.1	5442.1	4156.2
2585.8	2404.3	2280.4
1816.7	2345.0	1363.7
2403.4	3095.0	3046.4
5447.3	6123.4	6062.9
5522.7	5020.4	3257.8
3391.3	3408.1	3744.5
3658.3	4347.5	4626.2
306.8	658.9	268.6
3901.7	4760.3	4153.0
2474.2	2257.9	2156.1
2230.7	2452.1	1417.1
3038.1	2698.1	2220.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae

g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Candidatus Portiera
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Chromohalobacter
g__Cobetia
g__Cobetia
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Haererehalobacter
g__Halomonas

s__unclassified	3127
s__unclassified	3142
s__unclassified	3175
s__unclassified	3182
s__unclassified	3183
s__unclassified	3191
s__unclassified	3224
s__unclassified	3231
s__unclassified	3255
s__unclassified	3262
s__unclassified	3281
s__unclassified	3284
s__Chromohalobacter canadensis	57309
s__Chromohalobacter marismortui	56461
s__Chromohalobacter marismortui	56548
s__Chromohalobacter marismortui	56975
s__Chromohalobacter marismortui	57030
s__Chromohalobacter marismortui	57038
s__Chromohalobacter marismortui	57478
s__Chromohalobacter marismortui	57696
s__Chromohalobacter salexigens	57475
s__unclassified	56832
s__unclassified	57072
s__unclassified	57155
s__unclassified	57189
s__unclassified	57283
s__unclassified	57292
s__unclassified	57600
s__unclassified	56919
s__unclassified	57191
s__Halomonas salaria	56400
s__Halomonas salaria	56586
s__Halomonas salaria	57003
s__Halomonas salaria	57122
s__Halomonas salaria	57723
s__unclassified	56603
s__unclassified	56722
s__unclassified	56751
s__unclassified	56801
s__unclassified	57046
s__Halomonas alimentaria	56782

AACY01081767.1 gg_id:103807 Sargasso Sea AACY0
EF572959.1 gg_id:228662 Coco's Island site 23 marine clone S23_1058 EF5729
EU804869.1 gg_id:344900 It's all ranking aquatic 250 miles Panama City clone 6C232836 EU8048
EF572127.1 gg_id:232511 Coco's Island site 23 marine clone S23_226 EF5721
EU804979.1 gg_id:344649 It's all ranking aquatic 250 miles Panama City clone 6C232959 EU8049
EF573802.1 gg_id:230375 site S25 near Coco's Island marine clone S25_146 EF5738
EU802942.1 gg_id:323845 It's all ranking aquatic Northeast Colon Panama clone 4C230338 EU8029
GQ346960.1 gg_id:593450 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
EU802824.1 gg_id:315563 It's all ranking aquatic Northeast Colon Panama clone 4C230203 EU8028
GU061819.1 gg_id:535761 and function microbial mesoscale eddy perturbations South China Sea clone CEP-DC GU061
EF572665.1 gg_id:231525 Coco's Island site 23 marine clone S23_764 EF5726
EU268074.1 gg_id:252291 summer Dalian and Liaodong bay determined sea water clone D0309 EU2680
AF211861.1 gg_id:43878 Chromohalobacter canadensis str. DSM6769 AF2118
X87220.1 gg_id:8130 Chromohalobacter marismortui str. -65 X87220
X87222.1 gg_id:8128 Chromohalobacter marismortui str. -492 X87222
EU122306.1 gg_id:243371 Chromohalobacter salexigens str. TPSV 101 EU1223
DQ789389.1 gg_id:163006 Chromohalobacter salexigens str. NJ2 DQ789
AM941743.1 gg_id:273506 Halomonas elongata str. ATCC 33173 AM941
EU652046.1 gg_id:276670 Chromohalobacter salexigens str. aa-27 EU6520
X87221.1 gg_id:8127 Chromohalobacter marismortui str. -100 X87221
AY505516.1 gg_id:105302 Chromohalobacter marismortui str. GSP58 AY5055
AJ277205.2 gg_id:27659 Chromohalobacter nigriandinum str. Taxon 4 4N AJ2772
AB021386.1 gg_id:8126 Pseudomonas beijerinckii str. ATCC 19372T AB0213
AF211862.1 gg_id:43545 Chromohalobacter israelensis str. DSM6768 AF2118
AJ295146.1 gg_id:48786 Halomonas elongata str. DSM 3043 AJ2951
AY373448.1 gg_id:94374 Chromohalobacter sarecensis str. LV4 AY3734
DQ375807.1 gg_id:153764 Chromohalobacter israelensis str. TVSP 101 DQ375
X87219.1 gg_id:8125 Chromohalobacter marismortui str. ATCC 17056-T X87219
AM110924.1 gg_id:140204 Bacillus subtilis B-1040 AM110
AM110925.1 gg_id:140613 Bacillus subtilis B-1042 AM110
EU652048.1 gg_id:276711 Halomonas salaria str. aa-29 EU6520
DQ979342.1 gg_id:230168 Salinicola socius str. SMB35 DQ979
DQ270747.1 gg_id:144625 Halomonas sp. B-1189 DQ270
AM110928.1 gg_id:140457 Bacillus subtilis B-1064 AM110
DQ270696.1 gg_id:142624 Halomonas sp. B-3020 DQ270
AJ427626.1 gg_id:42325 Chromohalobacter salinarum str. CG 4.1 AJ4276
DQ270679.1 gg_id:144129 Halomonas sp. B-1092 DQ270
EU937754.1 gg_id:324906 Haererehalobacter sp. str. JG 11 Iti 10 EU937
DQ235564.1 gg_id:141553 biofilm water pipeline biofilms steel pipelines Gulf Mexico clone 6 DQ235
EU175892.1 gg_id:261928 Drop-size lakes: transient microbial habitats soda lake on salt-secreting desert tree c EU1758
EF517969.1 gg_id:218181 Halomonas alimentaria str. 6YNAh EF5179

1630.9	3919.9	3738.0	4127.2	3887.7	3918.6	3846.7	4051.6	3885.2	4691.4	3391.4
4996.4	1690.6	2394.9	2410.6	2303.9	3014.2	2515.7	3291.7	1402.5	2107.8	2720.9
1432.6	3332.0	2714.0	3963.0	3995.4	4072.4	3760.6	4466.5	2773.0	2864.7	4612.8
200.2	302.5	409.5	407.6	585.2	410.8	521.4	565.3	169.4	177.3	330.7
53.1	43.5	36.3	48.8	42.8	42.4	38.9	85.8	35.9	28.6	28.9
13916.1	4284.7	4230.2	4437.2	3894.5	3979.1	4314.4	3601.1	6712.5	3995.3	7086.6
40.3	3342.0	1387.0	1474.9	943.9	3531.2	277.1	2234.3	1228.9	710.5	700.9
68.9	77.9	129.5	123.5	62.8	107.6	106.8	157.3	257.2	56.1	86.1
355.6	2186.1	1537.7	1177.7	868.4	1888.4	764.1	1068.5	1768.0	764.1	695.4
16719.7	4415.1	4157.0	5003.8	5090.6	4295.0	3411.5	4485.4	5139.9	3843.4	5086.6
20657.1	7007.1	7678.4	8459.9	7344.0	7443.3	8192.2	7063.2	12957.5	9513.1	14477.5
10699.5	3645.9	3937.9	3984.2	4315.4	3893.9	5588.3	4917.9	6099.7	3520.7	3391.2
118.7	979.7	983.9	967.6	842.3	1194.5	1005.0	1412.7	485.8	1031.8	588.4
495.1	4831.1	5331.0	5537.3	5472.5	5565.3	5362.3	5623.4	6022.8	5063.9	5170.3
85.5	2155.7	2986.2	2703.6	1938.5	3114.8	2162.5	3745.0	3985.1	2839.9	1788.2
1377.3	4035.2	3980.5	4367.6	5708.6	4691.0	4701.0	5811.4	4125.4	4566.7	4828.5
8499.4	5816.1	5357.4	5877.9	5741.7	6469.4	5984.0	6484.2	12471.0	9263.5	6196.2
285.0	3473.1	3737.8	3819.7	5603.8	4362.0	5062.4	5212.3	2548.1	3015.9	2727.6
4999.7	4814.2	4901.7	5241.7	5291.6	5657.9	4991.4	5578.7	4354.6	6190.3	5482.9
163.7	3882.0	4405.7	4458.4	5985.1	4277.4	5582.3	4716.0	4144.8	3668.9	2680.0
904.8	5499.6	5346.4	5570.5	7703.8	5174.2	7244.6	5045.3	4874.7	4089.6	4606.8
690.8	2840.6	3159.2	3481.0	3440.8	4072.0	3357.7	3364.2	3208.3	3590.2	2057.7
1533.9	3985.1	4425.6	5174.7	4870.0	4324.6	5355.1	4686.2	5297.3	2400.2	4045.9
1990.9	5948.5	5822.8	6205.9	7673.2	6143.3	6974.0	5711.3	4580.7	5021.0	5926.4
11700.4	4911.5	5196.8	5996.4	5509.0	6213.0	5352.8	6707.8	6885.3	8329.1	5452.1
2237.4	3192.2	3394.4	3631.9	3596.2	4059.1	3509.3	4227.8	3692.3	5659.7	3333.4
435.4	4410.8	4311.8	4490.9	6060.6	3891.5	5538.0	4042.8	3382.8	2270.4	3727.5
2405.2	3549.9	3668.3	4369.6	5650.0	4369.4	5347.0	5074.7	4452.3	1368.6	3197.9
288.0	3456.2	3951.1	4474.4	6075.6	4720.6	3712.8	5198.4	2505.4	3897.4	3381.9
785.0	3182.6	3670.1	3742.5	2962.4	4490.5	2735.6	4390.8	3028.9	6155.2	2517.7
8807.7	3337.4	3708.3	4077.2	4019.8	4185.3	4338.0	4980.8	6329.6	7129.6	3835.8
174.8	5828.9	6639.9	6685.8	6868.4	6044.0	7050.1	7924.9	6196.9	6672.5	6647.0
5606.0	4281.8	4722.2	5092.7	5107.3	5334.5	4888.8	5690.9	5981.1	7316.3	4034.7
137.0	2652.1	2388.9	2229.0	2454.4	2879.8	2134.2	3451.0	1465.7	1812.2	1584.3
1473.8	2167.8	2221.5	2215.6	2412.4	2607.1	1926.2	3258.2	2663.9	2843.4	1374.5
134.6	2951.7	2502.4	2183.2	3111.5	3015.9	2378.2	2787.5	1481.1	2229.5	1233.9
2672.7	1923.8	2181.5	2278.8	2844.9	2616.0	2767.9	3125.2	1917.8	2216.2	1424.4
2153.6	3472.8	3596.8	3523.7	3968.9	4151.6	2799.4	4581.9	1360.3	3559.7	1767.2
908.8	1290.3	1433.5	1518.1	1642.9	1760.6	1908.7	1791.6	703.2	1750.3	658.9
1999.7	6259.3	5930.6	4858.2	4792.8	6644.9	5684.6	6128.8	4743.4	9312.9	3627.6
2189.3	3028.6	3421.9	3264.5	3571.7	3354.3	3791.4	4393.0	3007.1	3615.8	3526.0

4162.7	4822.4	3758.5
2691.3	2964.6	2614.2
3794.3	4281.7	3726.6
360.9	836.0	384.9
50.0	49.3	69.9
3446.2	4997.2	3729.5
3896.6	2625.4	4342.6
127.9	174.0	80.1
707.1	1405.3	782.7
4933.5	5034.5	4645.8
7350.0	7653.5	6819.0
3935.4	5277.4	4874.8
1378.8	1388.1	1453.1
6413.0	5687.1	4122.2
4047.9	4492.0	2224.4
4488.0	6082.9	5224.0
6412.5	6078.8	5427.6
6076.8	5539.4	6637.1
5419.6	5827.9	4839.5
5699.2	4232.8	3626.2
5667.8	4491.6	4364.3
4167.2	4123.4	4026.5
4415.8	4813.7	5121.0
6311.5	5043.3	4379.7
6599.1	5758.4	5176.8
4391.9	4835.8	3850.3
4514.4	3931.6	3253.8
5614.1	4832.4	3203.3
6179.3	4828.7	4485.6
4338.3	4925.6	3008.3
3657.9	5223.0	3911.3
6308.0	6686.4	5108.0
4831.9	7133.5	4668.2
3475.7	3136.2	5568.6
2535.8	3058.9	2647.2
3004.1	2740.6	2950.5
2936.7	3229.6	3814.2
4189.4	3840.2	1906.8
1372.6	2074.2	1391.9
6375.8	5278.0	4197.7
3690.5	3919.8	2930.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae

g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas

s__Halomonas alkaliphila	57243
s__Halomonas anticariensis	57246
s__Halomonas boliviensis	56545
s__Halomonas campisalis	56483
s__Halomonas campisalis	57266
s__Halomonas cerina	56985
s__Halomonas elongata	57116
s__Halomonas korlensis	56389
s__Halomonas muralis	57410
s__Halomonas nitritophilus	56405
s__Halomonas nitritophilus	56454
s__Halomonas nitritophilus	56569
s__Halomonas nitritophilus	56635
s__Halomonas nitritophilus	56698
s__Halomonas nitritophilus	57114
s__Halomonas nitritophilus	57335
s__Halomonas nitritophilus	57570
s__Halomonas nitritophilus	57599
s__Halomonas nitritophilus	57638
s__Halomonas nitritophilus	57782
s__unclassified	56391
s__unclassified	56416
s__unclassified	56419
s__unclassified	56431
s__unclassified	56439
s__unclassified	56463
s__unclassified	56477
s__unclassified	56479
s__unclassified	56515
s__unclassified	56539
s__unclassified	56559
s__unclassified	56567
s__unclassified	56573
s__unclassified	56574
s__unclassified	56576
s__unclassified	56582
s__unclassified	56584
s__unclassified	56593
s__unclassified	56602
s__unclassified	56609
s__unclassified	56610

AY856383.1 gg_id:111155 Halomonas sp. MN12-2a AY8563
AY489405.1 gg_id:101840 Halomonas anticariensis str. FP35 AY4894
AY245450.1 gg_id:81833 Halomonas boliviensis str. LC2 AY2454
DQ077911.1 gg_id:160947 Halomonas campisalis str. LL6 DQ077
X92137.1 gg_id:43696 Lake Magadi isolate 27M1 X92137
EF613111.1 gg_id:227593 Halomonas cerina str. 15CR EF6131
X67023.1 gg_id:8158 Halomonas elongata str. ATCC 33173 X67023
EU085034.1 gg_id:239476 Halomonas korla str. XK2 EU085
AJ320530.1 gg_id:70784 Halomonas muralis str. LMG 20969 AJ3205
AY962237.1 gg_id:115026 Halomonas sp. str. AIR-2 AY9622
AM490137.1 gg_id:203039 Halomonas sp. str. IB-O7-1 AM490
E15669.1 gg_id:46054 Deleya sp. ASE1315 E15669
X92144.1 gg_id:42889 Lake Nakuru isolate 28N1 X92144
X92147.1 gg_id:44380 Lake Elmenteita isolate 35E2 X92147
DQ289066.1 gg_id:144891 Halomonas nitritophilus WST 3 DQ289
DQ289069.1 gg_id:142310 Halomonas nitritophilus WST 6 DQ289
DQ289070.1 gg_id:143579 Halomonas nitritophilus WST 7 DQ289
X92146.1 gg_id:22591 Crater Lake isolate 75C4 X92146
X92417.1 gg_id:8131 Halomonas desiderata str. FB2 X92417
EF121854.1 gg_id:196601 Halomonas daqingensis str. DQD2-30T EF1218
X92149.1 gg_id:35481 Lake Nakuru isolate 19N1 X92149
L04942.1 gg_id:8170 Halomonas halodenitrificans L04942
AY121436.1 gg_id:63144 Halomonas sp. str. YIM-kkny11 AY1214
EF101990.1 gg_id:252290 Halomonas sp. EEZMo-14 EF1019
EU135707.1 gg_id:242748 Halomonas sp. str. YIM C248 EU1357
EU308354.1 gg_id:360286 Halomonas sp. str. SB136_1 EU3083
DQ642806.1 gg_id:159766 Halomonas sp. 3 DQ642
EU432570.1 gg_id:264242 Halomonas sp. str. 10112 EU4325
EU218533.1 gg_id:239013 Halomonas ilicicola str. SP8 EU2185
AJ564880.1 gg_id:100009 Halomonas alkantarctica str. CRSS AJ5648
EF554912.1 gg_id:219933 Halomonas sp. str. G-AMM1 EF5549
EU848479.1 gg_id:305095 Halomonas sp. str. SP1-3 EU8484
AF539764.1 gg_id:86698 Halomonas sp. str. R21 AF5397
AY204638.1 gg_id:81690 Halomonas variabilis str. HTG7 AY2046
FJ978734.1 gg_id:466034 feces clone CL_F_436 FJ9787
EF421176.1 gg_id:277105 Halomonas sp. ZB-2007 EF4211
DQ396289.1 gg_id:154439 deep-sea octacoral clone ctg_NISA091 DQ396
CU914816.1 gg_id:402482 and dynamics adapted microbiota during degradation Tunisian zarzatine enriched se CU914
EF533977.1 gg_id:267271 Halomonas sp. str. L24 EF5339
EU652039.1 gg_id:274013 Halomonas taeheungii str. aa-1 EU652
EU735634.1 gg_id:337872 archaeal structures and pristine soils China oil contaminated soil Jidong Oilfield clone EU735

4142.6	2438.5	2069.7	2455.4	2436.6	2408.3	2760.6	2426.6	2871.6	1666.9	2467.2
34.0	1024.3	1327.2	1404.3	1585.6	1745.5	1319.6	2056.2	918.5	1131.8	1059.1
87.6	1016.1	920.5	794.6	1602.8	1059.8	1394.1	882.7	593.6	419.6	346.9
77.7	1357.3	1783.7	1540.9	2178.4	1770.6	1887.5	2456.6	1554.7	1551.0	703.9
1672.8	1426.5	1684.6	1695.1	2183.8	1841.9	2703.2	1964.3	1490.4	1120.1	1772.4
419.0	2974.8	3268.7	3115.9	4235.1	3553.3	3987.7	4417.0	2485.1	3267.0	1772.1
12868.3	6842.9	5870.5	7535.5	8235.6	6908.8	6544.0	7016.0	6465.7	8439.8	6878.4
100.0	1344.1	1469.0	1560.3	1522.8	1867.7	1442.8	1773.9	1131.2	709.5	1163.3
199.7	4693.9	5223.4	5547.5	5353.4	5126.0	5355.3	5045.6	3482.7	3590.2	6677.2
1151.6	2048.2	2334.5	2420.6	2915.6	3023.0	2621.9	3645.1	1825.8	3880.5	1555.0
388.3	2363.5	2781.1	2922.3	3847.9	3077.6	2519.5	4419.0	1806.5	2706.9	1417.2
260.6	2149.7	2284.9	2557.7	3636.6	3175.8	3702.0	3831.7	1788.8	2065.4	2829.5
150.2	1407.6	1753.3	1622.1	1716.9	1863.8	1820.6	1820.8	1863.0	1708.0	1248.2
12326.4	7074.1	6945.9	7979.7	7245.4	7129.3	6779.0	6868.9	10411.3	9317.9	7844.2
795.1	1761.1	2116.3	2317.4	2041.3	2271.0	1808.7	2933.5	1899.1	2867.2	1498.7
3366.2	4128.7	4117.1	4614.8	4620.3	4236.4	5366.8	4252.8	9412.9	4623.6	5341.3
152.3	2969.3	2734.7	2791.7	3457.3	3202.3	3484.0	3467.6	2559.4	1509.3	4121.7
25317.7	9574.6	8815.3	10651.0	10378.2	9803.5	9107.3	8540.8	11054.7	12009.8	12521.9
416.5	4428.1	5273.6	5452.9	5159.8	5063.3	5241.2	5420.6	2543.2	4176.2	6022.0
377.6	2842.2	3224.5	3462.9	4129.9	3892.6	3507.9	3489.1	1519.1	2903.7	3191.7
174.1	2169.0	2462.9	2488.9	2474.0	1771.1	3055.4	2902.5	1359.6	1340.7	1472.7
8475.6	3591.0	3677.8	3379.5	3299.2	3930.8	3571.2	4055.5	3900.5	3972.7	3834.5
95.1	732.7	887.1	883.4	1320.1	828.4	974.0	1185.4	412.0	1189.3	476.5
4128.2	7385.2	7663.1	8261.1	7946.3	8342.0	7992.5	8725.1	6568.2	11718.1	8296.1
101.5	2573.1	3333.0	2622.6	4160.5	2870.8	3862.4	3464.6	1114.7	2160.8	1649.9
9178.3	5285.6	4742.4	4996.2	6279.0	5418.6	6052.1	5755.6	5485.2	5066.3	5780.7
184.9	2037.1	2579.7	2794.9	2518.4	2728.8	2779.1	2764.4	1982.8	1713.7	2358.9
2958.7	3351.0	4083.7	3806.9	4357.0	3893.4	3780.6	6161.1	3686.8	3732.2	3146.5
314.1	1984.6	2487.8	2475.0	2801.3	2572.1	2718.9	3283.4	1725.4	1432.5	2029.9
4816.3	4993.1	4194.4	4936.8	4137.6	4747.4	4572.6	4629.4	7165.6	4946.4	5175.7
10048.1	5126.7	3911.5	4145.5	4488.3	4641.9	4621.0	4487.4	5742.1	5454.2	6291.4
415.2	2240.8	2671.8	3165.7	3055.1	2235.7	3556.5	3288.5	2120.3	2309.2	3037.3
935.7	4418.1	6074.7	6834.7	7026.0	4702.1	6517.0	6476.0	5846.9	2376.9	4295.7
74.1	883.7	1347.9	1266.8	864.2	1216.1	1030.5	1322.1	458.7	439.7	985.4
254.0	2653.4	2397.7	3105.3	2031.4	3085.9	1663.6	2825.0	4133.4	2395.1	2732.1
1779.7	1217.5	1600.9	1636.1	2270.0	1721.9	2028.0	2731.6	1202.4	1109.2	856.1
2494.7	3039.5	2331.2	2961.7	2078.3	3104.0	2175.7	3143.6	1696.9	1495.8	2582.0
251.3	3066.9	3483.4	3173.6	2917.3	3812.0	2712.5	4064.6	3343.8	1898.1	2353.3
4995.8	4814.5	4429.4	4941.0	5688.3	4893.3	4933.7	5794.1	4429.5	4949.0	3942.8
3052.7	3516.3	3058.5	3072.7	3280.7	2901.3	3095.3	3204.1	3350.8	1226.1	3473.7
40.7	305.0	307.2	344.2	430.1	326.0	407.8	517.2	100.1	80.3	193.2

2815.3	2251.6	2552.5
867.6	1994.3	1072.6
994.2	821.2	1048.1
2344.0	1957.2	1702.7
2036.4	2468.0	1995.4
3780.2	3973.5	3654.6
6649.3	8238.0	6317.9
2331.5	2566.9	2152.7
4329.1	4921.8	5280.1
3620.6	3582.5	2896.5
3861.1	3529.2	2905.1
2679.3	3776.4	4208.9
2057.9	2680.7	2108.8
6684.9	7957.4	6461.6
2860.8	3492.6	2507.9
4960.4	4584.4	4354.7
3591.9	3599.0	2985.8
9928.2	10390.5	9897.6
5165.9	5304.6	5152.0
3286.6	3120.0	2790.1
1986.6	2098.0	2054.3
4071.2	3818.6	3774.7
1552.8	1052.1	814.5
9509.0	8841.4	7414.4
3385.2	2514.0	3216.4
5672.3	5607.7	5214.1
2497.8	2885.9	2880.0
4337.6	4355.9	3438.1
2489.1	2753.9	1856.7
4836.9	4320.9	4743.6
3375.5	4982.4	4492.4
2841.0	2542.8	3548.8
5646.0	6104.4	6582.6
1343.3	1300.7	1464.1
2204.9	2828.8	927.6
2657.2	2255.8	1682.2
3092.9	2406.3	1584.6
4446.9	3609.0	2635.4
5536.8	5585.0	4924.3
1421.8	3193.0	3702.0
667.6	312.1	375.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae

g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas

s__unclassified	56615
s__unclassified	56624
s__unclassified	56629
s__unclassified	56642
s__unclassified	56644
s__unclassified	56656
s__unclassified	56662
s__unclassified	56667
s__unclassified	56671
s__unclassified	56689
s__unclassified	56692
s__unclassified	56697
s__unclassified	56707
s__unclassified	56714
s__unclassified	56727
s__unclassified	56729
s__unclassified	56747
s__unclassified	56755
s__unclassified	56772
s__unclassified	56777
s__unclassified	56789
s__unclassified	56791
s__unclassified	56795
s__unclassified	56798
s__unclassified	56810
s__unclassified	56822
s__unclassified	56823
s__unclassified	56834
s__unclassified	56844
s__unclassified	56855
s__unclassified	56857
s__unclassified	56861
s__unclassified	56863
s__unclassified	56880
s__unclassified	56881
s__unclassified	56883
s__unclassified	56896
s__unclassified	56912
s__unclassified	56930
s__unclassified	56931
s__unclassified	56937

AB042501.2 gg_id:17793 Halomonas sp. str. TAG C4 AB042
AF140007.1 gg_id:8134 Halomonas sp. str. ML-185 AF140
GU212635.1 gg_id:559842 Halomonas sp. str. H57B76 GU212
FJ978741.1 gg_id:436100 feces clone CL_F_444 FJ9787
GU001906.1 gg_id:550587 Halomonas pacifica str. PL51 GU001
FJ152554.1 gg_id:331625 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX1A_ FJ1525
AY505526.1 gg_id:101462 Halomonas variabilis str. GSP28 AY505
EU880513.1 gg_id:303578 Halomonas sp. str. P56 EU880
X92151.1 gg_id:51042 Lake Bogoria isolate 24B1 X92151
DQ001682.1 gg_id:157952 Microbial seeps asphalt seep clone B101-20 DQ001
FJ978758.1 gg_id:373671 feces clone CL_F_464 FJ9787
FJ153012.1 gg_id:328530 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX4C FJ1530
U85873.1 gg_id:8145 Halomonas variabilis str. SW48 U8587
GU397430.1 gg_id:531203 Halomonas sp. str. AAD14 GU397
FJ978750.1 gg_id:375726 feces clone CL_F_453 FJ9787
AB305246.1 gg_id:229538 Halomonas sp. str. Sa6-3XX AB305
DQ128258.1 gg_id:200527 Unique Microbial Fluids Chinese Continental Scientific Drilling drilling fluid clone CCS DQ128
GU001901.1 gg_id:593434 Halomonas halophila str. PLD GU001
EF143431.1 gg_id:188268 Halomonas aquamarina WP02-1-81 EF1434
FJ444974.1 gg_id:573554 Halomonas sp. str. whb28 FJ4449
EU722713.1 gg_id:352742 Halomonas salina str. SBC8 EU722
AJ306893.1 gg_id:33823 Halomonas variabilis str. DSM 3051 AJ3068
EU432575.1 gg_id:259254 Halomonas sp. str. 10043 EU432
FJ418176.1 gg_id:358381 Modicisalibacter sp. str. YIM 90637 FJ4181
FJ607360.1 gg_id:542842 Halomonas sp. str. SeaH-As8w FJ6073
FJ152704.1 gg_id:321200 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX1A_ FJ1527
AB305300.1 gg_id:231115 Chromohalobacter sp. str. Sa11-3XX AB305
FN257741.1 gg_id:553188 Halomonas maura str. S-31 FN257
AY952453.1 gg_id:114486 Halomonas sp. str. B12 AY9524
GU397433.1 gg_id:523209 Halomonas sp. str. AAD2 GU397
GU166164.1 gg_id:579641 intestinal tract larvae (Musca domestica) direct cloning and sequencing genes whea GU166
FJ172099.1 gg_id:312851 Halomonas sp. str. SBC13 FJ1720
EU594554.1 gg_id:271380 Pseudomonas fluorescens str. 2-4 EU594
FJ978736.1 gg_id:417685 feces clone CL_F_438 FJ9787
DQ280368.1 gg_id:143508 Halomonas sp. str. BH843 DQ280
GU397429.1 gg_id:516866 Halomonas sp. str. AAD12 GU397
AY647309.1 gg_id:104617 Halomonas desiderata str. MSU3810 AY6473
AF170753.1 gg_id:8146 Halomonas sp. str. QSSC9-11 AF1707
EU159469.4 gg_id:240141 Halomonas taiwanensis str. Halo30-01 EU1594
EF627999.1 gg_id:231117 Halomonas sp. str. P15 EF6279
FJ172096.1 gg_id:317854 Halomonas sp. str. SBC16 FJ1720

499.4	3042.0	3356.2	3017.2	3860.9	3299.8	3876.3	2528.0	3099.2	2556.7	2480.9
3130.1	4206.6	3195.3	4420.0	2767.3	4475.9	3249.8	3399.7	5200.9	3538.8	6239.7
2102.7	1945.8	1838.0	1914.4	2522.5	1961.6	2190.6	2436.1	1880.8	1054.3	1613.9
1230.7	3183.4	3329.1	3848.1	4760.8	3774.4	4157.5	5113.8	3397.3	4669.0	4444.8
61.5	1050.1	1086.9	1019.4	1745.3	1068.1	1338.0	1562.5	459.8	248.2	473.3
5587.6	6402.1	6751.3	6903.2	6754.3	7112.1	7160.7	7278.9	8191.2	9003.8	7405.4
4888.8	1626.4	1711.5	2077.5	2230.2	1942.2	2220.8	2164.0	1542.0	2267.2	1189.2
4448.6	4297.6	5592.2	4820.6	4145.7	4425.2	3705.5	4700.8	4970.7	6550.4	4603.7
1872.1	5129.8	5148.3	5802.2	6179.7	5658.2	8165.9	5755.1	7299.0	6946.9	4893.0
57.7	364.1	320.1	312.1	279.8	400.2	522.9	526.2	201.5	187.7	206.1
29583.1	6012.2	6029.4	6774.2	7599.6	6157.8	6616.6	6278.9	8283.3	7818.4	9039.9
436.6	4824.3	5920.2	5816.7	6571.9	6562.6	4760.1	6996.0	6121.6	8455.4	4715.8
6521.4	4969.0	4925.0	5773.0	5131.3	4980.7	5013.9	5476.4	6471.7	4611.6	6863.3
14254.2	5890.6	6405.1	6845.6	5818.7	6236.8	7260.9	6587.5	7201.1	6838.6	8540.1
15081.8	8108.3	7014.7	7295.9	7749.1	8109.0	7597.8	7312.3	9992.2	6558.2	10294.5
444.1	2953.8	3080.7	2754.0	2636.8	3459.7	3017.1	2916.2	2371.6	3235.9	4324.6
1215.5	1796.6	2102.8	2424.0	3886.2	2400.9	2592.1	2389.9	1274.1	923.6	901.5
756.2	4483.0	4912.1	5243.6	4862.1	5308.6	6729.1	5158.0	3215.3	6046.0	4179.5
271.0	1001.9	1173.4	1025.0	1265.0	1132.2	1043.9	1605.7	501.3	666.4	699.5
2049.9	4733.3	5204.8	5801.4	5940.6	5474.3	6392.2	5762.3	4202.8	6515.4	5044.9
3381.0	3658.0	3351.8	3171.3	3454.2	3322.9	3277.6	3369.3	2706.5	3716.3	2276.4
784.1	1498.7	1641.5	1498.5	2086.4	2131.6	1652.3	2705.8	1361.8	1704.7	1533.5
520.8	2163.0	2570.2	2705.5	2159.8	3073.4	1356.5	4145.6	2085.2	1975.5	1822.8
698.2	3217.2	3445.3	3891.3	5363.3	4036.6	3756.9	6344.5	3388.0	2582.0	1962.8
266.1	1524.5	1749.1	1784.2	1583.9	2065.6	1436.9	1978.4	1061.9	2922.9	1025.3
1682.0	6073.3	6003.6	6222.8	6246.5	6897.4	6190.9	7616.0	5422.1	7859.2	6305.0
2394.2	2840.5	3094.2	3412.7	3415.6	3637.3	3303.5	5372.5	3747.4	592.7	3208.7
361.0	1868.3	2105.5	1976.5	2649.3	2357.9	2369.8	2469.5	1409.5	1538.5	1218.7
13725.8	6878.4	7195.0	7818.9	7631.5	7105.3	8185.4	8710.6	6818.3	8405.9	7782.7
11176.9	8981.3	9856.0	10513.0	10577.7	9655.7	12325.8	10479.5	10094.3	11602.0	12901.8
3637.0	3653.1	3391.0	3945.9	4048.0	3435.4	5033.2	4502.7	3158.5	2239.3	3750.2
6615.2	5864.7	6024.9	7213.9	5495.4	6032.0	6509.9	6443.5	7179.3	5472.1	6774.2
453.4	4036.9	3467.4	3115.5	3623.4	3774.3	3112.4	4400.5	2432.9	2082.0	2014.3
818.3	2603.6	3328.0	3823.6	4509.5	3378.8	3485.8	3179.5	2310.7	3619.9	2043.5
3719.2	3153.1	3542.7	3744.6	3173.9	4320.8	3278.8	4014.7	2620.0	4581.5	2762.9
10669.8	7403.8	8052.8	8702.5	8500.9	7970.6	9095.9	8569.3	9097.6	9259.9	10335.5
1370.0	2989.8	3553.3	3921.6	4057.2	3781.1	5222.5	3886.4	3320.9	5214.4	2471.3
1261.6	2246.6	2568.2	2702.7	2293.3	3125.9	2459.8	3356.0	1892.8	539.0	1359.1
10571.7	4270.9	4480.3	4715.3	4693.2	4878.8	4161.9	6327.3	7135.2	6704.3	5035.1
126.7	911.9	870.1	674.2	1221.6	928.6	1284.9	1015.6	514.6	89.3	317.1
218.2	1809.4	1873.0	2001.2	1700.0	1898.4	1730.3	2500.1	1420.4	1757.3	1964.3

2601.4	2643.8	2025.4
3066.6	3668.7	1843.0
2328.6	2426.0	2460.5
3464.3	4771.5	4913.8
1411.7	1261.2	836.9
7709.2	7625.8	5996.7
2411.6	478.8	1743.8
4824.7	5084.9	3651.2
5497.4	5788.9	3696.5
375.5	422.3	343.3
5875.5	6947.2	6016.9
6876.6	7016.4	5174.1
5073.4	6479.3	4617.8
6440.6	6933.2	5935.8
6575.6	6468.0	6570.5
2681.8	3532.3	3019.3
3679.1	3200.3	4276.5
5056.6	6179.3	4822.7
1251.3	2349.2	2379.0
5821.9	5694.5	5461.1
3436.3	3877.1	2526.6
2729.4	1689.4	1459.0
4325.0	3810.0	4161.3
5385.9	3678.0	3566.3
2247.8	2780.9	1697.2
7628.3	7423.7	6523.7
4853.9	5147.9	2301.9
2524.1	2183.5	1858.9
8541.8	9093.5	7788.6
9849.1	11197.5	10936.5
3888.5	4045.2	3427.6
6609.0	6048.4	5937.6
4365.0	4278.6	5157.1
2911.5	3409.2	4208.1
4457.5	5309.6	4009.2
8555.5	9546.7	8267.9
4018.3	3218.8	3764.8
3999.0	3887.3	5438.8
5011.0	6176.6	4727.9
762.5	530.6	419.7
2590.7	2015.4	1912.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae

g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas

s__unclassified	56943
s__unclassified	56952
s__unclassified	56959
s__unclassified	56961
s__unclassified	56972
s__unclassified	56977
s__unclassified	56989
s__unclassified	56995
s__unclassified	56997
s__unclassified	57013
s__unclassified	57018
s__unclassified	57022
s__unclassified	57036
s__unclassified	57075
s__unclassified	57095
s__unclassified	57112
s__unclassified	57144
s__unclassified	57152
s__unclassified	57153
s__unclassified	57154
s__unclassified	57157
s__unclassified	57181
s__unclassified	57195
s__unclassified	57199
s__unclassified	57209
s__unclassified	57217
s__unclassified	57236
s__unclassified	57245
s__unclassified	57255
s__unclassified	57281
s__unclassified	57295
s__unclassified	57297
s__unclassified	57312
s__unclassified	57329
s__unclassified	57339
s__unclassified	57362
s__unclassified	57365
s__unclassified	57369
s__unclassified	57386
s__unclassified	57387
s__unclassified	57390

GU397428.1 gg_id:514707 Halomonas sp. str. AAD10 GU397
AJ515365.2 gg_id:101719 Halomonas campaniensis str. 5AG AJ5153
FJ444954.1 gg_id:513000 Halomonas saccharevitans str. whb8 FJ4449
EU909458.3 gg_id:347570 Halomonas sp. str. Hwa EU9094
AM111020.1 gg_id:140975 Halomonas sp. str. 7018 AM111
AF054286.1 gg_id:8133 Halomonas campisalis str. ATCC 700597 4A AF0542
GU001898.1 gg_id:589958 Halomonas shengliensis str. PL16 GU001
DQ289060.1 gg_id:144478 Halomonas cf. campisalis 'campaniae' HKS 3 DQ289
AM110945.1 gg_id:139641 Bacillus subtilis B-3064 AM110
AF173968.1 gg_id:71016 Halomonas variabilis str. KT1111 AF1739
FJ796247.1 gg_id:555230 Halomonas sp. str. JS46 FJ7962
EU822512.1 gg_id:317124 Halomonas xinjiangensis str. TRM 0175 EU8225
EU447166.1 gg_id:272400 Halomonas sp. str. AGD 3 EU4471
FJ152923.1 gg_id:351851 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX4CI FJ1529
GU252151.1 gg_id:591123 Halomonas sp. str. CC-SPL15-4 GU252
NR_027219.1 gg_id:571751 Halomonas axialensis str. Althf1; ATCC BAA-802 NR_027
GU001886.1 gg_id:548230 Halomonas shengliensis str. PL207 GU001
FJ978688.1 gg_id:571906 feces clone CL_F_375 FJ9786
AM110934.1 gg_id:139678 Bacillus subtilis B-1190 AM110
AY922995.1 gg_id:153241 Halomonas phoceae str. CCUG 5096 AY9229
GU217705.1 gg_id:583245 Halomonas sp. str. ljh-38 GU217
AJ294348.1 gg_id:75905 Halomonas variabilis HY-61 AJ2943
AB354933.1 gg_id:237271 Halomonas taeheungii str. NM5 AB3549
FJ152888.1 gg_id:347546 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX4CI FJ1528
AM111019.1 gg_id:140888 Halomonas sp. str. 7017 AM111
AM110962.1 gg_id:140938 Halomonas sp. str. 2006 AM110
GU001905.1 gg_id:544868 Halomonas salifodinae str. PL43 GU001
AJ876735.1 gg_id:157900 Halomonas sp. PH1226 AJ8767
EU308357.1 gg_id:363386 Halomonas sp. str. TB1612 EU3083
AF211860.1 gg_id:28015 Halomonas alimentaria str. YKJ-16 AF2118
U85871.1 gg_id:8143 Halomonas variabilis str. SW04 U85871
EF157249.1 gg_id:255098 Microbial natural asphalts rancho la brea heavy oil seeps Rancho La Brea tar pits clon EF1572
EU684463.1 gg_id:289972 Halomonas venusta str. Kh-10-91 EU6844
AM110954.1 gg_id:140937 Halomonas sp. str. 1013 AM110
DQ768627.1 gg_id:244318 Halomonas meridiana MARC4B DQ768
AJ306892.1 gg_id:38116 Halomonas subglaciescola str. DSM 4683 AJ3068
DQ458819.1 gg_id:156772 Halomonas sp. str. HS217 DQ458
DQ129871.2 gg_id:137560 Halomonas sp. LCKW-Isolate10A DQ129
FJ764764.1 gg_id:552836 Halomonas sp. str. E-090 FJ7647
EU382220.1 gg_id:261457 Bacillus subtilis str. 15-2 EU3822
AB069958.1 gg_id:67708 Halomonas sp. SK1 AB0699

10927.0	7007.1	7689.9	8004.7	8037.7	7397.8	9772.3	7991.2	7296.2	10426.9	7602.0
44.1	78.2	97.6	101.9	117.0	98.7	58.2	164.6	79.8	48.1	73.3
166.8	2276.5	2559.8	3108.4	3474.3	3180.5	2529.9	4273.4	1459.2	2755.9	1666.3
5386.7	8760.5	9420.4	10667.0	9708.8	9451.4	10408.9	9547.8	9864.8	10918.6	11242.3
7100.3	5365.1	5742.4	5931.4	5602.6	4857.9	6462.8	4656.2	7673.1	4148.5	6392.0
326.5	438.8	564.8	585.6	661.7	716.4	903.8	711.2	293.9	707.4	689.6
11849.6	6078.0	6177.6	6699.4	6297.4	6940.4	6500.6	6686.4	6187.6	10335.9	8261.7
144.0	1294.2	1297.5	1262.8	1453.0	1709.4	1349.3	1649.9	998.3	1909.9	1067.3
1031.6	4068.5	3465.2	3534.4	5110.3	3320.9	3589.5	3860.0	2684.2	2200.2	3289.7
95.9	1345.8	1548.1	1481.9	1893.8	1594.7	1676.2	1438.7	1365.7	967.3	714.9
2963.0	5465.4	5241.7	5098.4	5257.3	5605.1	6564.6	4602.0	3877.7	3045.1	3875.6
186.8	1414.3	1809.8	1518.0	2362.4	1767.7	1684.7	3330.8	1858.2	1331.5	1166.6
1688.4	1312.1	1470.0	1731.7	1318.3	1781.9	1284.0	1735.2	1319.0	1776.5	592.2
2328.3	1087.2	1040.8	1143.3	1014.7	1020.0	1378.6	1280.5	754.3	753.0	750.6
124.1	4038.5	3322.6	3086.5	2932.6	3986.8	3299.2	4164.2	3156.6	2245.4	2267.8
923.1	1528.3	1458.3	1487.7	2062.9	1457.9	2027.2	1580.5	744.4	518.0	859.3
340.7	3733.9	4015.5	4338.5	4100.8	5109.2	3599.1	5138.3	3718.4	7179.3	3512.4
247.2	1897.7	2004.6	2263.2	3900.1	2107.3	1807.0	2386.8	1332.0	1630.2	809.8
7291.1	5352.8	4665.9	5849.5	4472.1	5662.8	4724.4	5815.3	5246.9	6245.3	5949.3
74.4	1029.3	1090.1	957.5	1157.2	1193.6	1409.6	827.1	615.5	708.0	1751.9
57.3	1513.9	1590.3	1726.1	2002.1	2073.4	1869.7	2874.4	1165.4	565.4	1763.5
781.2	2213.9	2288.5	2149.5	2761.3	2454.8	2472.8	2421.6	2655.6	2255.1	1662.5
2157.9	2969.2	2702.1	2865.7	3677.3	2824.0	3832.9	2771.7	3281.0	2647.4	2706.8
1372.7	2498.7	2695.5	2865.5	3859.3	3344.4	3375.3	4119.0	2953.4	2573.7	2255.1
6762.8	5106.8	5731.9	5420.9	6305.5	4852.0	6187.3	6312.6	5996.0	1754.2	4567.2
27.5	16.2	10.5	16.7	15.9	19.7	15.0	12.8	15.9	11.1	15.5
537.2	4154.6	4304.3	3915.6	4077.2	4132.6	3703.3	4858.4	5630.5	4164.7	3182.7
4134.4	3452.8	3350.7	3566.0	4294.5	3522.2	3781.0	4244.1	3358.6	1953.9	3073.6
2749.0	4033.6	3731.0	4046.5	5150.3	4468.3	5368.6	4388.3	3714.2	4971.9	2870.4
19028.0	7687.5	8428.9	8931.9	7954.1	6639.0	7873.2	7412.2	8956.1	10093.0	9779.9
52.6	170.8	240.2	160.8	249.0	205.1	138.5	251.0	71.1	52.7	79.9
83.0	1198.3	1311.1	1186.9	1355.9	1366.5	1133.0	2144.9	942.2	437.3	940.4
8891.1	5118.3	4749.3	5369.1	5089.6	5094.5	4907.5	4762.9	6887.5	5749.6	7983.8
1600.3	3958.6	4038.3	4308.0	4436.8	4196.9	4424.9	4058.4	4195.7	5420.8	3435.7
2663.0	3867.0	3229.8	4544.6	4403.7	4774.5	3834.0	4480.9	4097.3	4625.8	4285.7
60.8	183.3	155.4	155.7	147.2	115.7	177.7	241.1	147.1	112.3	116.0
932.4	2187.7	2177.8	2283.4	2105.2	2639.5	2828.4	3090.2	1897.4	3393.1	2180.5
8139.6	4237.6	4328.8	4231.0	3936.1	4745.0	5536.5	4449.3	6333.7	5718.3	6160.0
119.6	1885.4	2357.8	2862.7	3426.5	2779.8	1208.8	4154.5	1704.0	845.3	3098.3
2652.1	3598.7	3561.5	3801.7	3133.5	4857.4	3717.3	5652.2	3210.1	5772.7	3556.8
10131.2	2580.5	2880.9	2957.9	2975.6	3047.0	2991.6	3896.1	2326.2	4265.1	2262.4

8952.5	8243.3	6575.4
134.0	123.8	67.8
4351.7	3869.9	3723.0
9440.4	10751.4	10177.6
2702.6	5109.9	5771.6
623.4	668.3	382.2
6641.7	8412.2	6855.7
1703.1	2062.7	1053.8
2048.2	3999.7	3627.7
1558.0	1536.0	1719.1
4299.8	4340.9	4653.0
1974.3	1499.0	1104.5
1655.9	1775.0	1082.8
1070.3	1454.8	997.1
4063.8	3215.5	4398.0
1662.3	1964.3	2343.1
5360.3	5658.3	3728.7
2368.3	2548.7	3143.4
5529.5	6602.1	6198.9
530.5	1048.1	614.8
1799.6	2502.9	2744.9
2527.8	2489.3	2285.3
2660.8	2810.6	2968.6
3920.4	3566.8	3212.7
4525.9	4985.4	4499.7
14.5	9.2	13.0
2621.1	4384.7	3847.6
3785.1	3930.7	3742.2
4763.4	4201.6	4403.8
7640.1	7518.5	7583.8
336.8	335.6	160.0
1915.4	2898.9	1821.6
3708.2	6344.0	3876.7
4276.2	5794.8	5544.2
4413.1	4824.2	4646.0
154.9	299.9	67.4
2387.0	3377.9	1778.2
3891.4	5528.9	3969.4
2424.9	2935.9	1892.8
5038.7	5027.8	4062.0
3539.3	3844.6	2434.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae

g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas
g__Halomonas

s__unclassified	57392
s__unclassified	57401
s__unclassified	57408
s__unclassified	57412
s__unclassified	57435
s__unclassified	57440
s__unclassified	57449
s__unclassified	57500
s__unclassified	57504
s__unclassified	57509
s__unclassified	57510
s__unclassified	57518
s__unclassified	57531
s__unclassified	57543
s__unclassified	57544
s__unclassified	57548
s__unclassified	57550
s__unclassified	57554
s__unclassified	57558
s__unclassified	57579
s__unclassified	57584
s__unclassified	57587
s__unclassified	57590
s__unclassified	57592
s__unclassified	57608
s__unclassified	57634
s__unclassified	57648
s__unclassified	57658
s__unclassified	57660
s__unclassified	57666
s__unclassified	57691
s__unclassified	57703
s__unclassified	57712
s__unclassified	57734
s__unclassified	57737
s__unclassified	57750
s__unclassified	57754
s__unclassified	57761
s__unclassified	57763
s__unclassified	57777
s__unclassified	57778

AJ430687.1 gg_id:217166 Halomonas glaciei AJ4306
FJ231169.1 gg_id:329118 Halomonas sp. str. LJ-NP1-1 FJ2311
GU001893.1 gg_id:571136 Halomonas shengliensis str. PL15 GU001
FN397896.1 gg_id:462928 Halomonas sp. str. CpA_b2b FN3978
AB166917.1 gg_id:102468 Halomonas sp. str. SYO J65 AB1669
DQ270756.1 gg_id:142849 Halomonas sp. B-2049 DQ270
X93493.1 gg_id:8136 Halomonas pantelleriensis str. AAP X93493
EU540247.1 gg_id:285558 profile human microbiota antecubital fossa (inner elbow) skin clone nbt248a06 EU5402
AY505528.1 gg_id:101792 Halomonas variabilis str. GSP45 AY5055
EU075119.1 gg_id:246266 Halomonas sp. str. CSQ5 EU0751
AY669165.1 gg_id:102493 Halomonas venusta OC-4 AY6691
EU308351.1 gg_id:367476 Halomonas sp. str. FIB163_2 EU3083
AY849802.1 gg_id:110100 Halomonas sp. 1230sf2 AY8498
AY382579.2 gg_id:95058 Halomonas koreensis str. SS20 AY3825
DQ270727.1 gg_id:144159 Halomonas sp. B-1037 DQ270
DQ358666.1 gg_id:269110 Halomonas sp. str. YIM DKMY60 DQ358
AM490136.1 gg_id:203382 Halomonas sp. str. IB-O18 AM490
FJ984862.3 gg_id:577434 Halomonas sp. str. YCSA28 FJ9848
AJ417388.1 gg_id:47371 Halomonas halocynthiae str. KMM 1376 AJ4173
EF442769.1 gg_id:206143 Halomonas salaria str. 5-3 EF4427
AF212202.2 gg_id:40996 Halomonas neptunia str. Eplume1; ATCC BAA-805; CECT 5815; DSM 15720; CCM 7107 AF2122
AF139993.1 gg_id:24119 Halomonas sp. str. ML-027 AF1399
DQ015832.1 gg_id:139755 Antarctic lake water clone ELB19-210 DQ015
AY035894.1 gg_id:36784 Halomonas cupida str. An1 AY0358
FJ429198.1 gg_id:357869 Halomonas sp. str. JSM 078169 FJ4291
EU735712.1 gg_id:347232 Biological Arsenic Remediation Project Groundwater Aquifer soil clone 2As2 EU7357
EF554885.1 gg_id:224888 Halomonas sp. str. G7 EF5548
AM238662.1 gg_id:156944 Halomonas sinaiensis str. AloSharm AM238
AM111093.1 gg_id:140764 Halomonas sp. str. 8059 AM111
EF628007.1 gg_id:231641 Halomonas sp. str. P24 EF6280
EU624431.1 gg_id:284938 Halomonas aquamarina str. S6-07 EU6244
EF121853.1 gg_id:177035 Halomonas shenglis str. SL014B-85T EF1218
AM110951.1 gg_id:140755 Halomonas sp. str. 1005 AM110
AY167282.1 gg_id:82157 Halomonas variabilis str. ANT9112 AY1672
AJ616910.1 gg_id:99504 Halomonas organivorans str. G-16.1 AJ6169
GU397427.1 gg_id:522529 Halomonas sp. str. AAD1 GU397
EU447162.1 gg_id:262835 Halomonas sp. str. CH3 EU4471
EF674852.1 gg_id:255434 Halomonas xinjiangensis str. YIM 91125 EF6748
FJ973521.1 gg_id:396322 Halomonas venusta str. NBSL13 FJ9735
X92148.1 gg_id:113719 Crater Lake isolate 29C1 X92148
EF554886.1 gg_id:226570 Halomonas sp. str. G24 EF5548

1074.2	2753.1	3519.1	4114.4	3719.8	2854.3	2955.9	3486.0	3334.4	1207.2	2288.9
2578.9	1067.5	1869.9	1889.1	1792.1	1293.1	2483.8	1301.3	1748.2	694.3	1561.1
534.3	4199.8	4662.1	4736.8	5084.1	4902.2	5060.2	5615.7	3740.1	5911.6	4291.9
884.6	2662.7	3691.3	4050.6	3633.1	3349.0	3424.3	3967.8	3953.2	2359.1	2600.1
3922.4	2754.4	2817.9	2979.1	3277.2	3633.9	3901.5	3151.7	2197.2	2346.1	2069.7
1403.2	5688.6	4912.2	5468.0	4561.7	4661.9	4563.3	4029.2	4657.9	3557.9	4427.4
293.2	1054.6	1149.2	1271.2	1153.5	1586.7	1207.3	1650.9	752.4	2145.1	515.5
3119.5	3777.6	4207.2	3473.6	2803.6	3739.5	3550.7	4316.6	4792.5	3659.7	3621.3
99.0	909.5	1065.3	998.2	1454.6	969.4	1987.8	1749.3	578.3	708.9	428.3
4805.6	2721.1	2375.3	2616.6	3539.7	2648.5	3514.8	3130.6	2968.7	1836.8	2627.8
1227.4	898.7	862.6	880.9	920.6	1104.8	721.9	1516.1	827.5	416.6	588.6
182.4	1870.9	1909.1	2226.4	3426.8	2609.4	3085.5	3435.3	1414.4	1575.9	1755.2
47.1	149.5	209.7	140.5	148.6	105.6	101.1	103.5	62.9	45.1	62.5
743.3	3859.5	5188.7	4736.3	4412.7	4509.7	4396.3	5346.0	3845.3	3261.7	3235.8
185.6	471.9	560.2	656.0	625.8	646.7	555.4	621.2	635.4	893.7	417.4
5455.6	3310.0	3803.3	4580.5	5440.8	3368.3	4967.0	4165.9	4068.2	3928.8	3738.1
1409.9	1632.4	1630.4	1722.5	2291.4	2414.5	1869.4	2516.3	1383.0	2949.4	1103.3
1438.9	3059.9	3293.4	3567.2	3677.2	4539.2	3564.7	4644.0	2900.8	7507.4	2444.7
71.0	379.0	384.2	604.4	812.3	492.1	803.7	705.0	312.2	396.1	292.1
109.6	574.5	687.3	506.1	604.4	653.4	30.6	777.3	298.7	218.8	289.0
2313.9	3148.4	2778.8	2975.1	3742.9	3042.6	3832.9	2894.9	3579.2	2674.6	2726.6
484.6	749.1	916.2	921.8	873.4	929.6	1043.0	1057.2	602.3	1073.2	1049.0
68.5	318.7	520.1	510.2	538.9	315.4	555.9	939.8	133.8	116.2	176.3
244.9	2571.4	3077.3	3389.3	3164.3	3456.3	2923.0	3387.2	2788.1	4875.7	2915.5
659.9	5181.3	5800.9	5627.1	5379.5	5755.6	5213.9	6626.7	6215.9	5750.1	7160.3
505.0	1737.4	2123.0	2184.7	2162.0	2202.3	2536.2	3004.7	1460.7	2198.8	1312.2
159.9	1223.8	1494.1	1711.9	1604.1	1752.7	1237.5	2723.6	900.4	2372.4	1087.1
270.3	1894.3	1754.9	2286.3	2405.4	2738.9	2086.2	2516.3	989.6	2757.4	1336.7
285.3	649.3	1106.3	623.9	662.7	634.3	585.4	722.4	329.7	656.7	1227.2
228.7	1492.8	1791.0	1744.7	1749.2	1869.4	2141.9	1872.0	3104.6	1517.1	1154.6
237.5	2195.6	2292.9	2186.2	3695.8	2438.9	3308.9	2637.9	1162.8	2105.3	1007.6
8561.9	5191.5	5270.5	5579.1	5104.6	6198.9	5066.3	6655.8	5385.2	8855.2	6679.8
60.8	131.3	273.1	364.2	203.5	227.0	198.0	698.6	141.3	228.7	227.0
54.7	1054.6	1100.2	983.0	1612.6	1316.3	880.4	1361.0	623.7	284.6	451.4
2729.3	4061.7	4194.5	5029.2	4204.0	4555.5	4127.7	5396.1	3514.6	4332.8	5758.0
6706.2	4324.2	4946.7	5318.7	4557.7	4740.9	5542.8	5385.6	5186.0	5686.6	6670.6
17405.3	6605.8	6535.9	7010.2	8164.5	6405.1	6288.0	6292.9	10355.7	8891.0	9952.9
743.2	840.6	963.8	1114.4	1253.6	1089.6	994.4	2555.0	637.5	303.0	773.2
429.2	3493.8	3345.3	3563.4	4454.6	3800.1	4134.6	3846.9	2935.0	3131.8	3723.8
1392.7	1473.8	1595.7	1714.0	1728.2	1563.0	2035.2	1698.5	1570.3	1287.1	2195.0
120.7	1308.9	1662.6	1382.6	1292.8	1573.0	1656.3	1928.2	1006.8	2318.9	1142.2

3540.5	3740.4	4176.0
1299.0	1669.2	1266.8
5607.7	5484.4	4941.5
3833.0	4670.7	4182.1
3136.9	2391.4	3709.5
2799.4	4232.9	5996.0
1584.0	1640.6	826.5
2786.7	3753.2	2685.3
1544.6	1549.2	837.5
3211.0	2680.1	2738.7
1383.7	1294.2	945.1
3180.4	2987.1	2793.7
279.1	628.6	196.8
5234.9	4979.4	6846.8
696.8	824.8	717.4
4254.4	4368.4	4168.8
2378.1	2084.6	1522.1
4845.1	4039.5	3436.6
650.9	486.6	731.2
521.3	769.7	533.0
2938.8	2958.2	3273.1
1286.8	1232.5	832.8
1361.8	646.7	599.5
3432.2	3528.8	3768.8
6842.1	7272.3	6249.7
2698.7	3395.0	2893.6
2169.9	2170.8	1751.1
2973.7	2137.3	1566.9
534.5	1142.5	727.9
1908.7	2082.1	1606.9
2821.8	1991.2	1809.5
6497.3	7080.9	5047.3
319.6	351.7	220.6
1423.5	1558.9	1406.0
4784.2	4349.9	5402.7
4603.2	6158.2	5524.4
6433.7	8151.3	5682.1
1892.1	1735.5	1593.8
2642.4	3715.6	3489.1
1664.3	2324.8	1895.5
1574.9	1397.6	910.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__Halomonadaceae
o__Oceanospirillales	f__HOC21
o__Oceanospirillales	f__HOC21
o__Oceanospirillales	f__HOC21
o__Oceanospirillales	f__HOC21
o__Oceanospirillales	f__HOC21
o__Oceanospirillales	f__HOC21
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2089

g__Kushneria
g__Kushneria
g__Salicola
g__Salicola
g__Salicola
g__Salicola
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	56703
s__unclassified	57501
s__Salicola marasensis	632
s__unclassified	1646
s__unclassified	222
s__unclassified	2278
s__unclassified	1216
s__unclassified	1377
s__unclassified	1578
s__unclassified	2169
s__unclassified	365
s__unclassified	40
s__unclassified	465
s__unclassified	56466
s__unclassified	57185
s__unclassified	57207
s__unclassified	57289
s__unclassified	57539
s__unclassified	57649
s__unclassified	815
s__unclassified	916
s__unclassified	1244
s__unclassified	1355
s__unclassified	2179
s__unclassified	3304
s__unclassified	3700
s__unclassified	3876
s__unclassified	1279
s__unclassified	2306
s__unclassified	2414
s__unclassified	2457
s__unclassified	2485
s__unclassified	2601
s__unclassified	2667
s__unclassified	2695
s__unclassified	2729
s__unclassified	2756
s__unclassified	2834
s__unclassified	2930
s__unclassified	3166
s__unclassified	3181

GQ375779.1 gg_id:581670 Halomonas sp. str. D02 GQ375
AM941746.1 gg_id:277216 Kushneria aurantia str. A10 AM941
DQ087259.1 gg_id:132883 Salicola marensis 7Sa10 DQ087
GU397403.1 gg_id:515060 Salicola marasensis str. W4B GU397
DQ129689.1 gg_id:137579 Pseudomonas salina str. B2 DQ129
GU397402.1 gg_id:522270 Salicola salis str. W7B GU397
AF211871.1 gg_id:55625 Zymobacter palmae str. ATCC 51623 AF211
EU735693.1 gg_id:354231 archaeal structures oil contaminated and soils China pristine soil Jidong Oilfield clone EU735
DQ072719.1 gg_id:134569 Halospina denitrificans str. HGD 1-3 DQ072
D14555.1 gg_id:8114 Zymobacter palmae str. T109 D1455
AB021383.1 gg_id:8811 Pseudomonas halophila str. DSM 3050T AB021
EU305727.1 gg_id:340031 Pseudomonas sp. str. TBZ33 EU305
AY987840.1 gg_id:128215 Microbial Salterns Maras salterns clone 2B4 AY987
GQ375775.1 gg_id:564683 Chromohalobacter sp. str. B02 GQ375
EU308410.1 gg_id:368617 Halomonas sp. str. TB21_12 EU308
DQ641495.1 gg_id:215031 Chromohalobacter tunisiensis str. Lit 2 DQ641
GQ246216.1 gg_id:578822 Kushneria sp. str. YCWA18 GQ246
FJ463811.1 gg_id:580770 Chromohalobacter sp. str. ST307 FJ4638
FJ444986.1 gg_id:554249 Halomonas taeanensis str. whb40 FJ4449
EU735657.1 gg_id:309472 archaeal structures oil contaminated and soils China pristine soil Jidong Oilfield clone EU735
DQ421388.1 gg_id:156429 Halotalea alkalilenta str. AW-7 DQ421
EU487856.1 gg_id:568866 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU487
EU487858.1 gg_id:570303 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU487
EF508132.1 gg_id:241778 evidence unusual symbiont gills Acesta excavata bivalve gill specimen Ae1 320 m dep EF5081
AB054156.1 gg_id:48284 marine sponge clone HOC22 AB054
AB054159.1 gg_id:35099 marine sponge clone HOC25 AB054
FJ999614.1 gg_id:420931 sponge Haliclona simulans South China Sea clone B96 FJ9996
EF379881.1 gg_id:216695 sea water Victoria Harbor (Hong Kong) area clone PC-FL10-68 EF3798
EU799754.1 gg_id:306969 It's all ranking aquatic Newport Harbour RI clone 1C227399 EU799
AM259847.1 gg_id:210420 Spatial sponge- Mediterranean Tethya aurantium sponge cortex clone TAA-10-33 AM259
AY907757.1 gg_id:137084 identification picoplankton contrasting waters Arabian Sea water clone A314008 AY907
AY907755.1 gg_id:137083 identification picoplankton contrasting waters Arabian Sea water clone A314005 AY907
DQ513029.1 gg_id:161219 Microbial life fluids ridge flank crustal fluid clone FS142-29B-02 DQ513
EU287155.1 gg_id:243868 Pacific arctic surface sediment clone P13-62 EU287
EF572288.1 gg_id:228537 Coco's Island site 23 marine clone S23_387 EF5722
DQ289914.1 gg_id:167947 Microbial Carbon and Nitrogen Cycling Sediments South Atlantic Bight Permeable Sh DQ289
EU979089.1 gg_id:329740 Effects intercropping Rhizobium inoculation on microbial biomass and rhizosphere b EU979
EF574537.1 gg_id:239885 site S25 near Coco's Island marine clone S25_881 EF5745
AM259920.1 gg_id:237509 Chondrilla nucula-specific sponge mesohyl clone CN46 AM259
AY386332.1 gg_id:98593 marine str. HTCC2089 AY3863
EF061958.1 gg_id:181469 Xiamen China mangrove sediment clone XME25 EF0619

35.9	873.2	1317.1	1213.0	846.2	2012.7	780.4	1221.2	315.5	3242.8	406.0
1384.0	3251.5	3827.7	4166.1	5201.6	3688.1	3110.6	5386.9	2901.0	3029.2	2104.8
1632.3	1721.7	1976.4	2249.3	2436.0	1920.9	2148.7	1867.9	1649.2	2421.1	1720.8
2611.5	1559.6	1726.1	2287.2	2157.6	1904.7	3323.4	2109.5	1022.8	5456.8	1165.3
1669.9	3195.0	3537.6	3894.7	3822.9	3325.6	3877.1	3052.9	3066.4	3569.0	4376.2
648.4	2036.5	2171.9	2399.4	2913.6	2496.4	3000.2	2199.2	2248.5	2885.7	2301.5
75.3	943.5	1103.1	950.5	1116.2	952.2	1073.2	1179.6	678.0	679.2	720.5
734.5	2546.4	2619.9	2634.9	2908.0	2750.0	3423.4	3772.8	1953.1	2034.5	2384.0
3375.3	4753.0	4968.4	5465.1	5638.3	5689.6	5600.3	5579.0	4884.3	6958.4	3879.9
4649.0	5208.1	4433.0	5005.6	5399.9	4508.7	3700.9	4133.4	6514.5	3370.3	6616.8
2188.3	3647.0	3632.8	3793.6	4056.4	4030.2	4304.9	4951.0	3133.1	3093.8	2633.8
4706.0	3969.4	4132.3	4325.2	4163.8	4798.7	4457.0	5913.9	3805.3	3322.7	3218.5
34.9	155.3	261.8	299.9	168.2	131.6	92.0	181.5	41.7	41.0	70.4
8043.0	4875.0	4882.5	6061.4	4516.4	5336.3	4522.6	6465.9	4653.1	6737.4	5244.5
66.0	1218.8	1168.2	1274.3	1381.3	979.0	1170.3	1307.0	596.8	1252.1	364.3
171.1	2874.7	3348.6	3300.7	4278.4	4397.8	3431.3	3680.7	1693.6	5060.6	1992.6
810.2	4526.0	4638.7	4878.9	5983.0	4883.1	6013.1	5376.1	4233.8	6081.1	3418.9
723.4	2347.6	2873.7	2719.9	3003.1	3627.4	1872.8	3581.3	1354.1	3184.8	1898.4
671.3	2469.6	2817.3	3235.6	3424.7	2472.0	2816.6	3709.6	2161.6	2036.0	1467.7
838.9	1762.4	1679.5	2279.8	2677.7	2267.9	3050.9	3277.2	1036.2	849.5	2355.7
3616.8	2337.2	2959.4	2807.2	3635.0	2275.7	4303.5	3653.7	2193.0	446.8	1617.8
2881.7	2358.5	1908.7	857.1	913.4	2133.5	1292.7	1209.4	2628.2	998.2	528.7
738.7	2115.6	2137.2	1305.3	1166.5	2343.3	1955.0	2422.2	1737.1	2126.5	715.5
270.7	4057.7	4813.6	4652.9	4195.8	3790.1	4417.8	4996.6	2614.0	1287.8	3913.0
737.6	3802.0	3451.1	2858.2	4033.9	3527.1	3777.9	4207.5	3879.8	2628.7	3273.2
7330.2	4170.4	3942.0	4531.7	3937.7	4355.6	3930.1	5261.5	3967.9	4009.8	4599.2
4985.4	5101.3	6400.8	6439.6	5383.3	6651.8	6272.5	5975.5	6641.8	8899.8	6257.7
1906.8	3558.2	3996.8	3891.5	5523.1	4882.3	4218.4	4897.5	2848.1	3066.2	3344.2
483.6	1373.0	1470.1	1669.8	1779.4	1788.0	1633.2	2170.0	928.6	1602.0	1719.9
3650.5	2070.7	1882.8	2064.7	2005.1	1975.0	368.6	1920.2	1890.2	1168.2	2256.3
286.1	3019.1	3958.1	2718.3	2810.9	3351.4	2625.5	3707.5	1890.9	2250.7	2243.7
18003.1	6569.9	5821.9	5500.2	5280.7	5650.7	5475.7	5907.6	6523.1	5033.0	6871.6
74.3	302.4	388.7	370.5	404.1	317.8	471.7	321.5	349.5	471.3	194.7
237.3	1165.8	1311.7	1424.6	1562.2	2081.5	1347.0	2119.9	605.4	3380.3	818.6
106.4	3959.2	2513.4	2799.2	2591.6	2793.7	3125.7	3215.7	3353.4	3943.7	2172.4
69.5	1716.5	1815.5	2071.4	2152.3	1857.7	2658.0	1592.8	282.6	1799.7	986.1
1777.6	5474.4	5609.0	5551.0	6241.1	6084.5	5910.4	5942.3	5496.0	4385.8	5047.6
2151.0	2940.6	3674.9	3867.5	3328.9	3784.4	3370.7	3982.0	3737.2	4997.0	3276.7
95.1	363.8	554.4	494.7	566.3	421.7	722.5	502.4	185.9	135.4	340.1
113.9	401.5	438.1	497.4	898.2	601.2	656.4	598.9	195.0	1005.0	150.6
106.4	85.6	99.9	127.7	137.8	94.5	121.9	88.2	64.4	63.3	53.6

1342.9	1560.3	896.2
4215.7	5078.7	1852.5
1980.6	2221.4	1452.3
1871.0	1784.1	1456.3
3225.6	3734.3	2545.2
2167.0	2317.7	2136.0
1209.6	1149.6	885.8
3009.9	3029.6	3051.6
6137.0	6778.3	5514.9
4175.8	4849.8	4124.2
4168.4	4372.7	4773.9
4798.6	5568.1	5151.8
145.9	143.4	262.8
4912.4	6066.1	5427.7
960.4	1602.4	824.1
4150.3	4548.9	4176.6
5338.1	5491.2	5049.5
3286.6	4191.2	2983.0
3120.6	2705.9	1708.0
2257.3	2648.8	2662.8
2903.8	2778.5	1972.9
1131.7	1283.2	1033.8
2180.0	1267.6	1214.0
4050.5	5107.1	3845.8
3137.6	4081.2	3880.2
5174.5	4540.4	5710.4
5746.3	5954.1	5776.0
4921.7	4692.2	4563.0
1639.7	1829.2	1512.0
1846.7	1921.7	1510.5
3064.4	4016.1	2873.3
5316.8	6478.3	4683.6
295.2	650.5	330.2
1883.7	1767.2	2166.6
2351.7	3027.2	3405.3
2043.8	977.8	1652.0
6168.5	6061.7	6658.4
4741.5	4087.2	3993.2
440.4	479.8	349.2
1150.8	724.2	555.6
82.2	104.1	76.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__HTCC2089
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__HTCC2188
o__Oceanospirillales	f__J115
o__Oceanospirillales	f__J115
o__Oceanospirillales	f__J115
o__Oceanospirillales	f__Litincolaceae
o__Oceanospirillales	f__Litincolaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Litincola
g__unclassified
g__Amphritea
g__Amphritea
g__Marinobacterium
g__Marinobacterium
g__Marinobacterium
g__Marinobacterium
g__Marinobacterium
g__Marinobacterium
g__Marinomonas
g__Marinomonas

s__unclassified	3213
s__unclassified	1021
s__unclassified	1196
s__unclassified	1591
s__unclassified	1605
s__unclassified	1719
s__unclassified	1826
s__unclassified	1848
s__unclassified	186
s__unclassified	1863
s__unclassified	1961
s__unclassified	2076
s__unclassified	2088
s__unclassified	2138
s__unclassified	2154
s__unclassified	2233
s__unclassified	376
s__unclassified	404
s__unclassified	579
s__unclassified	604
s__unclassified	668
s__unclassified	688
s__unclassified	691
s__unclassified	797
s__unclassified	902
s__unclassified	99
s__unclassified	1659
s__unclassified	2242
s__unclassified	543
s__unclassified	1469
s__unclassified	1134
s__unclassified	1291
s__unclassified	587
s__unclassified	111
s__unclassified	1283
s__unclassified	1804
s__unclassified	1874
s__unclassified	2032
s__unclassified	816
s__Marinomonas aquimarina	1715
s__Marinomonas mediterranea	1151

FM242299.1 gg_id:336560 sequences sediment clone 29 T9d-oil FM242
EU887784.1 gg_id:317155 and RFLP anaerobes Nisargruna biogas plant anaerobic digester clone 21IISN EU887
AY212672.1 gg_id:104571 water 20 m downstream manure clone 224ds20 AY2126
DQ354722.1 gg_id:152853 subsurface water clone DR550SWSAEE23 DQ354
EU373830.1 gg_id:262549 southern Cretan margin (eastern Mediterranean Sea) canyon and slope sediment clc EU3738
DQ351750.1 gg_id:146687 Microbial Adherent Sediment Particles Heavy Metal Contaminated North Sea Surfac DQ351
EF157250.1 gg_id:235311 Microbial natural asphalts rancho la brea heavy oil seeps Rancho La Brea tar pits clon EF1572
AY344367.2 gg_id:91272 Lake Kauhako 30 m clone K2-30-25 AY3443
GU061024.1 gg_id:543804 Evaluation culturing methods cultivate previously Yel Sea intertidal beach clone SF2! GU061
GQ337269.1 gg_id:532913 Hydrography shapes biogeography deep Arctic Ocean water depth 428m clone CB18 GQ337
GQ349203.1 gg_id:544164 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
FM242421.1 gg_id:315848 sequences sediment clone 18 T12d-oil FM242
EU265950.1 gg_id:536666 transition and zone within near-shore anoxic basin: Nitinat Lake depth 20 m clone Ni EU2659
EU801454.1 gg_id:316013 It's all ranking aquatic Chesapeake Bay MD clone 3C002749 EU8014
AB262385.1 gg_id:160146 Microbial Ishigaki-jima Island Japan sea water Ishigaki Port clone IG-1-25 AB2623
GQ259231.1 gg_id:514087 Microbial activities coastal marine sediments and column Svalbard deep water clone GQ259
EU592358.1 gg_id:583231 Seasonal changes Salton Sea hypersaline water clone SSW83Ap EU5923
EU050827.1 gg_id:246352 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_06_91 EU0508
EU491768.1 gg_id:263897 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU4917
EU799676.1 gg_id:306629 It's all ranking aquatic Newport Harbour RI clone 1C227304 EU7996
GQ349449.1 gg_id:588121 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
AY907800.1 gg_id:137086 identification picoplankton contrasting waters Arabian Sea water clone A714013 AY9078
EU803061.1 gg_id:332281 It's all ranking aquatic Northeast Colon Panama clone 4C230470 EU8030
AY942761.1 gg_id:145162 but species richness marine sponge Cymbastela concentrica clone Cc044 AY9427
EU544859.1 gg_id:264271 free-living particle- aggregate- archaeal and Laptev Sea >60 um size fraction (aggreg EU5448
EU799735.1 gg_id:324875 It's all ranking aquatic Newport Harbour RI clone 1C227378 EU7997
AB526337.1 gg_id:546239 Spongiibacter sp. str. JAM-GA14 AB5263
AM990674.1 gg_id:278054 culturable oligotrophic ocean (South Pacific Gyre) sea water AM990
FJ889619.1 gg_id:559242 Melitea sp. str. ZS5-23 FJ8896
EF176580.1 gg_id:181920 Litincola lipolitica str. IMCC1097 EF1765
FJ745130.1 gg_id:565326 Transporter genes expressed coastal response dissolved organic carbon surface wate FJ7451
EU652550.1 gg_id:278194 Seasonal variation microbial Yel Sea sediment clone A8S-109 EU6525
AM930471.1 gg_id:275885 involved Tripneustes gratilla (Echinoidea) cloning and FISH host body wall lesions clc AM930
AB006765.1 gg_id:8206 Marinobacterium jannaschii str. IFO15466 AB0067
FN556570.1 gg_id:514502 Marinobacterium sp. str. JW3.2b FN5565
FJ202983.1 gg_id:326600 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2029
DQ219356.1 gg_id:142532 Marinobacterium sp. str. 2085(b) DQ219
EF190070.1 gg_id:193559 s Qinghai oilfield clone GSX3 EF1900
AY563030.1 gg_id:100162 Marinobacterium halophilum str. Mano11 AY5630
AJ843079.1 gg_id:114569 Marinomonas aquimarina str. 11OM3 = CECT 5078 AJ8430
EU188448.1 gg_id:366487 Marinomonas sp. str. IVIA-Po-101 EU1884

415.0	2097.6	2804.3	3623.0	2119.7	1737.3	3156.5	2988.7	951.6	991.9	1684.5
1029.0	3873.9	4241.9	4448.2	4956.0	5116.5	4424.3	5412.1	4098.8	6573.4	4550.3
553.6	2707.8	2371.6	1806.0	1373.8	2432.7	1288.2	2101.2	1453.3	3764.4	1444.1
3873.4	4211.4	4711.0	5224.4	4655.0	5370.3	4322.3	5373.5	5301.6	6386.9	5215.6
15238.5	3595.6	3774.7	4037.8	4252.1	4153.0	6558.6	4431.7	6357.2	5637.5	4607.7
78.2	626.6	794.2	704.4	1265.9	795.2	1690.6	786.0	463.5	234.8	593.4
1574.5	3440.8	3053.7	3866.2	4017.3	4828.2	4722.9	4170.6	2824.1	3044.5	2634.2
1031.4	910.8	1082.0	1048.7	1467.1	1215.8	2380.4	1986.4	964.0	1287.4	1557.0
20362.3	5715.3	6032.1	6972.8	6365.3	5552.5	6754.9	6284.3	5985.9	2841.3	6451.4
791.8	723.0	867.4	1181.0	883.7	1021.1	1079.1	1228.7	1095.5	613.7	702.4
3884.8	2601.8	2592.5	2153.0	2447.4	2804.2	3094.2	2612.2	1404.1	2494.5	866.9
193.5	2184.9	2816.9	2651.2	2945.9	2654.8	3573.1	3757.7	1063.0	1251.7	3462.5
2374.1	4283.8	4505.2	4973.7	2349.4	4250.6	4590.2	5282.5	2635.4	1967.1	4587.5
8797.1	9140.8	8735.7	10053.1	9918.7	10280.3	10491.2	11243.4	10007.8	9092.1	10057.1
7466.8	5046.1	6762.8	8075.7	4725.4	6460.4	7155.9	4834.8	6560.9	6800.5	7135.7
3398.9	1555.9	1279.4	1547.4	1178.5	1493.8	1351.7	1313.1	2400.9	970.8	1464.6
4013.4	3438.4	3397.3	3477.5	4286.6	3962.5	4323.4	3990.0	3887.9	3959.8	3608.6
4945.8	3169.2	2872.5	3149.3	2917.7	2985.8	3874.5	4377.9	3884.1	3793.7	6717.2
601.6	4213.4	4633.3	3999.9	4067.9	4065.7	3496.8	5278.5	4479.5	6058.3	3648.6
10656.9	7893.1	7385.2	8490.4	9193.4	7888.1	10303.4	11494.2	7785.4	9810.4	11724.8
13747.9	8063.3	9524.0	10005.8	8377.1	9555.7	9442.9	10049.5	8874.3	9892.5	12470.7
975.3	3333.4	3985.6	3470.6	4572.5	3457.5	5190.8	3393.1	3016.5	2696.8	3743.4
46.7	123.5	190.5	184.8	369.9	203.9	476.0	365.7	97.9	54.2	94.5
37.5	283.8	282.4	271.0	387.6	325.1	200.1	399.4	131.7	318.5	121.3
16203.8	7797.5	7401.4	7694.6	8574.7	7822.9	7929.2	6906.2	8492.3	7322.9	9528.6
1226.8	3228.8	3042.8	3059.1	3182.5	3928.1	3606.8	3879.5	2169.6	2834.3	2196.3
2182.2	3961.6	4452.6	5196.2	4552.4	4716.4	4314.6	5903.2	4365.4	4303.3	3220.8
84.2	1572.2	2456.3	2958.1	1318.8	1641.4	2450.4	3118.9	1551.1	788.0	1647.3
3321.3	5341.2	4565.9	5968.3	4690.9	4816.1	5214.2	5984.1	4974.9	3875.7	3249.9
291.9	624.9	723.6	784.6	971.7	844.9	788.4	857.8	554.5	504.9	633.8
197.3	1670.0	1694.6	2464.4	2553.7	1231.3	3055.8	2007.1	784.3	324.0	976.5
121.2	1161.3	1923.7	1906.1	1202.0	1443.5	1254.8	2004.4	1730.4	748.5	1109.7
59.3	97.0	242.2	165.9	98.9	92.0	143.3	386.3	124.9	42.8	64.0
6633.0	4617.2	4900.1	5603.4	4455.8	5443.0	4386.9	5406.3	3749.1	4460.2	5465.4
64.8	869.3	1024.0	884.7	470.8	1341.4	376.1	1656.7	735.8	1196.2	846.9
2763.9	4867.3	4839.2	4263.6	5108.7	5333.8	6155.5	5229.3	4642.8	3452.3	3519.3
4511.0	3587.7	2509.8	2903.6	3097.9	3241.6	4084.6	3638.5	3059.2	2394.5	2895.9
34.9	304.0	466.9	492.9	602.0	510.1	390.5	963.7	403.1	557.8	270.6
4415.4	9086.1	8176.8	8423.2	6925.7	9998.7	9526.4	10787.6	11656.0	7997.9	8746.1
143.5	2445.9	2725.2	2550.8	3036.2	2847.6	2493.8	3084.8	1785.5	2891.9	1415.1
266.0	1187.2	1440.5	1604.5	1767.3	2237.4	1429.0	2699.9	1405.4	1645.4	1535.7

2269.8	2746.8	2901.7
5924.2	5393.5	4734.4
2283.3	2335.4	1833.1
5487.8	5474.5	4606.1
3727.2	4939.7	4702.5
968.3	975.4	705.4
4847.7	4734.6	3635.6
1864.5	1327.1	765.8
6011.3	6247.5	6037.5
900.5	1075.2	1060.0
3825.8	2502.3	1955.5
3162.5	3174.0	2110.4
4920.8	3043.0	3510.1
11019.8	9908.7	10582.6
6128.9	7311.7	4954.8
1642.0	2110.7	1384.6
3746.9	4571.9	3471.1
4014.9	3854.9	2462.9
4767.4	4937.5	3877.8
11173.0	9981.2	7975.2
9758.5	9770.0	8141.6
3571.5	3759.5	4180.3
276.8	224.7	253.1
371.7	419.9	657.3
6541.5	6590.4	6231.3
4000.7	4313.1	4014.8
6322.3	4911.0	4238.8
2650.8	2091.0	2429.4
5742.1	4802.7	4185.9
864.8	1080.1	828.4
2679.1	2228.1	2379.1
1927.9	2127.6	1755.7
206.1	121.0	108.9
5197.9	6222.7	3646.8
1298.6	1537.2	524.3
4550.3	4637.0	4377.0
3790.7	2739.6	4009.2
741.1	925.4	271.3
10920.3	9262.4	8678.0
2709.1	2258.0	2248.3
2349.2	2750.9	1243.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae

g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinomonas
g__Marinospirillum
g__Marinospirillum
g__Marinospirillum
g__Neptunomonas
g__Neptunomonas
g__Neptunomonas
g__Neptunomonas
g__Nitrincola
g__Nitrincola
g__Oceanospirillum
g__Oceanospirillum
g__Oceanospirillum
g__Oceanospirillum

s__Marinomonas primoryensis	1152
s__Marinomonas sp. MED121	1121
s__unclassified	1025
s__unclassified	1183
s__unclassified	1297
s__unclassified	1379
s__unclassified	1453
s__unclassified	1557
s__unclassified	1693
s__unclassified	1702
s__unclassified	2102
s__unclassified	2121
s__unclassified	2136
s__unclassified	2146
s__unclassified	2234
s__unclassified	366
s__unclassified	372
s__unclassified	48
s__unclassified	516
s__unclassified	531
s__unclassified	541
s__unclassified	693
s__unclassified	733
s__unclassified	753
s__unclassified	789
s__unclassified	814
s__unclassified	879
s__unclassified	929
s__Marinospirillum insulare	1598
s__unclassified	1293
s__unclassified	1486
s__Neptunomonas japonica	399
s__unclassified	1106
s__unclassified	1324
s__unclassified	911
s__unclassified	1437
s__unclassified	1875
s__Oceanospirillum maris	915
s__unclassified	1252
s__unclassified	1340
s__unclassified	834

NR_028636.1 gg_id:582426 Marinomonas primoryensis str. KMM 3633 NR_02
DQ403809.1 gg_id:150764 Marinomonas blandensis str. MED 121 DQ403
EU195937.1 gg_id:248961 Marinomonas sp. str. P111 EU195
AJ238597.1 gg_id:8210 Marinomonas protea AJ2385
EU722311.1 gg_id:354249 Marinomonas sp. str. S3-34 EU722
EF382680.1 gg_id:209816 Marinomonas sp. BSi20579 str. Bsi20579 EF3826
DQ311094.1 gg_id:144989 Marinomonas sp. str. NJ548 DQ311
DQ517862.1 gg_id:160848 Marinomonas sp. str. BSi20385 DQ517
AB074194.1 gg_id:52278 Marinomonas primoryensis str. KMM 3634 AB074
DQ421580.2 gg_id:208776 Salt Marsh Prokaryotes salt marsh clone SIMO-4215 DQ421
AJ627909.1 gg_id:103719 Marinomonas ushuaiensis str. U1 AJ6279
AY539835.1 gg_id:101289 Marinomonas pontica str. 46-16 AY5398
DQ011528.1 gg_id:120729 Marinomonas communis str. LMG 2864 DQ011
DQ923437.1 gg_id:174575 Marinomonas sp. W-3 DQ923
AB242868.1 gg_id:142302 Marinomonas sanya str. F128 AB2428
AY730245.1 gg_id:101261 Marinomonas sp. M6-20A AY730
AF321017.2 gg_id:30213 Marinomonas sp. GOBB3-320 AF321
EU188447.1 gg_id:362695 Marinomonas sp. str. IVIA-Po-159 EU188
AJ717294.1 gg_id:105555 Marinomonas sp. str. BJK13 AJ7172
NR_029228.1 gg_id:554750 Marinomonas vaga str. 40; ATCC 27119 NR_02
DQ676859.1 gg_id:172752 Marinomonas sp. str. ASs2032 DQ676
DQ007439.1 gg_id:124798 Marinomonas sp. str. BSi20101 DQ007
EU427306.1 gg_id:274342 Marinomonas sp. MSI03 EU427
EU188443.1 gg_id:359821 Marinomonas sp. str. IVIA-Po-145 EU188
EU188441.1 gg_id:362238 Marinomonas sp. str. IVIA-Po-185 EU188
DQ520888.1 gg_id:161293 Marinomonas sp. str. BSi20461 DQ520
DQ517876.1 gg_id:160773 Marinomonas sp. str. BSi20548 DQ517
DQ537501.1 gg_id:160057 Marinomonas sp. str. BSi20388 DQ537
AB098513.1 gg_id:75039 Marinospirillum insulare str. NB11 AB098
AB006769.1 gg_id:8111 Marinospirillum minutulum str. ATCC19193 AB006
AB006770.1 gg_id:8112 Marinospirillum megaterium AB006
AB291228.1 gg_id:246798 Neptunomonas japonica str. JAMM 1610 AB291
FJ889618.1 gg_id:544882 Neptunomonas sp. str. NF4-29 FJ8896
AB288092.1 gg_id:239047 Neptunomonas japonica str. JAMM 0745 AB288
AF053734.1 gg_id:8190 Neptunomonas naphthovorans str. NAG-2N-126 AF053
FJ764762.1 gg_id:570916 Nitrincola sp. str. E-048 FJ7647
FJ973520.1 gg_id:440184 Nitrincola lacisaponensis str. NBSL11 FJ9735
AB006763.1 gg_id:8178 Oceanospirillum maris subsp. williamsae str. IFO15468 AB006
AB006764.1 gg_id:8176 Oceanospirillum multiglobuliferum str. IFO13614 AB006
AB006761.1 gg_id:8184 Oceanospirillum beijerinckii subsp. pelagicum str. IFO13612 AB006
FJ403091.1 gg_id:367944 Disease- changes healthy and diseased colonies Caribbean coral Montastrea faveolat FJ4030

1631.5	3223.8	4205.7	3887.8	2298.3	4357.5	2050.5	6533.0	5200.7	2762.0	3600.7
44.0	162.8	297.0	272.0	144.3	202.7	130.9	315.1	120.1	58.8	133.6
100.7	1449.4	2158.7	2067.9	1599.7	3157.6	1930.6	3071.4	1925.1	4497.1	1263.1
448.5	4922.4	4970.0	4971.6	3660.8	6625.6	2862.6	6758.8	5576.3	5034.1	3346.1
91.3	777.7	1034.9	1153.9	1036.7	1301.9	1065.1	1052.1	1192.9	2110.2	550.7
31057.3	5661.6	5895.3	6650.8	8141.5	8437.9	5202.0	8411.9	7988.7	12098.7	4901.5
139.3	2108.4	2120.1	2234.8	2001.7	3171.1	1345.0	3274.7	2162.9	3334.8	1597.6
468.5	2595.2	3202.2	3307.1	3878.6	3240.3	3269.9	4139.0	2344.9	3262.5	2595.7
174.6	3464.3	4362.3	4185.5	2745.1	5054.6	1668.6	7035.8	5085.3	3662.4	3420.6
109.5	615.8	733.8	737.5	954.4	1014.2	1085.9	864.4	286.9	543.6	327.1
165.9	1489.0	1425.6	1289.4	1131.0	1931.9	628.5	1779.1	1139.9	3662.2	1125.8
892.8	3800.4	3616.2	3507.6	2425.1	5240.6	2304.2	3675.9	3143.3	5191.0	1966.4
2434.5	2562.8	2981.7	3417.3	3407.2	2845.3	3056.9	2801.1	2306.5	1597.3	2478.6
58.8	2329.2	2686.0	2107.6	1261.2	2846.0	735.2	3518.8	2830.7	2650.4	1569.1
335.3	984.1	1270.1	1130.7	1380.4	1191.5	977.5	1860.9	820.9	238.8	721.2
251.8	3021.7	2745.4	2863.0	2250.7	2876.9	2443.8	3420.3	2607.4	5808.1	1324.5
21844.9	7392.4	6892.4	7816.1	6408.3	7237.2	5992.0	7808.9	10620.3	11935.5	9548.8
1075.1	3192.5	3365.8	3510.2	3633.8	3389.0	2972.9	4683.2	4243.3	7291.9	2613.4
120.4	4163.4	3986.1	4554.0	3764.3	5445.3	2259.2	5357.9	3343.8	10287.8	2904.6
37.4	94.4	173.0	119.4	98.1	128.3	86.0	126.0	57.1	161.1	74.2
182.2	1129.8	1179.8	1296.1	1345.6	1757.6	954.6	1754.3	1075.2	1447.2	682.0
31.3	275.1	308.5	315.8	585.2	1100.1	384.5	662.6	180.9	38.3	139.5
94.7	2631.8	3310.4	3176.7	1899.7	3935.1	1303.7	5367.5	3865.6	2940.1	2529.0
45.1	2296.1	2710.3	2521.6	1059.3	3217.8	1407.7	3467.1	2269.6	2639.0	1324.6
3887.7	3700.1	4308.1	4313.2	4726.3	4791.1	4476.1	5742.0	4594.6	6449.5	3426.6
220.2	1871.6	2348.7	2131.6	2267.7	2327.0	2086.3	3113.2	1410.7	2052.8	1835.4
1048.8	4688.8	5153.4	4847.5	3832.0	4972.6	4128.7	6845.4	5573.5	6576.4	3771.5
14849.1	4175.2	4618.0	4716.0	4155.9	5023.0	3489.3	5803.0	5215.3	6772.3	3907.7
518.4	3183.2	4473.4	3894.0	2867.2	4580.8	4104.0	5553.2	4041.2	5059.1	4780.8
2112.7	4037.5	4460.4	4693.0	5029.4	6333.8	5938.6	9967.3	3901.4	5271.4	5562.9
77.3	1835.2	1930.1	1817.5	1749.5	2553.2	1867.4	3700.7	602.1	987.0	829.2
223.9	2037.1	2428.2	2337.9	2879.8	2663.1	2204.8	2481.5	1577.7	2643.1	1582.2
296.4	4880.7	5466.2	5956.0	4713.0	6042.3	2841.6	6375.8	6704.0	8299.0	4217.9
524.6	1920.0	2206.4	2374.7	3402.1	2499.6	2641.5	2697.8	1387.3	949.7	890.9
390.0	1649.3	1710.7	2238.9	1701.8	2063.7	3173.0	2420.5	1420.6	2623.9	1334.2
602.5	3337.0	3507.4	3245.0	4203.7	4776.8	2688.8	5346.3	3234.8	8017.2	3835.8
11350.8	4397.0	4579.4	4798.2	5036.2	4887.1	4883.9	5432.5	5171.9	5141.6	4797.2
127.0	1660.3	2629.2	2828.2	1357.5	2364.7	2048.1	4388.2	1913.2	1220.7	2390.1
8120.8	3901.4	4055.8	4004.3	3272.8	4125.7	4214.9	4776.4	4625.5	6762.9	3621.6
2460.7	2515.2	2750.5	3583.3	2439.0	2688.8	3834.1	3439.2	1777.2	1192.3	1810.6
1647.0	2283.4	3200.1	3253.2	3164.4	3436.4	2839.0	3414.5	1711.1	2817.6	1859.2

5385.3	6574.7	2503.5
466.6	261.3	84.4
3871.7	2776.8	1615.3
5897.4	6946.7	3429.3
1436.5	1722.7	1257.3
9146.4	9478.0	5568.8
3196.3	3840.3	2371.9
3638.8	3327.2	3617.8
5770.3	6921.7	3084.6
1309.3	736.1	1209.6
2064.2	2235.5	1103.9
4115.0	4245.9	1298.6
2700.4	2976.4	3489.2
3256.6	3852.6	1443.5
1140.9	1223.1	1026.8
3253.0	2279.2	1647.7
6729.9	8284.3	6219.5
4257.9	3718.8	2069.5
4870.0	4445.2	3901.5
120.2	262.7	91.0
1785.7	2801.2	1622.7
508.9	954.3	852.1
4562.1	5506.9	2363.3
3566.6	2256.6	1252.2
5273.6	5310.6	4790.7
2511.2	2693.7	1915.3
6029.5	5852.1	3947.1
5602.2	6377.7	3720.9
4600.4	4810.5	2754.8
5769.5	5536.9	4740.7
2171.2	2104.7	1272.7
1907.6	1913.2	2161.8
6169.8	6875.1	5764.3
2122.8	2117.9	2600.9
2988.1	2810.7	1514.6
4497.2	4862.0	2845.0
4591.7	5359.0	4685.5
3375.4	2374.5	1686.5
5213.2	4993.9	4013.5
2969.4	2733.5	2900.7
4289.2	3978.6	3488.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae

g__Oleibacter
g__Oleibacter
g__Oleibacter
g__Oleibacter
g__Oleibacter
g__Oleibacter
g__Oleibacter
g__Oleibacter
g__Oleibacter
g__Oleispira
g__Oleispira
g__Oleispira
g__Oleispira
g__UMB6E
g__UMB6E
g__UMB6E
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__Oleibacter marinus	1266
s__unclassified	1236
s__unclassified	1526
s__unclassified	1780
s__unclassified	1792
s__unclassified	576
s__unclassified	802
s__unclassified	94
s__unclassified	991
s__unclassified	1412
s__unclassified	1586
s__unclassified	1706
s__unclassified	52
s__proteobacterium symbiont of Osedax frankpressi	45
s__proteobacterium symbiont of Osedax sp. MB3	732
s__proteobacterium symbiont of Osedax sp. MB4	2182
s__unclassified	1046
s__unclassified	120
s__unclassified	1286
s__unclassified	1336
s__unclassified	1457
s__unclassified	1548
s__unclassified	1558
s__unclassified	1637
s__unclassified	1671
s__unclassified	1735
s__unclassified	1754
s__unclassified	1871
s__unclassified	2008
s__unclassified	2048
s__unclassified	2054
s__unclassified	2082
s__unclassified	2094
s__unclassified	2129
s__unclassified	2198
s__unclassified	319
s__unclassified	461
s__unclassified	464
s__unclassified	472
s__unclassified	56504
s__unclassified	57220

AB435650.1 gg_id:461486 Oceanobacter sp. str. 1O14 AB435
AB006767.1 gg_id:8201 Oceanobacter kriegii str. IFO15467 AB006
AM930467.1 gg_id:272107 involved Tripneustes gratilla (Echinoidea) cloning and FISH host body wall lesions cl AM930
EF648125.1 gg_id:238098 dynamics during produced water treatment aerobic activated sludge clone XJ46 EF6481
DQ071156.1 gg_id:134464 marine surface water clone Surf1.32 DQ071
FJ403082.1 gg_id:364829 Disease- changes healthy and diseased colonies Caribbean coral Montastrea faveolat FJ4030
EF648167.1 gg_id:254655 dynamics during produced water treatment aerobic activated sludge clone XJ137 EF6481
GQ426888.1 gg_id:592739 Thalassolituus sp. IMCC1826 str. IMCC 1826 GQ426
AJ302699.1 gg_id:20487 Oceanospirillum sp. ME101 AJ3026
EU980447.1 gg_id:326525 Oleispira sp. str. DFH11 EU980
EU236351.1 gg_id:298239 Haliclona gellius: sponge and symbionts 13 m depth Pacific Ocean clone Hg91A7 EU2363
EU050832.1 gg_id:244721 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_09_46 EU0508
AJ426421.1 gg_id:47332 Oleispira antarctica str. RB-9 AJ4264
AY577900.1 gg_id:105462 roots new deep sea polychaete (Osedax frankpressi gen n. sp. novum) clone BoneC3 AY5779
DQ906761.1 gg_id:161773 and marine microorganisms Antarctic sea ice lower 10 cm clone AntCL3E3 DQ906
EU050834.1 gg_id:236381 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_02_57 EU0508
GQ349742.1 gg_id:587033 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
AY697896.1 gg_id:101312 Antarctica clone F3C18 AY6978
AY922202.1 gg_id:114064 whalefall clone 131636 AY9222
GU391221.1 gg_id:516971 Thalassolituus sp. str. JYr12 GU391
EF468717.1 gg_id:221209 Marinobacterium marisflavum str. IMCC4074 EF4687
DQ206422.1 gg_id:140325 microbial mediates arsenate reduction soda lake water clone ML-S-4 DQ206
DQ279852.1 gg_id:142469 Marinomonas sp. str. Y5 DQ279
AY967730.1 gg_id:115234 Influence starvation ozone and selected isolates on survival southern Jasus edwardsi AY967
FN377729.1 gg_id:593776 Marinobacterium sp. RS-21 FN377
AY549003.2 gg_id:101658 marine bone clone sacC13A1 AY5490
EF379568.1 gg_id:206232 sea water Victoria Harbor (Hong Kong) area clone VH-PA5-10 EF3795
EF422409.1 gg_id:213472 Marinospirillum sp. str. ANL-isoa EF4224
GU291323.1 gg_id:589506 Anaerobic sulfide-oxidizing couple acidification and nitrogen cycling heavy metal we GU291
EU544727.1 gg_id:262299 free-living particle- aggregate- archaeal and Laptev Sea 0.22-1.0 um size fraction (fre EU544
NR_024654.1 gg_id:541001 Pseudospirillum japonicum str. ATCC 19191 NR_02
FJ628206.1 gg_id:555032 transition and zone within near-shore basin: brackish water anoxic fjord Nitinat Lake FJ6282
FJ403057.1 gg_id:364908 Disease- changes healthy and diseased colonies Caribbean coral Montastrea faveolat FJ4030
AM747817.1 gg_id:311032 Oceaniserpentilla haliotidis AM747
AY136131.2 gg_id:155199 Oceanobacter sp. str. RED65 AY1361
FJ202960.1 gg_id:353341 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2029
GQ131677.1 gg_id:376032 Neptuniibacter sp. str. antisso-13 GQ131
AY549004.2 gg_id:101822 marine bone clone Osedax_sym1 AY5490
AY549002.2 gg_id:101490 marine bone clone sacC13A2 AY5490
AF140000.1 gg_id:8195 Oceanospirillum sp. str. ML-158 AF1400
AF140002.1 gg_id:27457 Oceanospirillum sp. str. ML-165 AF1400

151.0	2634.3	3235.8	3091.3	2915.2	3426.7	1858.7	3808.8	2392.6	3345.8	2304.9
725.0	3153.9	3485.6	3506.1	3856.9	4298.4	3949.5	4566.9	2464.9	3535.0	2647.3
512.9	2062.4	2637.2	2615.2	3387.2	2980.5	2616.8	3685.2	1719.9	2195.6	1625.3
5616.9	2287.7	2404.8	2461.2	2984.2	2756.0	3218.3	2590.9	2005.5	4332.0	1850.0
337.5	2461.4	2937.5	2758.5	2685.1	3005.6	2963.5	3342.8	1396.3	1890.9	2120.6
4610.7	2889.5	3208.3	3202.7	2120.2	3068.6	2267.9	3115.8	2921.7	6985.3	3912.7
151.6	1153.4	1730.5	1528.6	2042.7	2123.2	1738.6	2230.9	849.0	1238.8	875.7
323.7	2417.6	1984.0	1918.7	2593.3	2848.1	1808.0	3335.3	1275.1	1896.3	1910.6
8824.3	6790.5	7040.5	7701.4	7708.3	8545.3	5688.7	8437.6	8721.1	10817.8	6701.0
84.5	1643.0	1646.2	1896.3	1560.8	2841.1	1313.4	2256.0	1215.9	3159.9	1237.4
377.8	2429.3	2481.9	2237.7	2569.9	3256.4	2676.5	3473.3	2018.3	2770.5	2412.7
524.6	4117.4	4276.6	4497.3	3765.4	4817.6	3182.9	5149.4	6194.0	4517.1	4494.6
1706.0	2398.2	2723.4	3250.3	2461.1	3453.4	1743.4	3376.4	2516.6	4592.7	2192.1
1141.4	3363.6	3747.0	3643.4	4106.5	3990.7	3678.2	4259.2	3173.3	3552.5	3489.8
688.2	3943.4	3517.9	3237.8	3458.1	3879.9	3024.2	4459.7	4261.4	2156.0	2345.7
380.8	2442.5	2965.0	3294.7	3036.3	2976.0	2689.7	3363.3	2893.0	3396.7	2127.7
5848.3	2023.7	2340.1	2029.0	2199.6	2087.5	4266.5	2386.5	2771.1	2158.5	3010.2
834.8	3613.6	4045.1	4107.6	4035.3	5024.8	3724.6	3975.6	2577.5	6001.5	2993.4
448.2	706.7	776.9	661.7	560.1	930.8	494.8	1013.0	348.6	977.5	436.3
2393.6	5654.8	5520.8	5327.7	6856.9	6211.3	5480.8	6139.2	4456.7	3932.4	3886.7
27.8	97.5	141.1	138.9	172.6	145.1	182.7	135.4	53.2	55.2	43.5
129.7	1141.6	1669.1	1644.8	1367.1	2156.4	1573.8	2037.2	966.5	2114.8	930.3
749.7	1802.1	2113.1	2486.3	2549.8	2259.2	2009.0	1836.5	1333.6	2280.1	839.0
131.9	2173.2	2561.5	2596.2	2664.3	2054.2	2267.1	2601.4	1611.8	1065.4	1390.3
11611.8	5094.8	5268.3	5301.9	6891.4	5420.8	9340.1	5312.9	4016.9	3215.1	2808.2
4725.0	5788.3	5595.1	5746.1	6294.8	5504.8	7750.4	5447.8	6697.5	6245.4	5315.7
41.0	90.0	113.5	98.5	119.0	93.9	77.5	106.9	44.7	48.6	41.3
2441.0	2447.6	3105.4	3336.0	3761.9	2629.5	4188.4	2483.1	4107.8	2726.8	2609.4
78.9	969.2	1942.1	1476.9	1130.6	1028.6	2609.4	1314.6	348.1	260.4	1124.4
9759.4	1885.2	2159.0	1923.7	1910.2	1852.1	3635.3	2813.0	2689.8	1975.1	1573.0
78.0	260.2	332.8	401.5	413.1	69.0	401.5	386.1	400.4	481.2	238.6
1759.2	2691.5	3613.6	2815.1	2109.6	2990.6	2463.8	3610.2	3213.8	1236.5	2168.1
18964.3	10620.3	9129.0	10217.2	11327.0	10695.9	13013.5	10170.8	11618.4	12396.6	14094.4
294.0	754.4	938.0	994.8	751.8	1021.4	744.4	1320.5	564.0	1046.8	551.5
39.3	220.6	278.0	218.8	241.3	227.6	156.8	175.6	57.9	199.5	50.5
144.5	398.4	370.2	386.9	682.9	820.1	811.5	674.3	267.1	190.0	169.8
384.3	2136.1	2401.4	2541.1	1979.8	3233.9	2018.0	3939.1	2472.8	4392.9	1910.6
55.0	1242.7	1379.7	1098.4	749.8	1675.9	868.0	2123.5	520.9	1368.4	663.8
11086.9	4753.6	5408.1	5546.7	6024.4	5691.2	5773.7	6006.2	6060.6	4368.9	4836.5
4112.0	4627.1	5120.7	5737.3	5764.2	5762.9	5279.8	6059.6	4197.8	7355.0	4896.7
283.5	1005.8	1487.5	1530.3	947.4	2137.3	566.3	3105.5	1434.4	1896.5	923.3

4283.8	3345.0	3605.3
4126.4	4180.6	4446.0
3358.6	2937.5	3240.0
3129.4	3559.7	2273.9
2378.7	3289.4	3325.3
2658.4	3752.9	3000.0
2736.2	1994.8	2222.1
3037.8	2728.3	2882.2
9050.9	8313.8	7998.4
2186.4	1891.7	865.0
2781.0	2901.0	1572.4
4528.9	4449.9	2523.5
3384.9	3787.2	2035.5
3722.2	4051.4	3564.4
3160.3	2527.1	2012.9
3595.6	3632.8	3803.8
1903.6	1866.0	1791.5
8237.8	4545.0	3769.5
1034.2	1648.0	641.9
5963.6	5787.0	4039.7
113.3	177.8	149.7
2182.0	1372.5	1168.4
2366.4	2062.1	2113.2
2243.2	1592.7	1271.3
5987.8	5208.7	5004.0
5710.4	5679.3	5241.2
167.6	225.0	84.4
3021.4	3438.3	2833.1
822.9	1839.4	1353.8
2181.0	2005.3	1916.9
510.1	601.2	345.3
3694.8	2458.9	1705.9
10090.4	10307.1	10465.2
1346.7	1273.2	839.0
259.7	284.6	84.1
741.6	906.6	970.8
3412.9	3316.9	2258.2
1532.9	1649.6	1054.3
5570.0	5877.5	5929.3
6104.1	7869.9	5673.1
2361.1	2769.6	1033.0

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanospirillaceae
o__Oceanospirillales	f__Oceanrickettsiaceae
o__Oceanospirillales	f__Oleiphilaceae
o__Oceanospirillales	f__Oleiphilaceae
o__Oceanospirillales	f__Oleiphilaceae
o__Oceanospirillales	f__Oleiphilaceae
o__Oceanospirillales	f__Oleiphilaceae
o__Oceanospirillales	f__Oleiphilaceae
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Oceanrickettsia
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__Congregibacter
g__OM60
g__OM60
g__OM60
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	624
s__unclassified	64
s__unclassified	654
s__unclassified	737
s__unclassified	912
s__unclassified	3305
s__unclassified	1249
s__unclassified	1595
s__unclassified	1820
s__unclassified	2021
s__unclassified	209
s__unclassified	953
s__Congregibacter litoralis	1235
s__unclassified	1352
s__unclassified	1730
s__unclassified	1877
s__unclassified	1986
s__unclassified	2090
s__unclassified	231
s__unclassified	234
s__unclassified	243
s__unclassified	305
s__unclassified	81
s__marine gamma proteobacterium HTCC2080	1047
s__marine gamma proteobacterium HTCC2080	1786
s__marine gamma proteobacterium HTCC2143	724
s__unclassified	1034
s__unclassified	1056
s__unclassified	1078
s__unclassified	1105
s__unclassified	113
s__unclassified	1149
s__unclassified	1195
s__unclassified	1314
s__unclassified	1346
s__unclassified	1349
s__unclassified	1357
s__unclassified	1394
s__unclassified	1402
s__unclassified	143
s__unclassified	144

NR_028788.1 gg_id:579521 Marinospirillum alkaliphilum str. Z4; JCM 11312 NR_02
EF067915.1 gg_id:245142 endolithic microbes marine basalts aerobic enrichment s innoculated basalt Brown B EF0679
AM930473.1 gg_id:274407 involved Tripneustes gratilla (Echinoidea) cloning and FISH host body wall lesions cl AM930
GQ349823.1 gg_id:569636 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
GQ349756.1 gg_id:561025 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
DQ123914.1 gg_id:154336 Oceanrickettsia ariakensis DQ123
DQ015830.1 gg_id:139543 Antarctic lake water clone ELB19-203 DQ015
GU061314.1 gg_id:578191 Evaluation culturing methods cultivate previously Yel Sea intertidal beach seawater GU061
FM242233.1 gg_id:333373 sequences sediment clone 26 T0h-oil FM242
FJ717225.1 gg_id:554141 L. Bioturbated Mesocosm marine sediment Cullercoats Northumberland United King FJ7172
NR_025432.1 gg_id:537713 Oleiphilus messinensis str. ME102; DSM 13489 NR_02
EF067910.1 gg_id:251507 endolithic microbes marine basalts aerobic enrichment s innoculated basalt Brown B EF0679
AY007676.1 gg_id:26630 marine isolate NOR5 AY007
GU118892.1 gg_id:542707 Threatened Corals Provide Microbial Habitats clone Past_M04 GU118
EU707294.1 gg_id:336455 sulfur oxidizing Wadden Sea sediments Janssand intertidal sandy sediment 0 2 cm d EU707
DQ330945.1 gg_id:159205 Guerrero Negro hypersaline microbial mat clone 05D2Z66 DQ330
AM882556.1 gg_id:337698 Structure along hydrocarbon contamination coastal sediment oil polluted water pet AM882
DQ330798.1 gg_id:159069 Guerrero Negro hypersaline microbial mat clone 02D2Z51 DQ330
EU707308.1 gg_id:354827 sulfur oxidizing Wadden Sea sediments Janssand intertidal sandy sediment 0 3 cm d EU707
EF632657.1 gg_id:235343 Unique microbial contrasting aquatic altitude Andean Altiplano (northern Chile) sedi EF6326
EU707317.1 gg_id:350845 sulfur oxidizing Wadden Sea sediments Janssand intertidal sandy sediment middle f EU707
EU161717.1 gg_id:255918 Haliea rubra str. CM41_15a EU161
EF632658.1 gg_id:236929 Unique microbial contrasting aquatic altitude Andean Altiplano (northern Chile) sedi EF6326
AY386339.1 gg_id:96871 marine str. HTCC2080 AY3863
AAVV01000015.1 gg_id:190442 marine str. HTCC2080 AAVV0
NZ_AAVT01000006.1 gg_id:189314 marine str. HTCC2143 NZ_AA
GU230327.1 gg_id:589757 Multilevel approach along Rio de la Plata-South Atlantic Ocean coastal water clone A GU230
EU544810.1 gg_id:275233 free-living particle- aggregate- archaeal and Laptev Sea 1.0-60 um size fraction (sus EU5448
DQ009134.1 gg_id:126508 bacterioplankton clone SPOTSAPR01_5m162 DQ009
EU700144.1 gg_id:295036 Study on Shantou Bay Marine Sediments Microorganisms sediment clone STU2 EU700
AB015519.1 gg_id:8181 deep-sea sediment clone BD1-7 AB015
EU394576.1 gg_id:335051 Coccolithophore bloom dynamics shape (NE-Atl) northern Bay Biscay pelagic particle EU394
EU491036.1 gg_id:262064 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
EU491078.1 gg_id:273214 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
EU491056.1 gg_id:262397 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
EF379800.1 gg_id:206237 sea water Victoria Harbor (Hong Kong) area clone PC-PA11-51 EF3798
FN396694.1 gg_id:549550 constant flux thermophilic cold seabed Arctic marine surface sediment clone s5_0_V FN3966
AM882531.1 gg_id:338117 Structure along hydrocarbon contamination coastal sediment oil polluted water pet AM882
FJ203132.1 gg_id:351157 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2031
GU061619.1 gg_id:578346 and function microbial mesoscale eddy perturbations South China Sea clone CE2-DC GU061
FJ717243.1 gg_id:536934 L. Bioturbated Mesocosm marine sediment Cullercoats Northumberland United King FJ7172

2402.3	2972.3	3422.0	3908.6	4521.7	4898.8	3905.4	3152.5	2295.5	4116.6	2495.2
46.1	2606.3	2972.2	2818.8	1941.5	3148.4	2237.7	3503.3	1992.5	3757.0	1763.2
1179.1	1954.4	2066.9	2559.9	2375.5	2437.2	2555.2	2905.9	1255.3	2271.7	1252.4
2471.9	7152.2	9364.3	7979.5	6935.1	7541.0	7637.4	8804.0	6945.5	4634.9	8706.7
210.6	3566.4	4188.2	2902.3	2151.7	3114.2	2284.0	3054.3	4379.0	4859.9	2979.2
32.0	257.4	186.9	56.7	54.8	139.3	39.9	132.5	94.7	40.7	80.9
88.6	1572.4	1838.9	2122.2	1709.7	2207.1	1039.5	1989.3	1603.7	1905.0	1055.9
7811.9	5407.1	6368.6	7533.6	7275.5	6989.7	6472.7	7341.0	5023.4	5972.0	5606.6
5014.5	4857.4	4727.2	5066.4	3886.0	5536.2	4624.6	6200.7	5464.1	6930.8	4444.6
507.6	3411.6	3942.2	4635.4	3616.0	3870.5	4704.5	4696.7	2149.6	2702.1	3072.2
255.9	1174.3	1168.5	957.4	582.4	1164.1	969.6	1345.0	814.6	416.2	1142.1
3924.6	4463.1	5273.1	6347.0	4526.2	6211.9	4019.9	5803.1	5180.9	4864.0	4604.3
87.5	1883.8	2511.1	2307.2	2542.6	2479.0	2351.1	2373.1	923.4	2343.8	1007.4
7013.8	9199.0	8403.1	8124.1	7566.2	9873.7	8623.4	8052.0	10615.7	8429.1	9081.9
177.1	1552.6	1853.8	2159.8	1582.9	1566.5	2234.3	2286.2	551.8	249.2	582.1
435.9	5648.7	5453.9	4934.5	7204.6	6706.4	7770.1	6595.9	4866.6	4621.0	3143.5
984.1	2098.3	1938.2	2037.8	2067.2	1684.8	1804.7	1918.5	1394.9	1389.1	857.4
1607.6	5309.7	6416.5	7098.8	6468.7	7456.3	7960.7	7757.4	7748.6	10990.6	4587.5
3863.9	4567.3	4558.8	4422.5	5774.1	3998.6	6936.3	4376.8	3837.8	2720.7	4245.9
1360.8	6534.2	6933.3	6892.3	7866.5	6541.1	7570.3	6281.3	4625.1	4671.5	3775.7
13020.1	9853.8	10392.9	9307.5	10102.2	10357.3	10668.0	10060.2	14309.6	14429.9	10776.5
2330.7	5629.8	5334.7	5572.4	4740.6	6539.7	4700.9	5377.5	5892.1	5780.9	4560.8
53.0	3890.3	3801.5	3140.5	3926.0	3306.9	3561.0	4947.8	4863.2	2084.5	3583.9
2768.9	3717.2	3893.5	4304.2	4216.6	4663.6	4727.9	4788.8	4380.8	6224.8	3975.1
792.0	3720.0	3383.2	4146.9	3948.7	5156.1	3438.1	4553.4	2144.7	6980.5	3613.5
39.1	114.0	170.9	174.5	250.5	126.4	173.0	190.9	86.9	85.3	129.4
5342.5	2948.4	3013.4	3161.5	3819.2	3634.7	2972.8	3549.1	1900.6	2478.5	2347.6
6885.5	4764.9	5834.9	5106.8	4756.6	5345.6	4591.9	6440.3	5816.5	6313.7	6703.0
2720.7	3678.6	3072.5	3719.0	3745.2	3655.0	4007.0	4228.8	2841.0	2090.3	2587.1
7804.7	7833.3	7995.3	10649.3	9031.6	9644.9	7427.0	7249.3	10084.5	8012.3	7709.9
66.9	80.9	150.0	166.2	87.8	174.4	76.4	387.7	167.3	116.3	115.6
92.4	2312.5	2489.6	2569.9	2552.7	2293.0	2545.1	2981.8	1373.8	382.0	1158.3
42.3	1658.9	1969.0	2512.9	1361.6	1886.6	1695.9	2174.4	828.6	2155.2	2146.4
287.7	895.1	1240.1	1118.4	843.5	923.7	1046.5	1407.0	489.3	1632.2	659.5
348.5	1676.6	1893.2	1802.5	2080.8	2687.0	1884.8	2479.6	1461.4	4242.2	1084.2
3936.5	4202.7	4247.9	4811.3	5099.1	4479.2	4938.9	5189.2	5473.3	5645.0	3190.9
7997.5	6995.6	6770.6	7594.0	8092.8	6435.9	6678.2	5930.6	7159.5	4537.7	7487.4
580.9	5182.6	3960.8	4552.0	3596.5	3533.2	4251.0	4015.8	3278.7	4601.0	2453.9
4243.6	5555.7	6318.4	7126.3	6872.6	6483.1	7921.5	7235.4	6331.0	6332.0	5568.9
8034.1	6392.5	6638.3	7046.9	8452.6	6407.0	9122.4	6971.0	5676.8	6579.7	6603.8
270.8	2610.3	2905.5	3053.8	2508.1	3342.4	3198.8	4147.6	3318.8	2087.9	3038.9

5521.0	3670.7	3503.5
3395.2	2564.2	3057.3
3197.6	2645.3	2544.2
6955.3	8415.2	7707.8
2480.4	3168.0	2317.4
144.9	53.9	182.0
2250.6	3051.4	1715.0
7405.3	7767.6	6390.2
5973.3	6399.2	5397.6
3837.2	3182.0	3279.9
1222.1	1989.1	1058.9
6065.0	5252.4	4717.3
2459.4	2614.7	1610.2
8316.1	8013.4	6710.7
1716.4	1140.6	1558.5
5889.9	5865.6	5628.1
2027.7	1902.1	1898.9
9412.2	7796.6	6740.6
3897.3	3604.5	2651.4
7127.8	5502.7	5774.1
10521.8	11289.4	10185.6
5619.7	5730.6	3684.6
3915.3	3164.2	2238.8
4915.9	5297.3	4254.8
3868.0	4721.0	3294.7
135.0	265.1	250.9
3257.4	3792.2	2516.5
5298.0	6270.6	4041.8
4069.5	4572.3	4470.8
7330.7	7226.6	5816.5
151.1	314.1	62.2
3287.8	1668.5	1668.8
1646.0	1641.0	1432.6
1138.3	1441.6	906.4
2490.4	2418.1	1616.2
4549.2	4791.8	3948.2
6225.6	6357.1	6006.1
4134.2	3268.2	3530.0
7617.7	8055.8	7978.7
6717.6	6410.6	5237.2
3658.9	3687.5	3979.0

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	150
s__unclassified	1512
s__unclassified	1534
s__unclassified	1538
s__unclassified	1546
s__unclassified	1609
s__unclassified	1620
s__unclassified	1679
s__unclassified	1696
s__unclassified	1725
s__unclassified	1737
s__unclassified	1766
s__unclassified	1771
s__unclassified	1864
s__unclassified	1889
s__unclassified	1907
s__unclassified	1909
s__unclassified	1917
s__unclassified	1921
s__unclassified	1932
s__unclassified	1935
s__unclassified	1967
s__unclassified	2010
s__unclassified	2122
s__unclassified	2134
s__unclassified	2148
s__unclassified	224
s__unclassified	2240
s__unclassified	2261
s__unclassified	2263
s__unclassified	280
s__unclassified	300
s__unclassified	318
s__unclassified	333
s__unclassified	334
s__unclassified	391
s__unclassified	398
s__unclassified	415
s__unclassified	487
s__unclassified	512
s__unclassified	528

EU244006.1 gg_id:357193 16SrRNA probes river Leine sediment clone sls1121 EU244
AM997955.1 gg_id:570446 and biogeography deep-sea surface sediments South Ocean Atlantic Ocean:South-A AM997
EU491047.1 gg_id:265525 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
EU592383.1 gg_id:553196 Seasonal changes Salton Sea hypersaline water clone SSW145N EU592
FN398053.1 gg_id:592957 Haliea sp. str. 7SM29 = CECT 7447 FN398
DQ513020.1 gg_id:159939 Microbial life fluids ridge flank crustal fluid clone FS142-64B-02 DQ513
EU544827.1 gg_id:277594 free-living particle- aggregate- archaeal and Laptev Sea 1.0-60 um size fraction (susp EU544
GQ348262.1 gg_id:563632 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GU118865.1 gg_id:579784 Threatened Corals Provide Microbial Habitats clone Mfra_M11 GU118
EU652555.1 gg_id:279539 Seasonal variation microbial Yel Sea sediment clone D8S-18 EU652
EU236417.1 gg_id:302021 Haliclona gellius: sponge and symbionts 13 m depth Pacific Ocean clone Hg92F9 EU236
EF123465.1 gg_id:241462 Microbial disease microbial mats on Siderastrea siderea three regions wider Caribbea EF1234
GQ347825.1 gg_id:563082 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
EF471467.1 gg_id:258367 Fast Screening and Estuarine Operon Libraries whole surface water Chesapeake Bay (EF4714
AM990941.1 gg_id:540228 along Egyptian Mediterranean coast mediterranean coastal waters 500 offshore 0.5 AM990
EF123461.1 gg_id:245864 Microbial disease microbial mats on Siderastrea siderea three regions wider Caribbea EF1234
EU287241.1 gg_id:246295 Pacific arctic surface sediment clone S11-58 EU287
EU544811.1 gg_id:265700 free-living particle- aggregate- archaeal and Laptev Sea 1.0-60 um size fraction (susp EU544
GU061614.1 gg_id:552256 and function microbial mesoscale eddy perturbations South China Sea clone CE2-DC GU061
EU544826.1 gg_id:273002 free-living particle- aggregate- archaeal and Laptev Sea 1.0-60 um size fraction (susp EU544
AY693815.1 gg_id:102960 anaerobic sludge clone EUB3 AY693
DQ396099.1 gg_id:150972 deep-sea octacoral clone ctg_NISAA05 DQ396
AF468388.1 gg_id:80239 Arctic sea ice ARK10038 AF468
FJ905759.1 gg_id:510210 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F161b FJ9057
DQ351747.1 gg_id:150492 Microbial Adherent Sediment Particles Heavy Metal Contaminated North Sea Surfac DQ351
EU491750.1 gg_id:272039 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU491
EU050825.1 gg_id:251646 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_07_55 EU050
AY386336.1 gg_id:96552 marine str. HTCC2223 AY386
EU010139.1 gg_id:235473 Biogeography Singapore seawaters seawater clone B24 EU010
DQ070803.1 gg_id:149537 Prokaryotic Structures Seafloor Basalts Varying Age and Juan de Fuca Ridge basalt gl DQ070
AB294961.1 gg_id:219188 -dependent & analyses hydrothermal system off Taketomi Island Japan microbial ma AB294
EU707310.1 gg_id:320148 sulfur oxidizing Wadden Sea sediments Janssand sediment -490cm clone JS9_43 EU707
AB476262.1 gg_id:561798 Compositional and functional transition epibiotic microbial hydrothermal vent galath AB476
GQ347899.1 gg_id:555942 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
AM259790.1 gg_id:216671 Spatial sponge- Mediterranean Tethya aurantium sponge endosome clone TAI-8-20 AM259
EU491031.1 gg_id:271029 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
GQ249557.1 gg_id:555216 Microbial anaerobic sediments Bay Cadiz (Spain) marine sediment: 12-14 cm layer cl GQ249
EU544829.1 gg_id:273948 free-living particle- aggregate- archaeal and Laptev Sea 1.0-60 um size fraction (susp EU544
FJ203170.1 gg_id:333574 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2031
DQ009135.1 gg_id:121881 bacterioplankton clone SPOTSAPR01_5m185 DQ009
FJ205329.1 gg_id:544776 Prokaryotic deep-sea hydrothermal region East Lau Spreading Centre deep marine se FJ2053

200.3	4640.6	4455.7	4048.3	4677.3	2996.2	3899.2	3901.7	1973.4	1740.7	1751.1
68.6	1320.1	1533.9	1468.6	1407.9	1294.5	1564.5	1656.5	821.8	425.6	563.3
3031.7	1986.4	2230.3	2243.3	1822.4	2303.8	3085.6	3238.3	1704.9	2132.7	1983.2
50.6	919.1	1467.2	1361.6	738.6	2758.8	664.3	1207.3	557.6	4542.1	519.2
692.9	2633.5	2972.8	2944.5	4359.2	3022.8	5150.4	2813.4	2574.0	7264.1	1438.7
6261.7	3089.5	3329.4	2982.7	3766.7	3022.0	2948.8	3810.2	3675.8	2686.7	813.2
22694.7	5442.6	6407.3	6097.2	6078.5	6139.7	5921.6	6145.7	6158.1	7604.1	7433.0
5406.0	6582.1	7703.8	8476.7	7738.5	7496.9	6731.6	9151.8	9977.9	6304.6	6643.7
473.2	4666.3	4739.8	5193.2	5802.3	4808.0	5771.7	4662.8	3605.5	4884.0	2553.6
90.9	3153.1	2984.1	2785.7	2945.5	2857.0	3368.7	3052.9	1604.0	685.1	1379.7
188.4	1273.1	1568.8	1278.6	1730.5	1215.0	2265.2	3770.7	2389.6	956.6	2098.6
2478.6	5289.2	5438.7	6007.8	7365.3	6626.3	6348.7	6085.8	3137.6	5104.9	4509.5
4552.3	3467.0	3776.2	3920.0	3970.9	3992.4	4667.5	3978.9	4798.4	5330.9	3746.6
1581.5	2450.7	1988.3	2247.4	3050.2	2277.4	4272.4	2442.1	3852.9	2465.3	2287.6
2948.7	4024.1	4512.8	4548.0	4507.0	4086.0	5332.0	4262.2	3225.8	2557.8	3293.3
454.4	1649.6	2440.8	2359.6	1950.8	2123.2	2031.9	2151.6	1584.7	791.0	2140.4
337.9	3454.0	3074.8	3181.4	2992.6	2727.7	3306.5	3950.0	1170.5	737.9	1367.7
6276.3	4491.9	5143.4	5049.6	4355.0	4391.9	5247.8	3750.9	5300.6	6051.6	6048.7
205.3	1800.5	2204.1	2414.7	3113.9	3194.6	3024.8	3512.3	1009.1	2246.0	1480.5
5116.4	5998.0	7405.6	7199.4	6347.3	6922.8	6393.2	7963.6	7831.0	7715.1	7299.5
53.4	506.3	753.2	775.1	444.1	841.6	390.3	1053.2	668.4	1784.5	476.8
9207.8	2734.1	3507.3	2946.9	3124.1	3257.3	2384.3	4490.6	2974.1	5881.3	3440.0
539.5	4027.5	3487.1	3185.2	4242.8	3279.7	3922.2	3578.2	1578.0	1245.9	1758.5
206.3	3605.8	3762.1	3365.7	3543.7	3513.4	3731.8	3955.2	2654.9	2334.7	1805.6
126.5	5688.9	5135.5	4750.2	5462.3	2780.2	5054.9	3505.5	1191.2	1048.2	1585.7
1144.6	6890.9	6778.6	6898.8	7699.8	8274.5	6865.9	7245.1	6491.6	5708.1	7684.5
136.9	2903.2	2379.8	3088.5	3574.3	3064.1	4257.5	4187.5	1267.9	2095.2	2997.5
2240.5	3026.2	3200.7	3451.3	3756.9	3754.6	4073.2	3922.1	3448.9	5457.0	2984.7
913.5	3130.8	3154.9	3245.2	2938.6	2675.5	3149.8	2188.7	1789.0	4654.1	2046.9
233.2	4593.9	4358.7	4408.9	5376.0	3511.8	4907.3	4041.4	2734.8	2452.8	2932.4
2551.2	5794.8	5717.9	5563.4	5603.1	5419.3	6598.7	5668.7	4071.1	4049.8	8203.0
946.1	3603.7	3542.8	4047.0	4399.9	4702.7	4225.1	5646.2	2790.6	3728.3	3164.5
5141.8	6130.5	6433.3	5729.6	6976.2	4020.8	5821.0	4304.7	3318.5	2950.4	4308.0
24411.8	6406.6	5845.0	6065.5	6197.6	5985.7	6733.2	5539.8	8396.2	6659.9	9956.6
2323.7	3954.7	3916.7	4153.8	4960.7	4888.6	5250.6	4664.3	3889.0	6140.8	3697.0
54.5	650.2	555.5	414.7	664.7	457.9	504.7	722.5	234.9	370.8	279.5
66.4	2922.6	3101.4	2550.0	3766.1	2237.9	3214.1	2774.9	811.7	651.4	2985.7
1690.7	2608.0	4159.0	3502.3	5994.4	4730.6	2940.8	4822.9	3087.4	4054.6	3153.1
436.8	2398.0	2725.4	2548.5	2179.9	2302.4	2816.6	2784.3	3161.3	2946.7	2194.3
2117.2	4053.6	4307.0	3839.2	5333.2	4417.3	3990.2	5165.3	3158.1	2937.0	3627.3
60.1	3334.7	3397.3	3113.3	2803.2	3896.4	2262.6	4458.9	2622.9	486.4	2944.4

3803.0	1955.3	905.0
1391.0	1535.5	1580.8
2607.9	2910.3	2156.0
2887.0	2872.8	1109.8
3338.7	3900.4	3112.2
3175.2	3057.8	2692.1
6799.4	6292.4	5008.5
8655.5	7572.7	6318.8
4886.5	4575.8	3034.2
3301.3	2330.3	3182.8
2617.0	3513.3	1839.8
6367.9	5709.4	5487.2
3768.3	4962.2	3616.4
2368.6	2833.6	2093.1
4514.7	4739.8	5778.5
1517.0	1986.8	2425.3
2843.6	2977.3	3776.0
4093.3	4176.4	4735.8
2917.9	2704.0	1968.4
7256.5	7875.2	6614.9
764.2	993.8	259.4
3819.5	4120.1	2313.0
3472.5	2878.5	3023.0
3406.8	3229.1	1758.1
3804.5	1312.8	892.2
6658.9	6280.6	4966.4
2820.9	2497.1	2796.8
4182.1	4283.7	3677.9
2361.7	1971.0	1930.1
4139.9	3407.1	2881.1
4567.1	3889.3	3559.8
4918.7	5483.2	4687.3
5060.4	3820.6	3310.3
5567.5	6363.0	5490.1
4943.9	4819.1	4140.3
766.5	839.1	905.2
3532.3	1028.2	865.3
3800.1	4074.5	1996.6
2550.1	3512.3	3698.7
4910.9	4994.1	3992.6
3879.8	3878.1	4278.0

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__OM60
o__Oceanospirillales	f__Piscirickettsiaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__Saccharospirillaceae
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Piscirickettsia
g__ML110J-20
g__ML110J-20
g__Reinekea
g__Reinekea
g__Reinekea
g__Reinekea
g__Saccharospirillum
g__Saccharospirillum
g__Saccharospirillum
g__Saccharospirillum
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	553
s__unclassified	564
s__unclassified	580
s__unclassified	582
s__unclassified	601
s__unclassified	627
s__unclassified	635
s__unclassified	679
s__unclassified	837
s__unclassified	869
s__unclassified	882
s__unclassified	901
s__unclassified	927
s__unclassified	974
s__unclassified	975
s__Piscirickettsia salmonis	4071
s__unclassified	1135
s__unclassified	192
s__Reinekea blandensis	176
s__unclassified	1140
s__unclassified	1261
s__unclassified	1448
s__unclassified	1253
s__unclassified	1569
s__unclassified	427
s__unclassified	655
s__unclassified	3310
s__unclassified	3311
s__unclassified	3312
s__unclassified	3326
s__unclassified	3333
s__unclassified	3346
s__unclassified	3371
s__unclassified	3381
s__unclassified	3402
s__unclassified	3404
s__unclassified	3410
s__unclassified	3420
s__unclassified	3423
s__unclassified	3429
s__unclassified	3436

GQ261773.1 gg_id:537571 shifts taxa and response localized organic loading deep sea sediment whale falls clo GQ261
AY386334.1 gg_id:97734 marine str. HTCC2148 AY3863
EU491062.1 gg_id:271257 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
EU652559.1 gg_id:278975 Seasonal variation microbial Yel Sea sediment clone D8S-33 EU652
GU061452.1 gg_id:593389 and function microbial mesoscale eddy perturbations South China Sea clone CE1-DC GU061
FJ203235.1 gg_id:320209 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2032
AY771747.2 gg_id:141002 Arctic Pseudomonas fluorescens clone SE12 AY7717
AM997950.1 gg_id:575798 and biogeography deep-sea surface sediments South Ocean Atlantic Ocean:South-A AM997
EU491383.1 gg_id:261733 Abundance and microbial life ocean crust seafloor lavas Hawai'i South Point X3 clone EU491
GQ347513.1 gg_id:542803 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
FJ202535.1 gg_id:320618 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2025
EU652558.1 gg_id:278702 Seasonal variation microbial Yel Sea sediment clone B8S-55 EU652
AM997517.1 gg_id:563606 and biogeography deep-sea surface sediments South Ocean Atlantic Ocean:South-A AM997
EU491037.1 gg_id:272117 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
EU544821.1 gg_id:259019 free-living particle- aggregate- archaeal and Laptev Sea 1.0-60 um size fraction (susp EU544
AY498633.1 gg_id:103771 Piscirickettsia salmonis IRE-91A AY498
AF452607.1 gg_id:55809 hypersaline Mono Lake clone ML310M-42 AF452
AF507823.1 gg_id:62733 Mono Lake at depth 17.5 m station 6 July 2000 clone ML617.5J-3 proteobacterium AF507
DQ403810.1 gg_id:154488 Reinekia blandensis str. MED 297 DQ403
AJ561121.1 gg_id:87543 Reinekea marinisedimentorum str. DSM 15388 AJ5611
GQ456131.1 gg_id:578010 Reinekea sp. IMCC4489 str. IMCC 4489 GQ456
GQ348323.1 gg_id:570256 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GQ441232.1 gg_id:578562 and dynamic mat present vs. active nitrogen-fixing microorganisms marine microbia GQ441
GQ441197.1 gg_id:532996 and dynamic mat present vs. active nitrogen-fixing microorganisms marine microbia GQ441
EF177670.1 gg_id:175318 Saccharospirillum sp. str. Y25 EF1776
GQ250189.1 gg_id:545665 Saccharospirillum sp. IMCC4453 str. IMCC 4453 GQ250
GQ345694.1 gg_id:580178 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
AB193953.1 gg_id:108916 deep-sea vent clone Sd-EB02 AB193
AB499797.1 gg_id:573269 microbial hydrothermal vent and seep sponges-- thioautotrophic Japan:Sumisu Cald AB499
GQ345482.1 gg_id:590055 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
AB278146.1 gg_id:185252 hydrothermal vent prokaryotes trapped 0.2- and 0.1-micro-m-filtrates obtained Mar AB278
GQ346343.1 gg_id:550034 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
AB479080.1 gg_id:454474 Calyptogena nautilei symbiont AB479
EU403436.1 gg_id:275217 Calyptogena ponderosa endosymbiont 6 EU403
AB112462.1 gg_id:90596 Suiyo Seamount hydrothermal plume clone SUP05-30 AB112
GQ345480.1 gg_id:553479 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
DQ009465.1 gg_id:126024 bacterioplankton clone SPOTSMAY03_890m6 DQ009
AB176400.1 gg_id:193967 Microbial Hydrothermal System Suiyo Seamount on Izu-Ogasawara Arc vent area wa AB176
GQ345679.1 gg_id:543537 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346517.1 gg_id:558448 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346038.1 gg_id:536500 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346

60.7	3052.8	3411.9	3072.7	4568.9	2765.9	3133.2	3685.3	1772.2	1136.2	1800.6
772.2	3252.7	3682.1	3878.7	3879.2	2941.5	4580.8	3333.3	2289.1	1458.2	2020.0
162.2	1949.2	2372.3	2564.0	2822.7	2669.1	2827.4	3898.1	1483.2	1463.4	1912.4
12458.8	7424.1	7109.2	7920.1	7768.2	7635.6	7417.6	7263.6	8789.4	6820.5	8199.1
5055.4	4727.9	4666.0	5484.1	6144.6	4987.1	6734.0	6244.6	3230.0	4044.5	5262.8
865.5	2457.5	2666.2	2500.9	2966.0	3595.1	2306.1	2518.9	1066.3	2014.9	1722.6
39.0	58.0	119.8	60.9	56.0	99.7	83.4	104.3	50.1	29.4	59.1
10727.7	4624.7	4341.7	4895.4	5773.2	4967.1	5229.6	5152.3	3957.4	2930.5	4020.0
6318.0	4988.4	4774.8	4682.3	4630.2	5038.5	5241.0	4423.0	4784.5	2980.9	4569.4
1274.5	3178.6	3796.9	3840.6	5203.7	4124.7	4253.4	4886.0	3046.5	3588.7	2676.2
87.5	2224.2	2271.2	3245.8	2955.0	3480.2	3218.2	2702.7	1273.7	5651.5	1515.0
1373.2	3690.5	3639.2	3368.4	3794.8	2774.3	3262.8	3447.9	1763.5	1818.6	1508.7
197.8	5220.7	5839.1	5208.2	5377.4	5004.6	5495.7	4779.9	3113.3	2567.5	4164.9
91.7	916.2	708.7	723.9	774.0	910.0	723.5	1575.4	404.2	341.3	907.5
18166.4	5597.9	6533.1	5917.9	5169.1	6150.5	5485.0	6853.1	8045.6	7284.5	7825.6
42.9	613.0	697.3	725.6	762.0	366.8	654.8	723.0	246.8	881.4	234.2
213.0	1224.3	1475.7	1439.1	1265.2	1963.5	1198.7	1628.3	1212.6	3119.1	1176.7
513.8	847.9	1251.6	1067.4	562.8	908.1	757.1	960.6	332.1	143.6	491.2
4009.1	5211.2	6508.0	6311.4	6175.2	6568.6	5737.1	6855.6	6466.6	8039.8	5177.5
151.5	1184.2	1438.3	1513.2	1521.1	1556.1	1100.7	1338.9	413.9	408.0	668.2
2334.2	1547.9	1062.6	2036.9	2200.8	1911.5	1646.1	1884.6	1500.7	1321.2	933.2
2376.5	2034.4	2071.8	2471.2	2908.2	2632.4	2609.4	2260.7	1692.4	1653.0	1324.0
4427.0	3316.1	3765.6	3914.3	3426.8	3161.4	3522.6	4370.8	1960.1	2646.2	3008.9
13729.3	5255.9	5200.2	5611.4	4945.8	4976.6	5654.3	6186.0	3933.9	5426.1	6130.9
5526.6	6007.8	6084.6	6694.7	6090.0	5897.4	7945.3	7510.2	5248.5	2980.3	4988.3
653.7	3138.8	3714.3	3762.6	4237.8	3439.2	3677.4	4493.1	5599.5	2986.6	2690.5
8141.5	3593.2	4253.6	3787.5	5212.3	3663.0	5484.4	3818.1	3633.7	6415.0	3617.4
55.2	1585.9	2046.2	1824.8	2023.7	2322.8	1434.7	1908.9	2233.9	2681.3	1501.6
6132.6	7359.3	5479.7	4476.4	5222.5	6351.2	3754.8	5505.8	6876.5	5089.9	4546.3
11627.7	5373.5	5513.6	5607.3	6307.0	5468.9	6462.5	5430.1	4981.5	5610.2	6190.7
7462.7	7635.0	6723.9	7040.1	5721.6	7120.2	6155.6	6441.9	9901.3	7623.2	6822.2
1915.7	5296.5	5001.3	6335.5	6325.9	4851.2	6966.5	6358.2	5593.6	4597.5	4980.3
157.5	897.4	1188.5	1277.6	890.6	1441.1	716.8	1692.8	1016.6	3127.9	729.9
3907.7	4897.3	4264.5	4762.2	4360.0	5026.0	4103.7	4960.3	4003.5	3852.6	3751.4
4046.6	3847.5	4261.6	4638.5	4231.4	4727.6	5559.8	4008.7	4680.1	5695.2	4814.5
7408.4	3537.4	4274.9	3883.0	3745.5	3875.0	4013.9	3677.3	4361.6	4536.6	5166.3
7921.4	8192.2	7365.6	6805.3	6314.2	7534.7	6457.2	6136.4	7535.3	6854.1	6872.0
4147.8	6422.0	6169.4	7320.5	7416.9	6124.8	7882.7	5930.5	11126.7	11115.8	7055.6
2275.2	3942.8	4538.5	4704.0	6552.4	4663.2	5171.8	4430.6	2320.6	4553.0	3343.8
12857.8	11380.6	11410.7	13201.0	11347.4	11143.8	12074.6	10068.6	13435.2	11189.8	12123.3
1965.5	4330.3	4619.0	4054.9	4493.9	4168.1	5372.9	3904.0	8253.8	7704.2	3274.6

3092.4	2928.1	3329.7
2726.3	2829.2	3406.2
3596.8	2188.5	2265.8
7873.7	8709.5	6759.7
4748.7	5092.1	4660.4
2676.4	2886.9	2417.1
57.4	56.4	63.9
5591.7	5976.7	4861.5
4513.1	4851.6	6159.2
4503.4	4172.9	3742.4
3301.9	3656.0	2398.2
4506.7	3437.3	2793.8
3641.2	4547.5	4842.8
1118.1	904.9	899.6
5997.9	6781.8	5444.2
706.3	653.8	203.4
1580.7	2843.3	1024.0
621.4	945.3	729.5
8067.5	7131.9	6680.3
2028.5	1693.7	1739.0
2296.0	2845.0	2195.4
1924.6	2932.9	2562.7
4017.2	4073.0	3629.7
5552.8	6411.1	5080.1
7471.8	6463.7	6346.8
4206.2	3735.3	2777.4
3987.8	5294.0	3665.3
2333.3	2493.3	1052.3
5056.8	5002.6	4793.4
5538.7	6175.1	6073.6
6626.7	8354.8	6465.1
6185.2	6478.2	5271.2
1405.3	3157.2	784.8
5395.7	6021.3	5146.2
3386.3	5077.0	3227.6
3056.3	4917.5	2811.4
6390.5	7136.1	5938.1
6331.2	7071.9	6329.7
4849.3	5438.7	5579.6
10954.9	10247.5	11724.1
3791.7	5399.3	4250.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	3438
s__unclassified	3440
s__unclassified	3446
s__unclassified	3456
s__unclassified	3473
s__unclassified	3477
s__unclassified	3480
s__unclassified	3487
s__unclassified	3503
s__unclassified	3504
s__unclassified	3505
s__unclassified	3515
s__unclassified	3531
s__unclassified	3536
s__unclassified	3537
s__unclassified	3542
s__unclassified	3561
s__unclassified	3565
s__unclassified	3570
s__unclassified	3581
s__unclassified	3587
s__unclassified	3593
s__unclassified	3609
s__unclassified	3630
s__unclassified	3637
s__unclassified	3660
s__unclassified	3696
s__unclassified	3697
s__unclassified	3698
s__unclassified	3704
s__unclassified	3710
s__unclassified	3733
s__unclassified	3754
s__unclassified	3756
s__unclassified	3758
s__unclassified	3759
s__unclassified	3764
s__unclassified	3776
s__unclassified	3782
s__unclassified	3799
s__unclassified	3800

GQ345991.1 gg_id:590578 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345799.1 gg_id:582850 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345795.1 gg_id:589578 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346697.1 gg_id:582711 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
AB453761.1 gg_id:571917 Sulfur-Oxidizing Deep-sea Sponges deep-sea sponge Characella sp. (Pachastrelliidae) AB453
GQ345709.1 gg_id:582923 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ348271.1 gg_id:559212 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GQ345921.1 gg_id:571880 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345820.1 gg_id:562953 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346235.1 gg_id:585686 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
EU403437.1 gg_id:265068 Vesicomya sp. mt-III symbiont 7 EU403
GQ346136.1 gg_id:577023 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346480.1 gg_id:548322 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ347200.1 gg_id:540961 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
GQ346086.1 gg_id:547425 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346415.1 gg_id:589160 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345392.1 gg_id:556442 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ350133.1 gg_id:542791 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
GQ346643.1 gg_id:573988 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345786.1 gg_id:556299 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345712.1 gg_id:590830 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346391.1 gg_id:544282 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346103.1 gg_id:549420 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346252.1 gg_id:553712 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346188.1 gg_id:546635 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346509.1 gg_id:583641 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345404.1 gg_id:582904 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345898.1 gg_id:538800 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346134.1 gg_id:560079 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346446.1 gg_id:578566 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346096.1 gg_id:587138 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345677.1 gg_id:588187 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345849.1 gg_id:591808 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
DQ009424.1 gg_id:117723 bacterioplankton clone SPOTSFEB02_70m2 DQ009
GQ346196.1 gg_id:580086 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345926.1 gg_id:581473 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
AB193948.1 gg_id:108910 deep-sea vent clone Sc-EB08 AB193
AB244977.1 gg_id:560000 lineage scale-worm genus Branchipolynoe deep-sea hydrothermal vent symbiont fre AB244
GQ350803.1 gg_id:550092 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
AM911378.2 gg_id:369008 Phenotype-specific (Scleractinia) their implications coral's nutrition health and cold- AM911
AY951931.1 gg_id:114761 Bathymodiolus azoricus thioautotrophic gill symbiont AY951

6942.4	6862.6	7827.4	8040.4	7722.1	7184.4	8681.9	6790.0	8371.9	8371.1	9642.2
111.4	1756.3	2230.5	1895.4	1992.8	1789.8	2554.0	1939.2	1266.9	456.5	1388.1
1368.4	6480.0	7283.0	7488.3	7319.6	7157.7	7515.1	6587.4	9763.5	7329.5	6802.3
6530.4	7713.6	7884.6	7437.4	8428.2	7459.2	8381.9	8102.1	9680.2	9584.7	6940.4
3421.0	5008.3	4319.7	4481.8	4707.9	5066.5	5173.8	4632.3	7222.3	6328.1	3420.9
14306.6	8233.6	7164.0	7565.8	8619.0	7799.2	8746.2	7171.4	11758.8	10125.0	8439.6
224.5	2520.3	2258.5	2455.2	2302.5	2417.3	2272.3	2916.3	1415.5	1147.5	2398.1
2221.4	1044.6	2387.5	2178.4	2393.2	1845.6	2416.8	2050.2	1166.8	1402.2	2043.5
10490.7	5616.1	5718.6	5380.5	6562.9	5953.0	5191.4	5387.5	3057.5	2497.6	2599.6
10505.6	5436.5	4410.7	4849.5	4579.0	5093.8	4766.8	5166.8	5430.2	4973.1	6152.7
186.3	1385.2	1326.5	1240.3	1065.2	1146.1	1130.8	1225.4	881.3	2061.0	949.9
1770.2	2513.9	3247.3	2936.2	3129.3	2676.0	3902.9	2645.3	2546.4	1805.7	4214.0
428.1	2924.8	2674.3	2877.1	4025.6	3042.5	4057.9	2715.3	2205.3	1908.8	1879.1
3172.5	4248.3	5167.9	5070.1	7255.3	5305.0	5816.9	4871.4	2422.1	3494.0	4184.6
3739.4	3157.7	3678.1	3724.8	4089.2	3343.2	4290.3	3681.7	1854.6	1824.4	2404.8
10884.3	7128.5	6887.9	7750.8	7583.8	7103.4	8186.0	7567.4	7721.3	6524.9	7701.1
10315.8	6012.6	7060.2	7047.7	8209.6	6545.7	8922.2	6570.9	7429.7	8703.6	6573.9
1333.6	1544.5	3054.4	3312.5	3147.4	2637.7	2333.1	3488.6	1642.6	1683.6	2286.4
6277.5	4091.4	4480.3	4545.4	6050.4	4302.5	6045.1	4797.5	3583.6	2508.4	3738.1
13853.3	3645.0	4438.6	4468.9	5626.1	3977.1	5878.9	4148.7	1629.9	1469.9	2580.6
13947.8	4870.1	5462.0	5517.9	7155.3	4951.4	6841.2	5105.7	5715.9	7432.9	5431.5
17101.9	7407.6	6972.8	8060.9	8307.6	6499.4	7841.6	6909.7	8029.8	8246.0	7065.6
11787.7	6238.2	6721.6	7515.0	8272.2	5314.4	7515.8	7187.4	6103.0	6436.7	7678.6
576.3	2943.5	2488.9	3085.4	3123.1	3141.0	2998.7	2986.1	1938.0	2415.9	1793.3
21663.6	7080.6	7269.5	6609.9	7242.9	7290.2	6752.4	6530.5	9639.5	5235.3	8407.8
6639.0	7512.0	7960.6	7399.1	7599.9	7367.5	7851.0	6596.7	8261.5	6288.5	8109.8
4532.5	3716.5	4766.0	4719.6	5886.8	4276.0	5616.8	4341.1	2717.8	4432.8	4415.4
6553.2	4153.5	4303.0	4416.4	4665.4	4155.2	4202.0	4022.5	5196.9	5569.5	5256.7
11369.5	4584.4	4804.7	5059.5	5578.4	4780.8	5745.5	4705.4	4108.7	5062.4	3915.3
3805.8	5456.4	5460.7	5922.3	5923.2	4937.2	6786.3	5538.7	4889.9	4394.7	4751.7
3400.9	3586.2	4664.4	4665.1	5599.5	4382.8	5425.5	4585.5	2452.3	5009.0	3534.1
12027.1	5142.4	6262.8	6124.5	6955.4	5246.1	7150.2	5700.4	3997.9	3909.2	5105.6
13060.9	6646.9	6769.5	7268.5	7390.5	6682.1	7790.3	5983.2	7992.6	7459.8	8929.7
3905.4	7587.3	7697.9	6791.4	5824.1	8125.9	4989.3	6724.9	7162.4	9069.4	5552.3
15038.1	4993.2	5923.0	6182.1	6526.0	5495.1	7281.8	5572.6	5705.2	5993.0	6717.8
9489.7	3801.4	4289.6	4150.5	4250.8	3941.7	4338.5	3651.6	4379.6	4823.1	4069.3
6505.6	4289.1	3724.7	2547.8	3589.5	3637.0	4469.0	3514.7	4796.3	2877.5	4455.5
4152.3	7553.5	7473.7	8832.7	6779.8	7582.2	7438.6	7969.3	5524.4	7462.4	9559.7
5249.5	3721.4	3804.7	5167.7	4361.2	3908.0	3685.3	5065.7	8782.9	5029.0	4449.8
1371.9	3993.4	5094.5	4547.1	4368.8	4915.2	5158.3	4742.3	2536.2	2115.5	3211.6
2654.1	3572.4	3810.0	3903.3	3324.7	3732.5	4735.7	3844.1	2792.9	3958.5	3245.3

6828.7	8036.8	6076.1
1601.4	2237.0	1673.1
6086.6	8238.0	6429.4
8221.5	9299.8	7038.2
4942.7	5613.3	3779.0
7735.0	8492.4	7810.3
2220.4	2660.1	2369.6
2178.1	2752.8	2605.4
4800.8	4816.1	4547.0
4555.5	6005.9	4952.4
1067.5	1668.2	1498.3
2559.9	3328.6	2700.2
2642.3	2617.2	2146.6
4874.9	4968.4	6825.8
3555.9	3955.5	4254.3
7664.8	8826.7	7094.2
6711.6	7858.5	6465.1
3076.7	3713.4	3008.3
5205.2	5836.2	4467.3
3967.1	3991.5	5568.0
5139.2	6762.9	5094.2
7930.9	7194.0	5126.5
5989.9	7918.5	6450.1
2621.4	3484.8	3409.0
6139.8	7702.1	5578.0
6854.3	6963.4	6260.0
4923.2	5346.4	5909.9
3929.1	5174.7	3282.4
4894.8	5586.5	5758.7
6448.2	6726.4	5962.4
4798.9	5393.8	7558.6
5947.6	5786.4	7014.1
9134.5	7155.6	5478.8
7548.8	8339.7	6105.7
5846.1	6409.5	6148.9
3511.1	4887.2	3587.5
3204.1	4737.6	3255.2
6846.4	7136.4	8809.2
4210.8	5516.8	3755.1
4444.3	4340.2	4763.0
3774.6	5042.1	4012.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__SUP05
o__Oceanospirillales	f__unclassified
o__Oceanospirillales	f__unclassified
o__Oceanospirillales	f__unclassified
o__Oceanospirillales	f__ZA3412c

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__sfA
g__sfA
g__sfB
g__unclassified

s__unclassified	3801
s__unclassified	3816
s__unclassified	3819
s__unclassified	3824
s__unclassified	3836
s__unclassified	3842
s__unclassified	3850
s__unclassified	3851
s__unclassified	3854
s__unclassified	3890
s__unclassified	3896
s__unclassified	3910
s__unclassified	3912
s__unclassified	3921
s__unclassified	3924
s__unclassified	3934
s__unclassified	3936
s__unclassified	3937
s__unclassified	3939
s__unclassified	3950
s__unclassified	3958
s__unclassified	3962
s__unclassified	3969
s__unclassified	3975
s__unclassified	3983
s__unclassified	3998
s__unclassified	4000
s__unclassified	4008
s__unclassified	4010
s__unclassified	4012
s__unclassified	4017
s__unclassified	4028
s__unclassified	4034
s__unclassified	4044
s__unclassified	4063
s__unclassified	4068
s__unclassified	4105
s__unclassified	2110
s__unclassified	593
s__unclassified	1947
s__unclassified	2393

GQ345903.1 gg_id:572719 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345356.1 gg_id:581070 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345879.1 gg_id:534636 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ348411.1 gg_id:583960 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
AF035721.1 gg_id:7674 Calyptogena magnifica gill symbiont AF035
GQ346536.1 gg_id:568526 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GU108540.1 gg_id:555184 active chemolithoautotrophic prokaryotes sulfidic zone Black pelagic redoxcline dete GU108
GQ345506.1 gg_id:533664 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ345759.1 gg_id:591192 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346264.1 gg_id:579957 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345700.1 gg_id:594218 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ347135.1 gg_id:566058 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
GQ345612.1 gg_id:591185 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346510.1 gg_id:559357 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
DQ009467.1 gg_id:125536 bacterioplankton clone SPOTSMAY03_890m3 DQ009
GQ350906.1 gg_id:549611 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
GQ346703.1 gg_id:533705 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345630.1 gg_id:589590 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ347589.1 gg_id:578816 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
AB193931.1 gg_id:108891 deep-sea vent clone Scd-NB01 AB193
FJ825949.1 gg_id:568805 Succession during spring Sea filtered surface sea water period diatom bloom Yel Sea; FJ8259
GQ345617.1 gg_id:555029 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346688.1 gg_id:569285 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345381.1 gg_id:551998 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346418.1 gg_id:578694 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ346535.1 gg_id:585267 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ337088.1 gg_id:580119 Hydrography shapes biogeography deep Arctic Ocean water depth 1000m clone BB(GQ337
DQ513047.1 gg_id:160840 Microbial life fluids ridge flank crustal fluid clone CTD005-15B-02 DQ513
GQ346389.1 gg_id:589239 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
EU638846.1 gg_id:322165 Ecological Role Firmicutes Identified Thermophilic Microbial Fuel Cells thermophilic n EU638
GQ345521.1 gg_id:582885 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
GQ346456.1 gg_id:564361 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
GQ345830.1 gg_id:566044 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
AF382101.1 gg_id:79277 bacterioplankton clone ZA2329c AF382
FJ745105.1 gg_id:553872 Transporter genes expressed coastal response dissolved organic carbon surface wate FJ7451
GQ345572.1 gg_id:552427 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ345
EU638746.1 gg_id:306754 Ecological Role Firmicutes Identified Thermophilic Microbial Fuel Cells thermophilic n EU638
DQ351794.1 gg_id:147823 Microbial Adherent Sediment Particles Heavy Metal Contaminated North Sea Surfac DQ351
GU117979.1 gg_id:581250 Threatened Corals Provide Microbial Habitats clone Acer_F12 GU117
EU491869.1 gg_id:267568 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU491
AY386342.1 gg_id:97969 marine str. HTCC2151 AY386

13980.9	5415.2	5220.7	5125.2	5557.4	5892.6	5926.1	4897.1	6592.2	6933.6	5564.8
5146.8	4882.7	5385.9	5336.9	5641.1	4816.9	6200.8	5414.1	5542.5	8478.7	4720.0
4776.9	4578.2	4623.3	4518.4	5329.5	4991.1	4728.3	4294.8	3705.6	4953.0	5048.1
941.3	9194.8	8558.3	8353.4	10417.4	8990.5	8083.8	9903.7	14554.2	9530.8	8753.3
213.9	2456.7	1635.3	1293.6	1172.4	2949.8	813.5	2221.2	1472.2	2003.4	1109.9
13608.0	10392.8	7874.3	8939.3	8149.2	8265.5	8654.0	7485.4	9453.9	7384.1	11211.6
2125.2	2237.2	2666.7	3200.2	2867.4	2163.3	3056.5	3127.0	2956.8	2322.2	3247.6
34632.9	9432.7	9310.6	9503.4	10309.9	8471.0	10645.4	8421.0	11342.3	11424.2	11023.1
14192.5	6826.8	7422.1	7751.3	8978.9	7079.1	9227.4	6931.5	7684.8	9051.8	8483.4
11202.1	7045.2	4980.5	5056.5	5789.8	6022.3	5279.9	5408.2	8162.5	4691.2	4972.7
5609.5	6039.6	6386.4	6572.5	7244.5	6887.8	7602.3	6052.1	7616.0	7983.9	7255.4
633.6	1824.9	2558.3	2005.9	2102.6	1903.4	2511.1	1951.1	2065.4	1781.7	2649.4
8191.0	8020.7	10035.1	11056.6	9556.3	9515.8	10941.0	7313.2	11340.5	11044.0	8552.1
6484.7	8622.4	5715.4	6626.4	6902.1	7109.0	5446.7	6664.6	4441.9	3683.9	6555.5
920.4	4838.5	5356.9	5137.7	4029.8	3893.5	5914.3	5136.2	4646.9	3096.9	5888.4
3348.7	3589.9	4885.5	4443.9	5913.4	4218.4	5448.0	4364.4	2787.7	4341.0	3554.1
4989.9	6712.9	5819.9	6061.6	5960.5	5743.2	5795.9	5703.6	4787.8	3186.3	7778.7
13056.7	4249.9	4302.1	4042.4	4430.6	4317.5	4687.7	4173.6	5404.0	6472.9	4169.3
1975.2	4646.7	5187.5	5045.5	5905.0	4867.7	4759.3	4702.8	4138.3	5065.7	4481.3
6004.7	3543.9	3988.0	4301.0	3665.9	4048.0	4002.6	4288.9	3849.4	3390.5	4468.7
807.8	2113.8	2706.4	3022.0	2629.2	2614.3	3221.8	3263.0	1625.0	1119.2	2475.9
12397.8	3281.3	3616.6	3930.1	4457.4	3130.1	5513.5	3340.4	4347.6	3985.6	4922.6
24928.9	9454.4	8247.3	10436.2	9812.6	8910.5	11121.0	8614.9	11977.0	10964.2	12696.9
6822.5	4104.4	5164.4	5120.7	6160.7	4834.6	5388.4	4872.2	3084.0	4660.7	4536.9
9668.2	7583.0	5796.0	6100.9	5790.2	6062.9	6046.4	5876.5	6775.9	5661.4	6333.0
5885.2	7602.2	5796.4	6252.6	5559.4	6066.6	5809.9	5754.0	5618.3	4539.0	6397.2
3875.7	4135.1	4458.6	5031.9	4883.1	4710.2	4957.2	4522.1	3304.4	2881.6	3299.1
2993.5	6534.2	4964.8	5619.0	5306.3	5218.2	5447.3	5771.9	4941.3	3855.5	5569.0
18316.9	7634.9	7536.2	8296.7	8169.7	7466.7	8775.9	7682.2	9915.0	11666.2	9913.7
27807.8	9930.2	8624.4	9713.7	9016.6	9158.3	10742.5	8963.5	13629.9	12176.5	9966.4
33.4	311.0	597.6	217.9	257.0	272.9	152.3	332.5	73.8	48.0	104.5
5045.3	8430.8	6430.1	7398.9	6747.7	6514.8	7149.2	5596.8	8251.7	6736.1	5381.0
4412.2	5657.7	5703.3	5908.6	7243.9	6658.0	8315.3	5639.4	7952.5	9154.9	5580.0
572.0	2407.3	2819.4	3089.1	3046.5	3057.6	4174.7	3351.7	2715.0	1677.9	2534.1
5726.8	5662.9	6672.9	6266.8	5689.7	5991.1	6539.3	5770.7	6059.3	7458.0	6374.8
47.4	3444.0	3647.4	2765.5	4594.2	1972.9	4681.5	2301.0	725.9	1575.8	994.9
11590.1	7217.3	7455.5	7502.3	7922.7	7067.2	8254.3	7301.0	8658.3	10311.6	7445.3
42.3	229.8	315.7	419.8	261.2	277.4	588.0	584.5	220.1	368.7	274.8
1417.0	5625.7	5327.8	6066.1	5594.0	5789.6	7241.6	5570.5	6211.0	4373.1	5127.0
532.8	934.4	1474.6	1486.1	1348.3	1375.9	1673.8	2107.1	1718.4	1795.2	1855.9
3630.9	4024.7	3915.0	3974.2	4379.3	3838.2	4513.8	3543.3	3241.8	1959.2	2462.0

4595.6	6932.8	5078.9
5197.6	6443.5	5165.6
4222.5	5666.1	4208.8
8530.1	8291.3	5513.2
1802.8	2442.2	3294.8
7975.9	7245.3	7455.4
2292.6	2489.0	1888.1
9227.0	9058.9	10125.5
7328.3	7968.6	8925.6
4640.6	5604.3	5639.7
5649.7	7814.6	4952.1
1812.7	3008.0	1446.4
8641.8	10672.7	7812.4
6491.3	4985.9	6324.5
5080.3	5484.8	4543.2
4723.3	5238.4	5805.2
5445.9	5853.4	4596.4
3870.8	6056.8	4154.5
5203.9	5735.8	4782.3
4925.4	4836.4	3377.1
2836.7	2753.0	1486.9
3393.4	4413.1	3509.6
9481.2	11070.1	8999.2
5128.8	6055.7	6085.9
5675.1	6243.5	5631.3
5413.0	5728.8	5364.8
6022.5	6443.1	4368.0
5461.6	5815.4	4329.0
7203.9	9531.8	7655.6
9199.6	11074.0	9689.0
294.5	423.2	163.7
5836.1	5513.8	6749.4
5818.0	6705.1	5451.7
2766.4	2946.5	2056.1
5224.1	5372.5	4874.1
3343.4	2629.4	1332.9
7756.9	9546.3	7338.6
366.7	455.8	222.3
7783.8	5281.4	4797.5
1458.5	1924.3	741.9
4294.1	3520.1	3864.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Oceanospirillales	f__ZA3412c
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus

s__unclassified	2416
s__unclassified	2418
s__unclassified	2452
s__unclassified	2522
s__unclassified	2642
s__unclassified	2748
s__unclassified	2761
s__unclassified	2983
s__unclassified	2985
s__unclassified	3016
s__unclassified	3059
s__unclassified	3060
s__unclassified	3164
s__unclassified	3228
s__unclassified	3269
s__Actinobacillus capsulatus	6643
s__Actinobacillus capsulatus	7077
s__Actinobacillus indolicus	6342
s__Actinobacillus indolicus	6446
s__Actinobacillus indolicus	6467
s__Actinobacillus indolicus	7161
s__Actinobacillus indolicus	7585
s__Actinobacillus pleuropneumoniae	7222
s__Actinobacillus porcinus	7404
s__Actinobacillus porcitonsillarum	6450
s__Actinobacillus porcitonsillarum	7214
s__Actinobacillus porcitonsillarum	7416
s__Actinobacillus porcitonsillarum	7520
s__Actinobacillus rossii	6568
s__Actinobacillus succinogenes	7021
s__Actinobacillus succinogenes	7428
s__Actinobacillus suis	7419
s__Actinobacillus suis	7456
s__Haemophilus parahaemolyticus	6470
s__unclassified	6281
s__unclassified	6318
s__unclassified	6411
s__unclassified	6468
s__unclassified	6502
s__unclassified	6545
s__unclassified	6586

GU061277.1 gg_id:588515 Evaluation culturing methods cultivate previously Yel Sea intertidal beach seawater GU061
GQ349185.1 gg_id:588789 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
AF468261.1 gg_id:80175 Arctic pack ice; northern Fram Strait; 80 31.1 N; 01 deg 59.7 min E clone ARKDMS-58 AF4682
EU050830.1 gg_id:255358 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_08_75 EU0508
AJ581349.1 gg_id:92209 Mediterranean sponge clone E01-9C-12 AJ5813
GQ337223.1 gg_id:591094 Hydrography shapes biogeography deep Arctic Ocean water depth 900m clone CB1 GQ337
EU800017.1 gg_id:313341 It's all ranking aquatic Newport Harbour RI clone 1C227703 EU800
FJ403058.1 gg_id:361395 Disease- changes healthy and diseased colonies Caribbean coral Montastrea faveolat FJ4030
EU005712.1 gg_id:264274 Major activity inside and outside natural iron-fertilized phytoplankton bloom 3 micro EU005
GU061256.1 gg_id:540813 Evaluation culturing methods cultivate previously Yel Sea intertidal beach seawater GU061
GQ349050.1 gg_id:557301 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
DQ015809.1 gg_id:140174 Antarctic lake water clone ELB16-104 DQ015
FM242300.1 gg_id:337520 sequences sediment clone 3 T9d-oil FM242
EU050829.1 gg_id:255625 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_07_49 EU0508
AY701467.1 gg_id:108544 dinoflagellate symbiont clone GCDE08_AE AY7014
DQ666550.1 gg_id:167594 Actinobacillus capsulatus str. 266/7370 DQ666
DQ666548.1 gg_id:170688 Actinobacillus capsulatus str. 266/5603 DQ666
DQ229009.1 gg_id:160043 Haemophilus parasuis str. ME4 DQ229
AY362891.1 gg_id:101090 Actinobacillus indolicus str. 46KC2 AY3628
AF268965.1 gg_id:22523 Actinobacillus indolicus str. H1422 AF2689
AF268962.1 gg_id:31672 Actinobacillus indolicus str. H1269 AF2689
EF396307.1 gg_id:246454 Actinobacillus indolicus WB52/06-1 EF3963
DQ229002.1 gg_id:160636 Actinobacillus pleuropneumoniae 262/04 DQ229
FJ437063.1 gg_id:368836 Actinobacillus porcinus str. 35NTS FJ4370
EF173411.1 gg_id:207951 Actinobacillus porcitonsillarum str. WT6N EF1734
EF173406.1 gg_id:207735 Actinobacillus porcitonsillarum str. WT5A EF1734
EF173407.1 gg_id:212933 Actinobacillus porcitonsillarum str. WT1B EF1734
EF173404.1 gg_id:213833 Actinobacillus porcitonsillarum str. WT2A EF1734
AF025839.1 gg_id:9515 Actinobacillus rossii str. JF1390 AF0258
EU074771.1 gg_id:244021 Actinobacillus succinogenes str. S.JST EU0747
AY362898.1 gg_id:102230 Actinobacillus succinogenes str. CCUG 43843 AY3628
AF015299.1 gg_id:9589 Actinobacillus suis str. CCM5586 AF0152
AY362900.1 gg_id:106038 Actinobacillus ureae str. CCUG 2139 AY3629
AJ295746.3 gg_id:52835 Haemophilus parahaemolyticus str. NCTC 8479T AJ2957
AY029174.1 gg_id:69899 Actinobacillus arthritidis str. 13/225/95 AY0291
AF268949.1 gg_id:73428 Actinobacillus minor str. H1473 AF2689
FJ939592.1 gg_id:569406 Haemophilus parahaemolyticus str. PN129 FJ9395
AY465359.1 gg_id:109412 Actinobacillus equuli str. B96/12; JF2421 AY4653
GQ074659.1 gg_id:420587 Topographical and Temporal Human Skin Microbiome skin umbilicus clone nbw164g GQ074
AF268947.1 gg_id:31668 Actinobacillus minor str. H1468 AF2689
EF396305.1 gg_id:244335 Haemophilus parasuis WB25/06-1 EF3963

8434.1	2074.9	2227.4	2416.2	2652.2	3255.8	3126.1	2997.6	2265.8	2542.2	1608.0
580.3	4679.0	4853.4	5095.5	5230.7	5426.3	4499.8	5897.3	5095.3	7625.8	3786.3
7960.3	5753.1	6096.5	5481.7	6392.2	6750.5	7327.7	6040.4	6736.9	4225.8	4646.9
2608.1	4290.2	4545.6	5512.3	4383.8	5800.3	4815.8	6393.4	4790.0	7939.7	5783.5
81.8	1400.1	1483.7	1401.6	1702.3	1917.5	2432.1	2174.5	1411.6	1026.3	1130.8
2229.0	3093.9	3170.5	3530.5	3024.6	4041.5	2685.0	4237.5	3835.9	6709.8	2600.1
589.7	2130.1	2708.6	3068.7	2725.8	3036.4	2770.8	3104.1	2456.9	3011.7	2634.9
4773.1	5321.1	5834.9	6355.4	5750.3	5964.9	6974.8	5829.6	5515.8	7305.5	6237.4
396.4	1752.2	3686.7	2127.1	1560.3	2036.9	1928.6	2136.2	1022.7	6531.1	3182.3
11045.9	7095.6	7276.3	6954.6	8812.5	8231.2	8111.3	8437.8	10932.0	10624.9	7650.0
8037.6	3398.6	4584.2	3644.9	3978.6	3883.3	3834.3	5521.6	7046.3	4405.4	3815.6
1589.8	3025.9	2918.2	2804.5	3292.7	3296.8	3087.3	3185.3	1449.8	3281.0	2448.1
245.4	1331.9	1314.8	1623.9	1785.0	1482.1	1428.3	1276.4	1553.3	876.7	940.9
947.4	1862.2	2132.7	2392.1	2618.1	3310.3	2319.9	3106.2	1753.0	3111.3	1522.1
2270.3	1529.6	1813.7	2373.3	1594.7	1332.1	1451.4	2075.6	1610.3	1099.4	970.0
1813.8	7132.5	6351.4	8052.7	7221.6	7718.0	7074.7	7403.4	8832.2	7315.1	6719.3
2799.0	1727.4	1966.2	2527.6	2204.8	2135.5	2692.1	2697.0	2254.0	2444.3	2524.2
1445.7	2357.2	3304.6	3263.5	2083.0	3042.4	2247.3	3776.5	3001.5	4445.4	2751.6
5136.5	7096.3	7503.7	7767.6	6443.5	8096.7	6204.1	8624.1	8631.2	8141.3	10241.5
3017.3	5312.0	7076.0	7436.6	5396.0	8009.3	3964.4	8186.6	7023.8	11969.6	6215.0
620.5	4638.7	5898.8	6057.4	4135.7	6337.8	3142.8	6719.4	5913.8	10475.8	4999.1
1816.2	3725.7	4531.6	4339.0	3181.4	4742.4	3096.9	4658.7	3935.6	5690.6	3805.7
370.3	1675.8	2496.2	2542.8	1264.1	2761.6	824.3	2864.8	1757.3	4078.5	1793.6
774.1	2802.7	2785.3	2698.3	1604.8	3070.1	2209.4	2324.4	3262.6	3241.7	1945.1
1794.7	3916.9	4701.7	5349.1	3963.5	4682.3	4499.8	4806.3	3528.3	7689.7	3722.8
1737.1	3257.0	4381.3	4904.5	2725.1	4378.1	2539.6	4857.5	3476.1	7057.9	3442.4
1451.1	2745.5	3330.2	3810.8	2461.2	3080.8	3409.4	3048.6	1789.2	3930.1	3199.4
1931.3	3920.9	5016.1	5351.3	3966.6	4991.3	4512.7	4809.9	3526.5	7178.1	3722.4
186.5	680.5	334.2	379.2	477.0	1624.9	260.8	751.1	705.2	443.3	224.5
9396.3	4844.0	4945.6	5508.7	6190.0	5105.2	6423.1	4911.3	9037.5	7564.0	7214.4
3869.0	3247.0	3865.9	4163.2	4598.2	3598.0	4826.6	3050.2	3096.1	5626.4	5271.5
356.4	3671.8	3436.1	3624.2	2801.4	3743.6	2188.2	3538.9	3273.6	4292.2	4073.5
76.6	2798.3	2899.5	4431.7	2152.1	3301.5	2107.7	4762.1	1649.7	2451.9	2470.9
59.7	1203.1	965.7	1000.9	769.4	1240.4	854.9	1244.3	915.5	1075.9	1030.7
243.7	4736.3	5007.7	6057.4	3979.4	5051.8	5137.5	5851.3	3013.2	5937.4	4652.0
429.7	4150.5	5377.4	7694.0	3933.2	4551.3	4054.0	5060.6	4111.4	8194.2	4329.6
56.6	2689.5	2507.2	3767.8	1141.4	2798.9	1520.7	3529.9	1065.3	4075.0	1547.6
253.0	3515.1	3265.4	3634.4	2933.3	3480.9	3185.8	3291.7	2858.2	4441.4	2770.9
2427.1	7385.8	9106.9	10766.0	7327.1	7496.8	10055.3	9274.0	7968.3	12509.6	9037.0
1406.3	7147.2	7032.5	8272.2	11295.3	7313.7	6813.0	8926.0	9040.9	7904.0	11163.5
2623.4	3047.5	3818.5	3812.0	2952.0	3728.5	2710.9	4930.1	3997.8	5505.3	3304.3

3479.0	3744.0	2170.2
5931.2	6117.4	5056.4
6723.3	6612.3	6497.8
6497.4	6859.4	5675.3
1913.4	2133.6	1138.7
4363.2	5699.9	3508.8
3619.3	3532.2	2641.9
6444.3	6562.3	5292.0
2574.8	2771.3	1477.5
8759.3	9031.0	8142.7
4048.4	3228.9	4766.1
3220.9	3714.7	3796.2
1696.4	1618.1	1268.6
3575.8	3584.8	2163.3
2317.8	2523.6	1257.1
7830.7	6700.5	5632.5
2304.6	2402.1	2270.5
5139.7	4606.6	2547.0
10104.3	8906.5	6277.0
8945.7	8243.3	5235.6
6524.1	7228.6	4445.6
4717.3	5349.9	3794.9
2687.5	3095.7	1230.5
3802.6	3088.5	2618.0
5125.9	5015.6	3976.5
4562.3	5090.9	3107.7
3428.5	2638.7	2563.4
5127.9	4709.9	3977.1
598.1	1292.4	1558.5
4483.8	6760.1	4974.0
3096.3	3227.6	4172.7
3870.7	3434.6	1917.2
3778.0	3415.2	2437.7
1012.5	1593.1	968.4
5894.5	5053.0	4871.3
4918.7	4329.3	3252.4
3271.2	2695.8	1324.5
3612.4	3117.8	2497.7
8098.2	7414.7	6367.0
8651.7	7594.7	5374.0
4119.1	4690.3	3534.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae

g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Actinobacillus
g__Aggregatibacter
g__Aggregatibacter
g__Aggregatibacter
g__Aggregatibacter
g__Aggregatibacter
g__Avibacterium
g__Avibacterium
g__Avibacterium
g__Avibacterium
g__Basfia
g__Basfia
g__Bibersteinia
g__Bibersteinia
g__Bibersteinia
g__Chelonobacter
g__Chelonobacter
g__Chelonobacter
g__Chelonobacter
g__Chelonobacter
g__Gallibacterium
g__Gallibacterium

s__unclassified	6606
s__unclassified	6620
s__unclassified	6625
s__unclassified	6776
s__unclassified	6782
s__unclassified	6799
s__unclassified	6841
s__unclassified	6842
s__unclassified	6940
s__unclassified	7017
s__unclassified	7045
s__unclassified	7052
s__unclassified	7106
s__unclassified	7134
s__unclassified	7178
s__unclassified	7201
s__unclassified	7248
s__unclassified	7261
s__unclassified	7270
s__unclassified	7594
s__Aggregatibacter actinomycetemcomitans	6654
s__Aggregatibacter actinomycetemcomitans	6847
s__Aggregatibacter aphrophilus	6292
s__Aggregatibacter aphrophilus	6535
s__Aggregatibacter segnis	6618
s__Avibacterium gallinarum	6758
s__Avibacterium paragallinarum	7305
s__unclassified	6328
s__unclassified	6338
s__Mannheimia succiniciproducens	6773
s__unclassified	6556
s__Bibersteinia trehalosi	6660
s__Bibersteinia trehalosi	7249
s__unclassified	6919
s__Bisgaard Taxon 14	7158
s__Bisgaard Taxon 14	7492
s__unclassified	6373
s__unclassified	6949
s__unclassified	7282
s__Gallibacterium anatis	6431
s__Gallibacterium anatis	6432

AY172727.1 gg_id:91684 Bisgaard taxon 26 biovar 1 str. F66 AY1727
AF145255.1 gg_id:9586 Actinobacillus capsulatus str. 63595 AF1452
EU746660.2 gg_id:347029 Actinobacillus minor str. 202 EU7466
AF359941.1 gg_id:21084 Acidithiobacillus thiooxidans str. KCTC 8928P AF3599
ACQL01000137.1 gg_id:384731 Actinobacillus minor str. NM305 ACQL0
AF224295.1 gg_id:73432 Actinobacillus capsulatus str. P796 AF2242
DQ926691.1 gg_id:180536 Actinobacillus porcitonsillarum str. 71123 DQ926
EF173412.1 gg_id:212302 Actinobacillus porcitonsillarum str. WT7N EF1734
DQ229007.1 gg_id:160015 Actinobacillus minor 2134 DQ229
AF381187.1 gg_id:70103 Actinobacillus cf. equuli str. CCUG 19799 AF3811
DQ926692.1 gg_id:191170 Actinobacillus porcitonsillarum str. 73706 DQ926
AF268948.1 gg_id:74197 Actinobacillus minor str. H1470 AF2689
AF247720.1 gg_id:58548 Actinobacillus equuli str. I5445/4 AF2477
GQ074426.1 gg_id:385551 Topographical and Temporal Human Skin Microbiome skin umbilicus clone nbw162g GQ074
FJ435959.1 gg_id:367622 Actinobacillus minor str. 33PN FJ4359
AF247723.1 gg_id:70395 Actinobacillus lignieresii str. F 264 AF2477
AF247717.1 gg_id:58549 Actinobacillus arthritidis str. F 141 AF2477
AF224285.1 gg_id:72378 Actinobacillus capsulatus str. CCUG 37035 AF2242
AF268945.1 gg_id:27164 Actinobacillus minor str. H1284 AF2689
AF247722.1 gg_id:73342 Actinobacillus lignieresii str. F 127 AF2477
AB512009.1 gg_id:562676 Aggregatibacter actinomycetemcomitans str. OMZ534 AB5120
AB548673.1 gg_id:531143 Aggregatibacter actinomycetemcomitans str. JCM 12985 AB5486
CP001607.1 gg_id:518655 Aggregatibacter aphrophilus str. NJ8700 CP0016
AF227858.1 gg_id:49556 str. 86355 AF2278
AF224299.1 gg_id:17538 Haemophilus segnis str. MCCM 00337 AF2242
EU826042.1 gg_id:551715 Avibacterium sp. str. HP95 EU8260
AY498868.1 gg_id:104700 Haemophilus paragallinarum str. NCTC 11296T AY4988
AY498871.1 gg_id:99711 Haemophilus paragallinarum str. SA7177 AY4988
AY498870.1 gg_id:99555 Haemophilus paragallinarum str. Modesto AY4988
NC_006300.1 gg_id:471413 Mannheimia succiniciproducens str. MBEL55E NC_00
AY029193.1 gg_id:22261 Mannheimia succiniciproducens str. MBEL55E AY0291
DQ841185.1 gg_id:186374 Pasteurella trehalosi str. 06-106810 DQ841
AY757729.1 gg_id:111227 Pasteurellaceae I6 AY7577
AF227862.1 gg_id:31902 Pasteurella sp. str. 37234 AF2278
AY172730.1 gg_id:91205 Bisgaard taxon 32 str. 5108/S2/90 AY1727
AY172729.1 gg_id:91016 Bisgaard taxon 32 str. HPA106 AY1727
EU331064.1 gg_id:578335 Chelonobacter oris str. 1662 EU3310
EU331067.1 gg_id:590073 Chelonobacter oris str. 17123 EU3310
AY362926.1 gg_id:99165 Pasteurella testudinis str. CCUG 19802 AY3629
GQ423354.1 gg_id:563660 Gallibacterium anatis str. Yu-ZMD-XP-3-QG GQ423
GQ423350.1 gg_id:551687 Gallibacterium anatis str. Yu-ZMD-XP-1-QG-3 GQ423

503.5	1806.1	1636.3	1562.4	1852.6	1809.2	1070.1	1839.7	1086.5	1167.2	1090.5
311.8	3670.9	3087.9	3325.9	2488.2	3848.6	1879.8	3552.3	2646.6	4242.1	2856.6
2577.1	4182.9	4924.9	5941.9	4400.7	6640.4	2945.9	5255.8	4525.2	9643.2	3146.8
4754.8	5249.8	6523.3	7520.5	4511.0	6799.0	5700.1	6401.0	3059.2	7374.4	5472.7
2384.3	2159.6	3026.4	4030.3	1788.0	2260.6	2522.8	2978.7	1380.8	3591.4	2720.7
70.5	771.7	1353.6	1632.4	734.8	1255.2	454.4	1994.6	673.4	1393.6	814.9
220.9	4750.9	5351.1	6875.0	3808.8	5198.3	4278.0	5868.7	3043.4	6707.0	4504.8
1585.8	2745.1	3320.4	4081.1	2440.7	3060.6	3366.6	3043.2	1781.9	3930.5	2752.0
268.9	2911.1	4409.2	5327.3	2143.4	4163.4	1888.4	5249.7	3185.4	7481.3	3041.3
180.6	3828.1	3592.8	4055.5	3244.9	4017.3	3424.7	3847.3	3318.8	5460.6	3091.9
229.0	3073.5	3982.2	6072.7	2242.2	3229.8	2993.5	3897.9	1993.9	6437.3	3290.2
221.8	2882.7	4075.0	4281.5	2262.5	4333.6	2946.8	3827.2	2238.8	9785.4	2646.1
4115.8	6299.8	5322.2	6136.3	5808.7	6202.5	5717.6	5845.2	6058.7	7209.8	6384.4
5183.0	6313.2	5861.4	6842.4	4067.7	5858.8	3790.0	5579.1	7604.2	6140.9	8390.5
296.7	3220.7	4061.5	4628.0	2504.6	4773.3	1775.8	4845.8	3733.2	8183.2	2887.3
264.5	5940.9	5795.5	6193.8	5076.3	6279.2	5405.2	6647.7	5102.7	7755.6	4610.1
218.8	4222.3	3489.9	3520.1	3221.7	4110.9	3498.6	3951.0	2433.9	4510.1	2892.1
1661.0	4005.3	4230.1	4558.4	3584.2	4204.5	3937.5	3612.8	3780.4	5433.0	4266.5
1524.6	3132.2	4175.6	4437.5	2757.4	4385.6	2684.1	4386.9	2824.1	7618.0	2964.7
134.9	1422.5	1277.1	1146.5	956.4	1149.1	1118.2	1496.4	1125.6	618.6	812.2
978.6	3792.8	4450.4	4074.4	4015.7	4516.4	3666.9	4730.0	4036.6	4153.3	4487.9
117.1	55.1	56.3	73.6	44.6	48.0	33.3	64.0	73.6	41.9	53.1
402.9	2717.7	2718.5	3221.6	2659.6	3517.0	1780.5	3620.2	3349.2	3541.3	2669.9
4470.7	5435.2	5259.0	6829.7	5832.1	6839.1	4308.4	5633.0	6878.4	7365.9	6541.2
118.1	1704.4	1591.3	1746.1	1144.3	1613.1	1049.1	1929.3	1163.4	2424.7	1147.6
4590.8	5843.7	5286.3	6207.0	5895.2	5086.9	7103.7	6407.1	4772.0	2653.9	3737.0
553.2	2463.9	2227.9	1719.9	1528.3	2539.6	599.7	2729.0	2385.1	1707.7	1281.9
123.6	2094.0	2553.2	2567.0	1785.0	1987.9	2370.0	3247.7	1720.1	2234.0	1559.7
4412.0	4790.2	3957.5	4099.6	3987.1	3932.6	4161.1	4288.2	3646.5	2345.9	2836.5
233.5	1856.5	1635.2	1838.3	1048.2	2324.9	1008.0	2645.5	1783.5	2031.3	1671.2
483.9	1122.1	996.0	999.1	968.0	1001.3	998.8	1319.4	901.5	963.3	1208.4
261.1	3589.9	3407.9	4238.9	3286.3	3633.3	3740.0	4308.6	4302.4	3065.1	2814.4
3620.4	4027.4	5391.0	6361.1	4863.4	5482.9	5687.6	5037.2	6957.6	8712.6	6594.0
632.9	2437.2	2972.1	3615.4	2418.3	3657.0	1543.7	3436.0	3131.7	3526.8	2118.7
157.0	4454.0	4427.2	4803.2	3848.3	4789.0	3102.3	4523.4	5339.1	6573.2	3336.7
25324.5	11182.8	11011.1	11726.4	11356.1	11830.3	11864.6	10951.2	17638.3	16135.6	15260.0
63.3	1320.4	1414.4	1507.3	1450.2	1330.4	1077.7	1516.3	1059.3	485.2	786.9
297.5	1751.8	2974.0	3035.7	842.9	1503.0	1726.7	3267.4	1358.7	1911.2	2217.0
28.0	129.8	119.4	183.3	102.7	105.9	45.6	117.4	53.1	151.3	39.4
2526.2	2519.5	2185.7	2339.2	2854.5	2401.2	2562.8	1848.1	2695.7	2088.9	3401.5
69.4	343.1	329.7	457.0	223.3	376.1	225.5	438.0	163.9	206.0	228.8

2278.3	1718.1	2229.4
3694.9	3517.7	2517.8
6165.6	5978.8	4219.4
7531.5	5319.3	5372.3
2562.4	3296.6	2279.0
856.2	1493.0	817.9
5183.0	4924.5	4317.8
3418.3	2643.0	2563.5
4769.7	5052.9	2323.7
4004.1	3906.4	2959.7
3353.6	3264.0	2287.6
5086.6	4550.6	2519.6
6232.3	5529.7	5175.0
5461.9	5338.0	4203.0
4220.7	5553.9	3316.4
6662.9	6639.5	6324.8
4358.9	3406.1	3726.0
4457.8	4093.8	3123.3
4815.8	4724.3	3016.6
1812.8	1390.3	1271.6
4670.6	4867.1	4490.0
72.1	69.4	58.8
4101.2	3371.0	2669.1
6240.8	7216.0	4782.5
1511.7	2778.2	1255.3
6179.3	5485.4	4101.8
2053.6	2269.1	1467.5
3809.5	2638.5	2295.2
4896.3	4224.3	3391.6
1914.3	2489.6	2222.4
1398.3	1357.8	2010.2
4398.8	4307.2	3980.5
5313.4	6739.6	5390.0
4434.5	4701.2	3592.4
4557.1	5110.1	4762.0
10922.5	11568.0	11316.9
1730.3	1548.7	1748.0
2541.6	2160.5	1276.3
94.6	92.6	61.9
2395.7	2711.9	1932.6
363.0	645.7	259.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae

g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Gallibacterium
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus

s__Gallibacterium anatis	6672
s__Gallibacterium anatis	7322
s__Gallibacterium anatis	7442
s__Gallibacterium anatis	7443
s__Gallibacterium anatis	7545
s__Gallibacterium genomosp. 1	7384
s__Gallibacterium genomosp. 3	7023
s__Gallibacterium melopsittaci	6871
s__unclassified	6419
s__unclassified	6563
s__Haemophilus ducreyi	7354
s__Haemophilus haemolyticus	6279
s__Haemophilus haemolyticus	6300
s__Haemophilus haemolyticus	6327
s__Haemophilus haemolyticus	6382
s__Haemophilus haemolyticus	6537
s__Haemophilus haemolyticus	6608
s__Haemophilus haemolyticus	6682
s__Haemophilus haemolyticus	6781
s__Haemophilus haemolyticus	6805
s__Haemophilus haemolyticus	7075
s__Haemophilus haemolyticus	7213
s__Haemophilus haemolyticus	7293
s__Haemophilus haemolyticus	7364
s__Haemophilus haemolyticus	7606
s__Haemophilus influenzae	6978
s__Haemophilus influenzae	7198
s__Haemophilus influenzae	7531
s__Haemophilus parainfluenzae	6385
s__Haemophilus parainfluenzae	6558
s__Haemophilus parainfluenzae	6624
s__Haemophilus parainfluenzae	6666
s__Haemophilus parainfluenzae	6783
s__Haemophilus parainfluenzae	6787
s__Haemophilus parainfluenzae	7073
s__Haemophilus parainfluenzae	7085
s__Haemophilus parainfluenzae	7182
s__Haemophilus parainfluenzae	7505
s__Haemophilus parainfluenzae	7549
s__Haemophilus parasuis	6341
s__Haemophilus parasuis	6887

GQ423347.1 gg_id:543050 Gallibacterium anatis str. Yu-HL-huang-1-SLG GQ423
AF228009.1 gg_id:70476 Gallibacterium anatis str. 12158 AF228
AF228007.1 gg_id:73745 Gallibacterium anatis str. IPDH 697/78 AF228
AY038594.1 gg_id:73007 Gallibacterium anatis str. Hom.3 AY0385
AF224310.1 gg_id:74034 Actinobacillus cf. salpingitidis CCUG 28018 salpingitidis AF2243
AY038591.1 gg_id:64296 Gallibacterium genomosp. 1 str. Gerl.3191 AY0385
EU339201.1 gg_id:571594 Gallibacterium genomosp. 3 str. F448 EU3392
EU339196.1 gg_id:534387 Gallibacterium melopsittaci str. F450 EU3391
EU423995.1 gg_id:569567 Gallibacterium trehalosifermentans str. B7/99/1 EU4239
FJ841971.3 gg_id:542079 Gallibacterium anatis str. Yu-JZ-YQ-5-SLG FJ8419
NC_002940.2 gg_id:129218 Haemophilus ducreyi str. 35000HP NC_00
EU185475.1 gg_id:239174 Haemophilus haemolyticus str. D62.2 EU1854
EU185365.1 gg_id:248286 Haemophilus haemolyticus str. 24P12H3 EU1853
EU185437.1 gg_id:253598 Haemophilus haemolyticus str. 61224 EU1854
EU185346.1 gg_id:243151 Haemophilus haemolyticus str. 14P38 EU1853
EU185429.1 gg_id:237127 Haemophilus haemolyticus str. 54P15H1 EU1854
EU185362.1 gg_id:237256 Haemophilus haemolyticus str. 1P2H1 EU1853
EU185484.1 gg_id:236050 Haemophilus haemolyticus str. K22.1 EU1854
EU185482.1 gg_id:254806 Haemophilus haemolyticus str. K142.1 EU1854
EU185421.1 gg_id:236390 Haemophilus haemolyticus str. 3P5H EU1854
EU185485.1 gg_id:240164 Haemophilus haemolyticus str. L52.2 EU1854
EU185444.1 gg_id:245827 Haemophilus haemolyticus str. 68P29H EU1854
EU185436.1 gg_id:243777 Haemophilus haemolyticus str. 60P12H2 EU1854
EU185338.1 gg_id:251582 Haemophilus haemolyticus str. 11P8H5 EU1853
EU185407.1 gg_id:236863 Haemophilus haemolyticus str. 32P3H1 EU1854
EU185473.1 gg_id:252539 Haemophilus influenzae str. D152.1 EU1854
AB377158.1 gg_id:543336 Haemophilus influenzae str. GTC 00905 AB3771
AY613497.1 gg_id:110972 Haemophilus influenzae str. M8467 AY6134
EF511979.1 gg_id:218564 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5119
EF509248.1 gg_id:220552 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5092
GQ106447.1 gg_id:375695 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw! GQ106
GQ010997.1 gg_id:498669 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ010
EF509106.1 gg_id:219857 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5091
EF511111.1 gg_id:222083 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5111
EF511117.1 gg_id:226358 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5111
EF511150.1 gg_id:218497 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5111
EF509136.1 gg_id:220176 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5091
GQ011135.1 gg_id:498531 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ011
EF511057.1 gg_id:224454 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5110
DQ229028.1 gg_id:161434 Haemophilus parasuis 393/03-4 DQ229
DQ228991.1 gg_id:160451 Haemophilus parasuis VS7-1 DQ228

29611.5	6417.6	5184.4	6118.2	7147.2	6226.3	5930.4	6864.7	6273.1	5848.8	7273.7
113.6	749.3	737.5	695.0	545.5	943.1	507.7	965.6	576.2	801.9	771.3
2001.6	1148.6	1165.8	1382.3	1279.7	1466.8	894.2	1518.8	1097.1	1986.9	1176.0
230.4	1200.4	936.3	1114.4	1086.7	1209.0	757.0	638.0	893.2	803.8	1148.7
228.1	1090.2	862.0	913.3	1057.0	1090.8	720.3	500.6	857.5	789.9	1088.2
252.7	4113.8	4930.7	5324.5	2780.8	4777.8	2618.8	5230.6	4931.5	8570.0	3141.6
789.9	3577.6	3291.5	4393.8	5025.1	3613.3	4290.1	3796.9	2844.0	2872.1	3258.5
2913.5	3852.6	4112.0	5315.4	5799.7	4741.1	5030.2	5434.3	4322.5	4586.6	3016.4
87.6	837.5	1094.7	912.6	888.1	1304.9	535.9	1459.4	1116.3	1026.5	688.5
200.1	2502.0	2070.2	1968.3	1810.5	2535.2	1399.1	2631.3	2118.8	3148.7	2532.7
357.3	5927.9	6354.3	6920.5	4636.5	7064.5	3767.5	7646.3	7479.6	11604.5	5143.5
700.2	5017.4	5558.5	6174.6	4272.0	5726.8	4440.0	6113.7	5145.5	6184.0	3762.9
129.3	1532.5	1968.3	2294.5	1345.9	2015.7	1547.6	2088.8	1604.1	3420.8	1127.9
404.6	3427.1	4707.8	4713.1	2315.3	5472.8	1756.0	6035.0	3635.2	7226.0	3207.5
486.5	2959.0	3961.6	4678.0	2274.4	4437.2	2305.1	4844.1	3043.9	6762.9	3158.8
687.3	4099.0	4062.3	4694.1	3189.4	4495.0	3474.1	4863.1	2844.8	5005.6	2275.6
429.8	3342.5	3914.7	4650.9	2771.9	4370.5	3449.6	4866.7	3608.3	5452.2	2353.0
527.4	3165.0	3209.4	4062.1	2885.4	3161.7	3837.5	3659.5	3026.0	3816.2	1835.0
981.3	4315.8	5680.8	6652.1	3539.2	6801.0	3393.7	6648.2	5188.3	9260.7	4233.9
443.5	4556.9	5164.9	5896.1	3704.0	5767.0	4586.0	6536.5	5074.5	8059.6	3562.4
478.5	3806.2	4155.8	5119.4	3243.0	3913.9	4009.7	4869.4	3639.8	5674.9	2468.3
206.5	3556.7	3876.6	5546.9	3770.6	4032.7	2866.0	4310.6	3874.4	4090.7	2461.8
1082.3	5904.0	5581.5	6206.7	5962.6	6209.7	5798.0	6952.8	5498.6	8723.0	4204.8
422.0	3396.9	4089.9	4816.5	2861.9	4468.4	3494.0	4861.9	3467.5	5812.6	2420.6
575.6	3782.0	4217.4	5302.1	3608.3	4990.3	3817.5	5685.4	3382.8	5506.2	2669.6
207.7	2637.2	3270.8	3760.3	2327.7	3007.0	2918.5	3611.4	2428.6	2754.9	1791.1
635.2	2780.5	3436.8	3501.2	2672.5	2817.4	3380.4	3595.9	2450.9	1050.7	2540.8
64.1	2420.8	2659.4	3125.1	1909.9	2911.6	2067.8	3039.8	1697.9	2053.5	1998.2
1299.0	5739.2	5998.5	6047.3	5236.0	5534.7	5511.2	5734.2	6783.6	7076.2	7213.2
6556.4	3045.6	3793.0	3379.4	2741.3	3964.5	2731.1	3998.7	3600.2	5319.1	3189.3
23244.7	6949.9	6988.4	7008.2	8236.6	6935.0	7361.8	6860.8	4765.1	9580.9	7678.6
2546.5	5541.1	5205.3	5247.0	5869.5	4948.5	5959.0	5081.3	5455.7	10508.0	6281.7
747.7	1730.9	1746.3	1984.8	1733.6	1859.5	1413.4	2065.5	1540.9	1228.1	1334.8
2281.1	4494.1	3917.1	4596.7	3899.2	4519.5	4378.7	4810.2	7414.4	8597.1	3880.0
62.7	522.6	868.5	810.1	321.0	1119.9	268.6	1176.6	996.9	2270.9	538.9
537.3	1979.9	1625.8	2388.6	1622.7	2241.6	1835.8	2605.9	1744.9	5127.1	2047.5
3558.2	3919.0	4754.5	4779.4	3533.0	4918.8	4046.6	4851.6	5911.7	7559.3	4373.8
3022.5	3034.9	3345.9	3432.0	3747.9	4036.5	4438.4	4300.0	3392.7	8952.7	4132.3
3634.4	3927.8	4215.3	4134.4	3832.3	4039.0	4113.2	4072.7	7263.6	5139.7	5812.0
101.0	965.1	1261.6	1228.8	1046.9	1557.8	876.0	1677.1	984.1	3060.8	746.1
1167.9	1331.8	1902.3	2011.6	1032.4	1451.2	1455.5	2519.3	1125.7	1897.5	1721.2

7296.5	6941.9	5688.3
741.5	1388.9	720.9
1280.9	2301.9	1056.7
1022.4	1457.8	823.1
920.5	1256.8	727.8
5553.6	4553.0	3895.6
4153.3	3208.6	3817.6
5952.5	5617.5	5434.5
1290.2	1869.6	1290.5
2751.1	2449.9	1478.1
7739.7	8093.8	5575.5
7075.1	5674.0	4561.2
2402.9	2704.6	1737.4
7005.7	6296.9	3422.0
5528.6	5603.6	3543.0
5327.3	4570.7	3911.3
5696.1	5378.0	3613.0
4155.0	3963.5	3468.4
8743.9	7552.7	4839.5
7171.1	6369.0	4040.8
5560.9	5066.7	4018.8
5363.8	4400.2	2854.6
6912.4	7118.1	4384.6
5514.5	5416.6	3619.3
6405.9	5660.6	4182.9
3642.9	3834.9	2857.5
4207.8	4668.7	5114.0
2886.7	3593.1	3090.6
6243.8	6521.5	4380.4
4971.9	5319.0	3031.1
7603.4	8679.6	6779.4
4389.3	6180.5	4872.1
1594.8	1642.4	1595.5
3953.8	5051.2	4094.8
1349.8	1680.5	522.1
2548.3	3176.2	2166.7
5116.2	5627.6	3708.5
4204.5	5669.3	2393.6
3789.0	4504.3	3596.3
1999.5	3212.7	1365.3
2202.2	2149.9	1848.9

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae

g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Haemophilus
g__Histophilus
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia

s__Haemophilus parasuis	6930
s__Haemophilus parasuis	7108
s__Haemophilus parasuis	7170
s__Haemophilus parasuis	7276
s__unclassified	6245
s__unclassified	6293
s__unclassified	6331
s__unclassified	6361
s__unclassified	6427
s__unclassified	6433
s__unclassified	6477
s__unclassified	6479
s__unclassified	6492
s__unclassified	6525
s__unclassified	6562
s__unclassified	6653
s__unclassified	6658
s__unclassified	6674
s__unclassified	6731
s__unclassified	6764
s__unclassified	6816
s__unclassified	6827
s__unclassified	6849
s__unclassified	6869
s__unclassified	6941
s__unclassified	6955
s__unclassified	7164
s__unclassified	7279
s__unclassified	7287
s__unclassified	7329
s__unclassified	7374
s__unclassified	7390
s__unclassified	7532
s__unclassified	7569
s__unclassified	7570
s__Histophilus somni	7620
s__Mannheimia granulomatis	7039
s__Mannheimia granulomatis	7457
s__Mannheimia ruminalis	6920
s__Mannheimia ruminalis	7140
s__Mannheimia ruminalis	7460

FJ463836.1 gg_id:363177 Haemophilus sp. str. HP 65-1 FJ4638
AB370297.1 gg_id:271851 Haemophilus parasuis str. 332 AB370
FJ667952.1 gg_id:540531 Haemophilus parasuis str. Nagasaki FJ6679
DQ229016.1 gg_id:161508 Haemophilus parasuis RW DQ229
FJ667979.1 gg_id:513849 Haemophilus parasuis str. NO145 FJ6679
EU909653.1 gg_id:354221 Haemophilus sp. str. CCUG 17210 EU909
FJ558112.1 gg_id:526872 Survey Approach Assess Endotracheal Tube Biofilms and their Origins biofilm extubat FJ5581
FJ667959.1 gg_id:560868 Haemophilus parasuis str. HS1075 FJ6679
EU185432.1 gg_id:245942 Haemophilus haemolyticus str. 58122 EU185
GQ091882.1 gg_id:376235 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ091
GQ087742.1 gg_id:420505 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ087
AB078972.1 gg_id:30824 Haemophilus parasuis 312 AB078
EU185439.1 gg_id:239937 Haemophilus haemolyticus str. 654210 EU185
FJ558093.1 gg_id:517548 Survey Approach Assess Endotracheal Tube Biofilms and their Origins biofilm extubat FJ5580
FJ983093.1 gg_id:414943 Aspects Oral Microbiome subgingival plaque clone FJ9830
GQ083506.1 gg_id:440265 Topographical and Temporal Human Skin Microbiome skin alar crease clone nbw24 GQ083
GQ114305.1 gg_id:423130 Topographical and Temporal Human Skin Microbiome skin manubrium clone nbw59 GQ114
GQ074383.1 gg_id:392625 Topographical and Temporal Human Skin Microbiome skin umbilicus clone nbw162c GQ074
GQ116263.1 gg_id:457345 Topographical and Temporal Human Skin Microbiome skin occiput clone nbw690c02 GQ116
GQ091843.1 gg_id:409269 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ091
EU341202.1 gg_id:255127 Evaluation Rapid Technologies Estimate Microbial Burden and Commercial Airline Ca EU341
GQ087761.1 gg_id:421332 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ087
EU185461.1 gg_id:235553 Haemophilus haemolyticus str. 93P10H4 EU185
X87978.1 gg_id:9509 Haemophilus influenzae str. 16N X87978
AY362910.1 gg_id:102232 Haemophilus parasuis str. Bakos B26 AY362
AY005033.1 gg_id:72532 subgingival dental plaque clone BJ095 AY005
GQ083015.1 gg_id:429541 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ083
DQ228998.1 gg_id:160846 Haemophilus parasuis P015/96 DQ228
EU909656.1 gg_id:340606 Haemophilus sp. str. CCUG 18082 EU909
AJ290754.2 gg_id:44396 Haemophilus parainfluenzae str. P1525 AJ2907
EU137565.1 gg_id:261499 Bartonella-positive fleas: and assembly patterns Oropsylla hirsuta (prairie dog flea) C EU137
GQ113941.1 gg_id:391680 Topographical and Temporal Human Skin Microbiome skin retroauricular crease clor GQ113
FJ558391.1 gg_id:531822 Survey Approach Assess Endotracheal Tube Biofilms and their Origins biofilm extubat FJ5583
GQ116286.1 gg_id:429653 Topographical and Temporal Human Skin Microbiome skin occiput clone nbw690g02 GQ116
EU909680.1 gg_id:307019 Haemophilus sp. str. PN24 EU909
AB176910.1 gg_id:114966 Histophilus somni str. 129Pt AB176
AF053901.1 gg_id:9609 Mannheimia granulomatis str. Ph13; CCUG 26828 AF053
DQ301924.2 gg_id:146654 Mannheimia granulomatis str. W4672/1 DQ301
AF053896.1 gg_id:9605 Mannheimia ruminalis str. HPA98; CCUG38466 AF053
AY425286.1 gg_id:107110 Mannheimia ruminalis str. HPA109 AY425
AY425283.1 gg_id:106648 Mannheimia ruminalis str. HPA113 AY425

1285.8	3223.7	3834.4	4234.1	2350.6	3872.9	2731.3	5207.0	3085.0	4111.8	3340.5
1317.1	2327.5	2307.4	2260.1	1830.6	2936.4	1610.8	3696.3	2163.3	2521.4	1997.5
1172.5	2122.5	3207.4	3559.1	1376.2	2969.9	1678.4	4173.0	1960.7	4296.7	2437.8
122.0	1047.6	1055.2	1237.7	708.1	1071.0	624.7	2318.8	382.5	966.1	779.8
8969.7	4112.9	5716.1	6091.9	3443.7	4842.3	3960.8	6182.3	4987.2	7925.8	6531.3
448.9	2354.7	3186.0	3271.6	1803.4	3314.8	1791.7	3904.6	2305.9	4718.5	2597.1
652.3	4261.3	5188.3	5985.2	3990.2	5093.8	4517.2	5813.7	4527.1	7363.6	4082.5
192.5	1624.4	1775.4	1689.6	1292.2	2222.0	1132.9	2739.7	1385.7	2850.9	1021.8
427.4	4407.5	5393.7	5367.8	3553.3	5181.7	3660.4	6802.1	5132.2	10177.2	4086.3
11935.4	8227.9	7918.8	8937.6	10564.4	8673.3	9428.6	9141.7	8889.3	10198.7	6975.3
430.3	3949.2	4543.2	4912.9	3213.8	4376.6	4172.9	5222.9	4302.0	6631.9	3750.5
1165.6	1430.2	2199.7	2384.1	1022.9	1776.5	1141.4	3124.2	1212.7	2392.6	1806.4
311.6	3070.9	3658.8	4341.1	2510.0	3830.4	2986.2	4279.1	3367.5	5593.5	2239.0
1316.4	5816.8	6555.2	7431.4	6519.3	5959.7	6195.9	6248.2	6035.0	7436.1	5157.1
7583.0	5441.1	5337.1	6335.4	4950.9	5483.9	5362.6	5539.3	7286.9	6232.7	7881.9
1410.1	4941.4	5064.2	4940.8	5157.4	6025.0	3636.0	5999.2	5452.6	8867.2	4060.5
610.6	4196.3	5036.2	5660.8	3690.1	4960.4	3868.3	5437.3	4389.1	6783.3	4029.1
125.3	5466.5	6965.4	7302.9	4332.7	6606.6	4673.7	8319.8	6254.2	9915.6	6258.0
479.0	3579.7	4681.8	5176.7	3107.4	4541.8	3306.1	5039.1	4410.0	7210.2	3847.4
427.1	3597.4	4288.7	4938.2	2682.3	4477.0	3288.2	5110.4	3867.2	5464.2	2848.4
292.6	3571.5	4126.9	4951.4	2674.3	4651.1	3369.8	5055.2	3618.6	5779.2	3024.5
650.8	3850.5	4632.9	5120.5	3952.0	4542.6	4051.7	5244.9	4148.3	7102.4	3790.1
238.8	4081.2	4834.1	5535.7	3213.4	4857.5	2095.6	6704.4	3489.0	7238.8	2954.3
525.9	4000.2	5117.6	6203.8	2822.7	5036.1	2559.2	6259.2	3848.4	9104.5	3903.2
1599.0	3337.5	3449.9	3691.7	2826.9	3146.0	2987.6	4201.8	3044.1	2977.0	4237.1
52.6	891.6	1213.4	1330.0	831.7	1524.2	600.8	1942.8	821.9	2021.4	640.2
481.9	3083.8	3383.1	3916.0	2553.7	3194.8	2885.4	4062.7	2327.0	4332.2	2641.1
2413.0	4186.4	4668.2	5076.4	3079.8	3924.1	3422.7	5378.9	2684.6	3414.8	4411.0
146.0	2386.6	3363.3	3834.7	1956.2	2859.3	2498.0	3584.7	2109.3	3946.2	2308.3
628.5	2434.0	2399.4	2657.6	3257.3	3153.4	3532.2	3019.5	1403.7	2381.6	1829.8
100.8	1690.8	2179.3	2756.7	1365.9	2180.7	1365.5	2752.0	1386.8	2926.0	1742.1
77.9	1612.3	1609.7	2155.3	1001.7	1334.2	1616.9	1964.1	961.6	1125.2	880.0
456.5	2855.0	3796.9	4064.3	1921.5	3660.0	2184.7	4151.6	2583.0	5780.7	3332.0
23364.5	11229.2	11387.0	12431.3	11630.1	11367.3	11996.5	11265.5	16431.9	15503.7	13988.5
766.9	5041.2	5891.3	7072.5	4205.0	5382.4	4772.9	6554.7	4166.7	6998.6	4088.9
40.6	139.2	185.3	145.4	84.4	66.4	66.6	171.9	66.0	117.5	60.3
6247.4	4219.3	3433.3	3954.9	4015.2	4413.4	2901.8	3197.3	4615.7	2532.2	2892.4
243.6	2709.7	2465.4	2739.0	1933.1	3209.9	1210.1	2291.4	2985.1	1494.8	1603.7
343.6	2126.0	1401.0	1971.1	1278.9	1719.5	1036.1	1021.1	1768.9	355.0	741.8
775.0	4594.8	4238.7	4378.6	3981.1	5283.8	2990.6	4118.3	4720.6	4613.0	2686.1
328.4	1998.5	2062.1	2617.6	1315.4	1898.5	1168.9	2130.0	2316.5	1787.6	1145.4

4560.8	4380.7	3469.4
3627.7	3757.3	2869.9
3268.6	3352.6	2132.7
1379.4	2062.1	1552.0
6291.6	5930.6	3868.9
4476.9	4396.4	3127.3
6621.6	5819.4	3886.4
3199.1	3872.2	1856.4
7192.0	6139.6	4021.8
10490.7	8934.3	7450.4
5613.1	5117.9	3129.1
2493.8	2373.5	1828.5
4252.1	4761.0	3693.6
7115.3	6478.6	4831.4
5090.7	6503.1	5278.2
5490.2	6225.0	3739.3
6127.7	5575.0	3532.3
8815.0	7683.2	4174.2
5700.6	5582.6	3401.6
5955.9	5363.4	3136.0
5385.5	5314.5	4698.0
5590.3	5484.1	3451.4
6334.2	5645.8	2756.4
6617.3	6055.9	3946.5
3635.5	3280.7	2782.1
1990.5	1744.9	1143.0
4329.2	3856.3	2370.8
4462.9	4811.0	4691.6
3900.3	3868.8	2730.8
2585.5	4180.6	4331.5
2557.4	3156.3	1624.2
2174.2	1942.3	1965.6
4898.6	4488.7	2356.7
10242.6	10597.0	9636.8
7619.2	6169.1	4426.1
134.2	219.5	121.7
3584.0	3976.1	4743.9
1616.4	2521.4	2384.9
1123.0	1355.2	1993.2
4402.0	5208.7	4824.5
1574.6	1771.4	1636.0

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae

g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Mannheimia
g__Nicoletella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__Pasteurella
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__Mannheimia ruminalis	7525
s__Mannheimia varigena	6349
s__Mannheimia varigena	6734
s__Mannheimia varigena	7166
s__unclassified	6369
s__unclassified	6387
s__unclassified	6452
s__unclassified	6845
s__unclassified	7065
s__unclassified	7259
s__unclassified	7430
s__unclassified	7459
s__unclassified	7572
s__Nicoletella semolina	6415
s__Pasteurella aerogenes	7105
s__Pasteurella canis	7255
s__Pasteurella mairii	7231
s__Pasteurella multocida	6840
s__Pasteurella multocida	6982
s__Pasteurella multocida	7225
s__Pasteurella pneumotropica	7454
s__unclassified	6290
s__unclassified	6363
s__unclassified	6482
s__unclassified	6576
s__unclassified	6669
s__unclassified	7089
s__unclassified	6244
s__unclassified	6248
s__unclassified	6263
s__unclassified	6298
s__unclassified	6438
s__unclassified	6542
s__unclassified	6680
s__unclassified	6720
s__unclassified	6771
s__unclassified	6848
s__unclassified	6866
s__unclassified	6867
s__unclassified	6878
s__unclassified	6888

AY425290.1 gg_id:102351 Mannheimia ruminalis str. HPA114 AY4252
NR_024897.1 gg_id:575542 Mannheimia varigena str. 177; CCUG 38462 NR_02
DQ301926.2 gg_id:149765 Mannheimia varigena str. 3997/82 DQ301
DQ301927.2 gg_id:148422 Mannheimia varigena str. H39 DQ301
U57069.1 gg_id:9606 Mannheimia haemolytica str. PH192 U5706
AY362913.1 gg_id:102691 Mannheimia granulomatis str. ATCC 49244 AY3629
AF224287.1 gg_id:38515 Pasteurella haemolytica str. CCUG 28148 AF2242
AF053891.1 gg_id:9614 Mannheimia glucosida str. P737; CCUG 38459 AF0538
U57072.1 gg_id:9590 Mannheimia haemolytica str. PH704 U5707
DQ301923.1 gg_id:145499 Mannheimia glucosida str. P933 DQ301
AF224286.1 gg_id:72830 Mannheimia sp. MCCM 00145 AF2242
U57070.1 gg_id:9601 Mannheimia haemolytica str. PH40 U5707
AY425282.1 gg_id:106492 Mannheimia varigena str. V1835 AY4252
AY508828.1 gg_id:105688 Nicoletella semolina str. CCUG 43643 AY5088
U66492.1 gg_id:9498 Pasteurella aerogenes str. P U6649
EF579842.1 gg_id:278925 Pasteurella canis str. Group868/2 EF5798
DQ211736.1 gg_id:171809 Pasteurella mairii str. JF3176 DQ211
EU652767.1 gg_id:286210 Pasteurella subsp. multocida str. Pmww07824 EU6527
AY299318.1 gg_id:103885 Pasteurella multocida str. PM80 AY2993
AY507110.1 gg_id:104353 Pasteurella multocida str. X225 AY5071
AB279579.1 gg_id:187444 Pasteurella sp. str. V6 AB2795
AY299315.1 gg_id:103457 Pasteurella multocida str. PM64 AY2993
AY362925.1 gg_id:99002 Pasteurella stomatis str. CCUG 17979 AY3629
AY299319.1 gg_id:104032 Pasteurella multocida str. PM82 AY2993
AF224296.1 gg_id:69985 Pasteurella pneumotropica str. NCTC 10827 AF2242
AY362920.1 gg_id:107231 Pasteurella dagmatis str. CCUG 12397 AY3629
AY299316.1 gg_id:103590 Pasteurella multocida str. PM106 AY2993
FJ832327.1 gg_id:579924 Microbial Ecology Crop Folivorous Hoatzin crop contents clone P1Q301_30F04 FJ8323
FJ976392.1 gg_id:552339 Interindividual healthy human oral microbiota mouth clone 24B192 FJ9763
AY362918.1 gg_id:103434 Pasteurella caballi str. ATCC 49197 AY3629
AJ251339.1 gg_id:32352 Bisgaardia hudsonenesis str. 98-D-690B AJ2513
AY362917.1 gg_id:103283 Pasteurella bettyae str. CCUG 2042 AY3629
EU681975.1 gg_id:289990 microflora imbalances intestine dogs inflammatory bowel disease duodenum dog IBI EU6819
EU681998.1 gg_id:293231 microflora imbalances intestine dogs inflammatory bowel disease duodenum health EU6819
GQ111280.1 gg_id:419174 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ111
AY172732.1 gg_id:91315 Bisgaard taxon 40 str. B301529/00/1 AY1727
AY465363.1 gg_id:109416 Actinobacillus rossii str. B96/45; JF2425 AY4653
AY362894.1 gg_id:101590 Actinobacillus muris str. NCTC 12432 AY3628
GQ111657.1 gg_id:453130 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ111
M75052.1 gg_id:9466 Pasteurella species M7505
AF224311.1 gg_id:36769 Haemophilus sp. str. MCCM 01557 AF2243

342.4	3284.9	2956.3	3007.2	1999.0	3429.2	1649.2	2818.6	2758.2	2045.7	1739.1
1616.3	2142.1	3317.3	3704.9	1396.1	2567.8	1470.3	3687.3	1923.2	3949.0	2568.0
1844.1	4317.7	5273.8	5851.9	3751.9	5088.8	3157.3	6044.1	4333.3	7177.4	4308.8
3338.8	4573.4	5347.8	5700.0	4312.1	5769.9	3239.9	5869.7	5616.7	8137.6	3627.6
344.7	3217.8	2683.9	2908.2	2291.6	3411.5	1676.6	2710.4	3432.2	1800.2	1816.2
115.2	2253.6	2761.1	2976.1	2896.7	2473.0	1460.4	3378.8	3233.4	2000.9	1941.7
1479.4	3289.8	4564.3	5450.0	3251.9	4127.0	2608.4	5068.2	4035.6	6664.9	3461.7
259.3	2823.1	2277.0	2351.5	1724.4	2654.4	1533.8	2179.0	2709.7	1050.2	1470.8
432.6	4330.9	5271.3	6154.6	3353.5	4404.8	3054.9	5428.6	4794.3	7396.6	4380.4
288.1	4008.1	5138.9	5638.3	2970.3	5023.6	3032.1	5621.6	5888.0	5985.7	3446.5
241.0	3672.3	2825.3	2912.0	2026.6	2436.2	1479.1	2874.5	3038.5	2285.7	2014.6
4054.1	5558.6	6921.3	8136.5	4663.4	7700.7	3244.1	8132.1	7729.4	9979.5	5340.4
2710.5	2773.3	4044.4	5021.8	1780.0	2877.2	1831.1	4168.2	2458.6	4921.0	2923.4
93.2	1406.3	1565.2	2237.8	1007.7	943.2	1879.0	1960.6	655.3	1086.4	803.0
236.5	3874.6	4693.4	4299.9	1928.2	2656.6	2011.2	3629.1	2770.5	4000.4	3165.6
856.2	2589.3	2797.6	2877.8	2599.0	3131.8	2748.7	3516.1	2333.1	3444.6	1954.5
746.1	3044.5	2813.3	2195.9	1756.1	2992.9	1514.3	2535.1	2308.2	3362.0	1401.6
94.7	1371.0	1053.6	1122.1	1407.1	1004.6	1400.3	1042.2	1118.5	645.6	941.0
144.8	5528.3	6414.8	6280.1	5681.2	6375.4	3958.2	7210.5	5642.3	6674.3	4571.9
283.4	4565.5	3997.3	4600.1	3759.7	4223.7	4625.0	4835.9	3605.6	3551.9	2730.6
30.8	16.5	13.9	16.2	24.8	13.2	19.6	15.2	19.7	13.5	19.7
237.6	3680.8	4249.9	4813.7	3506.3	3882.4	3076.1	5062.0	3336.8	4438.7	2921.2
584.2	7818.4	7971.1	8166.3	6839.0	6657.7	7198.8	7669.6	6699.0	6362.6	9803.1
201.9	3927.6	4758.2	5266.9	3558.6	4323.8	3040.6	5687.3	3521.1	4723.0	3275.8
372.9	5889.4	5342.2	5259.7	5594.9	5692.2	4014.5	6443.7	6015.2	5550.8	7485.0
687.6	6675.5	5981.7	5911.4	6186.6	6725.8	5638.1	6364.8	5872.9	8752.5	5387.1
213.2	3920.5	4961.4	5483.6	3596.2	4518.7	3149.1	5821.1	3681.5	5356.9	3301.2
45.8	1166.5	1430.9	1607.7	1064.7	2061.7	853.3	1476.1	718.0	3124.1	421.6
110.9	2364.0	2183.3	2140.9	1919.6	1922.6	1547.7	2754.2	1857.0	1326.5	2447.4
5483.3	5902.2	5127.9	4848.8	4791.8	5780.8	3694.1	4715.0	5878.5	7117.2	4975.2
48.3	239.2	377.3	481.9	264.8	247.5	241.3	301.4	118.9	42.6	153.1
56.7	40.0	49.5	43.4	56.8	49.6	54.7	41.7	32.9	27.8	41.7
327.5	990.7	1312.2	1668.6	854.7	1544.5	505.6	1519.6	874.0	1656.3	808.5
1691.6	3786.4	4931.1	3865.9	3593.2	3742.4	4862.6	4388.3	3852.1	4132.5	4287.0
6306.9	8521.4	6861.2	7223.8	6926.4	8039.4	6069.6	8224.4	7419.2	6636.0	8540.4
68.7	119.2	194.6	206.7	276.6	154.6	286.6	232.8	54.7	109.4	206.0
215.9	2656.9	2799.1	2808.0	1259.1	3121.6	917.0	1918.1	2026.0	4447.5	1077.3
41.3	504.9	536.3	579.7	371.7	527.7	703.3	611.9	213.9	246.7	206.3
10891.1	6035.4	6723.8	6933.8	7059.9	7183.5	7225.2	6603.1	5906.3	11294.6	6197.4
1529.5	1613.8	2252.1	1227.8	1471.7	1932.6	1618.4	2335.0	1136.4	523.8	1249.6
38.2	75.4	77.5	100.6	100.5	56.0	91.2	87.8	37.9	31.3	52.0

2983.6	3053.7	2674.8
3063.0	2940.0	1433.5
6153.6	5309.0	3638.6
6018.9	6567.3	4226.0
2438.3	3036.0	3237.6
3643.5	3314.1	3046.2
5287.7	4359.1	2588.4
1999.4	2770.7	2614.5
5240.6	5341.0	3745.6
5359.0	4923.0	3384.1
3482.8	2585.6	1697.8
9019.4	8210.4	5932.9
3744.9	3532.1	1741.6
1611.4	1281.0	1127.7
3433.2	3222.2	1891.2
4314.3	3449.1	3372.1
3106.5	3029.4	1713.8
1019.8	1216.1	913.7
8147.0	7073.1	5292.2
5113.2	4215.5	3541.6
16.9	23.5	16.5
5014.6	4371.2	3853.5
8070.8	6697.4	4791.1
5545.6	4824.1	3485.5
6284.9	6238.5	3747.5
6864.9	6346.7	5340.7
5694.8	4897.4	4067.2
1922.4	1716.2	1308.7
2147.0	1912.3	1265.6
5669.2	5499.4	4439.0
398.4	436.1	661.3
46.8	55.2	34.7
1426.3	1783.8	1860.9
5206.5	4955.2	4135.1
7579.5	8061.4	6913.3
208.6	345.0	128.8
2446.6	2102.5	1657.3
561.9	760.7	381.2
7734.7	7415.9	6273.0
2688.1	2784.2	2804.3
87.5	103.6	102.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pasteurellales	f__Pasteurellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Volucribacter
g__Volucribacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__unclassified	6999
s__unclassified	7009
s__unclassified	7057
s__unclassified	7124
s__unclassified	7175
s__unclassified	7190
s__unclassified	7265
s__unclassified	7330
s__unclassified	7376
s__unclassified	7393
s__unclassified	7398
s__unclassified	7455
s__unclassified	7495
s__unclassified	7627
s__unclassified	6626
s__Volucribacter psittacicida	6600
s__Acinetobacter baylyi	3403
s__Acinetobacter baylyi	3520
s__Acinetobacter baylyi	3725
s__Acinetobacter baylyi	3825
s__Acinetobacter baylyi	3895
s__Acinetobacter baylyi	3957
s__Acinetobacter guillouiae	3379
s__Acinetobacter guillouiae	3388
s__Acinetobacter guillouiae	3441
s__Acinetobacter guillouiae	3443
s__Acinetobacter guillouiae	3472
s__Acinetobacter guillouiae	3489
s__Acinetobacter guillouiae	3602
s__Acinetobacter guillouiae	3616
s__Acinetobacter guillouiae	3844
s__Acinetobacter guillouiae	3914
s__Acinetobacter guillouiae	4027
s__Acinetobacter gyllenbergii	3432
s__Acinetobacter gyllenbergii	3455
s__Acinetobacter gyllenbergii	3742
s__Acinetobacter haemolyticus	3359
s__Acinetobacter haemolyticus	3394
s__Acinetobacter haemolyticus	3605
s__Acinetobacter haemolyticus	3830
s__Acinetobacter haemolyticus	4064

Y17190.1 gg_id:9547 Lonepinella koalarum str. ACM 3896 Y17190
X89379.1 gg_id:9511 Phocoenobacter uteri str. M1063U = NCTC 12872 X89379
AY362907.1 gg_id:107128 Haemophilus haemoglobinophilus str. CCUG 3714 AY3629
FJ960217.1 gg_id:571320 bottlenose dolphin upper respiratory tract blowhole clone D9A4_107 FJ9602
AF487728.1 gg_id:82586 Pasteurella gallinarum str. NCTC 11051 AF4877
GQ111114.1 gg_id:453851 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ111
DQ113707.1 gg_id:134081 Assssmnt alng cnn intstnl trct dg ilm cln I2-02 DQ113
AF224293.1 gg_id:35735 Pasteurella sp. str. MCCM 02539 AF2242
GQ072607.1 gg_id:457136 Topographical and Temporal Human Skin Microbiome skin manubrium clone nbw19 GQ072
EU826048.1 gg_id:579141 Avibacterium sp. str. MCCM 01291 EU8260
AF487729.1 gg_id:82728 Pasteurella gallinarum str. R44sv AF4877
AF224304.1 gg_id:71067 Pasteurella sp. str. MCCM 02120 AF2243
AY362922.1 gg_id:107519 Pasteurella langaaensis str. CCUG 15566 AY3629
DQ851143.1 gg_id:164515 Haemophilus simiae str. ROG53 DQ851
AY216870.1 gg_id:85860 Volucribacter amazonae str. B96/5 AY2168
NR_025724.1 gg_id:535122 Volucribacter psittacicida str. Gerl. 236/81; CCUG 47536 NR_025
AF509820.1 gg_id:60271 Acinetobacter baylyi str. B2 AF5098
FJ009376.1 gg_id:331932 Acinetobacter baylyi str. H2 FJ0093
AM410708.1 gg_id:194118 Acinetobacter baylyi str. A7 LUH9557 = ACI846 AM410
FJ976560.1 gg_id:584494 Acinetobacter soli str. LCR52 FJ9765
AF509821.1 gg_id:60274 Acinetobacter baylyi str. C5 AF5098
AF509822.1 gg_id:60277 Acinetobacter baylyi str. A7 AF5098
AM412162.1 gg_id:242026 Acinetobacter sp. str. P-110 AM412
FJ009371.1 gg_id:333962 Acinetobacter johnsonii str. H10 FJ0093
AY536009.1 gg_id:129982 sp. str. BCaL1 AY5360
FM177774.1 gg_id:518457 Acinetobacter berezinae str. LUH 9667 FM177
Z93444.1 gg_id:43948 Acinetobacter sp. str. ATCC 11171 Group eleven Z93444
AF509832.1 gg_id:60258 Acinetobacter genomosp. 11 str. A23 AF5098
FM177776.1 gg_id:522874 Acinetobacter guillouiae str. A23 = DSM 14960 FM177
AF143841.1 gg_id:69970 hydrocarbon-degrading consortium clone AF2-1D AF1438
FM177775.1 gg_id:531947 Acinetobacter guillouiae str. LUH 7013 FM177
Z93443.1 gg_id:8344 Acinetobacter sp. str. ATCC 17924 Group ten Z93443
FN395270.1 gg_id:384502 Acinetobacter sp. str. FR-W3CA FN3952
EU705457.1 gg_id:323060 Microbial Burden and Analyses Phoenix Spacecraft Assembly Kennedy Space Centre EU7054
FJ192308.1 gg_id:326859 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1923
FJ263916.1 gg_id:314055 Acinetobacter johnsonii str. BA2 FJ2639
AF509830.1 gg_id:56661 Acinetobacter tandoii str. 4N13 AF5098
FJ607355.1 gg_id:534204 Acinetobacter junii str. SeaH-As6s FJ6073
GQ488001.1 gg_id:535015 Microbial metal soil polluted heavy metals clone V8-111 GQ488
AY586400.2 gg_id:109340 Acinetobacter haemolyticus str. AR-46 AY5864
GQ409505.1 gg_id:545881 Acinetobacter sp. str. Du6 GQ409

1145.4	6632.0	6126.7	6531.8	5881.0	6472.9	5605.8	6857.4	6072.2	7371.1	4842.2
48.4	70.8	143.8	146.5	216.5	109.0	145.9	161.0	62.0	32.0	70.0
101.9	1077.8	2152.6	2036.4	1392.2	1465.4	1067.3	2085.9	844.2	2066.4	1560.7
246.4	2880.0	3349.6	3819.4	2910.5	2766.8	2599.8	4347.8	2212.7	2394.8	2838.1
1336.0	523.7	692.9	772.2	658.4	568.1	675.7	617.8	522.9	491.4	374.9
391.5	1956.5	2063.0	2040.7	2317.9	2352.0	2370.6	2752.0	1356.6	4312.8	1642.7
120.2	1703.1	1791.5	1738.0	1260.0	1926.4	1333.2	2626.7	1370.6	1303.6	1592.2
2162.0	4366.6	4368.9	4800.8	5010.0	4706.5	4635.9	5304.8	4336.3	6657.9	4902.2
559.6	995.7	1484.6	1531.7	1025.6	1359.5	1153.6	1837.2	551.1	1867.0	1707.9
397.7	1866.7	1729.0	1208.9	1001.3	1906.3	1139.8	1486.7	2715.8	1445.7	942.4
1273.5	3299.8	3296.9	3394.5	2341.1	3078.9	2682.6	3889.7	2837.8	1926.0	2301.6
171.0	2695.6	3394.8	3939.9	2256.6	2797.7	1915.2	4501.0	2257.1	3845.3	3130.6
213.6	1604.9	2094.6	2047.6	1416.7	1849.6	2313.1	2527.8	3264.8	1403.1	1965.0
53.4	114.8	99.8	102.0	89.1	103.4	102.8	106.8	129.5	47.7	82.1
1621.6	2228.7	2821.3	3104.2	3016.1	3137.1	2671.9	3571.6	2118.6	2448.5	2558.8
1714.8	1895.5	2492.5	2944.6	2738.0	2704.2	2367.8	2949.6	1875.5	2351.7	2142.0
6324.8	1629.9	1788.8	986.1	1320.6	2281.7	1558.9	1543.8	2182.1	5600.6	2590.9
67.2	979.5	1201.3	1103.3	766.7	4547.0	1151.6	981.0	290.3	10984.8	474.0
110.7	1428.7	1774.1	1846.9	1221.9	5431.2	1184.9	1722.8	1373.1	11652.6	1046.2
88.0	1317.9	1895.5	1936.8	1622.7	5305.5	1694.3	1912.4	1083.8	12192.2	954.6
36.7	221.1	307.2	261.4	136.8	654.1	124.7	166.7	103.5	1875.8	199.0
17935.0	5632.7	5966.3	6127.0	6511.8	6173.4	5870.9	5899.7	5293.6	8548.0	7497.0
497.6	2878.4	2679.6	2813.9	2633.9	6242.0	1827.6	2652.3	1768.5	17498.7	1796.8
759.1	2414.3	2248.3	2747.2	2655.7	4669.8	3133.8	2027.8	1212.3	13045.1	1364.8
1316.0	3645.5	4227.5	4492.2	4898.9	4881.6	3988.5	4423.8	3472.7	8267.5	3338.1
1708.8	2421.3	2242.0	2637.0	2317.6	6065.4	2121.6	2133.3	1320.9	13484.0	2006.5
10327.5	6992.0	6336.0	6754.2	6522.7	8636.4	8411.2	8550.8	5724.2	15122.4	8439.1
1684.5	3862.2	4804.5	3969.7	3586.7	4665.1	4118.6	3596.4	4174.1	10083.4	5235.4
775.1	2940.0	2796.0	3362.1	3104.7	5344.3	3632.3	2709.7	1703.4	14664.8	1832.0
12472.2	5314.7	5130.4	5207.4	5849.3	6276.3	5627.1	5281.6	7117.9	10983.1	6132.5
109.5	2237.0	2003.2	2218.4	2442.9	4307.8	2256.5	2282.4	1017.5	11668.2	1044.5
942.2	1349.9	1450.3	1814.6	1423.3	5080.2	1114.3	1584.1	518.4	11412.9	858.7
470.9	2133.7	2029.8	2227.0	1833.8	4983.5	1701.7	1924.1	995.0	14764.3	1054.9
3906.6	4355.6	4524.1	4967.2	5509.2	7773.6	4657.9	4995.5	2834.1	20715.2	4330.5
3320.6	4943.0	5054.2	5487.5	5579.9	9154.2	4533.7	5762.0	3410.2	23719.3	4615.2
3282.5	2891.5	3070.4	3114.0	3306.1	6026.1	2652.2	3598.4	1897.1	17208.0	3065.9
9833.2	4563.3	5205.6	5196.9	4845.3	5624.4	5267.5	4988.5	4982.9	11487.6	5195.8
8558.4	6180.6	6013.7	7129.5	7939.8	7548.8	8864.6	6860.3	6533.8	13579.6	7216.1
4656.2	3708.3	4053.4	4171.6	4253.2	6557.0	4542.1	5406.1	2676.6	16277.3	3663.3
196.2	1795.1	2143.0	2331.3	2747.5	4765.7	2157.0	2016.5	981.2	15121.4	1477.4
372.8	1740.8	1416.6	1387.4	1442.6	4552.8	1184.0	1435.1	402.8	14600.4	619.2

7588.9	6993.6	6345.9
104.2	225.7	163.1
1853.8	1676.9	1223.8
3859.8	4066.2	3537.0
597.2	1206.7	561.9
2018.4	3258.6	3593.7
2266.6	3143.3	1985.3
4654.8	6140.5	4928.1
1630.6	2463.4	1413.4
1496.6	1562.3	1673.9
3493.0	3048.0	3402.6
3363.3	3708.8	2886.4
3297.8	2644.4	2176.8
113.5	187.1	303.9
3144.4	3300.8	3167.0
2835.5	2827.1	2752.5
1916.1	2429.4	1352.1
3431.2	1090.9	710.5
3512.3	1812.3	1204.3
3973.2	1953.3	1346.9
495.5	346.8	119.8
5807.4	7106.8	6082.3
4163.5	3217.5	1888.4
3380.2	2026.0	1421.7
5044.2	4098.1	2242.6
3949.8	2395.3	1534.8
8231.5	8721.1	5273.1
3827.9	4929.4	3441.4
4149.2	2936.3	1831.5
5588.4	6849.6	4545.7
3197.7	1351.7	1130.1
3304.4	1839.4	1139.8
3511.3	2118.6	1385.6
6048.2	4958.0	4637.9
7051.6	4799.8	4215.5
4574.1	3169.2	2899.5
5732.1	4548.7	3887.5
7472.7	6147.8	8317.1
5338.8	3963.4	4092.8
3886.1	1950.5	1528.0
3084.4	1126.7	1489.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__Acinetobacter johnsonii	3307
s__Acinetobacter johnsonii	3335
s__Acinetobacter johnsonii	3349
s__Acinetobacter johnsonii	3351
s__Acinetobacter johnsonii	3360
s__Acinetobacter johnsonii	3365
s__Acinetobacter johnsonii	3372
s__Acinetobacter johnsonii	3378
s__Acinetobacter johnsonii	3417
s__Acinetobacter johnsonii	3435
s__Acinetobacter johnsonii	3464
s__Acinetobacter johnsonii	3482
s__Acinetobacter johnsonii	3483
s__Acinetobacter johnsonii	3563
s__Acinetobacter johnsonii	3571
s__Acinetobacter johnsonii	3585
s__Acinetobacter johnsonii	3590
s__Acinetobacter johnsonii	3601
s__Acinetobacter johnsonii	3624
s__Acinetobacter johnsonii	3657
s__Acinetobacter johnsonii	3659
s__Acinetobacter johnsonii	3669
s__Acinetobacter johnsonii	3672
s__Acinetobacter johnsonii	3682
s__Acinetobacter johnsonii	3703
s__Acinetobacter johnsonii	3713
s__Acinetobacter johnsonii	3717
s__Acinetobacter johnsonii	3737
s__Acinetobacter johnsonii	3743
s__Acinetobacter johnsonii	3746
s__Acinetobacter johnsonii	3774
s__Acinetobacter johnsonii	3804
s__Acinetobacter johnsonii	3817
s__Acinetobacter johnsonii	3857
s__Acinetobacter johnsonii	3871
s__Acinetobacter johnsonii	3884
s__Acinetobacter johnsonii	3903
s__Acinetobacter johnsonii	3904
s__Acinetobacter johnsonii	3908
s__Acinetobacter johnsonii	3941
s__Acinetobacter johnsonii	3994

DQ675067.1 gg_id:173204 microbial production water -temperature petroleum reservoir clone QHO-B17 DQ675
FJ193164.1 gg_id:343114 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1931
AY689035.1 gg_id:100228 Acinetobacter sp. str. 3C_8 AY689
GQ070596.1 gg_id:418636 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ070
DQ257427.1 gg_id:142775 Acinetobacter johnsonii str. CAI-14 DQ257
FJ191887.1 gg_id:343089 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1918
EU536549.1 gg_id:286873 profile human microbiota antecubital fossa (inner elbow) skin clone nbt215g07 EU5365
EU275352.1 gg_id:253188 Acinetobacter johnsonii str. CONC8 EU2753
FJ192142.1 gg_id:347156 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1921
DQ675069.1 gg_id:168062 microbial production water -temperature petroleum reservoir clone QHO-B26 DQ675
CU466803.1 gg_id:336593 Evry wastewater treatment plant anoxic basin clone CU466
FJ192398.1 gg_id:334639 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1923
EU705366.1 gg_id:309203 Microbial Burden and Analyses Phoenix Spacecraft Assembly Kennedy Space Centre EU7053
GU124494.1 gg_id:535160 endosymbiotic (Stal) (rice brown planthopper) Acinetobacter endosymbiont Nilapar GU124
FJ191727.1 gg_id:334971 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1917
AB196244.1 gg_id:115340 Acinetobacter johnsonii str. IC001 AB196
FJ900940.1 gg_id:563501 Polymorphism microbial reservoirs water cut stage oil field clone L-36 FJ9009
FJ192385.1 gg_id:316225 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1923
AY167841.1 gg_id:77294 Acinetobacter johnsonii str. SAFR-006 AY167
FJ192696.1 gg_id:338444 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1926
DQ675057.1 gg_id:165070 microbial production water -temperature petroleum reservoir clone QHO-B9 DQ675
FJ192370.1 gg_id:310406 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1923
FJ192156.1 gg_id:320031 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1921
X86591.1 gg_id:8390 Acinetobacter sp str. 1F-19 X8659
AB369040.1 gg_id:537750 and microbial oils produced Asia petroleum crude oil (Qatar Land Light) clone PT-QTI AB369
AB369043.1 gg_id:573441 and microbial oils produced Asia petroleum crude oil (Qatar Land Light) clone PT-QTI AB369
GQ102953.1 gg_id:436668 Topographical and Temporal Human Skin Microbiome skin inguinal crease clone nbv GQ102
DQ675078.1 gg_id:165523 microbial production water -temperature petroleum reservoir clone QHO-B28 DQ675
FJ948288.1 gg_id:578231 Isolation and identification endophytic three medicinal plants leaf clone HQ FJ9482
FJ192211.1 gg_id:352732 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1922
FJ192879.1 gg_id:328708 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1928
GQ111297.1 gg_id:467170 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ111
EU169147.1 gg_id:241109 Acinetobacter johnsonii str. B33 EU169
GQ102212.1 gg_id:371878 Topographical and Temporal Human Skin Microbiome skin inguinal crease clone nbv GQ102
EU240429.1 gg_id:235992 Acinetobacter johnsonii str. B178 EU240
EU504845.1 gg_id:268774 cecal contents Mus musculus strain C57BL/6J; myd2 clone myd2_aaa03b10 EU504
GQ102805.1 gg_id:450958 Topographical and Temporal Human Skin Microbiome skin inguinal crease clone nbv GQ102
GQ106991.1 gg_id:445417 Topographical and Temporal Human Skin Microbiome skin buttock clone nbw543d0 GQ106
FJ192003.1 gg_id:322306 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1920
EU705479.1 gg_id:345817 Microbial Burden and Analyses Phoenix Spacecraft Assembly Kennedy Space Centre EU705
FJ192503.1 gg_id:308433 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1925

7082.5	4057.0	3705.6	3749.2	3715.5	4584.1	4411.9	3015.2	3154.3	14049.5	4817.3
30222.9	7938.0	5692.9	6522.0	7294.9	7195.3	7373.6	6920.5	6650.4	18785.2	9372.3
185.7	2229.3	1847.5	1783.2	1267.1	2719.1	1227.9	2201.8	1323.3	9471.4	924.4
13055.2	6329.1	4834.3	5411.6	6110.2	5683.4	6736.4	4553.7	6034.5	16046.1	6024.3
3025.8	4238.6	4567.1	4585.6	4570.7	5175.4	5015.3	4425.4	3998.6	15926.8	4784.7
63.7	2185.8	2069.1	2262.5	2901.3	4044.9	3258.8	1746.4	1000.4	14069.0	1214.9
2225.3	2380.1	2685.8	2475.2	2599.8	3503.6	2987.4	2541.5	1882.1	14241.1	2207.0
7850.7	4365.1	4509.9	4854.9	5692.4	6452.8	6135.2	3854.8	3953.5	18515.3	4293.2
591.6	3039.7	3089.0	3497.6	3418.6	6923.3	2512.4	3039.0	1920.9	20301.6	1996.7
164.8	941.9	1456.5	1233.6	789.2	2339.6	787.7	1060.4	663.5	12212.5	659.5
5434.3	3978.7	4066.5	4364.5	4568.0	6282.7	4473.5	3727.1	3701.3	18335.8	4304.7
2770.6	3365.1	3593.6	3933.2	3525.6	5786.4	3226.8	3352.2	3258.7	21708.0	3225.9
3267.5	2332.3	2135.8	2492.4	3153.6	3689.8	3321.4	2387.1	1575.2	16284.8	2339.3
45.2	914.1	1183.7	1160.5	1143.8	3984.3	887.3	1066.3	495.5	13540.0	569.6
2122.8	3051.0	2897.7	3133.7	2928.7	5719.9	2664.0	2685.4	2496.9	19846.0	2649.7
5177.4	4244.7	4596.5	4894.2	5252.8	6695.5	4997.9	4876.2	4061.4	20952.7	4778.1
495.9	2381.0	3090.7	3135.2	2712.9	4678.5	2198.5	3289.7	2257.0	13404.4	2210.0
281.0	7487.1	7997.7	9209.9	9593.7	8468.9	9599.9	7458.2	6888.5	14944.2	7052.8
16743.7	5825.0	5929.3	6595.5	5952.0	7336.9	6285.6	5219.9	5445.6	18441.9	6697.9
21371.1	10133.6	7914.4	8636.2	8198.1	8426.9	9932.1	7643.1	10217.4	17461.8	13042.3
72.7	2131.8	2018.9	2004.0	2868.5	3758.7	3087.1	1295.0	955.9	15357.2	1318.0
9089.2	5697.1	4994.6	5428.2	6052.8	5838.1	7555.3	5486.9	10659.8	14770.3	7635.8
2119.6	2592.0	2462.2	2642.3	2492.2	5352.2	2108.9	2181.2	2141.8	19426.1	2293.2
56.6	1151.2	1785.8	1332.0	1471.5	3095.0	1072.0	1573.2	845.1	10242.2	625.8
5038.5	3675.3	3248.1	3179.5	3298.6	5007.4	3084.4	3118.7	2872.7	12686.0	2770.8
6003.8	2494.3	2701.7	2827.4	2440.9	4092.1	2591.0	2882.3	2436.4	13420.7	2701.9
23416.1	9648.1	8314.2	9460.3	8273.2	8609.1	8685.6	8402.6	9343.8	10990.5	12194.4
8925.4	6823.4	6882.4	6840.8	7104.0	6245.0	7875.7	5813.3	6883.4	9840.7	10276.9
149.5	1864.6	1923.7	1768.1	2033.5	4830.7	1691.6	1690.8	850.1	17152.4	1179.5
5906.1	3016.9	2872.6	3190.7	3176.2	4701.6	3218.6	2666.5	3280.2	20108.5	4019.2
1798.3	4963.9	5055.4	5320.8	5304.6	5967.0	5283.2	4492.9	5042.1	16381.9	5881.5
7182.6	2193.0	1755.8	1505.0	1958.1	2399.0	1371.8	2193.1	1595.8	7114.7	2479.4
401.9	2658.4	3113.6	3309.8	3454.8	4911.3	3314.2	3427.1	2350.2	12792.6	2718.1
19097.4	8128.7	7544.2	8651.8	8462.2	9677.7	8581.0	9154.6	8724.4	17260.4	11227.6
5455.6	4491.7	4896.6	5157.2	5146.4	7096.6	5217.3	4581.2	4313.2	20195.6	4748.5
7553.0	3146.8	3250.7	3455.1	4602.1	5366.9	3962.7	3271.8	1514.5	17064.9	4254.3
9805.6	4317.4	4309.8	4338.2	4351.4	6652.0	3834.1	4280.7	5027.4	16143.2	3912.8
6645.1	5367.3	5150.9	5544.4	4507.4	5231.7	4994.8	5805.9	4006.8	12058.8	5985.1
4129.9	1334.0	1270.9	1491.3	1009.1	2682.7	1225.3	1174.9	1041.3	13574.8	1064.9
3853.4	4621.3	4540.2	4513.1	4954.4	5515.2	5469.4	4403.5	2833.0	15984.4	4604.5
13291.6	5932.9	5643.7	6312.3	5845.9	6087.8	6141.1	5583.9	7471.1	10349.0	7278.8

4062.4	3994.0	3765.8
7485.0	8560.9	6444.9
3000.6	2333.6	2424.7
5522.5	5248.8	5756.7
4172.8	5262.1	3813.0
3377.7	1721.8	1683.9
2565.1	3256.4	2673.6
5396.5	4133.9	3194.7
5150.2	3378.3	2109.0
1621.2	1261.5	983.7
4442.9	4005.1	4074.2
4405.3	4286.0	2564.1
2555.8	2765.8	2941.7
2430.7	1230.6	1293.7
4144.2	3440.3	1977.9
5385.5	5354.8	4649.1
4259.9	3439.8	2434.8
8312.0	6517.9	5148.2
6076.8	5421.9	5557.0
7642.4	8334.1	7368.7
2945.6	1388.3	764.9
5099.2	6035.6	5711.5
3589.7	2817.5	1792.0
2284.5	1650.0	1079.4
3439.0	3577.1	2758.4
3446.0	4273.2	2285.3
7715.3	9295.6	8656.4
6255.7	6870.1	6394.3
2850.5	1813.1	994.6
3466.8	3654.3	2546.1
5583.7	5701.9	5473.6
1832.0	2182.2	1761.0
3795.8	4498.8	3587.8
9948.4	9387.4	8041.9
5581.5	5110.3	4902.6
3323.7	3592.5	3189.9
5590.0	5038.6	4097.0
5703.8	5213.8	4686.3
1903.5	1164.8	983.1
4637.2	5365.4	4763.1
5202.1	7346.7	5992.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__Acinetobacter johnsonii	3996
s__Acinetobacter johnsonii	3999
s__Acinetobacter johnsonii	4005
s__Acinetobacter johnsonii	4032
s__Acinetobacter johnsonii	4039
s__Acinetobacter johnsonii	4042
s__Acinetobacter johnsonii	4053
s__Acinetobacter johnsonii	4055
s__Acinetobacter johnsonii	4066
s__Acinetobacter johnsonii	4078
s__Acinetobacter johnsonii	4093
s__Acinetobacter johnsonii	4094
s__Acinetobacter johnsonii	4102
s__Acinetobacter johnsonii	4110
s__Acinetobacter lwoffii	3369
s__Acinetobacter lwoffii	3373
s__Acinetobacter lwoffii	3494
s__Acinetobacter lwoffii	3497
s__Acinetobacter lwoffii	3500
s__Acinetobacter lwoffii	3580
s__Acinetobacter lwoffii	3591
s__Acinetobacter lwoffii	3715
s__Acinetobacter lwoffii	3765
s__Acinetobacter lwoffii	3870
s__Acinetobacter lwoffii	4074
s__Acinetobacter lwoffii	4099
s__Acinetobacter radioresistens	3893
s__Acinetobacter radioresistens	3954
s__Acinetobacter rhizosphaerae	3343
s__Acinetobacter rhizosphaerae	3395
s__Acinetobacter rhizosphaerae	3397
s__Acinetobacter rhizosphaerae	3405
s__Acinetobacter rhizosphaerae	3434
s__Acinetobacter rhizosphaerae	3534
s__Acinetobacter rhizosphaerae	3576
s__Acinetobacter rhizosphaerae	3613
s__Acinetobacter rhizosphaerae	3699
s__Acinetobacter rhizosphaerae	3709
s__Acinetobacter rhizosphaerae	3810
s__Acinetobacter rhizosphaerae	3848
s__Acinetobacter rhizosphaerae	3863

GQ075991.1 gg_id:423128 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw: GQ075
AF188300.1 gg_id:8391 Acinetobacter johnsonii str. P152 AF1883
FJ192666.1 gg_id:347685 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1926
FJ192917.1 gg_id:322094 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1929
GQ104230.1 gg_id:460452 Topographical and Temporal Human Skin Microbiome skin inguinal crease clone nbv GQ104
EF429006.1 gg_id:216324 Acinetobacter sp. str. GIST-OutAn1 EF4290
DQ675059.1 gg_id:170409 microbial production water -temperature petroleum reservoir clone QHO-B11 DQ675
FJ191867.1 gg_id:341096 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1918
FJ192302.1 gg_id:329438 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1923
GQ080422.1 gg_id:372278 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw: GQ080
GQ072927.1 gg_id:452753 Topographical and Temporal Human Skin Microbiome skin elbow clone nbw202h03(GQ072
DQ675049.1 gg_id:169400 microbial production water -temperature petroleum reservoir clone QHO-B8 DQ675
FJ191856.1 gg_id:329425 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1918
AB369019.1 gg_id:576274 and microbial oils produced Asia petroleum crude oil (Arabian Medium) clone PT-ARI AB369(
AY277551.1 gg_id:89870 Acinetobacter lwoffii str. 1E AY2775
FJ672802.1 gg_id:521318 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6728
DQ834359.1 gg_id:165112 Acinetobacter sp. str. FLL8 DQ834
FJ373029.1 gg_id:311265 Acinetobacter lwoffii str. S3-2 FJ3730
DQ223660.1 gg_id:160030 Acinetobacter sp. zf-IRht15 DQ223
X86572.1 gg_id:8361 Acinetobacter sp str. AC-40 X86572
DQ371237.1 gg_id:155206 Acinetobacter lwoffii str. FORb DQ371
AF188302.1 gg_id:8363 Acinetobacter lwoffii str. A382 AF1883
AY176770.1 gg_id:78649 Acinetobacter lwoffii str. HJ7 AY1767
EU240445.1 gg_id:237709 Acinetobacter lwoffii str. B190 EU2404
AM412164.1 gg_id:249976 Acinetobacter sp. str. P-126 AM412
DQ144736.1 gg_id:139182 Acinetobacter lwoffii str. LS2 DQ144
FJ191915.1 gg_id:310933 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1919
AM495259.1 gg_id:250455 Acinetobacter radioresistens str. INBS1 AM495
FJ816058.1 gg_id:569388 Acinetobacter calcoaceticus str. PUCM1011 FJ8160
AM157426.1 gg_id:141393 Acinetobacter calcoaceticus mother C3 AM157
EU921462.1 gg_id:328793 Acinetobacter calcoaceticus str. HIRFA26 EU9214
EU118781.1 gg_id:245216 Acinetobacter calcoaceticus str. AGL 17 EU1187
GQ469890.1 gg_id:587465 Acinetobacter calcoaceticus str. PUCM1031 GQ469
FJ816055.1 gg_id:510012 Acinetobacter calcoaceticus str. PUCM1008 FJ8160
FJ009370.1 gg_id:334071 Acinetobacter calcoaceticus str. H11 FJ0093
AM410707.1 gg_id:177547 Acinetobacter calcoaceticus str. ACI34 = RUH 0583 AM410
FJ816049.1 gg_id:567940 Acinetobacter calcoaceticus str. PUCM1002 FJ8160
FJ816073.1 gg_id:543130 Acinetobacter calcoaceticus str. PUCM1026 FJ8160
EF601824.1 gg_id:228947 Acinetobacter sp. str. NX2 EF6018
EU921468.1 gg_id:321731 Acinetobacter calcoaceticus str. HIRGA36 EU9214
DQ536511.1 gg_id:161691 Acinetobacter rhizosphaerae str. BIHB 723 DQ536

196.8	2516.5	2170.3	2452.2	2274.1	2854.5	2827.2	2069.2	1353.3	10355.6	2229.0
14729.8	4100.0	4683.9	4844.0	4052.2	5726.1	4114.9	4218.7	6203.4	14100.6	4767.4
1077.4	2010.0	2029.3	1938.0	2230.6	3988.4	2008.8	2405.3	1626.0	12343.7	1141.7
5785.1	7756.1	7521.8	8628.4	6862.4	8669.0	7710.0	7765.5	6799.4	14428.1	9938.2
3220.0	4104.6	4240.2	4469.2	4271.2	6369.8	3769.0	4179.3	3830.8	17383.5	3438.9
203.5	113.9	184.7	164.2	173.5	438.6	146.0	143.0	126.0	1270.1	157.7
5732.3	1779.0	2098.1	2149.4	2464.4	2382.0	2058.4	2435.8	1657.7	7624.9	2392.1
2363.5	2955.7	3163.3	3320.1	3241.6	5637.0	3107.4	3071.7	2694.5	20391.3	2776.8
2524.1	2175.4	2358.7	2357.0	2692.1	3790.6	2526.5	2352.9	2583.7	11677.9	3575.9
3185.2	3482.9	3464.9	3704.8	4102.0	5179.6	3962.8	3793.1	3426.3	13891.8	4545.3
11899.2	7384.4	7873.8	8970.4	8296.6	8061.4	9747.6	8062.2	8536.1	13223.8	10134.6
324.3	4612.9	4986.5	4547.2	3604.8	6083.0	3743.4	4567.7	3955.4	14505.8	3885.9
3301.9	3821.1	3350.7	3429.6	3658.0	5361.1	3914.0	2767.9	2982.6	20791.4	4373.2
12774.7	8722.2	8588.6	9142.8	8823.2	9858.6	9040.5	8360.5	12037.9	17885.8	9291.6
31675.2	10459.4	9764.3	11113.5	11067.9	11121.8	10536.0	9922.4	14939.1	16219.9	13805.9
692.7	5034.8	5124.5	4998.6	4446.8	7470.6	3828.8	6122.6	4603.0	16932.9	4942.0
12784.9	6153.0	5151.5	5636.0	6212.9	7376.5	5037.6	5340.9	5278.9	17563.5	7541.8
566.8	1648.2	1650.3	1812.3	1725.8	4476.0	1120.3	1775.3	988.9	16862.8	1235.9
2781.1	3862.0	3495.3	3965.4	4253.3	4738.1	3543.3	3602.2	6077.2	12508.7	3559.4
70.0	699.5	900.0	699.8	576.3	3880.4	485.7	1230.3	431.9	11539.5	397.4
1307.9	5231.4	5562.6	5925.1	6455.2	7032.6	4661.6	6600.3	5851.0	16857.6	6056.3
10565.2	5002.2	4357.9	4962.8	5670.8	4698.1	4847.3	4557.7	5072.0	10945.3	6757.6
10411.9	3958.8	4025.5	4236.2	4367.3	4884.6	3556.5	3379.5	4473.4	11772.1	4767.7
534.0	1564.8	1727.7	1834.9	1884.2	4704.1	1462.8	1782.8	930.1	17213.7	1100.5
1866.7	3995.3	4258.7	4523.1	3843.7	7794.9	3448.5	4649.4	2474.5	19609.7	3473.7
6060.7	4064.2	3732.8	3927.1	4470.8	5733.6	3546.7	4827.1	4068.9	14894.2	3665.1
353.4	2394.4	2854.1	3001.8	2842.8	4510.7	2696.6	3426.3	3352.2	7963.7	2066.2
635.7	3914.7	4339.0	4548.7	3663.0	4459.4	4546.3	7672.5	5309.0	3912.5	5293.1
134.7	3098.9	3742.2	3509.2	3053.2	5501.7	2773.0	3521.9	2309.7	13677.3	2951.9
14743.2	7226.1	7339.3	7433.9	8069.8	8589.0	8135.0	7331.2	7487.3	14523.7	7561.3
159.9	3377.4	4181.1	3842.5	3287.9	5959.6	2709.5	3932.0	2864.4	14958.2	3193.7
280.2	4136.2	5070.5	5174.7	4825.1	7211.3	5979.5	4571.9	2830.9	15820.6	3877.4
129.7	2942.1	3536.7	3312.6	2900.8	5557.0	2659.9	3372.5	2013.8	14197.2	2843.8
1146.6	4108.3	4298.0	4048.8	3574.0	5648.3	3764.5	4062.9	2972.5	14074.7	3967.1
154.2	3551.0	3855.4	3377.1	2895.4	5764.5	2761.4	3576.2	2293.5	14765.1	2962.8
94.3	2579.7	3235.6	3034.3	3011.0	4653.9	3229.6	3132.9	2069.6	11388.2	2026.5
9925.3	2811.5	2929.8	2886.0	2834.2	3583.2	2740.2	2224.8	2983.7	9969.1	3714.2
127.3	2264.2	2543.8	2029.1	1605.1	4581.8	1529.4	2115.9	976.4	13020.8	1600.0
250.5	3568.7	4323.6	4310.5	4288.2	6306.1	4973.6	3708.7	2144.4	13316.1	3513.4
387.0	4685.2	4838.1	4898.0	5044.4	6613.6	4707.9	4097.7	2829.0	14990.7	4306.7
1084.5	7536.8	7704.4	8517.6	8025.4	8699.4	8474.4	7204.8	5685.5	15392.5	6576.8

2408.0	2215.2	1791.2
4606.3	5339.4	4342.7
2548.5	2787.6	1834.4
7488.2	8342.4	7304.7
5527.9	4419.7	3897.2
265.0	226.1	142.8
2157.9	3278.1	2296.6
4294.7	3783.8	2100.8
3093.9	3026.7	2253.4
4830.6	4116.0	3317.4
8187.0	8169.8	8643.8
5266.6	4857.0	4514.9
3888.6	3443.2	2542.8
8719.3	9637.8	8453.3
10924.6	9970.1	8872.6
7299.9	6074.5	6069.5
7389.9	7035.7	5303.4
3593.0	2115.7	1131.2
4795.1	4182.1	3224.1
3228.8	1299.0	1590.5
8233.4	7216.3	7575.9
4489.1	5166.5	4937.6
5009.4	4965.7	3586.1
3570.0	2028.3	1213.1
7468.4	4991.3	3763.5
5143.5	5306.8	3925.8
5333.7	2903.7	1897.4
8193.0	4181.2	2863.3
4802.3	3376.9	2211.7
8201.3	7320.4	7206.8
4942.7	3839.5	2540.4
7327.7	4519.9	3168.9
4761.5	3048.3	2089.7
5127.7	4056.4	3051.5
4950.7	3269.6	2224.6
4231.6	3365.7	2250.5
3009.6	3268.3	2292.2
3682.3	1904.1	1082.6
5944.9	3586.8	2432.5
5530.6	3712.6	2400.4
8360.4	7359.6	5571.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__Acinetobacter rhizosphaerae	3901
s__Acinetobacter rhizosphaerae	3990
s__Acinetobacter rhizosphaerae	4048
s__Acinetobacter rhizosphaerae	4088
s__Acinetobacter rhizosphaerae	4104
s__Acinetobacter schindleri	3575
s__Acinetobacter schindleri	3647
s__Acinetobacter schindleri	3694
s__Acinetobacter schindleri	3757
s__Acinetobacter schindleri	3796
s__Acinetobacter schindleri	3866
s__Acinetobacter tjernbergiae	4103
s__Acinetobacter towneri	3573
s__Acinetobacter towneri	4035
s__Acinetobacter ursingii	3319
s__Acinetobacter venetianus	3560
s__unclassified	3306
s__unclassified	3309
s__unclassified	3313
s__unclassified	3314
s__unclassified	3316
s__unclassified	3317
s__unclassified	3329
s__unclassified	3330
s__unclassified	3344
s__unclassified	3345
s__unclassified	3347
s__unclassified	3353
s__unclassified	3357
s__unclassified	3364
s__unclassified	3382
s__unclassified	3390
s__unclassified	3392
s__unclassified	3393
s__unclassified	3398
s__unclassified	3399
s__unclassified	3400
s__unclassified	3406
s__unclassified	3409
s__unclassified	3415
s__unclassified	3416

AM921638.1 gg_id:257154 Acinetobacter rhizosphaerae PhyCEm-460 AM921
AY277552.1 gg_id:90549 Acinetobacter calcoaceticus str. AVP2-2 AY2775
AY364536.1 gg_id:94206 Acinetobacter rhizosphaerae str. IH9 AY3645
FJ976570.1 gg_id:578667 Acinetobacter calcoaceticus str. LCR61 FJ9765
DQ129724.2 gg_id:248172 Acinetobacter calcoaceticus str. HPC399 DQ129
FJ373024.1 gg_id:327004 Acinetobacter schindleri str. W1-2 FJ3730
GQ080249.1 gg_id:459017 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw: GQ080
GU339299.1 gg_id:542053 Acinetobacter schindleri str. EH74 GU339
GU004025.1 gg_id:581771 heterotrophic nitrifying biofilm clone 16SN42 GU004
GQ082321.1 gg_id:426536 Topographical and Temporal Human Skin Microbiome skin manubrium clone nbw11 GQ082
GU004026.1 gg_id:554705 heterotrophic nitrifying biofilm clone 16SN43 GU004
AF509826.1 gg_id:60264 Acinetobacter tjernbergiae str. 7B02 AF5098
NR_028849.1 gg_id:537702 Acinetobacter towneri str. AB1110; DSM 14962 NR_02
AF509824.1 gg_id:60268 Acinetobacter towneri str. 2N01 AF5098
AJ275039.1 gg_id:54545 Acinetobacter ursingii str. LUH 4763 AJ2750
EU258609.1 gg_id:277749 Acinetobacter venetianus str. ACI574 EU2586
GQ007238.1 gg_id:502426 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ007
AB286521.1 gg_id:210171 Reducing production and domination comamonadaceae reducing oxygen supply was AB2865
AF357182.1 gg_id:48029 Alvinella pompejana symbiont APG130A AF3571
FJ674507.1 gg_id:518521 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6745
GQ451319.1 gg_id:569668 Fecal Yunnan snub-nosed monkey feces clone J341 GQ451
EF468657.1 gg_id:218490 Acinetobacter sp. str. TD5 EF4686
AY047216.1 gg_id:39106 Acinetobacter haemolyticus AY0472
EU467937.1 gg_id:293369 cheetah feces clone CE2_e09 EU4679
EU779466.1 gg_id:321405 Hartmann's Mountain Zebra feces clone AFZEB_aaj72f01 EU7794
EU467673.1 gg_id:302118 naked mole-rat feces clone molerat_2g12_1 EU4676
FJ976593.1 gg_id:550870 Acinetobacter sp. str. LCR84 FJ9765
FJ672033.1 gg_id:520896 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6720
EU779403.1 gg_id:311420 Hartmann's Mountain Zebra feces clone AFZEB_aaj70a08 EU7794
AY633608.1 gg_id:101304 Acinetobacter seohaensis str. SW-100 AY6336
EU463254.1 gg_id:294712 naked mole-rat feces clone molerat_aai72d06 EU4632
FJ672865.1 gg_id:517631 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6728
EU777000.1 gg_id:344560 Naked mole-rat feces clone molerat_2g01 EU7770
GQ077574.1 gg_id:415516 Topographical and Temporal Human Skin Microbiome skin occiput clone nbw1210e(GQ077
AM412161.1 gg_id:250903 Acinetobacter sp. str. P-134 AM412
FJ672928.1 gg_id:523993 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6729
AB207814.1 gg_id:167038 Acinetobacter psychrotolerans str. Ths AB2078
EU160535.1 gg_id:347520 diagnosis central-venous infections cultivation-dependent and techniques biofilm sc EU1605
EU604244.1 gg_id:274092 Acinetobacter baylyi str. 1477 EU6042
FJ193878.1 gg_id:338023 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1938
EU463244.1 gg_id:290621 naked mole-rat feces clone molerat_aai72c02 EU4632

2441.8	4416.0	4908.3	4913.6	4394.9	4951.2	4450.7	4578.7	3885.5	8805.7	5178.1
1641.6	5826.1	5887.8	6044.1	5850.3	8215.6	6525.1	5428.3	4060.5	18720.5	5936.2
1074.8	5494.5	5740.9	6108.0	6092.6	8248.3	6845.5	5185.1	3773.5	18786.1	5063.1
108.4	2812.0	3254.1	3004.9	2397.5	5321.1	1781.9	2931.1	1803.8	13685.8	2670.0
1042.8	4061.5	4425.2	4488.3	4048.1	6240.2	3507.5	4281.4	3313.8	15017.8	4166.6
2728.0	3397.6	3746.8	4288.8	3845.7	5219.0	3783.8	4641.9	2530.1	13267.7	3556.1
909.4	1857.2	2128.7	2569.8	2139.0	3684.1	1768.5	3015.2	1873.9	13485.5	1820.3
218.7	2007.6	2186.9	2255.8	2119.0	3315.1	2007.9	2125.6	1279.2	10932.7	1539.3
148.3	3965.8	3650.9	3648.2	2859.8	4814.1	3138.8	4324.3	3620.8	8331.8	3450.8
6276.7	4346.3	3977.2	5128.9	4831.2	5766.5	4380.8	5080.5	3780.4	15199.0	4283.3
22282.6	11793.1	10165.5	11265.5	11900.4	11288.2	14718.1	9362.3	12542.0	21825.9	15815.2
50.1	1454.8	2410.9	3125.7	2408.7	3358.8	1778.1	2181.0	592.2	5759.9	1216.7
1983.4	946.3	1028.7	1106.9	804.8	1586.8	1016.8	837.0	1248.7	2878.5	1016.5
3356.8	1731.0	1810.4	2135.4	2486.2	3082.0	1987.9	2058.9	1443.3	4752.1	1321.6
83.4	1152.4	1466.9	1542.4	1410.7	2525.8	1079.0	1505.4	519.5	8071.5	742.3
1194.4	3919.1	4433.3	4906.9	4649.8	5958.2	4965.3	4220.3	3538.7	16336.9	4196.2
1959.4	1017.2	1149.1	1174.4	1274.1	2690.7	945.0	1155.3	1090.7	10783.6	1148.1
1475.6	5101.4	4374.0	4836.0	6279.7	5793.6	5765.6	4436.3	2831.4	13141.8	4368.2
15586.3	8964.4	9273.4	10227.9	10107.1	8954.7	11595.1	8344.1	11717.5	15734.4	13017.1
11032.4	6752.9	6639.2	7591.0	7277.3	7179.4	7859.7	6623.0	9674.1	12989.6	8813.5
92.9	1352.2	1374.5	1530.5	1258.9	2940.6	1352.2	1394.8	647.5	12527.7	515.3
60.9	2070.2	2053.6	2572.2	2626.8	5940.8	2662.6	1735.7	1064.3	13914.0	1188.3
740.1	5439.6	5348.6	5766.0	5812.1	7816.0	5088.4	6924.3	5288.3	15284.3	6367.3
10166.8	5278.4	5402.5	6249.0	5955.3	7464.3	6411.9	6341.4	6498.6	17228.0	8130.1
346.3	682.9	812.8	862.2	887.0	1053.9	911.5	928.4	465.1	2254.5	473.9
184.6	753.4	781.2	1094.6	873.2	2336.8	452.5	1186.4	360.0	9409.1	803.3
3720.8	5241.4	5978.1	6250.6	6981.0	7462.5	6149.7	6217.4	5793.9	13962.3	5695.0
3557.4	4884.3	5449.5	5959.1	5325.1	5723.6	5896.8	6598.2	6534.9	9167.6	8598.1
24857.8	10803.0	9374.7	9504.0	8953.6	9659.9	10340.2	8886.9	11888.3	12505.3	11849.4
32.3	424.1	478.2	589.0	239.9	2309.5	342.9	319.5	106.9	7168.6	143.5
187.1	1341.7	1536.7	1537.9	1842.5	4120.2	1086.7	1359.0	569.4	16369.2	710.3
572.6	4614.2	3298.7	3042.9	3015.5	5249.8	1931.3	3974.5	3192.9	18156.3	2788.1
517.1	3228.1	3482.3	4137.0	4093.4	5906.3	3175.1	3505.4	1911.7	11541.2	2699.7
5461.0	3948.8	3730.0	3942.1	4033.3	5042.2	4230.0	3701.8	3972.7	10375.8	5283.6
5253.6	4065.2	3571.6	4035.5	4660.2	6383.3	4053.2	4288.7	2740.9	15317.0	3345.1
112.4	1669.4	2060.2	2267.1	1878.1	4197.9	2101.3	2170.4	1434.1	11181.1	1193.7
121.6	1351.5	1467.8	1441.8	935.9	4642.0	1255.8	1302.4	452.5	11494.4	782.4
1327.7	2313.2	2099.0	2731.8	2630.9	4308.2	2327.8	2227.9	1934.2	12775.9	2026.5
68.7	1044.5	1140.2	1054.1	730.5	4514.4	1101.8	943.5	260.2	10877.3	445.8
3463.5	1554.1	1692.5	2197.8	1338.8	3044.2	1090.8	1715.7	1232.2	11221.8	966.9
4959.5	2803.5	2503.5	2917.1	2832.8	4079.1	2372.2	2834.4	3613.9	7629.5	3349.0

4657.5	5510.4	3901.2
7963.0	5640.4	4665.0
8085.0	5120.7	4056.3
4123.0	2644.9	1592.9
5327.6	4392.9	3215.7
4590.1	4552.0	3226.8
3173.4	3516.2	1358.1
2527.6	2736.2	2313.7
4697.8	4278.8	2497.4
5086.1	5580.0	5073.3
9926.3	10372.2	9853.8
3804.1	2296.0	2214.6
1774.1	1374.1	1038.4
3144.3	2927.0	2396.7
2644.4	1544.4	1259.8
5298.7	5109.4	4114.0
1544.4	2573.4	1239.5
4512.9	4882.9	5180.1
8819.4	10067.4	8895.2
7486.4	7641.0	7645.3
2518.3	1294.4	1185.8
3978.6	2019.2	1262.7
7504.2	6312.9	4248.5
7412.2	6500.8	5422.5
924.1	1283.7	1708.9
1493.9	1505.0	743.8
7217.2	6324.2	5854.8
6529.4	6292.9	5993.0
9143.2	9986.5	8461.0
1593.4	441.5	276.0
2888.6	2058.2	1396.9
5708.6	4135.3	3699.4
5258.7	4241.5	3551.9
3077.8	4807.0	3545.4
4543.5	4058.4	4227.8
3707.3	2995.6	1655.8
3506.8	1397.7	713.3
2753.8	2575.4	2165.7
3137.7	1026.7	713.9
2084.3	1630.1	1932.5
4065.5	4038.1	2724.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__unclassified	3418
s__unclassified	3421
s__unclassified	3422
s__unclassified	3425
s__unclassified	3428
s__unclassified	3433
s__unclassified	3439
s__unclassified	3444
s__unclassified	3445
s__unclassified	3450
s__unclassified	3461
s__unclassified	3462
s__unclassified	3465
s__unclassified	3466
s__unclassified	3475
s__unclassified	3478
s__unclassified	3481
s__unclassified	3485
s__unclassified	3486
s__unclassified	3488
s__unclassified	3493
s__unclassified	3495
s__unclassified	3496
s__unclassified	3499
s__unclassified	3502
s__unclassified	3507
s__unclassified	3509
s__unclassified	3512
s__unclassified	3517
s__unclassified	3519
s__unclassified	3521
s__unclassified	3522
s__unclassified	3526
s__unclassified	3528
s__unclassified	3532
s__unclassified	3538
s__unclassified	3539
s__unclassified	3541
s__unclassified	3543
s__unclassified	3550
s__unclassified	3554

EF103560.1 gg_id:191684 Acinetobacter sp. str. JB5 EF1035
FJ851148.1 gg_id:569494 Acinetobacter sp. str. P4 FJ8511
U10875.1 gg_id:8400 Acinetobacter lwoffii str. ATCC 17925 U1087
FJ193928.1 gg_id:317023 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1939
FJ193896.1 gg_id:356161 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1938
EU124829.1 gg_id:245300 Gut microbes gut Helicoverpa armigera living on cotton plant clone 10 EU124
EU465090.1 gg_id:288912 African elephant feces clone AFYEL_aaj67h10 EU465
EF525671.1 gg_id:218350 Acinetobacter baumannii str. Serdang1 EF5256
DQ834354.1 gg_id:170113 Acinetobacter sp. str. FLL7 DQ834
FJ816048.1 gg_id:564236 Acinetobacter calcoaceticus str. PUCM1001 FJ8160
GQ088876.1 gg_id:380649 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ088
EU705448.1 gg_id:340228 Microbial Burden and Analyses Phoenix Spacecraft Assembly Kennedy Space Centre EU705
FJ193982.1 gg_id:333983 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1939
GQ069608.1 gg_id:407828 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ069
FJ193755.1 gg_id:325011 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1937
GQ080268.1 gg_id:431095 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ080
FJ477061.1 gg_id:533635 Acinetobacter xiamenensis str. KSL 4-102 FJ4770
Z93988.1 gg_id:8321 activated sludge clone T23 Z93988
DQ116000.1 gg_id:131304 bovine teat canal clone D-13 DQ116
DQ824717.1 gg_id:186196 human fecal clone RL185_aaj72b10 DQ824
DQ860032.1 gg_id:247964 anchovy intestinal microflora clone F1T DQ860
AF509827.1 gg_id:60263 Acinetobacter bouvetii str. 4B02 AF5098
FJ674492.1 gg_id:519299 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6744
GQ097172.1 gg_id:411031 Topographical and Temporal Human Skin Microbiome skin gluteal crease clone nbw GQ097
DQ187381.1 gg_id:139909 Acinetobacter calcoaceticus DQ187
EU560851.1 gg_id:563369 Assessment genetic Apriona germari (Hope) larvae normalization techniques intestir EU5608
AF526908.2 gg_id:62949 Acinetobacter radioresistens str. 50v1 AF5269
EF436374.1 gg_id:215173 library-based ruminal water buffalo (Bubalus bubalis) rumen fluid clone BRC88 EF4363
EU352764.1 gg_id:276866 Acinetobacter haemolyticus str. NK 2.BH-7 EU3527
Z93982.1 gg_id:8320 activated sludge clone T58 Z93982
FJ675544.1 gg_id:523482 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6755
AF509828.1 gg_id:60261 Acinetobacter grimontii str. 17A04 AF5098
AF336348.1 gg_id:40632 Acinetobacter sp. str. Wuba16 AF3363
FJ672724.1 gg_id:528677 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6727
EU921471.1 gg_id:351367 Acinetobacter baumannii str. HIRGP40 EU9214
FJ193816.1 gg_id:354830 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1938
EU337120.1 gg_id:513402 Acinetobacter sp. str. 1B3 EU3371
AF189695.1 gg_id:48977 Acinetobacter sp. str. BC187 AF1896
AF159045.1 gg_id:8371 Acinetobacter calcoaceticus str. A2 AF1590
FJ671697.1 gg_id:522240 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6716
FJ816080.1 gg_id:536705 Acinetobacter calcoaceticus str. PUCM1503 FJ8160

855.6	956.2	956.4	951.9	1265.6	2692.3	776.6	1106.0	402.9	11231.4	481.4
2900.7	3278.7	3543.5	3947.2	4300.1	7242.9	2834.8	3875.2	1780.0	20429.9	3025.5
2399.0	7143.9	6685.9	6915.2	6674.2	8976.6	6714.9	7078.1	5054.6	20303.0	8108.4
839.2	2610.7	2853.8	3329.5	3521.8	5997.3	3115.8	2633.6	1667.3	16126.2	2051.2
1463.1	5060.7	5350.2	6369.2	5993.6	7327.2	6873.7	6501.4	4404.0	12415.8	5946.8
87.0	2497.3	2987.8	3440.3	3748.7	5659.9	4168.8	2998.7	1578.6	13024.6	1917.6
8277.8	5533.9	5943.6	6273.7	5854.2	6032.3	8328.0	5613.5	8315.5	10093.6	7699.0
2255.4	4102.7	3493.5	4003.3	4397.0	6058.3	5131.3	3953.7	4103.1	13501.3	3309.9
63.5	564.7	597.0	641.7	689.5	2646.8	291.2	408.6	131.8	8174.3	204.1
162.2	3629.7	3653.6	3409.1	2715.3	6138.2	2827.1	3601.1	2292.4	15285.4	2963.4
1535.2	3217.3	3869.8	4662.1	4043.1	6743.4	3784.1	4638.7	2790.8	15234.6	3586.4
920.1	2119.8	2031.5	1963.4	1762.8	4421.4	1646.4	1831.4	1532.3	11852.4	1397.5
288.1	4474.1	4534.2	4848.0	5644.4	5662.5	6073.1	4010.2	4371.9	14032.7	5291.0
5365.3	4860.3	4842.6	4892.7	4302.4	6153.9	4476.2	4172.1	2459.1	12441.8	5248.0
7886.8	7931.3	7471.4	8721.1	8701.6	8502.1	12162.5	6880.1	15144.1	15586.4	8532.9
71.7	993.4	1155.9	1427.6	793.1	2432.6	811.5	832.8	457.5	6979.2	518.5
63.5	577.9	607.8	657.7	842.3	1357.9	496.5	569.2	181.6	3878.0	179.0
5655.0	3179.6	2748.6	3348.7	3221.6	4522.2	2434.8	3144.9	2880.1	7960.8	4015.2
56.9	193.6	296.4	327.8	181.5	1358.7	182.1	352.0	92.0	3388.8	83.1
64.2	601.5	651.1	747.3	502.0	1318.4	538.6	1144.9	317.0	4252.4	523.4
172.5	1329.4	1292.6	1412.0	1772.7	2856.7	1430.2	1008.0	683.3	9695.3	651.3
4672.7	4820.5	5856.8	6701.3	6024.5	6415.2	6059.8	5532.2	6587.5	12325.5	5789.2
1889.0	3775.8	3358.2	4022.7	3737.3	6973.8	3433.0	4392.1	2380.4	18597.9	3623.5
1284.9	3499.7	4038.3	4813.4	4451.0	5315.7	4558.6	4772.5	2376.3	13302.7	4912.1
132.2	3021.4	3084.2	2578.7	1918.8	5087.7	1706.9	2689.0	1576.3	13645.5	2514.1
3003.5	3944.4	4240.4	4697.7	4446.1	5442.6	4144.5	4438.1	3599.4	9315.8	4537.5
212.7	1936.2	1595.2	1624.5	1522.8	2794.8	1293.2	4412.6	1259.8	6859.2	3013.0
824.2	4156.9	4189.7	4648.1	5100.9	5160.8	4329.2	4182.7	3289.0	11955.1	3470.1
710.1	6689.5	5594.2	6224.4	5922.0	7039.1	6421.0	7372.2	6149.7	14032.9	7268.1
50.5	468.2	716.4	727.1	424.3	2160.1	517.3	618.4	204.4	6020.5	296.6
1187.6	3999.9	4054.6	4320.1	3919.2	6535.1	3554.3	4958.6	2997.3	16712.1	3788.8
5165.7	6285.4	6396.3	7246.1	6129.0	7786.1	5741.9	6591.9	5170.3	17661.5	7278.9
1673.9	6736.5	6305.5	6863.0	7555.2	8936.7	7626.3	5777.2	4420.5	21497.3	6600.0
1294.0	4074.7	4206.8	4461.4	4022.1	7576.5	3717.4	5032.7	2759.4	18415.0	4000.8
43.7	1687.2	1595.2	1643.3	1175.7	3084.9	957.8	1108.2	581.5	9325.0	588.7
435.3	3287.6	3581.3	3829.0	3303.9	5464.7	3517.6	3520.1	3413.2	15766.0	3126.8
19608.3	7061.8	6882.5	7448.0	7168.3	7381.1	9231.4	6122.8	8679.4	13254.0	8414.9
884.9	2282.5	2556.4	3183.5	2909.7	3597.5	3220.5	2490.9	1662.4	7483.4	1865.4
1455.3	3236.7	3236.3	3374.5	3318.2	4290.3	3431.6	3274.4	1970.2	9001.2	3253.3
3296.0	2638.7	2682.8	2937.8	2773.3	3627.2	2557.5	2563.7	2806.0	8567.1	3279.3
155.4	2620.2	3640.7	3292.9	2974.1	5453.7	2531.9	3358.8	2264.4	14636.7	2279.7

2206.4	1158.9	1118.7
5112.9	3535.1	3471.7
8725.5	7113.1	6648.7
4004.2	2997.3	2424.8
6862.9	5777.0	6070.1
4781.4	2871.9	1707.5
6022.1	6183.3	4780.5
4415.6	3860.2	3778.5
1167.1	479.8	531.3
5102.8	3298.9	2247.2
5196.0	4516.0	4260.3
3171.4	3125.2	1245.2
4837.3	4632.8	2777.2
5025.7	4624.7	4397.5
7813.3	7776.5	7822.2
1580.4	924.8	813.7
1052.3	694.7	317.8
4041.2	3540.5	2954.3
937.6	433.7	371.7
1224.3	709.2	274.3
1825.9	1639.9	899.0
5850.7	7164.4	5371.0
6548.5	4605.1	4121.3
4745.7	5270.5	4408.6
3843.5	2311.1	1484.8
5450.4	5032.0	3787.8
3227.0	2029.7	830.7
5034.6	3861.8	3707.3
7668.8	6061.7	4129.7
1837.6	574.9	274.7
6087.3	5194.5	4459.0
6155.2	6480.9	5473.2
7978.1	5955.6	4772.8
7256.0	5150.5	4359.1
2054.7	1222.3	716.6
4658.5	3880.3	2786.6
6937.1	7887.6	4979.3
3053.5	2768.1	2709.7
3840.3	3712.1	3576.8
3086.6	4213.6	2551.7
4705.0	3432.5	2138.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__unclassified	3557
s__unclassified	3562
s__unclassified	3567
s__unclassified	3572
s__unclassified	3582
s__unclassified	3583
s__unclassified	3586
s__unclassified	3595
s__unclassified	3600
s__unclassified	3608
s__unclassified	3617
s__unclassified	3618
s__unclassified	3623
s__unclassified	3633
s__unclassified	3634
s__unclassified	3635
s__unclassified	3636
s__unclassified	3646
s__unclassified	3649
s__unclassified	3650
s__unclassified	3651
s__unclassified	3654
s__unclassified	3655
s__unclassified	3658
s__unclassified	3663
s__unclassified	3665
s__unclassified	3667
s__unclassified	3673
s__unclassified	3674
s__unclassified	3676
s__unclassified	3678
s__unclassified	3679
s__unclassified	3680
s__unclassified	3683
s__unclassified	3684
s__unclassified	3687
s__unclassified	3688
s__unclassified	3707
s__unclassified	3711
s__unclassified	3720
s__unclassified	3721

AJ633635.1 gg_id:107477 Acinetobacter sp. phenon 9 str. LUH 1738 = ACI647 AJ6336
GQ045794.1 gg_id:391261 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ045
AJ303014.1 gg_id:73559 Acinetobacter sp. str. LBV326 (97 10 4186) AJ3030
EU360111.1 gg_id:582701 Acinetobacter calcoaceticus str. PB16 EU3601
EF432578.2 gg_id:206376 Acinetobacter calcoaceticus str. HB1-1 EF4325
Z93447.1 gg_id:8313 Acinetobacter sp. str. ATCC 17905 Group TU14 Z93447
DQ834356.1 gg_id:171431 Acinetobacter sp. str. SLH4 DQ834
EU513394.1 gg_id:277540 Acinetobacter calcoaceticus str. TMPSB-D12 EU5133
EF205268.1 gg_id:199813 Arctic gold mine fracture water clone Lupin-1130m-1-MDA-aci1 EF2052
GQ069882.1 gg_id:445385 Topographical and Temporal Human Skin Microbiome skin buttock clone nbw242h0 GQ069
FJ675523.1 gg_id:522826 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6755
EU467678.1 gg_id:301128 naked mole-rat feces clone molerat_2b06_1 EU4676
FJ009590.1 gg_id:546906 Acinetobacter baumannii str. IP026 FJ0095
FJ193144.1 gg_id:352821 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1931
AJ296556.1 gg_id:30013 uranium mining depository deponie B1 clone GR-B1-2-35 GR-B1-2-35 AJ2965
EF429004.1 gg_id:204497 Acinetobacter sp. str. GIST-Out1 EF4290
EU918130.1 gg_id:332182 Acinetobacter junii str. PM-8 EU9181
FJ527818.1 gg_id:540395 Acinetobacter sp. str. KSL5401-037 FJ5278
GQ284482.1 gg_id:590067 Acinetobacter sp. str. TDWCW1 GQ284
AY823621.1 gg_id:115347 Acinetobacter calcoaceticus str. SW1 AY8236
EU594561.1 gg_id:277462 Acinetobacter sp. str. 4-2 EU5945
FJ151628.1 gg_id:342972 Acinetobacter calcoaceticus str. HNR FJ1516
EU774032.1 gg_id:314572 Cheetah feces clone CE2_e07 EU7740
AB167206.1 gg_id:107919 Acinetobacter sp. str. c33 AB1672
FJ675182.1 gg_id:524252 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6751
EU240404.1 gg_id:256200 Acinetobacter calcoaceticus str. B120 EU2404
X80285.1 gg_id:8331 Acinetobacter calcoaceticus X80285
EU705523.1 gg_id:354028 Microbial Burden and Analyses Phoenix Spacecraft Assembly Kennedy Space Centre EU7055
FJ820996.1 gg_id:511035 Acinetobacter sp. str. PT22 FJ8209
DQ856498.1 gg_id:250517 intestinal microflora Chinese mitten crab (Eriocheir sinensis) clone C1A DQ856
Z93434.1 gg_id:8311 Acinetobacter calcoaceticus str. ATCC 23055T group one Z93434
EU272861.1 gg_id:358174 Acinetobacter sp. str. MK28 EU2728
GQ174293.1 gg_id:414197 Acinetobacter sp. str. PP-2 GQ174
FJ263921.1 gg_id:318166 Acinetobacter septicus str. BA9 FJ2639
GQ092219.1 gg_id:403040 Topographical and Temporal Human Skin Microbiome skin palm clone nbw411b09c1 GQ092
AM412160.1 gg_id:247994 Acinetobacter sp. str. P-133 AM412
DQ464150.1 gg_id:158313 acid mine drainage clone D1-48 DQ464
EU073105.1 gg_id:350209 Acinetobacter sp. str. TS39 EU0731
FJ193900.1 gg_id:317914 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1939
EF203410.1 gg_id:264736 Acinetobacter sp. str. URAM1 EF2034
FJ671719.1 gg_id:525292 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6717

22024.9	7046.6	6800.0	7454.3	7111.9	7953.1	6906.3	7552.4	11472.1	11561.8	9197.4
251.4	3238.0	3642.1	4069.2	3630.9	4955.7	3529.0	4492.6	3216.5	10764.5	2900.1
102.9	2478.9	2888.0	2995.3	3059.7	5378.8	2893.8	3028.3	2205.3	15184.9	1644.6
136.9	3636.3	3795.2	3941.2	3754.1	6271.5	4303.0	3368.5	2118.3	16079.8	2451.5
330.5	5137.1	5159.9	5972.6	7070.9	6115.8	6062.1	4814.4	3273.2	12098.3	4456.6
3850.5	2367.6	3056.2	3251.2	3322.0	4520.2	2876.7	3379.7	1978.4	13059.0	2863.5
256.0	1247.3	1303.8	1599.2	1535.4	3524.7	1457.1	1181.5	622.6	9492.0	680.1
120.2	2850.3	3118.5	2789.3	2723.6	5088.6	3032.2	2649.1	1638.6	14401.3	2063.7
63.3	2456.5	2565.6	3216.0	3166.8	4493.0	2781.4	2580.8	1715.5	11551.0	1714.2
56.1	716.2	969.9	1143.2	1037.5	3952.4	712.2	827.1	262.2	9500.8	432.0
140.7	1429.1	1890.7	2187.3	2384.9	4181.5	2337.1	2290.9	743.8	13860.5	1383.9
303.2	1975.0	2169.0	2463.3	2163.5	3372.5	1075.2	2640.1	1652.5	7474.1	1997.5
317.2	2407.6	2265.8	2456.4	2289.8	4409.1	2790.9	1997.0	1466.8	8251.7	1677.9
3033.5	5141.3	4797.6	4852.3	5581.7	6271.3	8027.7	5459.7	5646.4	10400.2	6091.6
2548.9	4760.1	4665.5	5070.2	5015.7	5638.0	4754.7	6282.0	4026.2	7663.2	6886.3
5370.0	4322.0	5126.0	5379.6	5030.0	5392.0	5256.0	5535.9	5747.8	10111.8	4800.8
13878.4	10195.2	9639.9	10978.3	11104.5	10724.4	11620.7	10055.8	13606.0	16299.6	13105.9
295.1	1837.5	1687.2	1892.1	1987.8	3335.5	1656.3	1686.7	1099.6	11190.6	1742.1
95.6	1417.3	1594.1	1904.5	2200.6	3251.9	1488.2	1309.2	661.1	13722.0	988.2
1810.0	5169.3	5270.7	5765.7	4763.9	7691.0	4692.5	5277.4	3929.1	16752.4	5625.1
175.2	2136.5	2484.1	2554.0	2408.5	3449.3	2120.3	2789.1	1622.0	9614.1	1874.3
106.6	1264.4	1616.8	1580.5	1986.3	4091.7	1484.3	1572.3	421.0	11620.0	745.5
249.1	4659.1	5563.4	5747.0	4824.8	7784.6	3450.3	4884.0	2749.2	17192.2	3250.0
2149.2	3965.3	3744.2	4180.7	3631.5	5477.5	4281.8	3739.8	2161.2	15794.4	3104.5
1190.6	4831.8	4132.8	3919.7	3226.8	7981.1	2328.7	3345.4	2617.4	16258.4	2328.5
782.9	3577.6	4331.3	4464.2	3836.5	7224.9	3158.7	4352.2	3604.5	17795.2	4046.5
7024.6	3940.5	3824.0	4076.5	5114.1	4885.1	4121.1	5462.5	3231.0	10629.9	4298.2
2366.1	4033.8	3769.5	4207.1	4028.5	7033.5	3941.9	3697.0	3139.5	18680.8	3607.1
1971.0	2803.8	2834.1	2531.3	2392.8	3552.1	1685.9	3509.1	3234.0	9436.8	2744.3
129.0	1504.5	1953.1	1992.8	1702.9	3120.9	2316.0	2004.3	1135.4	6052.2	1137.3
1083.7	2962.1	3663.2	3529.2	3368.2	5742.9	3619.6	3765.4	2211.5	16242.6	2506.5
114.5	1827.8	2057.2	2393.9	1616.0	3839.7	1470.4	1513.2	1013.6	10637.1	771.3
102.8	2046.2	2944.6	2994.2	2415.6	5969.6	2816.1	2665.7	1381.9	15532.5	1708.0
75.7	1182.9	1543.6	1632.4	1408.7	3008.8	1169.4	1503.9	504.2	9626.9	778.7
1048.1	3363.4	3721.1	4351.2	4326.8	6901.6	4149.3	4358.2	3401.4	14522.1	3589.4
3790.1	6326.6	5889.7	6588.9	6703.1	6986.0	8216.5	6319.3	8853.0	15461.9	5299.9
114.2	3133.6	2700.6	2562.4	2976.8	4737.7	3208.0	2198.8	1468.4	13248.8	1469.4
117.8	3079.6	1606.9	1387.3	985.2	2245.9	844.6	2001.1	818.2	7986.5	1583.9
5242.2	6600.4	6149.9	6717.4	5987.8	6833.1	8254.8	6163.4	6201.3	14003.1	6296.1
796.9	4450.0	4320.5	4687.2	4707.8	7314.9	5161.3	4163.8	2486.5	19610.9	3205.0
2648.2	6540.5	6075.7	6215.2	6296.6	9179.4	5848.1	5803.0	4504.8	21837.0	7155.8

7258.5	7779.9	7243.3
4650.5	7175.2	3225.5
4694.5	2863.2	2066.6
5633.7	3265.6	2352.9
5220.2	4698.6	4004.3
3468.6	3387.8	2893.5
2145.1	877.6	853.9
4647.1	2569.6	1670.2
3770.8	2847.9	1767.9
2606.9	918.8	806.6
3592.8	2492.0	1553.1
2780.5	2648.5	2370.1
2782.5	2147.7	1838.8
5524.6	6466.8	4149.2
7623.3	6104.0	5742.9
5492.1	4632.3	4061.5
10211.9	9983.6	8768.6
2992.4	1579.7	1285.8
3051.4	1616.2	1051.6
6554.8	5083.7	3850.8
3164.6	3070.5	2383.5
2920.6	1182.4	1351.9
8372.1	5669.5	3814.8
4241.2	3860.7	3136.5
4787.0	3405.5	2271.6
5958.6	3956.7	2817.0
4206.9	4092.9	3052.8
4975.8	4383.2	3287.5
4099.4	3538.9	3808.8
3224.7	2196.7	1736.8
5391.5	4274.8	2846.7
2754.4	1575.7	1353.4
5729.7	2811.5	1989.7
3136.8	1496.0	1229.4
5081.5	5467.1	4036.0
6283.9	6705.3	6051.0
4827.0	1860.3	1362.2
2191.7	1804.1	460.5
6357.6	6587.7	6022.1
6009.8	4059.5	2828.2
7858.6	5987.0	4789.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__unclassified	3724
s__unclassified	3726
s__unclassified	3727
s__unclassified	3732
s__unclassified	3739
s__unclassified	3747
s__unclassified	3748
s__unclassified	3749
s__unclassified	3751
s__unclassified	3752
s__unclassified	3766
s__unclassified	3769
s__unclassified	3771
s__unclassified	3772
s__unclassified	3777
s__unclassified	3787
s__unclassified	3788
s__unclassified	3794
s__unclassified	3803
s__unclassified	3818
s__unclassified	3823
s__unclassified	3826
s__unclassified	3839
s__unclassified	3841
s__unclassified	3846
s__unclassified	3852
s__unclassified	3853
s__unclassified	3869
s__unclassified	3874
s__unclassified	3879
s__unclassified	3880
s__unclassified	3886
s__unclassified	3891
s__unclassified	3897
s__unclassified	3899
s__unclassified	3902
s__unclassified	3905
s__unclassified	3909
s__unclassified	3915
s__unclassified	3926
s__unclassified	3927

AM184255.1 gg_id:161481 Acinetobacter haemolyticus str. WAB1914 AM184
AY800383.1 gg_id:108973 Acinetobacter calcoaceticus AY8003
FJ193843.1 gg_id:324697 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1938
FJ791167.1 gg_id:543942 Hydrocarbon degraders -grade long term automative hydrocarbon contamination oil- FJ7911
EU841481.1 gg_id:344669 Acinetobacter sp. str. 407 EU8414
EU467641.1 gg_id:291175 naked mole-rat feces clone molerat_2d03 EU4676
X89709.1 gg_id:8322 Acinetobacter sp str. DSM 587 X89709
GU370393.1 gg_id:518077 Acinetobacter sp. str. PD4 GU370
GQ383923.1 gg_id:582252 Acinetobacter sp. str. XJ127 GQ383
FM874549.1 gg_id:360440 occupant source house mattress dust clone MD03C05 FM874
AB176230.1 gg_id:191845 Microbial Hydrothermal System Suiyo Seamount on Izu-Ogasawara Arc vent area wa AB1762
FJ544395.1 gg_id:453868 Acinetobacter junii str. tu13 FJ5443
DQ341260.1 gg_id:147489 Acinetobacter lwoffii str. F78 DQ341
GQ045799.1 gg_id:415493 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ045
EU160530.1 gg_id:340699 diagnosis central-venous infections cultivation-dependent and techniques biofilm sci EU1605
FJ192953.1 gg_id:351059 Genetic inventory 'KSC-PHSF' spacecraft assembly clean room during Phoenix missior FJ1929
EU661697.1 gg_id:286733 Acinetobacter baumannii str. NBRAJG76 EU6616
DQ441376.1 gg_id:190792 human intestinal biopsy clone CD125 DQ441
DQ824733.1 gg_id:194641 human fecal clone RL185_aaj72d05 DQ824
FJ672730.1 gg_id:516114 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6727
AY346313.2 gg_id:207698 Acinetobacter calcoaceticus str. HPC253 AY3463
FM213385.2 gg_id:347588 Acinetobacter sp. str. MN33 FM213
AY847284.1 gg_id:110290 Acinetobacter baumannii str. Ab8 AY8472
EF565936.1 gg_id:229145 Acinetobacter sp. str. NF4 EF5659
AJ293691.1 gg_id:71951 Acinetobacter parvus str. LUH4616 (Aci602) AJ2936
FN563424.1 gg_id:580752 Acinetobacter baumannii str. bpoe1353 FN5634
AJ278311.2 gg_id:35076 Acinetobacter schindleri str. LUH5832T AJ2783
EU467633.1 gg_id:287831 naked mole-rat feces clone molerat_2g07 EU4676
GQ045189.1 gg_id:445146 Topographical and Temporal Human Skin Microbiome skin interdigital web space clc GQ045
EF059532.1 gg_id:219882 Acinetobacter sp. JN18_V5_C EF0595
FJ672809.1 gg_id:528886 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6728
EU463223.1 gg_id:302877 naked mole-rat feces clone molerat_aai71h09 EU4632
FJ193977.1 gg_id:324684 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1939
EU560788.1 gg_id:562084 Assessment genetic intestinal flora Apriona germari (Hope) larvae -RFLP techniques (EU5607
EU604241.1 gg_id:341709 Acinetobacter junii str. jfly-01 EU6042
Z93987.1 gg_id:8330 activated sludge clone T27 Z93987
FJ672176.1 gg_id:512623 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6721
EU221346.1 gg_id:235575 Acinetobacter calcoaceticus str. HM1C2 EU2213
EU730929.1 gg_id:353461 Acinetobacter johnsonii str. 178 EU7309
EU249988.1 gg_id:240369 Acinetobacter sp. str. PmeaMuc16 EU2499
EU160536.1 gg_id:328674 diagnosis central-venous infections cultivation-dependent and techniques biofilm sci EU1605

140.6	1417.2	1699.1	1938.8	1624.1	2196.5	1612.2	2113.2	1567.8	7449.3	1292.3
521.4	1940.5	2032.9	2352.3	2289.6	5521.4	1835.0	2740.7	761.9	17045.1	1257.8
496.3	3375.6	3502.6	3828.7	3233.1	5614.2	3708.5	3412.3	3029.6	15773.1	3120.7
24700.0	6729.9	6464.8	6844.6	7578.6	7532.8	6837.5	5974.5	9043.6	14473.5	8629.5
567.9	2027.4	2210.8	2173.4	1073.8	5520.3	1940.8	2222.0	956.4	14860.4	1162.4
96.0	1970.8	1955.5	1870.2	1985.5	4549.9	1035.0	2085.3	921.7	14188.5	1367.4
6798.3	4496.6	4369.3	5092.8	5119.8	4646.5	5201.7	3053.5	4114.4	8118.9	5364.5
243.6	5358.6	5028.6	4944.8	6067.7	6109.2	6082.8	4426.5	3309.0	10579.0	3243.8
7188.0	5281.6	4791.6	4978.7	5871.3	5988.6	4762.7	5281.5	4376.4	14299.7	5598.0
33.4	951.5	1177.7	1089.8	937.1	3860.2	916.1	1136.6	491.4	17611.5	650.1
1222.6	3596.8	3782.3	4416.2	4649.8	6925.4	4078.7	3675.6	2990.5	17429.7	3046.5
870.1	3874.0	3334.5	4005.8	4889.5	5867.7	4864.5	3426.9	1785.7	17805.7	2469.1
2391.0	4662.5	4905.4	5229.5	4923.6	7684.6	4670.5	5873.6	3916.5	18776.3	5558.0
7997.5	3886.1	4837.7	5307.7	5102.9	5498.9	4853.1	5679.7	4165.6	12825.9	4470.6
14111.9	9901.1	9668.3	9780.7	8796.8	9784.9	9969.2	8840.0	11072.8	13742.2	15382.0
20423.4	7956.9	8114.3	9225.8	8806.2	10034.0	8932.0	8412.9	8975.3	22672.2	9403.5
9982.6	5075.2	4948.1	5937.9	6048.2	6217.2	6816.4	3994.2	4140.4	12735.1	5010.1
67.8	752.9	788.3	847.4	862.1	3220.1	307.6	613.4	344.6	8963.8	312.3
81.1	54.2	593.6	638.6	651.8	616.1	760.4	588.6	344.6	726.3	514.2
11428.7	4047.4	4592.7	4695.0	4815.9	7576.0	4500.4	5856.0	4353.6	20610.8	4081.0
120.4	3826.8	3881.0	3909.5	4087.8	6367.7	4715.3	3404.3	2173.5	16665.7	2703.7
368.6	5167.3	5172.2	5686.9	6608.5	8722.2	6857.2	4997.1	2998.6	21373.1	3842.2
130.6	3491.5	4003.3	4500.1	4584.8	7545.8	5385.3	3619.1	2339.0	18218.0	2613.5
47.1	56.1	27.7	17.9	31.3	40.2	26.1	20.4	22.3	816.4	25.6
44.6	2380.4	2273.0	2778.2	3618.4	5820.2	3705.4	1669.7	1188.2	14138.5	1492.7
230.9	1292.3	1372.9	1499.3	595.4	3468.2	1298.0	1032.0	484.6	10784.4	598.8
470.2	4326.0	4488.2	5155.7	4353.1	5505.1	3936.6	5465.0	3946.4	14451.5	5219.1
417.1	3131.4	3215.7	3443.0	4075.3	7597.5	1934.2	3217.5	1801.2	17453.7	1917.2
7270.0	5326.0	5713.4	6264.0	6015.5	5983.9	5944.7	6096.0	4946.2	11314.1	7367.8
1379.6	2301.2	2573.9	2890.0	3264.1	4729.2	3320.5	3063.1	1331.3	16832.0	1397.1
17759.8	10188.2	9738.6	10688.9	9691.6	11048.2	10570.3	9500.1	10488.4	17860.3	13952.7
1587.8	2539.3	2543.9	2546.7	2827.1	3111.2	2629.8	2726.5	1362.2	9408.3	1755.7
463.8	2978.7	3296.5	3532.9	3069.7	4678.3	3377.0	3230.1	3178.8	14274.8	2948.5
166.7	1760.8	2123.3	1929.3	1479.7	3488.5	2077.4	1901.6	1767.5	6878.1	1029.3
4268.5	6464.6	5769.6	6019.3	6629.6	6533.0	6602.6	6411.5	9259.4	12705.7	7100.9
1111.9	3654.4	4251.3	4452.4	4339.3	5961.1	6804.9	4363.9	3176.3	14464.8	3902.5
2305.9	3817.2	3991.4	4498.5	5193.4	4948.6	5970.0	4254.8	2784.0	11130.9	3014.7
1002.3	1468.2	1657.1	1491.5	1168.0	3499.3	576.0	1258.0	764.5	10690.6	1531.7
614.6	2995.4	3174.3	3372.8	3593.4	4556.0	3340.7	3518.6	2240.9	11569.3	2814.7
2374.1	2601.2	2628.0	2825.4	2615.6	4707.7	1990.9	3368.9	1619.9	11529.0	1867.1
2212.7	2548.2	2360.0	2682.1	2461.6	2734.2	2294.2	1934.3	3477.8	7411.3	3862.6

2212.9	1816.9	1601.7
5058.4	2171.3	1849.8
4789.8	3894.0	3012.1
6309.2	7909.5	6278.3
3600.9	2428.3	2089.0
2793.2	2022.8	1275.7
4559.7	4169.4	3061.1
6478.9	4849.2	4543.6
5849.7	5082.9	4616.0
2718.8	1600.3	850.8
5692.9	4793.7	3697.7
4201.5	2876.7	2418.9
7671.7	6094.8	4977.5
6816.2	6414.4	5270.4
8641.4	10805.2	7286.3
8877.8	7997.5	8366.4
5612.2	4282.0	3555.2
1366.3	689.3	626.6
526.1	500.9	437.1
7922.3	6067.7	5659.6
5904.7	3187.1	2104.3
7169.6	4141.1	3361.3
7539.3	3490.6	2651.5
39.2	26.2	15.9
4234.4	1498.1	1130.7
1877.1	1334.2	1150.1
4937.0	5243.2	3077.5
6452.1	3853.7	3399.6
5920.3	7929.8	5820.0
4124.1	2946.8	3031.2
10650.5	9806.3	9096.8
2645.7	3061.5	2336.9
4134.9	3651.1	2630.3
4794.8	1857.9	883.6
5646.6	7113.7	5524.7
4628.9	4051.0	3774.7
5331.0	3821.7	2953.1
2258.6	1548.8	1149.4
4261.3	3972.2	2667.7
4338.0	2868.5	2013.2
2102.4	3103.8	2152.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter
g__Acinetobacter

s__unclassified	3938
s__unclassified	3940
s__unclassified	3943
s__unclassified	3947
s__unclassified	3949
s__unclassified	3951
s__unclassified	3953
s__unclassified	3955
s__unclassified	3956
s__unclassified	3966
s__unclassified	3968
s__unclassified	3970
s__unclassified	3973
s__unclassified	3978
s__unclassified	3979
s__unclassified	3981
s__unclassified	3986
s__unclassified	3992
s__unclassified	3993
s__unclassified	3995
s__unclassified	4004
s__unclassified	4006
s__unclassified	4016
s__unclassified	4022
s__unclassified	4026
s__unclassified	4030
s__unclassified	4036
s__unclassified	4037
s__unclassified	4038
s__unclassified	4049
s__unclassified	4057
s__unclassified	4060
s__unclassified	4070
s__unclassified	4072
s__unclassified	4083
s__unclassified	4085
s__unclassified	4087
s__unclassified	4089
s__unclassified	4090
s__unclassified	4100
s__unclassified	4101

EU661696.1 gg_id:283320 Acinetobacter calcoaceticus str. NBRAJG75 EU661
EU921463.1 gg_id:345884 Acinetobacter calcoaceticus str. HIRFA27 EU921
FN433036.1 gg_id:565535 Acinetobacter beijerinckii CCM25B FN433
AJ633639.1 gg_id:99113 Acinetobacter sp. str. LMG M71 = ACI788 AJ6336
EU467631.1 gg_id:302583 naked mole-rat feces clone molerat_2f06 EU467
FJ674356.1 gg_id:525396 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6743
DQ824645.1 gg_id:184299 human fecal clone RL185_aaj71a07 DQ824
X81659.1 gg_id:8342 Acinetobacter species X81659
AF336353.1 gg_id:37719 Acinetobacter sp. str. Wuba39 AF3363
FJ263922.1 gg_id:304658 Acinetobacter septicus str. BA14 FJ2639
FJ816051.1 gg_id:564486 Acinetobacter calcoaceticus str. PUCM1004 FJ8160
X81668.1 gg_id:8375 Acinetobacter calcoaceticus X81668
EF188656.1 gg_id:351236 Microbial Altamira Cave clone 400 EF1886
EU090179.1 gg_id:250734 Acinetobacter calcoaceticus str. 11 EU0901
FJ976566.1 gg_id:591323 Acinetobacter calcoaceticus str. LCR58 FJ9765
FJ194001.1 gg_id:310497 Genetic inventory 'KSC-Astrotek' spacecraft assembly clean room during DAWN missi FJ1940
AY633607.1 gg_id:101152 Acinetobacter marinus str. SW-3 AY6336
FJ672939.1 gg_id:515715 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6729
EU467653.1 gg_id:289405 naked mole-rat feces clone molerat_2b02_1 EU467
FJ671896.1 gg_id:521562 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6718
EU463121.1 gg_id:290186 naked mole-rat feces clone molerat_aai70b10 EU463
EU160533.1 gg_id:353347 diagnosis central-venous infections cultivation-dependent and techniques biofilm sc EU1605
NR_028852.1 gg_id:591121 Acinetobacter gerneri str. 9A01; DSM 14967 NR_02
DQ856553.1 gg_id:244174 intestinal microflora Chinese mitten crab (Eriocheir sinensis) clone C3Q DQ856
FJ811875.1 gg_id:579258 Acinetobacter sp. str. MA3B-GFJ FJ8118
EF127901.2 gg_id:255893 Acinetobacter sp. str. Y3A EF1279
AJ295007.1 gg_id:36199 Acinetobacter venetianus str. ATCC 31012 AJ2950
EU382216.1 gg_id:263259 Acinetobacter sp. str. DZ0503SBS4 EU382
AB167222.1 gg_id:107933 Acinetobacter sp. str. c61 AB167
FJ976597.1 gg_id:509344 Acinetobacter calcoaceticus FJ9765
EU434432.1 gg_id:265496 Acinetobacter johnsonii str. a153 EU4344
FJ672184.1 gg_id:510837 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6721
GQ281071.1 gg_id:577164 Acinetobacter sp. str. NBCS09 GQ281
GQ258635.1 gg_id:542419 Acinetobacter soli str. SR2 GQ258
GQ039005.1 gg_id:441923 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbu4 GQ039
FJ674942.1 gg_id:525865 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6749
FJ675650.1 gg_id:512333 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6756
FJ671967.1 gg_id:524433 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6719
EU934077.1 gg_id:333015 Acinetobacter sp. FR2_4 str. FR2_4con EU934
AF390087.1 gg_id:49347 Acinetobacter sp. str. Sea-9 AF390
AJ633641.1 gg_id:103039 Acinetobacter sp. str. LMG V90 = ACI792 AJ6336

9460.9	5948.9	6283.5	6211.9	5502.3	7163.6	5270.3	6441.5	6628.0	12293.0	7515.9
93.8	1842.8	2742.8	2604.9	2337.4	5010.8	2414.9	2331.6	1220.1	14158.0	1562.5
1613.8	3564.8	3716.0	4275.4	4422.3	5063.2	5522.0	3957.6	3373.9	17142.5	3753.7
857.7	3144.1	3092.2	2908.2	2738.0	6360.5	2634.4	3378.5	1743.6	17477.0	1905.6
175.7	1790.2	2202.0	2404.2	2147.6	5038.1	1645.9	2330.0	959.6	16337.6	1362.3
7064.8	3001.2	3763.8	4108.9	4493.7	5279.4	3832.5	4574.7	4435.6	12507.1	4193.5
2310.9	1749.0	1550.5	1872.3	1490.3	1879.2	1815.2	1859.3	1094.5	4789.3	1763.9
64.1	3408.1	3149.7	3740.1	4356.2	6120.8	5073.7	2485.6	1737.9	18679.4	1606.4
592.5	4292.3	3766.7	3746.5	3508.8	4152.1	3807.3	3337.0	4679.4	7099.7	4907.4
11417.6	3802.8	4005.5	4537.1	3928.5	4638.1	4037.4	4065.6	3178.9	8316.3	4706.3
160.3	3308.3	3572.3	3083.0	2574.5	5268.4	2698.0	3279.8	2082.1	13637.1	2795.9
1059.9	4478.7	3833.4	3968.4	4295.0	5060.7	4337.9	5344.3	2970.1	10338.9	3130.7
17825.3	3674.2	3489.5	3904.2	4040.1	5873.2	4127.9	3810.4	4312.6	13269.2	3863.2
1928.0	6676.8	7083.4	7726.6	8264.8	7597.4	8194.8	6724.5	6348.6	14401.9	6672.4
144.3	2633.4	3432.8	3503.5	3036.4	5492.4	2876.0	3213.5	2550.6	14742.8	2429.5
721.6	3265.3	4247.1	4195.9	3797.2	6498.7	4743.8	4920.1	2526.5	15773.3	3381.7
178.8	1112.0	1180.9	1222.3	266.3	3048.6	694.7	1179.2	495.9	6199.3	570.4
14879.2	6100.1	6241.4	7217.5	6165.9	8300.7	5989.0	7049.7	5996.3	18083.6	6808.3
18804.8	7315.0	6506.5	7679.5	7612.8	8654.6	8073.8	7009.4	8291.9	13469.4	9392.8
1216.0	3006.9	3223.0	3352.5	2799.8	4797.1	2716.4	3994.5	2721.8	10225.0	2924.1
2160.7	4607.9	4445.2	5169.3	5649.3	7977.7	4586.3	4981.5	4797.3	11731.0	4948.3
1929.9	1983.7	2065.6	2571.9	2609.5	3014.2	2972.0	2477.5	1734.0	9460.6	3442.5
2964.5	4018.7	4174.3	4325.3	5990.3	4338.3	4619.2	3637.7	3952.2	6994.9	4453.4
73.3	1178.4	1175.8	1128.2	1454.0	3610.7	1108.2	1062.3	511.2	14792.5	659.9
805.7	3905.1	3833.5	4556.2	4621.5	6628.7	4859.5	3558.6	2414.4	15989.9	2790.5
38.8	1595.1	1207.7	1320.4	1095.1	1892.7	1218.0	1102.8	632.8	9956.3	457.8
1874.8	4652.5	4760.3	5260.6	5185.1	6584.6	5155.6	4563.2	4261.8	17175.9	5074.5
56.0	1672.0	1784.7	2214.0	2144.9	5638.5	1907.6	1406.4	789.4	13843.0	886.9
4690.7	3799.8	3717.2	4197.5	4757.7	5510.9	5039.3	3532.0	2696.0	14774.9	3198.3
4741.7	1903.7	1990.4	2035.8	2038.0	4569.9	933.4	2106.4	1037.0	13343.5	1568.1
1099.4	3120.9	3230.8	3685.0	4049.1	6460.2	3531.5	3398.6	2313.7	22010.9	2099.4
223.7	2139.6	2160.6	2356.7	2394.0	5505.6	1715.0	2015.8	1034.1	17052.6	1268.0
163.9	2520.3	2409.9	2472.7	2798.7	4462.8	2963.6	2176.9	1286.6	13519.1	1245.0
24294.3	5133.9	4190.0	4844.4	5965.0	6167.3	4920.9	5160.5	4966.4	10017.1	5798.8
344.0	2986.0	5642.4	3382.6	2572.6	3177.6	2876.9	3142.6	4177.0	11330.5	5345.9
338.3	3647.8	3088.5	2866.1	2714.6	5890.7	2479.2	2374.8	1630.6	11909.9	1356.6
5394.1	5100.4	5059.1	5128.5	4579.0	8013.0	4712.6	4690.0	5428.2	18209.0	5676.7
8812.0	7024.3	7258.6	7541.4	7409.4	7999.5	7336.6	7538.0	7795.4	11526.0	7731.7
473.6	1766.6	1807.5	2101.9	1482.8	4491.9	1611.6	1806.2	908.4	13197.1	910.3
8646.6	7774.8	7230.8	7761.1	7223.6	7652.5	8415.3	7726.1	7609.7	14717.3	8998.5
162.6	1612.6	1554.6	1524.5	1403.9	3026.5	915.6	2116.0	869.3	7855.9	1103.1

6349.3	8037.2	5869.6
4713.5	2470.7	1766.4
4277.0	3993.3	3748.2
4812.1	3418.0	2202.6
3583.6	2498.1	2077.9
5498.3	5413.9	3171.0
2228.9	1430.4	1165.2
5089.7	2006.6	1472.2
4223.5	3432.5	3651.7
4995.6	4338.1	3391.1
4522.8	3043.2	2103.6
5759.6	5488.2	5954.8
4356.3	3112.8	2675.5
7781.4	6607.3	5940.7
4936.3	3351.7	2233.0
5253.6	3748.6	3551.3
2145.8	1404.5	1218.4
8227.2	7448.1	4927.7
7565.3	9348.4	7191.7
5176.4	4526.9	3927.1
6494.3	5696.7	3886.6
2272.0	2900.8	2123.1
3718.3	5182.1	4802.1
2708.4	1332.0	764.2
5474.9	3521.0	2358.8
1772.5	979.7	880.2
5859.6	5562.6	4615.7
3590.5	1637.5	1048.7
4331.9	3717.4	3974.8
3234.4	2197.2	1568.4
5202.8	3715.4	3133.7
3943.8	2689.4	1716.3
4162.4	1933.1	1482.6
5874.6	5826.6	4899.8
3052.5	4146.6	2263.6
3607.0	2489.3	1690.5
6657.0	4905.9	3698.6
8060.8	8372.1	6816.5
3281.1	2022.5	1272.5
7825.0	8541.3	7180.8
2519.4	2002.0	832.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Alkanindiges
g__Enhydrobacter
g__Enhydrobacter
g__Enhydrobacter
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Moraxella
g__Perlucidibaca
g__Perlucidibaca

s__Alkanindiges hongkongensis	3834
s__unclassified	1720
s__unclassified	2068
s__unclassified	3323
s__unclassified	3324
s__unclassified	3442
s__unclassified	3518
s__unclassified	3555
s__unclassified	3578
s__unclassified	3652
s__unclassified	3677
s__unclassified	3714
s__unclassified	3770
s__unclassified	3919
s__unclassified	3948
s__unclassified	4014
s__unclassified	4023
s__unclassified	644
s__Enhydrobacter aerosaccus	2443
s__Enhydrobacter aerosaccus	2868
s__unclassified	2675
s__Moraxella bovoculi	2706
s__Moraxella lacunata	2477
s__Moraxella lacunata	2800
s__Moraxella lacunata	2982
s__Moraxella lacunata	2986
s__Moraxella nonliquefaciens	2445
s__Moraxella nonliquefaciens	2512
s__Moraxella ovis	2899
s__unclassified	2325
s__unclassified	2335
s__unclassified	2582
s__unclassified	2816
s__unclassified	2872
s__unclassified	2875
s__unclassified	2988
s__unclassified	2989
s__unclassified	3004
s__unclassified	3301
s__unclassified	1170
s__unclassified	1768

AF543466.1 gg_id:58303 Alkanindiges hongkongensis str. HKU9 AF5434
EU104153.1 gg_id:334424 Evidence Comamonadaceae determinants settling performance activated sludge clo EU1041
DQ640687.1 gg_id:228207 full-scale EBPR sludge clone Skagenf46 DQ640
GQ076362.1 gg_id:455948 Topographical and Temporal Human Skin Microbiome skin plantar heel clone nbw36 GQ076
EU636038.1 gg_id:278473 Antarctic str. 3C8 EU636
DQ847440.1 gg_id:171048 human forearm skin clone GL2-47 DQ847
EU104133.1 gg_id:324983 Evidence Comamonadaceae determinants settling performance activated sludge clo EU1041
GQ464393.1 gg_id:548754 Detection during -ARDRA and sequencing frozen chicken storage container 90 days GQ464
DQ130041.1 gg_id:152336 microbial biota normal forearm human skin clone JEL30 DQ130
GQ076390.1 gg_id:392111 Topographical and Temporal Human Skin Microbiome skin plantar heel clone nbw36 GQ076
GQ080410.1 gg_id:388165 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ080
DQ336992.1 gg_id:147715 subsurface water clone EV818CFSSAHH42 DQ336
DQ354732.1 gg_id:153465 subsurface water clone DR550SWSAEE45 DQ354
DQ354720.1 gg_id:155859 subsurface water clone DR550SWSAEE20 DQ354
EU104077.1 gg_id:307143 Evidence Comamonadaceae determinants settling performance activated sludge clo EU1040
AM905315.1 gg_id:238484 Microbial dynamics -arctic exposure hydrocarbons and bioremediation agent interti AM905
FJ380170.1 gg_id:370141 ornithogenic Ross Sea region Antarctica AB1 soil clone 13/4/4G FJ3801
DQ469231.1 gg_id:158223 Microbial and ecology water Zhong Tiaoshan mine Shanxi province China AMD clone DQ469
NR_029005.1 gg_id:591417 Enhydrobacter aerosaccus str. G; LMG 21877; ATCC 27094 NR_02
GQ054317.1 gg_id:379908 Topographical and Temporal Human Skin Microbiome skin umbilicus clone nbw1108 GQ054
AY043376.1 gg_id:63603 Moraxella osloensis str. AU1220 AY0433
DQ153085.1 gg_id:219896 Moraxella bovoculi str. 371 DQ153
AF005167.1 gg_id:8243 Moraxella lacunata str. E3808 AF0051
AF005169.1 gg_id:8245 Moraxella lacunata str. NCTC 7911 AF0051
AF005161.1 gg_id:8237 Moraxella lacunata str. ATCC 17956 AF0051
AF005162.1 gg_id:8238 Moraxella lacunata str. E7992 AF0051
AF005178.1 gg_id:8274 Moraxella nonliquefaciens str. B6270/90 AF0051
AF005176.1 gg_id:8272 Moraxella nonliquefaciens str. P2581/88 AF0051
AF005186.1 gg_id:48597 Moraxella ovis str. ATCC 33078T AF0051
AF005185.1 gg_id:8278 Moraxella catarrhalis str. ATCC 25238T AF0051
FM873527.1 gg_id:360893 occupant source house mattress dust clone MA01E04 FM873
NR_028914.1 gg_id:585738 Moraxella canis str. N7; LMG 11194 NR_02
DQ647927.1 gg_id:222016 Moraxella bovis str. Tifton I DQ647
AM420053.1 gg_id:246528 Noma subgingival plaque clone 202G06(oral) AM420
AF005187.1 gg_id:8281 Moraxella caviae str. CCUG 355T AF0051
AF005188.1 gg_id:8261 Moraxella cuniculi str. CCUG 2154T AF0051
AF005189.1 gg_id:8249 Moraxella cuniculi str. CCUG 27179 AF0051
EF396294.1 gg_id:255045 Moraxella sp. CD12CA4 EF3962
GQ070485.1 gg_id:467388 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ070
AY212599.1 gg_id:100893 water 20 m downstream manure clone 148ds20 AY2125
DQ823176.1 gg_id:170920 Techniques Microbial Studies Oregon Caves National Monument Quad 3 on trail clo DQ823

496.7	1925.5	2065.7	2472.3	2524.4	2426.9	2406.6	2216.2	1193.7	3083.3	2369.6
200.5	1409.2	1744.9	1929.5	2377.8	1981.7	1508.9	2160.1	1300.4	1469.1	1116.7
27.9	207.9	434.7	321.9	478.8	256.8	274.8	752.9	480.7	58.6	101.3
8876.7	4999.0	5371.4	5820.4	6315.0	5157.9	5197.0	5267.5	8151.3	8163.0	6679.9
290.8	2145.6	2710.0	3187.9	2274.2	3218.5	1201.1	3756.2	1890.9	5196.1	1812.8
56.0	1248.8	1557.9	1500.8	1746.9	1911.6	1458.6	1737.2	575.1	4435.8	989.5
70.9	760.5	1123.7	1029.6	2105.0	1176.7	2475.5	1692.4	675.3	550.1	908.6
700.4	3690.2	3417.1	3423.7	3292.5	4025.7	3751.4	2858.9	2481.6	6230.3	2689.7
3201.2	2886.1	2389.6	2316.2	2366.2	2930.5	2361.8	2881.9	2218.4	5138.0	1574.6
89.6	927.5	1354.1	1679.6	1068.8	1319.5	1204.9	1386.4	465.9	2404.6	411.9
15391.8	7148.6	7597.2	8090.1	8915.3	7865.6	7467.6	7557.5	9296.2	10831.7	10457.5
11371.6	4912.7	4183.4	4866.2	4174.8	5014.7	4713.1	4629.3	5936.2	7600.0	5957.8
114.7	369.2	568.3	727.8	748.3	756.1	321.2	715.8	419.3	297.6	529.9
2301.6	1434.6	1723.6	1881.0	1269.2	1882.1	1541.3	2004.1	1981.5	3245.8	2528.1
520.4	2451.3	3024.0	2955.6	4935.2	3496.7	4998.7	3651.3	1625.7	4054.6	1767.8
1192.3	3585.5	3806.4	4362.7	3003.6	4240.0	2392.2	4951.3	3552.1	6923.3	2610.7
1140.1	2271.8	2758.2	2884.7	3673.7	4707.5	2199.1	2957.9	1797.2	7908.2	2103.2
1438.1	2114.7	3062.4	3031.9	2462.9	2689.5	2111.0	3722.3	3718.0	2572.7	1732.0
204.5	1365.0	1315.8	1144.3	1327.5	1790.2	2017.4	4973.8	845.9	2321.3	4348.7
3781.3	5509.0	4983.7	5362.9	5667.2	5314.6	6247.2	4976.8	9765.7	7739.1	5299.4
883.4	2987.6	3435.4	2824.8	3718.5	3447.7	3402.2	3345.2	2076.6	5518.9	2165.7
1511.0	2724.2	4412.8	3170.3	3116.0	4643.9	3585.2	4215.7	2433.1	6018.2	3115.0
733.7	956.5	1126.6	1252.6	699.2	885.6	1775.3	1136.2	546.2	1076.2	310.3
676.6	1381.2	1500.4	1522.0	1271.1	1341.5	1943.8	1801.8	1229.0	1455.3	784.4
771.4	2035.4	2211.2	2271.5	857.2	2693.6	968.8	2748.0	939.6	2898.1	717.3
629.3	1274.6	1535.3	1707.6	1322.8	2737.3	1680.1	1725.5	1158.0	4521.2	785.5
4129.7	4185.3	4619.4	4591.3	5226.3	4020.2	5943.2	4013.6	3640.8	4431.0	4471.6
4659.9	4373.9	4687.0	5100.0	6059.8	5582.5	5555.5	5080.3	4439.7	8775.0	5103.5
441.7	3554.7	7115.2	4735.5	3254.4	3940.1	3144.8	4010.6	1514.5	5855.2	2059.6
4501.1	3527.3	3610.0	3900.1	4027.2	4484.6	3803.1	4089.2	3275.7	6106.9	3563.6
660.4	3501.8	4211.8	4592.8	4636.4	6165.7	4520.8	4730.6	4080.0	9280.9	3932.0
4481.1	3278.0	3725.7	4313.5	3408.6	4692.4	3581.5	3680.6	3189.0	6518.9	3806.8
1441.4	4104.5	4721.4	3900.0	3056.4	3832.2	4909.9	4188.6	2514.3	2532.7	4761.3
782.9	2202.8	2606.4	2079.5	3464.0	3271.8	3085.0	2447.8	1276.7	5443.8	1613.0
2032.8	3840.2	3045.6	3632.8	4152.2	5615.9	3678.3	3596.3	3426.4	6273.7	1428.6
516.7	2812.4	3065.0	2578.9	2042.0	2823.2	3029.3	2972.7	1611.7	1656.0	2962.7
241.1	764.3	819.3	715.5	653.9	1800.4	635.6	794.0	726.9	2986.0	602.5
4705.8	3287.6	3419.9	3440.8	2919.1	4305.0	3226.8	3806.3	3740.3	4523.7	3641.9
1653.7	2821.6	5957.0	4866.1	2879.9	2119.3	2962.9	5084.4	4395.1	4770.0	2750.3
155.2	1853.9	2510.2	2378.1	2441.9	2465.5	2427.4	2972.6	1368.1	815.3	1331.9
65.5	177.8	395.7	566.5	125.3	299.5	72.5	208.0	134.4	535.9	125.2

2296.6	2280.9	1854.3
2499.4	2054.6	1560.0
87.9	446.2	71.0
5821.3	5983.7	5013.1
3069.7	3098.7	1647.9
1961.2	1584.3	1611.6
1625.4	1326.0	1072.6
4426.5	3677.4	2495.9
2870.4	4105.6	2885.0
2834.3	1250.8	684.1
8353.0	8348.9	7408.0
5175.6	5465.3	3676.1
672.1	696.1	109.9
2036.3	2629.2	1175.8
4020.2	2623.2	2328.6
4615.6	4502.7	2504.0
3312.3	2667.9	1727.9
3922.6	2528.5	1913.7
4338.7	1489.3	1457.7
5143.8	5632.3	5343.9
4205.2	2849.0	2213.9
4545.7	4580.6	2611.7
3711.2	1751.8	702.8
3002.6	1989.7	1424.8
2545.2	2653.4	1122.8
2419.2	1980.5	1492.1
5613.2	3910.1	3711.2
5964.5	5331.8	5306.2
3606.2	4325.1	2944.0
5158.2	4384.3	4866.9
5237.1	5679.9	4665.1
3786.0	3742.2	3482.5
3941.4	5033.5	2518.4
3267.5	2569.9	2428.6
3768.5	4362.1	4513.6
2785.3	3113.3	2065.0
1034.1	1299.4	1321.1
3678.4	3410.4	3563.5
3875.7	4540.3	2542.1
2278.0	2680.9	2236.7
477.2	349.6	65.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Perlucidibaca
g__Perlucidibaca
g__Perlucidibaca
g__Perlucidibaca
g__Perlucidibaca
g__Perlucidibaca
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter

s__unclassified	179
s__unclassified	2220
s__unclassified	329
s__unclassified	479
s__unclassified	936
s__unclassified	954
s__Psychrobacter aquaticus	2888
s__Psychrobacter celer	3117
s__Psychrobacter cryohalolentis	3033
s__Psychrobacter cryohalolentis	3136
s__Psychrobacter marincola	3010
s__Psychrobacter marincola	3141
s__Psychrobacter marincola	3195
s__Psychrobacter marincola	3254
s__Psychrobacter marincola	3294
s__Psychrobacter nivimaris	2890
s__Psychrobacter pacificensis	2533
s__Psychrobacter pacificensis	2943
s__Psychrobacter pacificensis	3044
s__Psychrobacter psychrophilus	2909
s__Psychrobacter pulmonis	2301
s__Psychrobacter pulmonis	2523
s__Psychrobacter pulmonis	2581
s__Psychrobacter pulmonis	2595
s__Psychrobacter pulmonis	2640
s__Psychrobacter pulmonis	2786
s__Psychrobacter pulmonis	3268
s__Psychrobacter sp. PRwf-1	3265
s__unclassified	2310
s__unclassified	2312
s__unclassified	2372
s__unclassified	2404
s__unclassified	2408
s__unclassified	2423
s__unclassified	2428
s__unclassified	2437
s__unclassified	2446
s__unclassified	2463
s__unclassified	2472
s__unclassified	2517
s__unclassified	2520

AY212663.1 gg_id:99626 water 20 m downstream manure clone 216ds20 AY2126
AY622230.1 gg_id:101684 subsurface soil clone C-CL42 AY6222
DQ660872.1 gg_id:237806 DongChuan copper pyrites PRC determined acid mine drainage (AMD) clone DC-II-2 DQ660
DQ458033.1 gg_id:158925 acid mine drainage clone DX63 DQ458
DQ354716.1 gg_id:153505 subsurface water clone DR550SWSAEE15b DQ354
DQ824588.1 gg_id:176013 human fecal clone RL185_aaj70b01 DQ824
AJ830006.1 gg_id:104541 Psychrobacter aquaticus str. CMS 58 AJ8300
AY842259.1 gg_id:110467 Psychrobacter celer str. SW-238 AY8422
AY771717.1 gg_id:108691 Psychrobacter fozii str. S2-83 AY7717
NC_007969.1 gg_id:157086 Psychrobacter cryohalolentis str. K5 NC_007
DQ270712.1 gg_id:141337 Psychrobacter sp. B-3151 DQ270
EU652044.1 gg_id:275703 Psychrobacter marincola str. aa-20 EU6520
AF441202.1 gg_id:44896 Psychrobacter jeotgali str. YKJ-105 AF4412
NR_025458.1 gg_id:562316 Psychrobacter marincola str. KMM 277 NR_025
AJ539104.1 gg_id:79510 Psychrobacter salsus str. DD48 AJ5391
AJ313425.1 gg_id:101537 Psychrobacter nivimaris str. 88/2-7 AJ3134
AB016054.1 gg_id:24089 Psychrobacter pacificensis str. NIBH P2J2 AB0160
AY057116.1 gg_id:27938 Psychrobacter meningitidis str. SGHMS AY0571
AB016056.1 gg_id:18681 Psychrobacter pacificensis str. NIBH P2J13 AB0160
AY167308.1 gg_id:82364 Psychrobacter glacincola str. ANT9253 AY1673
AY372913.1 gg_id:144095 marine sponge Rhabdastrella globostellata symbiont AY3729
EU434452.1 gg_id:269448 Psychrobacter pulmonis str. a40 EU4344
EU434447.1 gg_id:263373 Psychrobacter pulmonis str. a72 EU4344
EU434352.1 gg_id:276381 Psychrobacter pulmonis str. a161 EU4343
EU434446.1 gg_id:263158 Psychrobacter pulmonis str. a60 EU4344
AJ437696.1 gg_id:85442 Psychrobacter pulmonis str. CECT 5989T AJ4376
EU434362.1 gg_id:269048 Psychrobacter pulmonis str. a131 EU4343
NC_009524.1 gg_id:229173 Psychrobacter sp. str. PRwf-1 NC_009
FJ613297.1 gg_id:533763 Psychrobacter faecalis str. hyss7 FJ6132
EU000245.1 gg_id:324143 Psychrobacter maritimus str. KOPRI_22337 EU0002
EU845548.1 gg_id:313200 metagenomics random sampling pyrosequencing rumen fluid fiber adherent microbi EU8455
EU880519.1 gg_id:311744 Psychrobacter nivimaris str. P24a EU8805
EF101551.1 gg_id:182841 Psychrobacter pulmonis str. KOPRI24933 EF1015
AY167281.1 gg_id:82289 Psychrobacter glacincola str. ANT9104 AY1672
EU433332.1 gg_id:271451 Psychrobacter sp. str. BSs20154 EU4333
AJ312213.1 gg_id:32985 Psychrobacter glacincola str. DSM 12194T AJ3122
DQ860047.1 gg_id:251317 anchovy intestinal microflora clone F2N DQ860
AM110989.1 gg_id:140965 Psychrobacter sp. str. 3035 AM110
EU434353.1 gg_id:264946 Psychrobacter pulmonis str. a163 EU4343
DQ677868.1 gg_id:253685 Psychrobacter sp. BF02-S11 DQ677
AY497354.1 gg_id:106855 Psychrobacter sp. str. 20 AY4973

6463.8	6759.5	8554.3	9431.1	7898.9	9296.0	7733.6	8996.6	6048.0	12691.1	9143.0
808.5	2446.8	2618.5	2537.9	2157.0	2855.4	3055.3	3213.6	4226.7	4382.8	2047.3
113.3	751.3	896.3	864.2	620.6	856.2	683.4	2061.8	591.2	324.9	1183.0
284.2	4399.1	4533.1	5274.9	5884.2	3640.7	7539.8	4670.9	2935.2	3101.8	3080.4
1529.1	7065.7	6266.0	6479.0	7661.9	6352.9	8363.8	5723.4	4198.8	9310.2	4899.9
40.8	121.8	335.4	225.6	48.3	153.4	140.0	607.4	237.0	78.7	157.7
6476.3	4886.0	5175.1	5924.1	5742.4	5279.6	5698.8	5348.3	4311.2	8693.8	3127.3
4032.6	4783.3	5375.9	5697.8	5028.7	5319.8	4916.0	5606.9	4396.0	7816.6	3211.7
58.6	166.5	382.3	378.8	331.8	341.5	235.0	295.4	168.6	279.9	174.5
48.3	314.2	958.0	873.5	723.1	681.6	460.8	556.9	283.8	302.9	351.2
299.8	2035.5	2327.3	2459.1	3367.6	3109.3	4592.9	2963.6	1404.1	4111.9	1444.3
381.8	466.0	763.9	1135.6	442.1	593.5	491.6	1239.4	607.1	535.3	346.4
2311.4	2576.8	2413.5	2623.7	2535.7	3654.8	2910.6	3054.6	1708.4	6839.1	2489.5
2729.0	2431.5	2313.9	2602.0	3047.1	2965.7	3463.8	3187.3	1657.0	5620.7	2616.1
920.7	436.8	498.5	652.2	503.2	701.7	540.2	984.4	100.1	1064.1	423.7
666.3	1478.8	1579.6	1404.3	1929.3	2043.5	1555.7	1677.1	883.2	4949.5	1285.6
7494.2	4883.9	5141.5	4935.0	4169.0	4468.7	4416.2	4735.0	3994.8	4579.8	4682.7
371.0	2453.5	2055.1	2322.9	2781.6	2961.3	2544.2	2741.9	929.5	6005.5	982.3
70.5	475.8	620.5	610.1	703.1	767.9	938.6	1035.1	243.6	463.5	390.7
3735.2	3465.3	4361.3	4557.9	4627.3	3952.2	4360.4	4908.4	3205.7	6005.3	2601.3
2404.1	3929.1	4215.6	4644.4	4629.8	6257.6	4486.1	4744.3	2558.1	8221.4	4392.7
2935.7	3223.7	3426.1	4214.2	3370.2	4368.0	3171.5	3759.7	3528.3	5272.5	1736.9
7542.0	6328.8	6271.3	6400.8	6875.6	6780.6	6756.7	6131.3	6576.2	7074.6	5864.8
7027.3	5575.0	5482.4	6183.3	7002.8	6145.0	7185.4	6365.9	7366.7	7417.4	3777.1
4083.9	3144.6	3369.9	4151.4	4006.3	3848.8	4036.0	4089.7	3422.8	2723.3	1782.5
3994.7	4369.1	4794.7	5631.9	5014.5	5223.8	4953.7	5607.5	5261.2	6442.3	3279.3
4065.6	3528.2	3812.2	4824.8	4073.7	4613.8	4002.1	4468.5	3609.3	5319.7	1902.6
2097.6	1930.0	1807.3	1944.1	1928.9	1741.2	2764.0	1749.9	1969.7	1907.8	1613.9
783.1	2323.1	2519.1	3010.1	2882.3	3470.3	3230.6	3028.4	2622.8	3676.0	3168.1
456.8	534.6	559.3	621.5	728.7	746.5	1285.6	722.8	376.4	1053.3	200.6
5220.3	3780.2	4031.2	6079.3	4032.3	3760.7	5587.0	5238.8	4165.7	6067.8	5492.3
1114.7	1385.3	1476.9	1608.8	1819.7	2054.0	1691.6	1571.0	1075.3	4468.1	1225.8
516.7	1129.1	1406.9	1692.9	1472.3	1875.5	1090.1	1482.7	886.1	1039.2	505.1
2960.3	4527.2	4951.8	5455.3	5521.4	5074.3	5248.4	5536.3	5161.2	6483.3	4586.6
23026.6	5449.5	5215.9	5837.7	4357.1	6283.9	6083.9	5299.5	8971.0	9996.4	8736.8
1236.7	1412.7	1496.0	1546.6	1782.6	1501.1	1575.3	1489.6	1638.8	2093.0	1281.1
877.5	1132.9	1303.7	1613.9	1884.8	2538.6	1641.8	1612.8	778.1	5838.9	919.4
1972.4	3185.0	2743.8	3024.5	2823.1	2974.9	2333.4	3309.1	3048.4	4965.1	3422.9
2532.5	935.9	1184.8	1239.9	1533.1	1334.5	1456.6	1366.0	987.9	348.9	549.6
1480.6	580.2	1038.6	1171.6	1105.2	830.3	968.2	913.5	568.6	191.8	493.3
55.7	225.9	432.6	412.8	332.2	389.0	313.6	365.5	153.0	326.1	167.5

9112.5	8237.9	7347.9
3241.4	3117.6	2014.8
1214.3	847.3	494.4
4671.9	4032.1	3212.3
6861.0	4934.9	3525.2
219.0	94.7	41.8
5866.8	6494.9	4638.4
5714.2	6498.7	4132.3
368.4	472.9	286.9
436.3	671.0	542.5
3177.3	2846.9	2534.0
916.4	908.8	494.3
3812.3	3114.5	2756.8
3519.8	3298.6	2369.1
1065.0	697.9	559.6
1901.1	2261.4	1911.5
4672.9	5044.7	5688.9
3440.3	2839.9	2324.1
921.2	928.5	676.6
4689.0	4732.7	2843.4
5544.7	4934.5	3767.7
3698.6	3990.1	3037.2
6126.2	6198.2	6171.8
6156.1	6189.8	5066.4
3663.6	3446.1	2950.6
5542.4	5981.9	4203.8
4238.4	4147.8	3154.5
1934.7	1890.7	1736.9
2911.8	3423.8	3099.6
803.6	1054.6	770.8
3981.1	4540.4	3960.1
2058.2	2507.8	1427.5
2044.8	1732.4	1321.7
5463.3	6110.2	5337.3
5089.9	7834.6	5219.4
1777.2	2055.7	1728.9
2047.7	1939.1	1680.6
3136.6	4509.0	2791.6
1698.3	861.5	732.5
895.5	916.9	561.2
527.6	567.0	536.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae

g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter

s__unclassified	2534
s__unclassified	2544
s__unclassified	2554
s__unclassified	2559
s__unclassified	2574
s__unclassified	2587
s__unclassified	2604
s__unclassified	2632
s__unclassified	2634
s__unclassified	2670
s__unclassified	2689
s__unclassified	2693
s__unclassified	2719
s__unclassified	2724
s__unclassified	2744
s__unclassified	2747
s__unclassified	2770
s__unclassified	2793
s__unclassified	2805
s__unclassified	2811
s__unclassified	2813
s__unclassified	2824
s__unclassified	2839
s__unclassified	2846
s__unclassified	2856
s__unclassified	2897
s__unclassified	2903
s__unclassified	2926
s__unclassified	2937
s__unclassified	2951
s__unclassified	2954
s__unclassified	2970
s__unclassified	3013
s__unclassified	3019
s__unclassified	3021
s__unclassified	3050
s__unclassified	3075
s__unclassified	3076
s__unclassified	3090
s__unclassified	3092
s__unclassified	3103

NR_025531.1 gg_id:561741 Psychrobacter fozii str. NF23; LMG 21280 NR_02
AF005192.1 gg_id:8298 Psychrobacter phenylpyruvicus str. 752/52 AF005
AM111050.1 gg_id:140908 Psychrobacter sp. str. 7195 AM111
NR_027204.1 gg_id:566452 Psychrobacter arenosus str. R7; KMM 3659 NR_02
EU434405.1 gg_id:263288 Psychrobacter maritimus str. a336 EU434
GQ093417.1 gg_id:420929 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ093
EF101546.1 gg_id:181752 Psychrobacter aquimaris str. KOPRI24928 EF1015
AM111057.1 gg_id:140806 Psychrobacter sp. str. 7319 AM111
AY722804.1 gg_id:103680 Psychrobacter aquimaris str. SW-210 AY7228
AY864643.1 gg_id:110044 Psychrobacter sp. str. DVS7b AY8646
AY198113.1 gg_id:80503 Psychrobacter sp. HLA AY198
AY513645.1 gg_id:103196 Psychrobacter alimentarius str. JG-100 AY5136
NR_027225.1 gg_id:543076 Psychrobacter maritimus str. Pi2-20; KMM 3646 NR_02
AY167286.1 gg_id:81385 Psychrobacter sp. str. ANT9153 AY167
AJ272303.1 gg_id:71508 Psychrobacter proteolyticus str. 116 AJ2723
AY771724.1 gg_id:143446 Psychrobacter glacincola S3-14 AY771
EU845549.1 gg_id:332859 metagenomics random sampling pyrosequencing rumen fluid fiber adherent microbi EU845
AJ309942.1 gg_id:51114 Psychrobacter immobilis str. DSM 7229T AJ3099
EU075123.1 gg_id:242630 Psychrobacter sp. str. En40 EU075
AM269904.1 gg_id:160677 Psychrobacter sp. str. ES-10 AM269
EU434395.1 gg_id:273089 Psychrobacter maritimus str. a325 EU4343
AY444822.1 gg_id:137201 Psychrobacter arcticum str. 273-4 AY4448
EU370412.1 gg_id:266113 Psychrobacter faecalis str. 88Z1 EU370
AY864649.1 gg_id:110450 Psychrobacter sp. str. DVS6c AY8646
EU434433.1 gg_id:275103 Psychrobacter pulmonis str. a195 EU4344
FJ900925.1 gg_id:552614 Polymorphism microbial reservoirs water cut stage oil field clone L-48 FJ9009
EU845208.1 gg_id:323141 metagenomics random sampling pyrosequencing rumen fluid fiber adherent microbi EU845
AM237354.1 gg_id:154195 Psychrobacter faecalis OS-38 AM237
EU434386.1 gg_id:271742 Psychrobacter maritimus str. a281 EU4343
AJ609556.1 gg_id:100627 Psychrobacter frigidicola str. DSM 12411 AJ6095
EU834258.1 gg_id:312816 Psychrobacter frigidicola str. DS35 EU834
DQ337513.1 gg_id:147051 Psychrobacter psychrophilus BBDP29 DQ337
U85878.1 gg_id:8302 Psychrobacter glacincola str. IC018 U85878
U39399.1 gg_id:8253 Psychrobacter immobilis str. ATCC 43116 U39399
U85876.1 gg_id:8300 Psychrobacter glacincola str. IC084 U85876
FJ979856.1 gg_id:376137 Psychrobacter sp. str. tsz26 FJ9798
EU845706.1 gg_id:335347 metagenomics random sampling pyrosequencing rumen fluid fiber adherent microbi EU845
EF154276.1 gg_id:176716 Psychrobacter alimentarius str. 36 EF1542
AM111006.1 gg_id:140871 Psychrobacter sp. str. 3055 AM111
AF170743.1 gg_id:8257 Psychrobacter sp. str. QSSC5-4 AF1707
EU915471.1 gg_id:326012 Psychrobacter phenylpyruvicus str. 123 EU915

43.3	60.8	122.4	95.4	100.7	64.9	42.4	54.9	31.1	21.6	37.0
4116.8	1933.8	1936.7	2868.4	1841.0	1851.2	2542.5	2219.7	2587.3	3423.2	2473.6
2750.4	2300.4	2480.3	3126.2	2932.0	2881.7	2961.3	3071.4	2211.4	1267.8	912.1
623.2	3027.3	2558.5	2873.9	4278.5	2885.5	3356.9	3188.2	2180.2	3241.2	2206.8
2580.5	2601.4	2787.6	3272.9	3018.7	2869.9	3588.5	2695.8	2135.2	4029.7	1642.9
2376.5	3227.5	3475.1	4096.1	3727.0	4089.2	3433.3	4481.3	3848.0	3853.4	2275.0
64.2	65.7	90.9	113.0	145.5	146.8	102.0	161.1	61.8	56.3	39.4
559.0	474.3	571.3	657.7	591.2	623.3	541.8	572.2	716.7	743.4	702.7
59.1	194.3	121.3	64.1	75.9	205.7	50.2	199.8	61.0	46.6	54.7
44.7	348.5	409.4	178.2	373.6	295.6	356.0	439.0	126.4	350.1	115.4
4568.1	5392.4	5760.4	6100.3	6862.7	6482.8	6920.2	6466.5	7108.5	9958.0	5129.3
916.5	680.3	743.1	762.5	790.2	847.7	898.4	1087.7	443.6	1283.9	229.5
50.9	103.0	107.8	115.6	100.4	164.0	155.1	148.8	63.0	304.9	53.7
4526.2	2541.8	2699.7	3526.6	2297.8	2543.0	2318.6	2778.6	2715.1	4430.4	2734.7
20326.4	8118.5	7417.2	8652.5	8938.3	8301.9	7922.7	7289.8	9299.7	10667.6	13756.6
717.3	1289.0	1272.6	1070.9	1440.1	1204.1	1349.5	1418.7	563.4	799.6	768.9
71.5	384.3	503.7	740.9	618.8	479.3	716.9	762.0	246.0	1093.5	439.4
77.3	821.9	1188.3	1208.5	746.4	1305.5	645.7	2303.8	1019.4	453.7	932.7
3566.9	5583.5	5957.5	6467.4	6880.4	5937.3	6327.7	6406.6	5773.8	7453.5	5087.7
4052.6	4254.0	4411.9	4585.0	4258.5	4681.5	4375.3	5338.8	7027.1	6484.1	4991.4
2676.6	3747.5	4262.2	4841.6	5540.1	5208.4	6597.4	5226.3	4034.2	6080.5	3481.7
46.5	111.0	293.4	292.5	235.7	308.0	127.8	229.5	132.3	53.9	123.1
520.1	1083.3	1020.4	1095.9	1299.7	1170.9	1056.0	1055.4	1597.5	1358.0	937.5
5827.4	3618.1	4209.5	4446.2	2924.2	3716.5	3883.2	3688.6	7306.5	4212.0	5237.7
826.7	1732.9	1996.7	2437.3	1835.2	2323.0	2020.6	2734.3	1697.3	1091.2	686.6
28483.1	9024.9	8975.6	10546.8	9323.9	9827.5	9889.3	8571.4	11746.6	17345.9	10677.7
29090.3	8061.1	7727.3	10098.5	8685.5	7383.0	9341.3	8845.4	9818.4	7854.3	11942.4
435.6	1336.1	1454.0	1612.1	1858.0	1622.4	1454.7	1436.5	1467.6	1461.3	1118.8
2038.4	1902.5	2092.5	2424.7	1963.6	2413.9	1822.0	2002.0	1955.8	5080.8	986.5
52.0	179.8	194.3	213.1	176.1	251.8	231.2	260.1	115.1	282.1	82.0
850.9	855.8	867.1	1000.9	1048.6	1195.9	1093.3	1187.0	553.5	1669.4	706.2
560.4	5588.2	4177.9	1940.4	3489.3	4076.8	4860.2	3158.6	7356.2	5039.0	1986.1
42.7	517.5	841.6	718.8	843.1	767.0	450.7	748.7	263.6	94.2	399.5
63.1	420.1	418.4	446.1	510.2	410.1	614.6	521.8	209.0	736.1	249.8
54.6	319.0	335.5	265.9	293.0	429.2	240.1	523.5	172.1	97.2	119.1
3962.8	5626.8	4861.8	5752.4	4067.9	5794.7	4008.7	6115.8	3754.3	10568.1	4533.1
2588.4	3768.1	3851.8	4426.8	4271.4	3923.8	4893.9	4907.1	3542.2	4341.3	4858.5
12754.6	5571.8	5427.7	6080.6	5558.9	5555.4	6227.3	4968.3	7192.8	8349.9	7898.1
4568.1	6273.9	5453.9	6325.9	7181.4	6496.2	6752.6	6139.9	6073.1	7580.8	5313.0
3218.3	1450.9	1321.8	1564.6	1513.3	1389.2	1624.2	1914.8	1261.0	1417.5	803.8
4966.9	3858.7	3969.4	4906.3	3111.6	3448.7	3044.9	4006.3	4085.2	5361.1	3907.5

138.1	98.4	160.3
2109.9	1989.8	1676.8
2987.3	2506.1	2157.3
1567.3	3219.2	3258.0
3195.5	3092.0	2304.7
3575.3	4046.9	3282.1
220.1	157.0	112.1
542.4	1142.3	526.0
307.5	169.0	215.6
366.7	405.5	398.9
5627.1	7982.5	6434.3
1768.0	1812.1	881.8
280.3	328.4	230.9
2221.3	2629.7	2446.7
7692.1	9831.4	8041.8
1477.3	1501.4	1361.4
576.2	844.7	665.9
1269.1	1676.5	1171.1
6346.7	6942.4	5899.7
4724.0	4841.1	3517.7
4830.4	5692.2	4156.6
101.5	153.4	187.8
1422.8	1449.8	928.0
3768.2	2752.3	2533.2
2068.4	2239.5	1720.6
9356.5	10002.5	9336.6
7674.7	7893.9	6538.0
1771.5	1769.9	1404.3
2546.8	2990.8	1754.7
569.8	550.5	415.6
1627.8	1428.1	1234.4
4020.6	2388.1	2256.4
591.6	582.9	756.7
626.3	522.9	405.3
540.5	479.0	469.2
6168.2	6054.5	5362.8
3354.0	5416.3	4851.0
5624.0	6565.0	5382.1
5057.9	6857.0	5720.9
1601.1	2158.3	1393.3
3339.0	4028.7	2993.9

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Moraxellaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__Psychrobacter
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Azomonas
g__Azomonas
g__Azomonas
g__Azomonas
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azorhizophilus
g__Azotobacter

s__unclassified	3146
s__unclassified	3150
s__unclassified	3153
s__unclassified	3198
s__unclassified	3206
s__unclassified	3223
s__unclassified	3233
s__unclassified	3250
s__unclassified	3256
s__unclassified	3266
s__unclassified	3273
s__unclassified	3274
s__unclassified	2412
s__unclassified	2498
s__unclassified	2563
s__unclassified	2608
s__unclassified	2609
s__unclassified	2864
s__unclassified	3144
s__unclassified	3385
s__unclassified	3484
s__unclassified	3681
s__Azomonas insignis	292
s__Azomonas insignis	79
s__Azomonas macrocytogenes	175
s__unclassified	839
s__Azorhizophilus paspali	1616
s__Azorhizophilus paspali	207
s__Azorhizophilus paspali	2215
s__Azorhizophilus paspali	2296
s__unclassified	1187
s__unclassified	1552
s__unclassified	1596
s__unclassified	1830
s__unclassified	238
s__unclassified	4
s__unclassified	436
s__unclassified	575
s__unclassified	605
s__unclassified	98
s__Azotobacter beijerinckii	1323

EU434444.1 gg_id:277032 Psychrobacter maritimus str. a226 EU4344
AM111062.1 gg_id:140956 Psychrobacter sp. str. 7324 AM111
AY722805.1 gg_id:103825 Psychrobacter namhaensis str. SW-242 AY7228
AJ871434.2 gg_id:109701 Sphingomonas asaccharolytica CP173-2 AJ8714
EU434577.1 gg_id:265418 Psychrobacter pulmonis str. b105 EU4345
AJ430828.1 gg_id:75020 Psychrobacter luti str. NF11 AJ4308
AJ609555.1 gg_id:100472 Psychrobacter urativorans str. DSM 14009 AJ6095
EU844911.1 gg_id:309336 metagenomics random sampling pyrosequencing rumen fluid fiber adherent microbi EU8449
FN433003.1 gg_id:542035 Psychrobacter sp. str. a328 FN4330
DQ173002.2 gg_id:155732 Psychrobacter sp. str. TSBY-37 DQ173
U46144.1 gg_id:8297 Psychrobacter phenylpyruvicus str. ATCC 23333 U46144
AY771725.1 gg_id:142863 Psychrobacter alimentarius S3-15 AY7717
DQ156147.1 gg_id:220416 Moraxella boevrei str. ATCC 700022 DQ156
DQ337034.1 gg_id:146907 subsurface water clone EV818EB5CPSAJJ24 DQ337
GQ063996.1 gg_id:379925 Topographical and Temporal Human Skin Microbiome skin axillary vault clone nbw6 GQ063
GQ008884.1 gg_id:500783 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ008
AM231087.1 gg_id:155496 Moraxella sp. Vas1N8 AM231
GQ093299.1 gg_id:437819 Topographical and Temporal Human Skin Microbiome skin plantar heel clone nbw42 GQ093
X95304.1 gg_id:8267 Moraxella osloensis str. Ben 58 X95304
DQ264418.1 gg_id:143131 universal microarray broader than typical library when sampling subsurface groundw DQ264
DQ026510.1 gg_id:136755 Photorhabdus luminescens str. PDBC HIP1 DQ026
AY753196.2 gg_id:124309 Xenorhabdus nematophila str. PDBC SCX3 Indian AY7531
AB175658.1 gg_id:162524 Azomonas insignis str. ATCC 29361 AB1756
AB175659.1 gg_id:173619 Azomonas insignis str. NCIB 9963 AB1756
AB175654.1 gg_id:173614 Azomonas macrocytogenes str. IAM 15003 AB1756
AJ278108.1 gg_id:66199 Pseudomonas sp. str. KY AJ2781
FJ032011.1 gg_id:324228 Azotobacter vinelandii str. M FJ0320
AY336565.1 gg_id:91237 Azotobacter vinelandii str. DSM576 AY3365
EF100155.1 gg_id:217214 Azotobacter vinelandii str. ICMP 15215 EF1001
EF100148.1 gg_id:205415 Azorhizophilus paspali str. ICMP 7470 EF1001
AF302796.3 gg_id:38217 Pseudomonas indica AF3027
AAAU03000003.1 gg_id:133692 Azotobacter vinelandii str. AvOP AAAU0
EF620449.1 gg_id:243090 Azotobacter vinelandii str. ISSDS-430 EF6204
AB236162.1 gg_id:275455 Azotobacter tropicalis str. BKK.2 AB2361
AB175655.1 gg_id:168352 Azotobacter armeniacus str. DSM 2284 AB1756
EF620451.1 gg_id:257741 Azotobacter vinelandii str. ISSDS-435 EF6204
AB175656.1 gg_id:173793 Azotobacter salinestris str. ATCC 49674 AB1756
EF620446.1 gg_id:239704 Azotobacter vinelandii str. ISSDS-426 EF6204
EF620447.1 gg_id:256056 Azotobacter vinelandii str. ISSDS-428 EF6204
EF620443.1 gg_id:238882 Azotobacter vinelandii str. ISSDS-423 EF6204
EF100152.1 gg_id:205128 Azotobacter beijerinckii str. ICMP 8673 EF1001

463.6	234.8	240.7	240.7	290.7	350.2	340.0	333.7	189.6	470.3	56.2
841.4	1406.2	1402.3	1301.1	1153.3	1448.7	1236.2	1639.2	1262.3	2570.0	1647.1
198.8	730.8	767.4	942.2	996.8	749.4	853.5	957.1	856.4	1062.6	710.9
1880.1	3297.5	3596.6	4166.7	4680.7	3288.5	4447.3	4028.2	3072.6	3320.6	3839.6
1644.6	3526.5	3646.3	4270.4	4400.7	4086.4	3891.6	3909.1	3293.4	3707.7	2189.4
58.6	79.8	89.7	84.4	114.7	167.1	74.6	232.3	116.5	222.0	52.5
158.4	215.1	262.7	257.0	170.6	528.5	166.4	355.2	393.8	166.1	85.4
70.8	419.4	381.5	352.1	386.1	572.9	912.4	525.2	442.5	447.5	150.8
5629.6	3568.3	4239.5	4192.9	4185.1	4374.2	4018.6	5622.2	4637.8	6344.5	3343.2
58.9	190.8	516.2	488.7	451.4	418.3	251.7	312.2	175.1	124.5	217.4
317.9	352.6	726.8	745.1	537.2	378.2	439.4	390.0	349.4	353.0	388.0
57.6	636.9	554.2	131.5	552.2	496.3	490.7	634.7	193.4	114.9	167.0
47.0	905.2	1123.7	912.8	792.0	891.9	958.2	1522.6	628.0	474.0	623.4
71.3	1051.7	1267.4	1089.8	1978.2	1795.9	1647.1	1242.2	815.9	4716.4	541.0
135.3	1590.4	1549.9	1293.0	1333.5	2211.7	1462.2	2390.8	1073.6	1312.8	1580.1
15416.0	6640.5	6743.1	6814.3	5488.2	6134.5	6139.7	6584.1	8129.3	8422.0	7905.5
88.4	503.5	647.8	404.4	1068.3	488.1	968.3	687.6	444.4	174.2	263.1
38725.2	12554.1	11686.5	12861.2	12655.2	11935.6	13520.3	11036.8	18526.5	16944.8	17888.2
884.5	2806.4	3283.8	2625.6	3743.2	2821.4	3470.8	3281.9	2040.7	4030.5	2086.5
40.6	62.3	145.4	160.5	65.6	560.9	45.0	212.9	213.8	6416.5	90.0
8034.4	3506.3	2866.3	4516.9	2789.3	5391.1	4373.5	3711.7	6415.4	12133.9	3949.8
71.2	3144.7	3676.5	4032.1	3970.1	6513.6	2194.6	4013.7	3851.6	13455.3	1845.2
987.3	2513.0	3106.8	3244.4	3229.1	6056.2	2468.0	3575.7	1463.9	6557.7	2122.9
4412.4	3349.3	3392.2	3486.3	2989.8	3807.8	2925.4	3375.0	3305.4	4297.2	3257.6
7189.9	8963.2	9152.3	11063.1	11312.7	10308.2	11039.7	10089.8	6739.6	9773.3	9946.0
4229.5	7115.0	7934.2	9200.0	7990.7	9482.0	6749.9	8009.1	5345.7	8646.5	8400.0
804.1	2672.7	2660.0	3283.6	3539.5	4408.3	2766.5	4778.6	1944.2	3877.6	3708.8
23821.7	8079.5	8024.5	8903.5	9086.6	9091.5	8845.6	9211.6	9662.5	9688.1	11030.3
1113.8	3328.8	3285.8	4260.8	3956.3	5261.2	3186.9	6495.0	2319.1	4707.1	5199.4
5883.4	3896.6	3420.8	4248.8	3515.0	4113.0	3938.6	3651.9	2284.0	1603.9	4127.8
60.5	1459.0	2002.1	2092.8	2239.7	3048.1	1610.6	2510.5	441.2	1580.8	916.4
630.1	2593.7	2491.0	3123.6	3274.0	3949.6	2373.3	4887.6	1858.1	3116.1	3963.5
8274.7	7330.8	6584.7	7130.3	6629.8	7074.9	6341.8	6988.4	7317.4	6210.2	7524.9
54.7	1399.6	741.9	691.0	1252.7	1481.6	816.1	1561.5	313.0	589.8	545.1
6342.8	3827.9	3868.7	4367.2	5174.3	3463.6	5321.4	4762.9	3098.6	2189.1	3550.8
607.4	2438.3	2370.8	2854.0	3223.4	3899.2	2370.6	4585.5	1667.8	3308.4	3515.2
1485.1	3639.0	3538.2	4046.1	4672.6	3800.8	4548.0	4784.0	2586.3	2385.7	4661.5
7484.0	7155.2	7574.5	7494.9	7632.8	6728.1	7549.1	7385.6	8818.0	8036.6	8115.2
4766.7	5883.0	6000.6	6850.3	6900.3	7221.6	5910.8	9122.0	5188.5	6905.6	8438.4
1016.1	3393.4	3444.4	4182.1	4333.2	4692.6	3641.6	5559.3	2432.6	3923.8	4268.7
491.7	2465.0	2766.8	3086.5	2691.8	3495.9	2175.3	4237.7	1855.2	2638.2	2228.1

467.2	816.7	424.6
1564.4	1829.9	1122.0
685.1	817.7	716.1
3704.1	4033.6	2988.8
3446.5	3748.9	3095.7
145.8	149.0	134.6
771.9	172.4	89.2
970.6	520.9	443.9
5109.8	5271.9	3654.5
301.2	441.3	289.9
445.2	666.7	431.6
960.5	603.4	659.4
1260.8	1605.1	1227.3
2319.1	1351.6	515.7
2648.3	2338.9	811.7
5741.1	7457.3	4928.1
678.7	755.8	307.5
11102.8	12840.1	11866.0
4206.1	2802.0	1988.9
383.7	146.8	248.8
5123.4	5342.0	3409.2
6388.6	5689.1	2636.4
5250.0	3306.2	2520.9
4751.9	4857.6	3191.7
10260.2	9040.1	9555.4
9000.3	8205.8	7487.8
4213.3	3531.6	1837.8
9335.4	9162.3	7091.5
5485.0	3830.3	1881.2
3865.1	3247.4	2768.2
3882.2	1571.6	1087.4
3871.3	3166.7	1621.0
6453.8	7513.7	6617.5
787.1	849.9	1213.6
4369.4	4186.1	3680.5
3583.5	3252.3	1537.7
4406.3	3814.4	3411.9
8454.4	8522.0	6297.7
8386.0	6709.3	4502.9
5016.7	4261.2	2384.5
4582.5	3626.8	2065.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Azotobacter
g__Azotobacter
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	2164
s__unclassified	309
s__Pseudomonas alcaligenes	3426
s__Pseudomonas alcaligenes	3780
s__Pseudomonas alcaligenes	3792
s__Pseudomonas alcaligenes	3829
s__Pseudomonas alcaligenes	3855
s__Pseudomonas alcaligenes	3918
s__Pseudomonas alcaligenes	4059
s__Pseudomonas alcaligenes	4086
s__Pseudomonas anguilliseptica	1013
s__Pseudomonas anguilliseptica	1710
s__Pseudomonas balearica	534
s__Pseudomonas balearica	863
s__Pseudomonas balearica	965
s__Pseudomonas borbori	1179
s__Pseudomonas borbori	986
s__Pseudomonas cedrina	590
s__Pseudomonas chlororaphis	1017
s__Pseudomonas chlororaphis	1173
s__Pseudomonas chlororaphis	1268
s__Pseudomonas chlororaphis	1361
s__Pseudomonas chlororaphis	1529
s__Pseudomonas chlororaphis	162
s__Pseudomonas chlororaphis	1672
s__Pseudomonas chlororaphis	1740
s__Pseudomonas chlororaphis	1770
s__Pseudomonas chlororaphis	2050
s__Pseudomonas chlororaphis	257
s__Pseudomonas chlororaphis	341
s__Pseudomonas chlororaphis	499
s__Pseudomonas chlororaphis	55
s__Pseudomonas chlororaphis	636
s__Pseudomonas chlororaphis	703
s__Pseudomonas chlororaphis	774
s__Pseudomonas chlororaphis	877
s__Pseudomonas chlororaphis	945
s__Pseudomonas chlororaphis	987
s__Pseudomonas citronellolis	3320
s__Pseudomonas citronellolis	3389
s__Pseudomonas citronellolis	3514

EF620427.1 gg_id:246730 Azotobacter beijerinckii str. ISSDS-347
AB429526.1 gg_id:333725 Azotobacter beijerinckii str. C4
GQ388971.1 gg_id:543932 quality deterioration drinking system during serious red water outbreak clone J20
FJ544363.1 gg_id:434412 Pseudomonas alcaligenes str. st5-2
GQ389014.1 gg_id:510529 quality deterioration drinking system during serious red water outbreak clone J62
FJ793191.1 gg_id:520731 Archaea and Hot Spring Thailand Tao Dam hot spring clone TDB96
AY835998.1 gg_id:110273 Pseudomonas alcaligenes M4-7
EF199996.1 gg_id:175542 Pseudomonas alcaligenes str. DIP1
AY651923.1 gg_id:105788 Pseudomonas alcaligenes str. S3
FJ455454.1 gg_id:570727 Pseudomonas alcaligenes str. PNP-Y3
X99540.1 gg_id:8425 Pseudomonas anguilliseptica str. NCIMB 1949
AB021376.1 gg_id:8523 Pseudomonas anguilliseptica str. NCMB 1949T
EU741649.1 gg_id:311673 Pseudomonas sp. str. BQNR
GU339285.1 gg_id:536659 Pseudomonas balearica str. EH58
GQ480478.1 gg_id:577261 Pseudomonas stutzeri str. MR-5
AJ786789.1 gg_id:108066 Pseudomonas sp. R-20946
AJ786814.1 gg_id:108090 Pseudomonas sp. R-23040
NR_024912.1 gg_id:534702 Pseudomonas cedrina str. CFML 96-198; CIP 105541
AJ550465.1 gg_id:83510 Pseudomonas chlororaphis
AF094723.1 gg_id:53538 Pseudomonas chlororaphis str. ATCC 9446
AF094722.1 gg_id:69974 Pseudomonas chlororaphis str. ATCC 13985
AY839234.1 gg_id:110012 Pseudomonas aurantiaca str. YC4963
GU186113.1 gg_id:585304 Pseudomonas chlororaphis str. IHB B 1352
DQ813320.1 gg_id:170289 Pseudomonas sp. str. IBUN C16
DQ813327.1 gg_id:162642 Pseudomonas sp. str. IBUN S1804
DQ813321.1 gg_id:165579 Pseudomonas sp. str. IBUN S1407
FJ426278.1 gg_id:360625 Pseudomonas chlororaphis str. CB254
DQ525599.1 gg_id:160516 Pseudomonas chlororaphis str. S3f-36
EU158316.1 gg_id:239834 Pseudomonas sp. str. DK2
DQ682655.1 gg_id:164272 Pseudomonas aurantiaca str. NCIB 10068
AY216795.1 gg_id:81078 Pseudomonas chlororaphis 24_4
EF488969.1 gg_id:226426 Pseudomonas fluorescens str. PS7
FJ652607.1 gg_id:511076 Pseudomonas chlororaphis str. 30-84
FJ652609.1 gg_id:541680 Pseudomonas chlororaphis str. BS1393
DQ073039.1 gg_id:128103 Pseudomonas fluorescens str. PCL1606
EF528279.1 gg_id:222094 Pseudomonas fluorescens str. CICCHLJ Q59
AY509898.1 gg_id:103725 Pseudomonas chlororaphis str. DSM 6698
EF620458.1 gg_id:255132 Pseudomonas chlororaphis str. ISSDS-592
AF530070.1 gg_id:72643 Pseudomonas citronellolis str. TERIDB9
EU170480.1 gg_id:250888 Pseudomonas aeruginosa str. L-4
NR_026533.1 gg_id:560055 Pseudomonas citronellolis str. DSM 50332

EF6204
AB4295
GQ388
FJ5443
GQ389
FJ7931
AY8359
EF1999
AY6519
FJ4554
X99540
AB0213
EU7416
GU339
GQ480
AJ7867
AJ7868
NR_024
AJ5504
AF0947
AF0947
AY8392
GU186
DQ813
DQ813
DQ813
FJ4262
DQ525
EU1583
DQ682
AY2167
EF4889
FJ6526
FJ6526
DQ073
EF5282
AY5098
EF6204
AF5300
EU1704
NR_026

93.9	2666.1	2186.5	2466.4	2198.2	3397.6	1681.9	3897.6	1064.2	2373.6	1951.2
11721.9	6050.0	5820.9	6430.2	5637.1	7230.9	6048.8	7717.2	5756.8	8308.4	7215.0
9559.3	3341.7	3184.7	3188.3	3426.2	2828.8	3022.4	3240.6	3893.5	3673.3	3821.2
2608.2	3747.8	4583.0	4762.5	4071.5	6230.5	4224.5	5064.5	3934.7	5738.5	3704.9
106.8	302.1	276.7	292.3	248.3	358.6	255.2	509.2	255.7	531.2	341.8
44.3	1473.5	1608.4	1751.0	1490.8	1997.5	660.8	1362.7	713.8	819.3	810.1
5907.7	5097.6	5602.5	5938.6	5716.6	6579.8	5678.8	6726.8	6151.1	6002.4	5080.5
3464.1	4523.5	4706.3	5211.0	6064.6	5819.0	5716.6	5537.1	5929.7	7700.2	4417.5
6824.9	4662.4	4542.9	4529.5	6226.3	5751.6	5430.4	5069.7	4737.4	5463.1	4537.4
866.3	2670.6	3367.1	3585.3	3202.9	5001.9	3823.4	4794.0	2325.7	6031.5	2951.8
1956.9	5558.1	6533.4	7186.4	5766.7	7328.8	5759.7	8150.4	6409.2	8300.8	5636.2
1121.2	4476.6	4718.3	5322.2	5983.0	5346.8	4964.2	5712.1	3495.1	6005.9	6051.2
9579.2	4855.0	5276.5	5531.0	6574.9	5466.2	6097.9	5757.7	5971.0	7475.2	5692.2
143.3	1272.1	1231.3	1486.2	1361.4	1309.7	885.5	1834.3	1061.3	1372.8	683.2
2923.3	2919.4	3705.7	3730.5	2947.6	3282.6	3246.9	4016.4	2879.7	5286.6	3194.2
2228.4	4980.9	5245.7	5986.3	5396.4	7599.7	3256.8	7348.9	4085.2	7379.5	5498.4
1672.3	4030.1	4374.7	4809.5	5104.4	7602.1	3075.6	6519.3	4474.4	7838.9	4064.7
1128.1	3330.5	3827.8	4465.5	4285.7	6689.4	2447.5	4840.3	3558.9	7065.6	2837.5
862.6	5287.3	5742.1	5618.4	4501.0	6386.6	4195.9	6170.0	4962.8	7738.3	5763.3
1087.6	2681.7	3461.8	4391.5	4696.8	6252.1	2814.9	4018.5	2785.8	6171.4	2145.2
1493.6	3967.7	4716.0	5829.4	5713.5	7451.3	3702.4	5727.7	4373.3	7161.0	3994.0
933.3	2480.0	3223.7	3700.6	4078.5	5583.7	2069.6	4146.0	2525.5	5834.7	2020.8
1558.6	3186.6	3748.2	4235.5	4511.1	6175.2	2925.3	5759.4	3781.2	6411.5	3519.1
1548.8	3582.0	4712.4	5284.1	6283.9	8325.7	3300.1	5589.9	3616.8	8894.1	3484.4
18599.8	6854.3	6091.1	6840.5	6699.3	6980.1	6646.9	6337.6	8615.3	6778.3	9357.3
1256.3	2924.4	3802.6	4448.7	4932.3	6632.9	2720.1	4631.9	3094.2	6974.0	2788.2
674.6	2612.9	3525.9	4149.6	4844.9	6410.7	2428.4	3953.9	2993.9	6190.1	1797.4
2213.6	4767.2	5573.3	6830.6	6517.7	8197.6	4845.8	6358.6	5320.4	8330.3	5698.5
4024.3	3332.6	3810.3	4241.4	4639.9	5910.7	3653.7	4568.7	2863.9	7081.1	3354.0
1029.1	2413.5	3252.3	3863.3	4270.6	5856.7	2287.2	4119.8	2707.3	6110.8	2144.8
269.6	872.7	1273.3	1119.8	1415.1	1741.5	681.5	925.3	438.3	1530.4	439.9
1397.8	1971.7	2161.9	2233.4	2395.9	2984.2	1881.7	3563.5	2936.0	3879.1	3483.2
834.6	2263.3	2905.7	3541.3	3878.8	5107.7	2249.1	3245.7	2239.6	5127.9	1532.9
2339.6	4704.3	5259.9	6451.5	5969.9	7281.5	4884.2	6834.9	5434.8	7468.6	5781.3
2465.7	3700.6	4359.1	5214.4	5390.7	7314.0	3389.6	5227.6	3454.0	7639.0	3398.6
613.1	4714.2	4843.7	5162.0	4150.0	5616.0	4221.4	5558.1	3600.0	5455.2	4373.4
2835.9	5387.8	5825.5	6570.9	6134.1	7402.1	5262.0	8851.8	6380.7	7677.8	6976.7
1349.6	3252.8	3942.3	4969.2	4932.5	6886.9	2815.4	5327.2	3853.8	6951.1	3178.8
7525.9	3919.0	4697.0	5151.6	4900.1	5703.7	6479.6	5471.0	3963.2	8512.9	5058.4
224.1	2694.4	3661.0	3443.2	2873.0	4052.5	2573.6	5399.9	2963.9	2740.6	2947.3
327.5	2112.3	2712.9	2857.6	2567.1	2930.9	2767.8	3974.5	2007.6	2935.1	2070.6

4121.9	2293.0	1368.0
7723.9	7856.2	7589.2
3144.4	4264.8	2273.4
7672.6	5831.8	3723.6
658.9	523.0	217.3
3231.4	1383.0	793.7
7281.3	5714.0	5739.5
5773.6	5758.6	5417.8
5401.4	5503.0	5139.2
4532.9	4372.1	3342.1
8859.6	7328.3	5728.6
6138.0	5771.0	4705.3
5547.2	6968.8	5169.0
2650.5	1573.6	927.8
3185.7	5331.1	3144.6
8817.8	5952.2	4119.8
6610.0	4426.6	2356.1
6997.6	5087.7	3197.1
5526.3	5791.6	5306.3
5623.2	3807.3	2643.3
7151.6	5021.7	4700.0
5764.3	3438.4	2151.5
5984.6	3735.4	2888.7
7958.4	5512.8	3398.3
6339.9	6472.2	4564.1
6317.7	4113.0	2762.6
5822.8	3257.7	2224.7
7935.7	6246.5	5663.6
6330.0	5054.8	3780.7
5801.9	3661.4	2183.4
1373.7	1151.0	623.4
3430.2	2939.3	1453.2
4840.5	2884.7	1918.3
7701.7	5865.2	5411.1
6481.0	4626.5	3285.6
5985.3	5690.4	5097.5
8563.1	6824.5	7150.7
6660.5	4905.6	3926.5
6098.9	5638.2	4977.3
6443.4	3082.1	2843.4
4019.7	3008.3	2046.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__Pseudomonas citronellolis	3832
s__Pseudomonas citronellolis	4021
s__Pseudomonas citronellolis	4045
s__Pseudomonas cuatrocienegasensis	831
s__Pseudomonas entomophila	1256
s__Pseudomonas entomophila	170
s__Pseudomonas entomophila	2199
s__Pseudomonas fragi	1044
s__Pseudomonas fragi	1127
s__Pseudomonas fragi	1215
s__Pseudomonas fragi	1360
s__Pseudomonas fragi	1461
s__Pseudomonas fragi	1513
s__Pseudomonas fragi	1688
s__Pseudomonas fragi	1883
s__Pseudomonas fragi	2061
s__Pseudomonas fragi	550
s__Pseudomonas fragi	672
s__Pseudomonas fragi	683
s__Pseudomonas fragi	798
s__Pseudomonas fragi	899
s__Pseudomonas fragi	972
s__Pseudomonas fuscovaginae	1816
s__Pseudomonas koreensis	105
s__Pseudomonas koreensis	136
s__Pseudomonas koreensis	1386
s__Pseudomonas koreensis	813
s__Pseudomonas libanensis	1129
s__Pseudomonas libanensis	1238
s__Pseudomonas libanensis	1417
s__Pseudomonas libanensis	2192
s__Pseudomonas libanensis	2202
s__Pseudomonas libanensis	2214
s__Pseudomonas libanensis	37
s__Pseudomonas libanensis	618
s__Pseudomonas libanensis	641
s__Pseudomonas libanensis	649
s__Pseudomonas libanensis	692
s__Pseudomonas libanensis	807
s__Pseudomonas lutea	1989
s__Pseudomonas mandelii	1420

AY762360.1 gg_id:110795 Pseudomonas sp AY7623
AB021396.1 gg_id:8427 Pseudomonas citronellolis str. ATCC 13674T AB0213
EU834943.1 gg_id:327271 Pseudomonas aeruginosa str. ISTDF1 EU8349
FJ976049.1 gg_id:462557 Pseudomonas cuatrocienegasensis str. 6jan04 FJ9760
AY907566.1 gg_id:112473 Pseudomonas entomophila str. L48 AY9075
NC_008027.1 gg_id:160345 Pseudomonas entomophila str. L48 NC_008
NC_008027.1 gg_id:160342 Pseudomonas entomophila str. L48 NC_008
AY263480.1 gg_id:82986 Pseudomonas sp. WR7#2 AY2634
FJ894412.1 gg_id:557030 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8944
AJ288146.1 gg_id:73856 Pseudomonas sp. SK-1-3-1 AJ2881
AY450555.1 gg_id:108448 Pseudomonas putida M AY4505
FJ950690.1 gg_id:463744 Pseudomonas psychrophila str. d390 FJ9506
AB041885.1 gg_id:41050 Pseudomonas psychrophila str. E-3 AB0418
AY195842.1 gg_id:81514 Pseudomonas fragi str. SAPA2 AY1958
AM421976.1 gg_id:354955 Pseudomonas sp. str. NJ-24 AM421
AY581134.1 gg_id:102069 Pseudomonas lundensis b85 AY5811
AB204715.1 gg_id:138223 Pseudomonas fluorescens str. TM5-2 AB2047
GU220068.1 gg_id:591142 Pseudomonas fragi str. CS11RH4 GU220
AY342004.1 gg_id:92742 Pseudomonas sp. str. CA18 AY3420
AM409369.1 gg_id:183371 Pseudomonas sp. str. Nj-56 AM409
GQ375791.1 gg_id:580324 Pseudomonas putida str. DZQ8 GQ375
AY450556.1 gg_id:108450 Pseudomonas putida str. L AY4505
FJ151351.1 gg_id:338286 Pseudomonas fuscovaginae DAR 77797 FJ1513
EU730928.1 gg_id:354416 Pseudomonas fluorescens str. 166 EU7309
AF468451.1 gg_id:79193 Pseudomonas koreensis str. Ps 1-2 AF4684
FJ544330.1 gg_id:438282 Pseudomonas putida str. 813 FJ5443
FJ976084.1 gg_id:399673 Pseudomonas sp. str. 23jan04 FJ9760
EU434451.1 gg_id:274358 Pseudomonas libanensis str. a42 EU4344
DQ377751.1 gg_id:156328 Pseudomonas grimontii PD 10 DQ377
AY787208.1 gg_id:110848 Pseudomonas panacis str. CG20106 AY7872
DQ073449.1 gg_id:131423 Pseudomonas libanensis str. R7 DQ073
X86626.1 gg_id:8777 Pseudomonas sp str. GR-04 X86626
DQ071559.1 gg_id:134222 Pseudomonas libanensis str. R6 DQ071
AY071916.1 gg_id:49007 Pseudomonas marginalis str. BJW1 AY0719
DQ073450.1 gg_id:136233 Pseudomonas libanensis str. R8 DQ073
GU198125.1 gg_id:585243 Pseudomonas fluorescens str. LMG 14675 GU198
GU213303.1 gg_id:535039 Pseudomonas sp. str. 4-13 GU213
AM396910.1 gg_id:165902 Pseudomonas sp. Nj-3 str. NJ-3 AM396
AB021401.1 gg_id:8733 Pseudomonas marginalis str. ATCC 10844T AB0214
EU184082.1 gg_id:255345 Pseudomonas lutea str. PSB2 EU1840
EU048319.1 gg_id:253104 Pseudomonas fluorescens str. CMG3047 EU0483

985.3	3829.8	4084.6	4573.5	5688.7	5487.1	4423.0	5273.9	3177.5	6022.9	3073.5
4177.5	5688.5	6213.1	5870.8	5634.0	6725.4	4413.6	7885.6	5305.1	6707.5	6831.0
1151.4	3531.3	5927.3	3459.5	2688.0	4036.9	2656.3	4850.0	3497.2	2050.6	4844.9
180.4	2961.8	3432.3	2766.1	3476.6	4555.6	1611.0	2992.8	1036.5	2912.5	3835.2
873.9	4805.9	6031.3	6170.4	6323.5	8906.0	2705.1	6702.9	5376.7	10251.8	5392.0
2479.7	5725.2	6622.3	8311.6	5907.6	7275.7	5361.0	6173.7	10385.9	8212.1	6455.2
1701.3	5308.5	6215.3	6740.5	6646.2	8937.4	4013.7	6735.6	6181.0	10657.3	5813.9
2079.2	3695.7	4027.7	3627.7	4046.3	4640.6	4054.0	5228.1	3461.9	7612.5	4775.0
2056.3	1512.9	1760.9	1934.4	1921.4	2293.3	1430.8	2441.6	1240.5	2824.1	1457.8
1718.6	2281.1	2608.4	2516.4	2551.8	2775.9	2442.5	3233.3	2226.9	3511.3	2527.1
550.5	1411.0	1601.3	1454.7	1488.8	2217.7	1114.2	2544.9	899.1	2979.6	1632.9
880.4	2904.5	4403.5	3592.7	3225.4	3707.2	3039.2	3106.0	4849.5	3714.6	2883.2
2466.5	2298.3	2934.1	2914.5	2854.0	3749.6	2674.2	3209.7	3060.7	4771.5	2842.7
1010.9	2232.2	2189.2	2077.6	2249.9	3315.6	1587.9	3525.1	1969.3	4223.1	2712.0
7222.8	2128.4	2302.6	2596.9	2654.9	2946.7	2332.1	2380.3	2836.6	1917.5	2454.7
4173.9	3250.6	3844.8	3933.3	3752.2	4749.7	3348.1	5454.7	4182.2	5136.7	4903.6
493.1	690.8	922.8	1001.2	827.3	1191.1	489.5	1425.6	493.6	1243.2	674.6
696.5	1294.2	1517.6	1764.0	1784.9	2479.5	976.1	2602.7	1229.4	2418.1	1456.6
1762.3	2594.3	3482.6	2846.8	2999.3	4286.9	2302.8	4170.7	2817.7	5666.0	3039.2
1091.1	2130.6	2503.5	2225.2	2291.8	3223.9	1704.9	3469.0	1791.7	3983.1	2378.3
386.6	1416.4	1792.9	1540.1	1839.5	2572.9	1169.0	2401.1	1150.2	3055.1	1554.7
999.7	2140.7	2465.3	2464.0	2680.8	3694.3	1848.6	3808.9	1893.5	4516.7	2434.6
687.4	3205.0	4425.7	4566.7	3280.2	6447.5	2301.6	6823.4	3984.0	5473.7	4210.0
2703.5	4230.9	5215.5	5295.1	5660.5	8223.3	3599.9	5907.9	3982.9	9346.6	4157.3
1514.4	3995.5	5198.4	5557.8	5602.0	8632.4	3370.2	5825.9	4344.7	9625.8	3779.8
8863.5	5763.0	6046.3	5815.5	6698.9	7878.7	4932.0	5785.8	4677.3	8579.7	5836.6
691.7	3022.2	3882.3	3947.7	3206.3	4637.8	2534.1	4893.1	3243.0	5664.2	2830.2
2622.9	4840.0	5239.0	5227.6	5770.1	7664.0	4443.5	7030.5	3501.9	8624.8	5480.4
1194.6	1437.1	1769.4	1943.3	2229.4	1576.8	1562.9	2270.9	1377.3	1851.2	1165.8
5114.6	4369.3	3979.9	4540.8	4210.9	4806.6	4395.8	4121.2	3676.4	4807.1	4757.2
9799.1	5829.2	6424.7	7215.4	7987.6	7696.9	6301.0	8689.1	4737.8	8507.8	6389.9
1228.0	1682.2	1981.7	2325.3	2828.8	3525.8	1779.2	2249.1	961.3	3156.0	1095.2
8722.6	4340.6	5081.9	5896.5	6305.2	5560.4	4671.4	6664.6	4251.2	5389.1	3967.2
809.6	2126.0	2542.6	3075.1	4286.2	2834.8	2556.8	2545.3	2525.1	2563.8	2010.8
9713.7	5163.8	5667.9	6423.7	7289.8	6903.7	5683.7	7571.4	3869.6	7515.8	5525.7
1336.8	1679.3	2119.1	2661.0	2455.9	2224.2	1627.7	3136.4	2264.6	2289.2	1799.5
2092.5	4612.0	4781.1	5167.0	5721.0	7969.3	4172.4	7006.8	4003.7	9644.1	5144.1
1068.6	1192.5	1397.8	1484.1	1803.6	1639.6	1320.1	2259.2	1207.4	1329.4	1262.1
743.4	907.7	1293.3	1468.8	1509.5	1640.1	910.9	1959.5	649.2	1868.4	1243.7
796.8	4024.2	4748.7	4779.3	4767.6	7030.9	2168.3	8122.4	3307.0	7841.3	5712.6
1729.3	2971.8	3722.7	3832.7	3925.9	4709.7	3243.5	4657.5	2480.5	5360.1	3329.3

8492.9	4417.1	4501.9
8246.6	7088.6	6224.1
5669.4	3909.7	2340.5
6144.9	3052.2	1563.0
8084.3	6177.1	5953.9
6325.7	8197.1	6948.2
8315.2	6735.4	5407.8
5306.7	4836.2	3354.9
4462.7	2736.4	1197.3
3328.1	2956.6	2551.5
3995.2	2483.8	1041.0
3876.4	5497.9	2678.6
4476.3	3690.5	2926.4
4716.7	2913.2	1581.0
4309.9	2912.4	2153.8
5243.0	4555.7	3069.4
2934.6	1640.6	521.1
4455.5	2427.8	1074.9
6055.7	3626.9	2108.0
5345.2	3144.3	1510.2
4217.0	2517.9	1019.4
5412.7	3406.1	1674.1
6607.6	5678.8	2345.0
8764.1	6221.5	3689.1
9452.1	5928.3	3232.7
8875.0	6715.6	5082.7
5609.5	3448.9	2234.9
8989.0	5645.0	4031.2
2858.5	1683.5	1112.4
3932.4	5538.8	4109.6
9518.6	7335.2	5601.7
4382.5	2233.3	1238.4
8039.9	5687.9	3822.5
3779.0	3727.6	2192.1
8900.8	6641.5	4836.7
3581.0	2222.2	1594.5
7878.4	4310.6	2650.0
2303.7	2023.8	1184.2
2254.2	1837.1	1581.7
9259.6	4843.4	4370.3
4902.2	3703.4	3120.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__Pseudomonas mandelii	1603
s__Pseudomonas mandelii	1731
s__Pseudomonas mandelii	1734
s__Pseudomonas mandelii	20
s__Pseudomonas mandelii	239
s__Pseudomonas mandelii	332
s__Pseudomonas mandelii	483
s__Pseudomonas mandelii	835
s__Pseudomonas mandelii	930
s__Pseudomonas mediterranea	1852
s__Pseudomonas mediterranea	2085
s__Pseudomonas mendocina	3303
s__Pseudomonas mendocina	3328
s__Pseudomonas mendocina	3332
s__Pseudomonas mendocina	3354
s__Pseudomonas mendocina	3356
s__Pseudomonas mendocina	3391
s__Pseudomonas mendocina	3459
s__Pseudomonas mendocina	3506
s__Pseudomonas mendocina	3533
s__Pseudomonas mendocina	3544
s__Pseudomonas mendocina	3556
s__Pseudomonas mendocina	3584
s__Pseudomonas mendocina	3615
s__Pseudomonas mendocina	3686
s__Pseudomonas mendocina	3689
s__Pseudomonas mendocina	3716
s__Pseudomonas mendocina	3722
s__Pseudomonas mendocina	3821
s__Pseudomonas mendocina	3847
s__Pseudomonas mendocina	3856
s__Pseudomonas mendocina	3867
s__Pseudomonas mendocina	3875
s__Pseudomonas mendocina	3882
s__Pseudomonas mendocina	3888
s__Pseudomonas mendocina	3906
s__Pseudomonas mendocina	3925
s__Pseudomonas mendocina	4098
s__Pseudomonas mosselii	104
s__Pseudomonas mosselii	1264
s__Pseudomonas mosselii	1301

AY303330.1 gg_id:129363 Pseudomonas sp. str. ps9-30 AY3033
DQ158873.1 gg_id:138914 Pseudomonas chlororphis str. GP72 DQ158
EU434578.1 gg_id:264249 Pseudomonas fluorescens str. b101 EU4345
AM933501.1 gg_id:321988 Pseudomonas mandelii FB8 AM933
EU111739.2 gg_id:547460 Pseudomonas migulae str. CT28 EU111
GQ144359.1 gg_id:467896 Pseudomonas fluorescens str. JW-SX2 GQ144
EU111733.2 gg_id:535392 Pseudomonas migulae str. CT22 EU111
DQ298151.1 gg_id:144530 -dependent and microbial assemblages silkworm midgut clone swm35 DQ298
FJ665222.1 gg_id:561243 Study Prokarytic Selected Niches Western Ghats India ground swab mangrove forest FJ6652
AF386081.1 gg_id:58546 Pseudomonas mediterranea str. CFBP 5488 AF3860
AF386080.1 gg_id:58547 Pseudomonas mediterranea str. CFBP 5447 AF3860
NC_009439.1 gg_id:223278 Pseudomonas mendocina str. ymp NC_009
FJ472860.1 gg_id:545756 Pseudomonas pseudoalcaligenes str. JM8 FJ4728
FJ594992.1 gg_id:569922 Pseudomonas sp. str. CL-1 FJ5949
AF094734.1 gg_id:99890 Pseudomonas mendocina str. ATCC 25411 AF0947
GQ280045.1 gg_id:510044 Pseudomonas mendocina str. BJ-35 GQ280
EF151236.1 gg_id:247968 Pseudomonas sp. str. MAG-camb EF1512
EF608169.1 gg_id:540724 Pseudomonas pseudoalcaligenes str. HT16 EF6081
GQ094146.1 gg_id:397132 Topographical and Temporal Human Skin Microbiome skin alar crease clone nbw370 GQ094
GQ110671.1 gg_id:451048 Topographical and Temporal Human Skin Microbiome skin toe web space clone nbw GQ110
FJ544383.1 gg_id:459179 Pseudomonas pseudoalcaligenes str. sw05 FJ5443
NC_009439.1 gg_id:223275 Pseudomonas mendocina str. ymp NC_009
EU863612.1 gg_id:309046 Pseudomonas mendocina str. Lyso H EU8636
EU937753.1 gg_id:311713 Pseudomonas sp. str. JG 10 Iti 8 EU9377
AY880303.1 gg_id:112002 Pseudomonas pseudoalcaligenes str. M5-4 AY8803
EU927412.1 gg_id:319271 Pseudomonas mendocina str. 8-40B28 EU9274
FJ544382.1 gg_id:395641 Pseudomonas pseudoalcaligenes str. sw04 FJ5443
EF175873.1 gg_id:181966 Pseudomonas sp. str. FSB EF1758
GQ015236.1 gg_id:494428 Topographical and Temporal Human Skin Microbiome skin palm clone nbw766a09c1 GQ015
AB231158.1 gg_id:145761 Pseudomonas pseudoalcaligenes HS-047 AB2311
GQ008972.1 gg_id:500693 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ008
AJ007005.1 gg_id:8544 Pseudomonas sp. LT1 AJ0070
FJ418771.1 gg_id:367496 Pseudomonas pseudoalcaligenes str. 5 FJ4187
FJ426615.1 gg_id:367244 Pseudomonas mendocina str. DS04-T FJ4266
EU841538.1 gg_id:303688 Pseudomonas mendocina str. 236 EU8415
AF326375.1 gg_id:34621 Pseudomonas sp. str. GP11 AF3263
AJ006109.1 gg_id:8516 Pseudomonas mendocina str. ATCC 25413 AJ0061
DQ837704.1 gg_id:169290 Pseudomonas pseudoalcaligenes str. B50 DQ837
AM184215.1 gg_id:159864 Pseudomonas mosselii str. WAB1873 AM184
AF072688.2 gg_id:8603 Pseudomonas mosselii str. CIP 105259 AF0726
AB361588.1 gg_id:267059 Pseudomonas putida str. 152 AB3615

1021.7	3837.4	4286.6	3655.8	3800.4	4970.1	2629.0	5894.8	3480.4	6490.5	4236.1
5047.7	5267.9	5659.7	5530.1	5171.7	5748.6	4895.4	5606.1	5862.2	5865.3	6659.7
6446.5	7032.3	7543.1	8006.9	8179.9	8817.5	7744.5	9080.4	6366.1	11421.5	7943.6
6089.7	6263.3	6860.8	7589.8	8472.6	8191.7	6779.6	8237.8	6095.4	9041.3	6578.0
6281.1	6726.9	7761.9	8200.3	8649.5	9076.2	7780.3	9081.7	7131.5	10986.0	6845.0
2480.0	4132.7	4558.3	4694.7	4699.2	6444.1	4080.7	6667.8	3985.4	6690.5	4292.4
3017.5	6388.3	6765.5	7223.2	8621.2	9760.4	5539.8	8306.9	6890.5	10828.3	5652.8
735.1	1536.5	1884.1	1529.6	1349.8	2292.0	2422.4	1680.4	1464.8	2949.4	983.8
1513.4	2543.4	3645.0	3319.3	2814.6	4794.4	2233.0	4514.7	1851.0	5825.4	2917.6
388.0	826.4	1409.3	1070.5	858.9	1803.0	760.8	1695.3	450.9	2151.9	1054.0
5972.6	4057.2	4294.0	6503.9	6027.0	5035.9	5517.3	4964.1	4855.1	6459.6	4301.6
3858.2	3839.0	6707.3	3519.3	4946.5	5531.4	3029.2	5070.5	2270.4	6175.7	3829.2
126.5	2402.4	3249.1	2198.3	3541.9	4124.2	1055.0	3376.2	556.9	3291.4	2006.2
30429.4	11580.3	12161.7	12663.2	13294.6	12787.2	11763.9	12039.5	14728.3	16256.6	15313.6
428.8	2595.2	3717.3	2804.6	3703.8	3824.9	1316.9	3220.7	1938.0	2962.8	1341.3
195.9	2881.2	3469.7	3372.9	3844.4	4708.4	1250.4	5289.3	2269.7	2564.8	2571.8
801.5	3962.4	6240.8	5328.1	4518.1	7342.2	3422.8	6093.7	3909.9	5486.3	3195.7
1429.5	1922.5	2969.6	1254.1	2029.7	2738.6	848.5	3104.4	1145.6	2941.9	1715.1
462.2	2649.8	4425.9	3173.2	5190.0	5712.7	1852.6	2921.8	1662.7	6131.4	1586.0
11719.7	5158.5	6950.9	5025.3	6545.6	5728.6	3829.1	4264.0	3997.3	6222.4	5902.3
10535.1	6184.8	6087.4	6553.2	7337.6	7540.7	4136.8	5883.5	5126.0	8213.8	6758.5
360.7	955.6	972.3	1021.8	1246.5	2226.0	457.5	1957.2	517.4	2824.4	953.4
729.7	1237.6	1931.2	1031.3	1702.1	2379.9	1026.0	1939.7	426.7	2575.2	955.0
362.7	3889.8	4708.4	4559.5	5942.1	6953.2	1988.9	4454.4	1946.9	6033.9	3350.6
181.9	878.8	595.0	928.7	1252.2	1912.1	475.4	1132.0	468.7	2116.5	770.1
2292.2	2792.2	3808.4	2442.0	2464.4	3844.2	1359.0	5402.1	1187.6	3204.1	3799.7
7837.6	5491.9	4891.4	5024.5	6544.6	6558.1	3932.6	6357.1	4063.9	6843.7	6179.5
76.2	718.4	511.3	667.9	1709.3	1042.2	277.6	378.9	360.4	833.3	237.7
5544.4	4406.8	6059.0	4174.6	4326.5	5583.6	3502.7	5101.1	4718.5	6188.1	6640.9
270.4	245.8	400.0	340.4	454.6	367.2	464.0	338.1	217.6	219.2	199.1
605.4	3310.4	3012.0	3298.3	3712.5	5505.2	2747.4	4753.1	2619.4	5199.5	4351.6
624.1	2083.0	3911.7	2315.9	2442.9	4176.6	1443.0	5014.2	1684.1	3540.5	3073.9
96.7	1851.7	2403.8	2450.8	3050.7	3449.7	1143.1	2763.1	1576.6	1952.8	1172.9
7070.8	3899.1	5877.2	3728.2	4430.1	5681.7	3143.2	5689.4	2681.0	7537.8	4669.2
74.6	2496.9	3625.0	1946.2	2330.0	4143.5	1599.4	3309.6	1566.2	3598.1	1584.5
555.8	2865.8	4052.2	3279.0	3627.1	5280.1	1822.3	4288.5	1546.2	5353.9	2914.9
18513.6	12167.7	11555.0	12564.7	12902.1	13483.9	10307.9	10677.0	14029.2	13745.3	14934.5
570.5	4187.7	4047.2	4439.5	5963.1	6512.7	2064.6	5240.7	2279.5	5737.6	3745.2
3056.5	3590.4	4351.3	4984.5	4081.1	6521.1	2778.0	4768.8	4069.3	7392.5	4099.0
3867.7	6396.6	6267.7	7611.7	6260.8	8622.7	4680.7	8410.6	9861.8	11599.6	7327.0
2596.1	3874.4	4588.3	5292.8	4318.7	6871.3	2882.7	5514.0	4807.9	8978.0	4134.7

5253.5	4909.9	3000.1
5452.8	5861.4	5213.8
10019.8	8195.2	6679.8
9571.9	7399.6	5825.8
10613.9	8076.8	6242.9
6167.4	4624.3	3267.8
9855.7	5411.6	3938.4
2587.7	2727.0	2422.0
4351.9	4142.1	3963.1
2033.8	1834.7	1049.3
4890.3	5116.5	3960.6
5809.3	4331.6	4195.1
3809.7	2206.9	2232.7
12627.7	13026.6	11221.7
4594.1	2367.2	1554.3
5034.1	3924.5	1665.7
8250.4	4905.9	3575.4
2566.9	2284.9	1823.8
4989.9	3102.5	2530.3
5237.2	5591.8	4507.9
7218.1	6792.0	4695.9
1948.5	1760.8	766.6
2406.0	2104.9	1665.1
6909.0	3657.8	2284.9
2190.0	955.3	747.4
4287.2	3090.7	2282.7
6155.8	5312.0	4157.3
651.2	356.8	440.4
5141.7	6346.7	4335.5
366.3	343.0	399.8
4274.1	3894.6	2628.4
4115.4	3120.5	1373.9
3662.4	2216.2	905.7
5867.5	4675.1	4185.7
2378.5	1643.2	1058.4
5714.6	3324.8	2270.5
13487.6	10398.8	8398.6
6154.0	3366.1	1877.4
5503.8	4786.4	3579.8
7910.3	7820.8	6169.8
5944.6	5004.9	4035.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__Pseudomonas mosselii	1339
s__Pseudomonas mosselii	1509
s__Pseudomonas mosselii	2060
s__Pseudomonas mosselii	2130
s__Pseudomonas mosselii	603
s__Pseudomonas nitroreducens	3340
s__Pseudomonas nitroreducens	3361
s__Pseudomonas nitroreducens	3437
s__Pseudomonas nitroreducens	3476
s__Pseudomonas nitroreducens	3511
s__Pseudomonas nitroreducens	3566
s__Pseudomonas nitroreducens	3639
s__Pseudomonas nitroreducens	3642
s__Pseudomonas nitroreducens	3671
s__Pseudomonas nitroreducens	3691
s__Pseudomonas nitroreducens	3705
s__Pseudomonas nitroreducens	3728
s__Pseudomonas nitroreducens	3793
s__Pseudomonas nitroreducens	3859
s__Pseudomonas nitroreducens	3911
s__Pseudomonas nitroreducens	3946
s__Pseudomonas nitroreducens	3980
s__Pseudomonas nitroreducens	4092
s__Pseudomonas oleovorans	1100
s__Pseudomonas oleovorans	1475
s__Pseudomonas oleovorans	180
s__Pseudomonas oleovorans	2243
s__Pseudomonas oleovorans	506
s__Pseudomonas oryzihabitans	1031
s__Pseudomonas oryzihabitans	1464
s__Pseudomonas oryzihabitans	1612
s__Pseudomonas oryzihabitans	235
s__Pseudomonas oryzihabitans	855
s__Pseudomonas pachastrellae	4081
s__Pseudomonas rhizosphaerae	2125
s__Pseudomonas rhodesiae	1139
s__Pseudomonas rhodesiae	485
s__Pseudomonas rhodesiae	86
s__Pseudomonas savastanoi	1222
s__Pseudomonas savastanoi	1563
s__Pseudomonas savastanoi	1699

AF181576.1 gg_id:29593 Pseudomonas cf. monteilii 9
AY395006.2 gg_id:97328 Pseudomonas sp. NAB2
GU377179.1 gg_id:514413 Pseudomonas putida str. LW
AM911660.1 gg_id:243912 Pseudomonas sp. str. RW5S2
EF178445.1 gg_id:199399 Pseudomonas mosselii str. 2R12
DQ803377.1 gg_id:180892 human fecal clone RL311_aam24h03
AM088473.1 gg_id:142760 Pseudomonas nitroreducens str. IAM 1439
FJ223883.1 gg_id:340099 Pseudomonas stutzeri 3
DQ803314.1 gg_id:188486 human fecal clone RL311_aam23h05
DQ803374.1 gg_id:195179 human fecal clone RL311_aam24g10
DQ803144.1 gg_id:189837 human fecal clone RL311_aam21b01
DQ834357.1 gg_id:165919 Pseudomonas sp. str. FLL9
DQ803243.1 gg_id:194461 human fecal clone RL311_aam22g07
DQ119331.1 gg_id:202772 Pseudomonas nitroreducens str. F16
DQ803331.1 gg_id:187182 human fecal clone RL311_aam24b05
DQ300314.1 gg_id:141244 Pseudomonas sp. str. L19
DQ286428.1 gg_id:144519 Pseudomonas sp. str. L51
DQ803292.1 gg_id:191096 human fecal clone RL311_aam23e10
EU814518.1 gg_id:309860 Pseudomonas sp. str. th16
EU869277.1 gg_id:340362 Pseudomonas sp. str. CR5
DQ803289.1 gg_id:199210 human fecal clone RL311_aam23e07
DQ803345.1 gg_id:182145 human fecal clone RL311_aam24c10
EU874610.1 gg_id:320306 Pseudomonas sp. str. PYD-2
AJ575816.1 gg_id:90761 Pseudomonas psychrotolerans str. C36
FJ217181.1 gg_id:575069 Pseudomonas oryzihabitans str. BBAL-03d
EU047553.1 gg_id:236258 Pseudomonas oleovorans str. TMPSB5
EF028693.1 gg_id:189438 Pseudomonas sp. str. BCL-53
AY623816.1 gg_id:159881 Pseudomonas oleovorans
EU977740.1 gg_id:544679 Pseudomonas oryzihabitans str. 1P03PC
EU977588.1 gg_id:569674 Pseudomonas plecoglossicida str. 1P03MC
AB248284.1 gg_id:150864 Pseudomonas fulva str. 10 (= KMM 3881)
EU977738.1 gg_id:569323 Pseudomonas oryzihabitans str. 1P03PA
EU977587.1 gg_id:553834 Pseudomonas oryzihabitans str. 1P03MB
AB125366.1 gg_id:100555 Pseudomonas pachastrellae str. KMM 330
AY152673.1 gg_id:78571 Pseudomonas rhizosphaerae str. IH5
DQ313384.1 gg_id:193809 Pseudomonas rhodesiae str. PCL1761
AJ830707.1 gg_id:101384 Pseudomonas rhodesiae KCM-R5
AY043360.1 gg_id:66023 Pseudomonas rhodesiae str. KK1
NZ_ACHU02000262.1 gg_id:549099 Pseudomonas syringae pv. tabaci str. ATCC 11528
AM265390.1 gg_id:178656 Pseudomonas savastanoi pv. fraxini str. PVFiF1
NR_024707.1 gg_id:546957 Pseudomonas savastanoi str. ATCC 13522

AF1815
AY3950
GU377
AM911
EF1784
DQ803
AM088
FJ2238
DQ803
DQ803
DQ803
DQ834
DQ803
DQ119
DQ803
DQ300
DQ286
DQ803
EU8145
EU8692
DQ803
DQ803
EU8746
AJ5758
FJ2171
EU0475
EF0286
AY6238
EU9777
EU9775
AB2482
EU9777
EU9775
AB1253
AY1526
DQ313
AJ8307
AY0433
NZ_AC
AM265
NR_024

2864.3	4136.7	4992.3	6107.0	4492.1	6721.9	3252.6	6104.2	6238.6	8648.8	4691.0
38637.1	9343.0	9235.4	11570.0	11715.5	9515.9	10640.2	9797.0	11084.0	13403.2	12081.7
2571.8	3835.4	4558.1	5268.8	4109.6	6655.5	2689.3	4879.0	4404.3	8490.4	3905.0
403.5	1814.0	2215.3	1827.4	2049.2	2475.3	1827.6	3056.6	1670.2	3205.3	1714.5
205.0	2551.5	2599.1	3088.4	2970.3	4305.6	1555.2	3713.7	3079.1	5517.7	2255.4
8354.3	5960.2	5547.6	6035.3	5973.2	6237.2	7899.2	5998.2	6864.2	6730.6	8876.5
52.5	1168.0	1334.4	885.5	1556.6	1026.2	790.8	1715.4	527.1	385.7	1000.9
23748.1	8484.5	8112.9	9399.7	8997.9	10287.5	9854.9	8567.5	10482.7	12001.2	13259.1
1073.6	2634.2	2511.4	2863.8	3110.7	4076.6	2688.7	4741.4	2192.4	3933.2	3075.9
2976.0	2825.9	2916.1	4022.7	3652.2	4546.1	2696.0	5053.4	3862.3	7326.2	3932.7
466.3	2808.8	3247.3	3598.3	2945.9	4495.0	1788.0	6150.3	2709.3	3261.9	3727.7
3788.1	5853.1	6335.3	7153.9	6737.0	8002.4	7186.2	5974.8	7216.5	9306.8	6738.4
458.6	2220.0	1905.3	1957.8	2527.8	2193.4	3321.8	2740.7	1211.8	1928.5	1311.9
5257.7	5218.4	5692.2	6025.7	5334.8	7007.6	4724.7	7854.0	6315.9	7287.5	6251.8
1704.6	3856.6	3869.6	4181.6	4323.8	5723.6	2890.1	5768.1	3809.3	6475.9	4835.7
10773.5	7414.3	6936.3	8068.2	8107.7	7950.0	8409.0	7066.6	5988.9	12369.7	7732.9
4055.9	8752.5	9013.9	8930.8	8872.1	10187.2	7819.7	10531.6	9934.0	11874.4	11174.3
375.5	2928.6	4679.6	3364.0	3787.3	3703.0	2840.6	4434.9	2452.2	2568.3	3863.4
554.9	3956.3	4186.3	3951.8	4786.5	5506.3	3594.7	4645.8	2157.1	6067.6	2382.4
1710.0	4985.8	5294.5	5647.1	6054.3	6395.6	6070.8	5940.7	4475.1	7297.3	4184.0
643.1	2143.3	2169.8	2417.6	2531.7	3874.4	2524.7	4474.5	1282.7	3024.5	2877.1
743.9	3756.4	4095.6	4702.8	4879.4	6743.8	2824.1	6225.4	3258.7	7874.0	4156.0
1336.7	4604.7	5174.3	5397.5	3612.1	5947.5	3671.7	6437.0	6059.5	6213.9	8009.3
296.6	2285.4	2589.6	3020.4	1889.9	3305.2	1494.1	3742.6	1544.2	3598.2	2172.9
559.8	2592.0	3022.4	3522.2	2133.3	3640.4	1959.7	3587.9	2123.5	3903.4	2640.4
1384.3	2084.5	2464.5	2652.8	2203.6	2289.1	2056.5	1952.7	2003.4	3122.2	2179.5
847.6	3193.1	3551.4	3797.6	2644.3	4364.4	2562.0	5725.5	2809.7	3802.5	3585.5
339.8	1280.3	1890.8	1944.5	1145.7	2416.7	714.1	1909.1	580.2	3136.5	1520.3
2360.4	4319.0	4772.5	5110.3	5385.3	8187.6	4814.5	7077.4	5294.5	8093.5	5515.0
934.2	3281.2	3809.8	3802.6	4335.4	7064.6	4013.3	5782.8	3743.4	7447.3	4098.2
1193.7	3985.5	4665.5	4751.9	5973.2	9739.8	3243.9	6241.5	2592.3	10470.4	4065.7
2183.4	3810.0	4298.4	4225.6	5052.7	8017.9	4466.0	6400.7	3995.8	8198.2	4561.4
2357.4	3870.5	4289.3	4180.0	4900.2	7759.3	4410.8	6616.8	4012.4	8050.7	4763.7
909.0	3502.6	3712.1	4116.4	3238.9	5125.4	2886.6	3447.2	4328.2	7858.2	3847.5
4831.0	8517.3	9886.2	10524.7	9248.3	8663.5	9367.6	10120.6	7339.8	8178.6	9920.9
4328.3	3350.7	3758.7	4114.9	4790.5	3573.2	3371.7	3793.3	3366.9	3878.1	3546.6
825.5	3069.3	3477.0	4778.4	4959.5	3734.5	3623.6	4894.3	3667.9	3052.1	2651.6
1837.3	4684.5	5433.7	6119.8	6040.9	6525.4	5092.8	8009.6	5962.9	5727.2	4995.7
1920.6	3350.8	4186.9	4220.2	3914.6	6391.1	2549.7	6197.3	3650.1	6385.2	5042.5
3460.1	4267.5	4975.3	5301.4	5156.3	7565.8	3707.0	6829.6	4266.9	8259.7	5590.3
3265.6	4676.6	5434.7	6034.9	6077.0	8756.6	4062.8	7309.3	4873.8	9657.7	5850.8

6169.5	5176.7	3941.9
11250.1	11494.5	9344.1
5526.1	4927.8	3989.0
2725.9	2117.8	1201.1
3530.7	3970.0	2264.1
5608.7	5138.7	5008.7
925.9	745.7	1084.9
10217.7	9075.0	8937.1
3745.1	3751.1	2659.3
4453.3	3804.8	2044.0
6147.5	3369.7	1959.9
7683.3	7157.9	5745.7
2541.4	2726.6	2206.8
8328.4	6198.4	6143.6
6625.8	3946.8	2666.2
8727.8	7234.6	7073.5
10977.9	8515.5	7254.6
3526.7	4001.9	3071.9
4897.4	3165.3	2529.3
7376.9	5331.1	5634.0
3175.0	2713.6	3104.9
8061.9	5395.1	4176.9
6754.6	6477.3	4249.1
7383.6	3126.5	1747.0
7613.7	3675.3	2254.2
4340.0	3366.5	2000.3
6809.1	4382.5	2946.3
4561.1	2352.7	1193.1
7802.6	6612.6	4070.2
6656.4	5612.8	2996.8
9281.1	5804.3	4677.2
7243.3	6194.8	3700.8
7203.8	6266.7	3570.7
5112.5	5969.7	2358.4
10794.3	9003.1	7575.8
3764.6	4042.1	3586.1
4820.1	2807.9	1781.6
7826.4	5526.8	3552.4
6288.2	4518.7	2950.9
7567.3	5073.3	3943.5
8859.8	5829.3	4194.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__Pseudomonas savastanoi	1954
s__Pseudomonas savastanoi	2223
s__Pseudomonas savastanoi	2268
s__Pseudomonas savastanoi	757
s__Pseudomonas stutzeri	1010
s__Pseudomonas stutzeri	1090
s__Pseudomonas stutzeri	1162
s__Pseudomonas stutzeri	1311
s__Pseudomonas stutzeri	1350
s__Pseudomonas stutzeri	1368
s__Pseudomonas stutzeri	142
s__Pseudomonas stutzeri	1565
s__Pseudomonas stutzeri	1675
s__Pseudomonas stutzeri	1955
s__Pseudomonas stutzeri	2092
s__Pseudomonas stutzeri	2128
s__Pseudomonas stutzeri	2133
s__Pseudomonas stutzeri	2196
s__Pseudomonas stutzeri	2216
s__Pseudomonas stutzeri	2246
s__Pseudomonas stutzeri	2281
s__Pseudomonas stutzeri	301
s__Pseudomonas stutzeri	350
s__Pseudomonas stutzeri	389
s__Pseudomonas stutzeri	4029
s__Pseudomonas stutzeri	497
s__Pseudomonas stutzeri	57772
s__Pseudomonas stutzeri	670
s__Pseudomonas stutzeri	926
s__Pseudomonas stutzeri	939
s__Pseudomonas stutzeri	940
s__Pseudomonas syringae group genomosp. 3	1246
s__Pseudomonas syringae group genomosp. 3	1409
s__Pseudomonas syringae group genomosp. 3	2187
s__Pseudomonas syringae group genomosp. 3	322
s__Pseudomonas syringae group genomosp. 3	849
s__Pseudomonas syringae pv. coryli	1274
s__Pseudomonas syringae pv. coryli	1570
s__Pseudomonas syringae pv. coryli	265
s__Pseudomonas umsongensis	12
s__Pseudomonas umsongensis	1384

AB021382.1 gg_id:8658 Pseudomonas meliae str. MAFF 301463T AB0213
NZ_ACXT01000186.1 gg_id:523171 Pseudomonas syringae pv. aesculi str. 2250 NZ_AC
AM265391.1 gg_id:179161 Pseudomonas savastanoi pv. nerii str. ITM313 AM265
AY574914.1 gg_id:107034 Pseudomonas syringae str. RM29.1a AY5749
EF382724.1 gg_id:214723 Pseudomonas str. BSi20450 EF3827
AJ288148.1 gg_id:53166 Pseudomonas stutzeri Makran AJ2881
FJ671729.1 gg_id:526385 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6717
AY647159.1 gg_id:100165 Pseudomonas stutzeri str. ZWLR2-1; CCTCC (China Center Type Collection) M203096 AY6471
DQ289072.1 gg_id:144984 Pseudomonas stutzeri Fe10 DQ289
AM236243.1 gg_id:151390 Pseudomonas sp. AM10 AM236
FJ345693.1 gg_id:315478 Pseudomonas stutzeri str. LC2-8 FJ3456
AJ297767.1 gg_id:76785 Pseudomonas stutzeri HY-105 AJ2977
GQ260077.1 gg_id:510001 Pseudomonas stutzeri str. ICIRC103 GQ260
AM111052.1 gg_id:140930 Pseudomonas sp. str. 7197 AM111
AF152596.1 gg_id:8485 Pseudomonas stutzeri str. 18 AF1525
AJ312171.1 gg_id:60922 Pseudomonas stutzeri str. 24a50 AJ3121
AY486384.1 gg_id:105218 Pseudomonas stutzeri str. AU4823 AY4863
FJ974059.1 gg_id:431541 Pseudomonas stutzeri str. JMC01 FJ9740
CU915125.1 gg_id:448893 and dynamics adapted microbiota during degradation Tunisian zarzatine enriched se CU915
AM236237.1 gg_id:152595 Pseudomonas sp. AM4 AM236
AF284764.1 gg_id:41253 Pseudomonas stutzeri str. phen8 AF2847
AB176955.1 gg_id:104939 Pseudomonas stutzeri str. KMM 235 AB1769
GQ280051.1 gg_id:585761 Pseudomonas stutzeri str. BJ-41 GQ280
AM236234.1 gg_id:151046 Methylobacterium extorquens AM1 AM236
EU327995.1 gg_id:243015 Pseudomonas stutzeri str. DA-1 EU3279
EU771075.1 gg_id:338443 Pseudomonas stutzeri str. F22 EU7710
AM236235.1 gg_id:154066 Pseudomonas sp. AM2 AM236
AF237677.1 gg_id:38888 Pseudomonas stutzeri str. M14C AF2376
U58661.1 gg_id:8460 Pseudomonas stutzeri str. JM300 U5866
AM110955.1 gg_id:140946 Pseudomonas sp. str. 1014 AM110
AJ270452.1 gg_id:18824 Pseudomonas stutzeri str. 11C2 marine sediment Schillig AJ2704
AB001445.1 gg_id:50962 Pseudomonas syringae pv. morsprunorum str. MAFF 302280 pv. AB0014
AY574913.1 gg_id:106878 Pseudomonas syringae str. PNA29.1a AY5749
AB001441.1 gg_id:20629 Pseudomonas syringae pv. broussonetiae str. KOZ 8101 pv. AB0014
AB001449.1 gg_id:52123 Pseudomonas syringae pv. tagetis str. MAFF 302271 pv. AB0014
NC_004578.1 gg_id:82411 Pseudomonas syringae pv. tomato str. DC3000 NC_004
AJ889841.1 gg_id:113295 Pseudomonas syringae pv. coryli str. NCPPB 4273 AJ8898
AM399035.1 gg_id:171964 Pseudomonas syringae pv. coryli str. ISPaVe 598 AM399
AM399036.1 gg_id:163475 Pseudomonas pv. syringae str. NCPPB 3869 AM399
AF506040.1 gg_id:66299 Pseudomonas fluorescens LCSAOTU1 AF5060
AF068259.1 gg_id:8625 Pseudomonas jessenii str. CIP 105274 AF0682

2372.5	3868.3	4592.3	4562.6	4480.5	6475.0	3562.6	6105.2	4488.3	6930.9	4381.4
5244.1	6325.2	6869.2	7200.8	6693.8	8432.6	6423.1	7078.8	6437.1	9078.7	6314.6
21754.7	5114.2	5456.5	5599.0	6334.2	7671.2	5608.5	6267.8	6287.6	8352.2	6430.0
858.5	1881.9	2445.8	2146.4	2034.2	3654.2	1391.1	2019.6	1413.0	3664.6	1309.7
357.8	2882.6	3179.1	3258.1	2891.3	3686.3	2775.5	3665.0	4962.8	4075.0	2628.7
11427.2	3913.4	4233.1	4663.1	4559.1	5161.1	4243.2	5507.8	5377.5	6918.6	6250.4
1497.3	3555.3	5036.5	3824.8	5424.9	5041.9	4427.2	3986.2	3477.9	4296.3	3090.1
10721.2	6422.9	6183.3	7233.0	6341.4	6953.8	6673.4	7546.2	7960.7	7194.0	9471.4
1021.1	2303.1	2849.9	3013.2	3660.3	4092.0	2974.1	2902.5	1764.1	3739.4	2012.0
65.0	98.1	118.3	96.5	121.4	130.3	119.8	104.3	91.9	142.0	84.1
11264.9	6251.7	6693.5	6582.5	8008.4	7759.5	7234.1	7151.1	9499.4	9055.3	6874.6
5310.7	3729.0	4022.0	4320.6	3281.7	4593.1	3781.9	3994.5	4346.2	6255.7	4722.0
2868.3	3062.3	3389.0	3740.0	3881.8	4360.3	3144.2	5008.4	2808.6	3912.0	2814.4
145.0	188.7	232.0	227.2	228.3	345.0	192.0	246.8	118.0	456.8	135.0
21159.1	8734.8	8761.8	9435.5	9578.8	9143.5	10269.9	8264.0	12118.4	12102.9	12407.1
947.5	3297.3	4872.1	4550.1	4523.0	5325.1	4619.9	5961.8	3405.9	4400.6	5549.4
14691.8	8355.1	8821.3	9584.9	9522.3	8722.5	9158.1	9023.3	10800.9	11438.3	10843.0
921.5	1962.9	2592.5	2442.6	3011.0	3333.9	2095.1	2779.3	1373.5	2573.4	1695.1
5172.0	4715.2	5264.0	5227.7	5697.6	6260.8	5483.6	7166.3	5312.7	7057.1	5900.4
723.0	365.4	772.5	671.7	606.1	1056.0	583.5	1044.3	246.6	1098.8	1441.8
2540.1	5594.7	6519.7	7037.6	7223.3	8380.3	5196.0	7324.6	6318.8	9119.3	6803.1
504.0	4238.5	4369.8	4985.5	4999.2	6046.2	3871.6	7450.1	4036.8	6206.9	4904.6
320.0	1769.0	2552.7	2691.9	2323.0	3803.0	2716.5	3610.5	1090.8	4116.9	2249.2
970.4	1448.3	1725.9	1750.9	1707.9	2949.9	1200.1	2612.5	1335.2	2820.4	1502.2
1564.2	2425.3	2478.4	2978.2	2444.4	4578.3	1587.7	2650.0	1612.2	7956.7	1663.4
50.5	285.4	453.1	516.8	391.6	673.3	254.1	362.5	211.9	929.6	131.9
271.7	447.2	642.8	597.2	595.3	815.4	412.9	1126.1	471.3	900.2	754.8
777.9	2890.2	3241.3	3613.6	4035.8	5129.0	3231.9	3469.3	2494.0	4360.3	1180.5
4348.4	1694.8	1916.0	1911.8	1852.8	2024.4	1954.8	2096.1	2568.1	1852.1	2230.4
233.8	1071.9	1324.1	966.3	906.5	1514.7	641.7	2006.0	694.2	1379.4	1208.6
334.7	1867.1	2890.7	1898.2	2726.0	4074.6	1468.4	3246.3	1199.6	2744.0	1630.2
261.3	1768.9	2237.4	1975.9	2085.4	3392.1	1618.1	2384.6	1715.3	3038.9	1667.2
2458.5	3822.4	4800.8	4830.5	4539.0	7153.9	3250.3	6392.9	4190.7	7594.8	5472.4
2229.4	2690.7	3863.7	3194.5	2998.3	5038.6	2761.2	3544.9	2687.3	5112.0	2011.9
2322.6	3867.6	4848.4	4838.6	4705.6	7233.0	3305.1	6487.2	4252.9	7855.0	5194.4
1388.7	2912.1	3330.6	3349.8	3482.1	4713.6	2672.1	4157.7	2597.7	4433.9	3196.5
2274.4	3608.3	4360.9	4284.6	4232.1	6208.2	3353.5	5645.4	4138.7	6735.9	4129.1
3260.7	4447.7	5103.6	5445.5	5379.9	7631.8	4046.1	7584.6	4800.0	8457.4	5867.1
2818.1	3966.9	4809.0	4936.7	4928.3	7400.1	3513.2	7136.2	4493.9	8037.0	5443.5
651.2	1854.2	2144.3	2379.4	2353.6	3490.7	2181.5	3795.9	1701.0	3893.7	2814.3
2213.1	5885.8	6599.3	7318.2	6806.4	8256.8	6034.4	10064.1	7789.9	9260.0	7681.3

7059.7	4353.1	2862.0
9451.5	7217.5	6421.8
7116.3	6398.1	5891.1
2928.3	3513.9	1292.4
3034.6	4907.6	2049.9
5392.7	5050.5	3757.5
4737.1	4553.0	4881.3
7161.6	7336.8	6088.1
3740.1	3003.4	2704.0
121.2	183.1	86.1
7245.4	7841.1	6566.4
4941.6	4877.0	3870.0
5202.6	4538.9	2832.0
308.3	129.5	127.0
9528.8	10689.6	8790.6
6040.1	4476.1	2816.0
9436.6	9651.2	8152.9
2785.4	3102.3	2954.9
7860.2	6251.6	4585.9
778.7	749.1	296.2
8409.9	7436.3	4533.9
6048.9	5105.1	3361.4
4441.3	2957.4	1607.2
2890.4	2627.8	1250.7
5676.4	3775.5	1813.8
944.7	515.5	278.3
859.4	853.1	387.2
5739.2	4579.4	3511.9
2205.9	3535.8	2746.5
1129.4	1164.5	968.8
3417.6	2220.2	1260.6
2998.5	2740.6	1654.6
7366.2	5202.2	3401.8
4762.9	3586.2	2514.7
7538.1	5378.4	3527.3
4671.7	3527.8	2421.5
6629.2	4172.6	2790.8
7907.3	5174.6	4066.5
7858.4	4800.2	2970.2
3519.8	3050.7	1884.5
9698.6	6977.4	5509.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__Pseudomonas umsongensis	145
s__Pseudomonas umsongensis	1545
s__Pseudomonas umsongensis	1622
s__Pseudomonas umsongensis	1690
s__Pseudomonas umsongensis	1779
s__Pseudomonas umsongensis	1985
s__Pseudomonas umsongensis	2106
s__Pseudomonas umsongensis	352
s__Pseudomonas umsongensis	358
s__Pseudomonas umsongensis	363
s__Pseudomonas umsongensis	429
s__Pseudomonas umsongensis	54
s__Pseudomonas umsongensis	611
s__Pseudomonas umsongensis	622
s__Pseudomonas umsongensis	630
s__Pseudomonas umsongensis	640
s__Pseudomonas umsongensis	662
s__Pseudomonas umsongensis	727
s__Pseudomonas umsongensis	78
s__Pseudomonas umsongensis	944
s__Pseudomonas veronii	1069
s__Pseudomonas veronii	1084
s__Pseudomonas veronii	1146
s__Pseudomonas veronii	1211
s__Pseudomonas veronii	1245
s__Pseudomonas veronii	1383
s__Pseudomonas veronii	1399
s__Pseudomonas veronii	140
s__Pseudomonas veronii	1421
s__Pseudomonas veronii	149
s__Pseudomonas veronii	220
s__Pseudomonas veronii	223
s__Pseudomonas veronii	244
s__Pseudomonas veronii	34
s__Pseudomonas veronii	781
s__Pseudomonas veronii	825
s__Pseudomonas veronii	857
s__Pseudomonas veronii	893
s__Pseudomonas viridiflava	1207
s__Pseudomonas viridiflava	1405
s__Pseudomonas viridiflava	187

GU185860.1 gg_id:582087 Pseudomonas jessenii str. PGRs1 GU185
EU438859.1 gg_id:301735 Pseudomonas putida 29 EU438
EU434532.1 gg_id:269306 Pseudomonas putida str. b263 EU434
AY512614.1 gg_id:107323 Pseudomonas fluorescens str. A1XB1-4 AY512
EU545412.1 gg_id:259831 Pseudomonas putida str. P13 EU545
EU627168.1 gg_id:279231 Pseudomonas putida str. NH.50 EU627
AM293565.1 gg_id:221929 Pseudomonas reinekei str. Mt-1 AM293
DQ095891.1 gg_id:128393 Pseudomonas fluorescens str. S2 DQ095
AM419155.2 gg_id:271957 Pseudomonas clemancea str. PR221 AM419
GU391518.1 gg_id:539900 Pseudomonas jessenii str. Gd2F GU391
FM955889.1 gg_id:552742 Pseudomonas moorei str. Asd MY-A1 FM955
AB266613.1 gg_id:165395 Pseudomonas fluorescens str. KU-7 AB266
GU191930.1 gg_id:588031 Pseudomonas putida str. SB 3057 GU191
AF191224.1 gg_id:72336 Pseudomonas jessenii str. VT10 AF191
AY050495.1 gg_id:32635 Pseudomonas corrugata str. SB4 AY050
DQ981460.1 gg_id:205168 Pseudomonas putida SB5 DQ981
AB051693.1 gg_id:52556 Pseudomonas sp. str. LAB-06 AB051
AB330416.1 gg_id:246575 Pseudomonas sp. str. BAM591 AB330
FJ426279.1 gg_id:369265 Pseudomonas fluorescens str. CB306 FJ4262
AB038136.1 gg_id:47594 Pseudomonas putida str. P-2 AB038
DQ525597.1 gg_id:159861 Pseudomonas veronii str. S1f-34 DQ525
DQ178231.1 gg_id:140491 Pseudomonas fluorescens str. PC33 DQ178
AY512623.1 gg_id:103318 Pseudomonas veronii str. A1YB3-4 AY512
AY748440.1 gg_id:99904 Pseudomonas veronii str. VH100590 AY748
AF539745.1 gg_id:59301 Pseudomonas veronii str. UFZ-B549 AF539
AM933507.1 gg_id:334191 Pseudomonas veronii FB15 AM933
DQ392980.1 gg_id:153042 Pseudomonas veronii DQ392
AY081814.1 gg_id:68487 Pseudomonas veronii str. CA-4 AY081
AF268029.1 gg_id:22349 Pseudomonas grimontii str. CFML 97-514T AF268
DQ178235.1 gg_id:139966 Pseudomonas fluorescens str. PC38 DQ178
AY512620.1 gg_id:102881 Pseudomonas veronii str. A1YC2-5 AY512
AY512621.1 gg_id:103030 Pseudomonas veronii str. A1YdBTEX2-5 AY512
EU538127.1 gg_id:281863 profile human microbiota antecubital fossa (inner elbow) skin clone nbt82e01 EU538
AY512617.1 gg_id:107765 Pseudomonas veronii str. A1X/3A AY512
FM213379.2 gg_id:306680 Pseudomonas meridiana str. KJPB15 FM213
DQ178232.1 gg_id:139953 Pseudomonas fluorescens str. PC34 DQ178
AB494444.1 gg_id:543515 Pseudomonas veronii str. nBP3 AB494
AF364098.1 gg_id:59382 Pseudomonas marginalis str. NZCX27 AF364
AB506066.1 gg_id:576116 Pseudomonas sp. str. StFRB209 AB506
Z76671.1 gg_id:8633 Pseudomonas viridiflava str. LMG 2352T () Z76671
AB021398.1 gg_id:8638 Pseudomonas cichorii str. ATCC 10857T AB021

337.8	1993.2	1937.4	2024.9	2276.9	3028.8	1603.8	2543.9	1345.6	3132.2	1733.9
3895.0	5790.4	6971.8	6787.7	6078.0	7795.9	5103.1	8644.4	6437.9	9510.9	8674.3
1891.9	5486.9	6662.0	6186.4	6419.0	8410.3	4827.5	8072.4	5534.1	9235.4	5950.4
1989.1	4765.1	5484.0	5877.3	6178.1	6834.9	5623.6	7443.1	5430.3	7690.6	6342.5
847.8	4426.2	5040.7	4431.1	4874.2	6209.7	3152.9	7268.8	3258.9	6361.9	5232.6
1688.4	3389.5	4550.5	2930.0	3233.6	4565.3	2633.9	4593.5	2978.2	6303.5	3586.0
1259.0	4026.0	5318.2	5810.2	4811.2	8049.3	3469.2	7644.8	3802.2	10085.2	4936.9
652.0	2363.3	2796.0	2366.0	2697.3	3655.7	1610.1	4027.6	1436.1	3876.1	1832.3
1557.3	4672.5	6248.1	5980.3	5897.9	8548.1	4340.3	6694.9	4006.8	9245.8	4705.7
1716.1	4565.1	5151.6	5362.0	5772.5	7408.7	4265.3	5863.9	4288.4	8237.7	4117.4
2006.7	4408.7	5691.6	6928.0	5283.6	7865.7	4077.8	7274.0	5558.0	9084.7	5280.9
187.0	1500.3	1621.5	1509.3	1748.9	2425.8	939.1	1764.2	577.3	2513.9	825.3
1016.1	4072.5	5343.9	5325.0	5209.1	7807.8	3168.5	6866.0	2880.9	9487.7	4155.6
3419.6	2837.4	4953.3	3317.7	3552.3	4326.0	3058.6	5072.0	2284.9	6060.0	4638.2
481.1	2682.3	2631.0	3017.3	2911.7	4492.8	1745.9	5492.6	1967.0	3775.1	4249.3
899.7	2920.7	3637.1	3038.3	2894.0	4260.3	1993.5	6322.2	3943.6	4371.3	2709.6
1694.8	4490.4	4833.0	5400.7	5067.2	6096.9	4104.6	6520.7	4764.8	5908.2	3656.0
812.9	3326.2	3937.0	4638.0	4136.2	6281.7	2977.0	6856.7	4129.0	6649.4	5608.8
1864.6	4851.8	5560.2	6002.3	5172.8	7407.6	4295.6	8677.8	4827.4	8703.5	6161.6
774.5	4483.1	5164.2	4505.1	5125.7	6159.7	3305.4	7258.5	3519.9	6651.6	5176.7
4820.3	5193.3	6012.9	6575.4	6320.1	6524.7	5651.2	7427.1	5286.4	7255.3	6322.8
3686.3	4725.7	4639.0	5164.9	5162.8	5751.5	4372.8	6999.5	3497.7	6468.7	5439.3
5215.5	4660.1	4890.3	5723.4	4439.9	6862.2	3986.7	6944.5	5799.5	7295.8	6159.3
8049.9	7913.4	7119.0	7717.8	7410.6	9038.7	6995.2	8194.1	9254.8	7248.7	11416.6
4588.7	5047.4	5796.3	6441.6	6412.3	6649.3	5330.4	7831.3	5138.6	6910.6	6348.3
6198.5	7380.7	8410.2	10520.8	9525.1	9960.7	9791.8	10465.1	8688.8	10273.2	9829.1
7160.7	6422.3	6358.4	7388.5	7006.8	7832.3	6729.5	7538.0	10024.2	9410.6	8451.3
3910.7	4090.7	4854.4	5052.5	4811.7	5644.7	3797.9	6527.8	3499.8	6465.4	5103.8
12270.4	5122.2	5822.8	6564.9	7239.6	5545.4	5741.5	7268.3	5531.9	5565.9	5035.9
9421.3	6293.7	6747.3	7870.2	6340.4	9132.4	5426.1	9549.2	8125.5	10459.9	9835.2
3517.4	4743.3	5489.5	5667.6	5319.0	6456.9	4534.0	7162.8	4705.1	7716.0	6020.6
2325.4	2921.6	3513.9	4283.6	3928.0	4381.2	2980.9	4892.8	3101.2	3636.0	3447.2
5293.0	4700.1	5226.3	5512.3	6968.3	6209.2	5101.7	5228.5	4653.7	6615.5	4835.0
3616.5	3368.8	4107.7	4528.1	4275.8	4831.8	3125.6	6000.4	3054.0	5043.1	4079.8
4395.9	6047.6	7584.6	8293.0	7553.3	8077.4	8137.3	9095.2	7155.4	6670.5	8590.7
8855.7	6034.5	6499.4	7328.3	6167.0	8623.9	5142.3	10324.1	6950.9	10233.4	9348.4
2633.3	3159.0	3863.8	4296.3	3812.2	4721.2	2823.0	5260.0	2699.0	4058.7	3503.1
4828.8	5171.6	5900.5	6437.6	6247.5	7021.7	5487.2	8038.9	5471.2	8094.7	6876.9
113.3	1449.6	2033.2	2502.2	1670.6	3000.3	750.9	3035.5	1209.5	2774.8	1643.7
98.9	2052.9	3165.1	3012.0	1967.9	3362.6	1028.3	3037.9	1849.9	3880.2	1335.6
367.6	2032.2	3004.2	2954.0	2283.5	3251.5	1120.8	2580.4	1816.9	3605.8	2641.9

2658.5	2771.8	2072.6
9199.6	7159.4	5450.2
9056.1	5465.0	4635.0
7552.5	5558.0	5613.3
7206.6	4387.6	4398.2
4917.2	4529.0	2784.1
9283.7	6509.0	4190.9
4272.8	2059.7	1405.6
10128.4	7768.3	5302.1
7622.0	5372.2	3151.1
8777.0	7728.6	4757.0
2362.7	1440.2	1055.7
8908.7	6119.7	3815.4
3893.4	3891.6	3183.5
4830.2	3984.5	3451.8
5848.6	2214.3	1370.7
6359.9	4540.9	3903.9
6705.1	5821.9	5497.3
8028.7	6026.7	4285.5
7496.4	4344.2	4753.3
7850.6	6355.0	4955.9
7300.1	5975.1	4088.3
6729.5	7255.0	6769.9
7280.9	7620.4	4694.0
7903.4	6263.6	5001.7
10913.8	9493.4	8442.0
7817.2	7175.8	5572.1
7090.5	5439.4	3702.3
7803.2	6591.3	4670.4
9002.3	8865.4	6631.9
7837.9	5731.5	4091.7
5611.6	4678.9	3083.1
6640.9	4214.6	2952.3
6420.7	4974.5	3469.7
9233.0	7630.7	6318.3
9081.6	7467.2	6478.6
5990.7	4750.1	4622.7
7984.5	6307.3	5063.6
4261.3	2333.6	740.4
6167.1	3708.2	1245.4
3724.5	2476.2	1864.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__Pseudomonas viridiflava	2109
s__Pseudomonas viridiflava	248
s__Pseudomonas viridiflava	414
s__unclassified	1
s__unclassified	1000
s__unclassified	1007
s__unclassified	1015
s__unclassified	1016
s__unclassified	1019
s__unclassified	102
s__unclassified	1023
s__unclassified	1026
s__unclassified	1027
s__unclassified	1028
s__unclassified	1029
s__unclassified	1033
s__unclassified	1037
s__unclassified	1039
s__unclassified	1041
s__unclassified	1045
s__unclassified	1049
s__unclassified	1050
s__unclassified	1052
s__unclassified	1054
s__unclassified	106
s__unclassified	1061
s__unclassified	1063
s__unclassified	1065
s__unclassified	1066
s__unclassified	1067
s__unclassified	1068
s__unclassified	1070
s__unclassified	1071
s__unclassified	1075
s__unclassified	1076
s__unclassified	1077
s__unclassified	1079
s__unclassified	108
s__unclassified	1082
s__unclassified	1085
s__unclassified	1086

EF101976.1 gg_id:190919 Pseudomonas cichorii str. IP1-05 EF1019
AB512620.1 gg_id:550669 Pseudomonas sp. str. StFLB155 AB5126
AY277555.1 gg_id:89393 Pseudomonas sp. str. AGP3-7 AY2775
EU539385.1 gg_id:283924 profile human microbiota antecubital fossa (inner elbow) skin clone nbt238a10 EU5393
EU536618.1 gg_id:285719 profile human microbiota antecubital fossa (inner elbow) skin clone nbt63h08 EU5366
EU538392.1 gg_id:284751 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88e05 EU5383
AB088844.1 gg_id:79576 Pseudomonas sp. str. K23 AB0888
EF672050.1 gg_id:253349 Burkholderia cepacia str. M45 EF6720
EU536489.1 gg_id:280173 profile human microbiota antecubital fossa (inner elbow) skin clone nbt214f09 EU5364
EU538918.1 gg_id:286009 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95b08 EU5389
EU535774.1 gg_id:286476 profile human microbiota antecubital fossa (inner elbow) skin clone nbt10f05 EU5357
EU539846.1 gg_id:280184 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106c10 EU5398
EU538445.1 gg_id:282737 profile human microbiota antecubital fossa (inner elbow) skin clone nbt229g12 EU5384
EF154273.1 gg_id:178880 Pseudomonas syringae str. 33 EF1542
EU535280.1 gg_id:280196 profile human microbiota antecubital fossa (inner elbow) skin clone nbt01b07 EU5352
AB547166.1 gg_id:515561 Pseudomonas sp. str. DSP-S3 AB5471
FJ892984.1 gg_id:548837 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM2; ear p FJ8929
EU877075.1 gg_id:341197 Pseudomonas putida str. EC3_2001 EU8770
EU540274.1 gg_id:281449 profile human microbiota antecubital fossa (inner elbow) skin clone nbt113e10 EU5402
AJ846274.1 gg_id:106541 Pseudomonas sp. HHS8 AJ8462
EF471903.1 gg_id:217410 Pseudomonas sp. str. GW28-5 EF4719
AF320994.1 gg_id:33806 Pseudomonas tolaasii str. NZ027 AF3209
Z76669.1 gg_id:8639 Pseudomonas syringae str. LMG 1247t1T (; pathovar reference strain) Z76669
EU540055.1 gg_id:281519 profile human microbiota antecubital fossa (inner elbow) skin clone nbt112e11 EU5400
AY538263.1 gg_id:100141 Pseudomonas fluorescens str. PC17 AY5382
AB108691.1 gg_id:83881 Pseudomonas putida str. AN2 AB1086
EU538374.1 gg_id:280440 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88b03 EU5383
FJ893864.1 gg_id:554161 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8938
EF565945.1 gg_id:227761 Pseudomonas sp. str. 1043 EF5659
AF094726.1 gg_id:71021 Pseudomonas fluorescens str. ATCC 17386 AF0947
EU540294.1 gg_id:282548 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114c12 EU5402
FJ893943.1 gg_id:549107 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8939
AJ936933.1 gg_id:175024 Pseudomonas simiae AJ9369
FJ894257.1 gg_id:543206 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8942
AY303316.1 gg_id:129966 Pseudomonas sp. str. ps6-35 AY3033
EU930815.1 gg_id:307397 Pseudomonas putida str. PC EU9308
EU111704.2 gg_id:509199 Pseudomonas poae str. T23 EU1117
AF313466.1 gg_id:35880 Pseudomonas veronii AF3134
EU538996.1 gg_id:284817 profile human microbiota antecubital fossa (inner elbow) skin clone nbt98h04 EU5389
AJ295374.1 gg_id:19794 rape rhizosphere cse074 AJ2953
FJ788425.1 gg_id:537584 Pseudomonas putida str. Rs-198 FJ7884

522.9	2995.9	3180.7	3695.3	3103.7	4419.3	2041.0	4506.4	1605.3	4529.6	3988.6
364.1	2613.7	3031.9	3067.8	2486.6	4520.7	1419.5	6131.9	2228.2	4301.3	3499.2
99.2	215.5	407.0	378.9	238.6	519.1	162.3	573.8	229.2	659.1	191.6
1386.5	3100.2	3795.9	3673.4	4420.2	5545.3	3610.1	4355.9	3347.2	5953.4	2602.5
663.8	1775.1	2451.2	2631.4	2196.9	3274.8	1866.9	2383.4	993.4	2874.7	1067.7
27625.0	9392.9	8292.6	9255.4	8120.0	9474.1	8692.8	8916.2	10506.5	12488.6	11723.7
3732.8	4802.0	5653.6	5612.1	5464.0	7980.4	3796.5	6504.2	3167.6	9651.8	4816.4
2122.5	5175.2	6437.4	7971.8	6541.8	8409.8	5309.7	7094.6	6764.5	10385.2	5772.8
1801.7	2419.8	2890.6	3247.1	3149.7	4323.5	2584.6	3018.4	1901.5	4675.4	1230.6
785.5	3964.5	5752.9	4138.1	2978.1	4133.3	2864.0	5664.6	2415.0	2781.0	4891.4
977.9	2047.2	2498.1	2636.6	2480.7	2813.2	2839.7	2466.0	1706.3	3123.7	1632.1
16106.0	7289.3	7289.2	8401.2	7597.7	8640.8	7737.7	9201.0	8312.9	9785.0	8242.2
690.7	2079.6	2412.3	2820.2	2249.9	3970.2	2079.9	3878.3	1291.1	4050.3	2153.2
2903.5	5602.3	7356.2	6990.7	5588.5	6358.0	6008.7	5437.6	8062.1	7550.9	7050.5
2919.1	5649.3	5010.2	4547.7	5191.2	7113.3	4167.3	5781.3	4728.4	9481.2	4205.6
1822.3	3476.8	3921.7	4225.2	4154.9	6036.7	3313.0	5665.3	3177.7	6874.7	3227.4
17585.0	6619.7	7262.0	7675.1	7562.8	8262.0	7923.2	7367.5	7717.2	10619.3	6172.1
733.1	4447.4	4652.0	5195.6	6061.9	8452.1	3269.4	6123.4	3508.0	9650.9	5191.0
3545.7	4331.9	4489.0	4586.7	4893.4	6249.8	4649.6	6273.6	6965.6	8620.3	5333.6
5866.3	4015.7	4034.2	4601.4	3915.7	5736.2	3901.4	6680.1	4424.4	8263.0	5321.8
537.0	3398.7	3663.7	3612.9	3395.3	5324.8	3142.4	3388.9	3317.3	6395.9	2816.1
450.5	1516.0	1700.3	1735.5	1875.0	2514.7	1611.1	2985.8	838.9	2760.6	2247.1
1700.0	3782.4	4441.2	4703.9	4775.7	7560.1	3171.9	6169.7	4161.4	7578.5	4503.8
404.4	1798.5	1562.8	1527.7	1652.7	3291.3	1230.7	3556.6	970.1	4283.0	2554.3
8617.2	4342.2	5014.0	5725.4	6183.2	5491.6	5019.7	5924.5	3965.5	4747.4	4592.8
845.5	4022.2	4403.8	4333.4	6472.7	7099.8	2511.4	4471.1	2477.8	8322.6	4734.3
4550.1	5419.8	6413.7	6655.6	5889.1	7354.3	5974.4	7759.0	6300.9	9096.1	6654.0
3913.4	5375.8	5122.5	5761.5	5267.4	6855.3	5137.7	7212.0	4912.5	7875.7	6737.4
1640.4	2678.0	3120.6	3188.1	3260.4	4172.7	2475.7	2899.7	3827.2	4428.5	2482.1
1536.1	3494.5	4187.2	4237.1	3671.5	5843.6	3206.2	5327.5	4005.6	4384.2	2921.7
1562.1	3537.3	3061.5	3545.0	3810.1	5631.9	2706.2	6944.1	3177.2	5941.1	5041.3
3006.4	5436.7	5990.7	6356.4	5296.3	6953.3	5266.1	6730.2	4662.2	8274.4	5829.4
2222.2	1774.5	2581.0	2290.2	2252.1	3161.4	1731.3	2802.5	1583.0	3981.0	1833.0
4741.0	8816.2	6802.5	6550.8	6175.2	7788.9	6266.2	6759.0	8296.7	7728.1	9018.1
5620.0	5811.5	6049.5	6414.0	5363.8	6396.1	6185.6	5844.1	6401.1	6027.5	6849.4
2125.1	5700.9	6416.8	7316.4	7327.7	9750.8	6162.3	7028.9	6484.8	9754.8	6149.1
1507.4	924.1	1707.9	1652.8	1205.8	2107.1	748.2	1731.2	826.2	2441.5	789.2
7842.3	5775.4	6362.9	6744.9	6951.1	7228.3	6660.9	8017.8	5630.8	8444.8	7105.7
710.6	3756.7	3889.7	3423.5	3769.4	4893.2	2972.3	5095.8	2647.8	4405.9	2975.3
339.3	926.3	1264.8	1149.3	1020.6	1892.7	646.4	2410.1	976.4	2153.2	1835.5
2469.0	7285.6	7383.7	8007.7	8443.4	11182.6	5237.6	9313.2	6666.3	13612.5	9564.2

4897.3	3837.6	3897.3
5966.8	3705.0	1295.3
732.2	737.5	212.8
5045.9	4024.2	3468.7
3394.0	3063.6	2803.7
9926.2	10121.7	10590.7
8508.7	6095.5	4064.9
8975.8	7521.1	5153.9
4896.8	2907.5	1676.1
3784.6	5325.5	3244.3
3038.7	3456.1	2894.6
9027.3	9776.8	9810.3
4227.9	4446.0	5938.7
6023.1	6636.2	5194.3
7296.7	4625.4	3402.0
6440.0	4109.0	2356.2
7986.4	8267.6	7722.0
7883.1	4684.3	2927.0
5872.9	5552.1	4166.6
6191.0	5858.8	5118.5
4830.6	3962.0	2846.4
2169.9	2455.4	2429.4
7169.4	4906.1	3078.0
2927.9	2149.6	2062.2
6610.6	5410.7	4213.2
5769.6	5152.2	4810.6
8079.2	8042.1	6415.8
7425.5	6975.3	5466.8
3764.9	4362.9	2297.6
6598.3	3753.3	2667.6
5886.4	3981.8	2121.8
8095.4	6823.1	5706.1
3883.3	2698.1	1606.8
6358.9	7233.4	5765.1
5148.8	7519.7	5836.8
9562.5	6326.7	4283.8
2755.7	1610.5	1184.7
7824.2	6713.0	5681.3
5401.6	3992.4	6008.1
2125.9	1407.4	898.5
11072.0	7955.4	6285.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1088
s__unclassified	1089
s__unclassified	1091
s__unclassified	1092
s__unclassified	1095
s__unclassified	1096
s__unclassified	11
s__unclassified	110
s__unclassified	1101
s__unclassified	1104
s__unclassified	1107
s__unclassified	1112
s__unclassified	1113
s__unclassified	1115
s__unclassified	1116
s__unclassified	1119
s__unclassified	112
s__unclassified	1120
s__unclassified	1124
s__unclassified	1126
s__unclassified	1130
s__unclassified	1131
s__unclassified	1132
s__unclassified	1136
s__unclassified	1137
s__unclassified	114
s__unclassified	1141
s__unclassified	1143
s__unclassified	1144
s__unclassified	1147
s__unclassified	1158
s__unclassified	116
s__unclassified	1161
s__unclassified	1164
s__unclassified	1165
s__unclassified	117
s__unclassified	1172
s__unclassified	1175
s__unclassified	1177
s__unclassified	1178
s__unclassified	118

EU586045.1 gg_id:263481 Pseudomonas thivervalensis str. REG53 EU586
AF411855.1 gg_id:27138 Pseudomonas sp. str. 5B AF411
FJ895023.1 gg_id:535208 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8950
AM111013.1 gg_id:140933 Pseudomonas sp. str. 7001 AM111
FJ894165.1 gg_id:567845 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pı FJ8941
FJ893919.1 gg_id:535538 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pı FJ8939
EU536155.1 gg_id:282438 profile human microbiota antecubital fossa (inner elbow) skin clone nbt12d05 EU536
EU539504.1 gg_id:281649 profile human microbiota antecubital fossa (inner elbow) skin clone nbt104d03 EU539
FJ893323.1 gg_id:548944 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8933
EU537276.1 gg_id:280469 profile human microbiota antecubital fossa (inner elbow) skin clone nbt72c07 EU537
EU537576.1 gg_id:287001 profile human microbiota antecubital fossa (inner elbow) skin clone nbt74d05 EU537
AJ846283.1 gg_id:102559 Pseudomonas sp. HHS18 AJ8462
U70977.1 gg_id:8596 Pseudomonas putida str. MnB1 U7097
EU539409.1 gg_id:286623 profile human microbiota antecubital fossa (inner elbow) skin clone nbt238d04 EU539
FJ430676.1 gg_id:359401 Pseudomonas putida str. IMBG 294 FJ4306
FJ418773.1 gg_id:366528 Pseudomonas syringae pv. tomato str. 3 FJ4187
EU540208.1 gg_id:281422 profile human microbiota antecubital fossa (inner elbow) skin clone nbt247c03 EU540
DQ026520.1 gg_id:130002 Pseudomonas putida str. VH26042005 DQ026
EU539855.1 gg_id:280330 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106e11 EU539
EU540622.1 gg_id:281237 profile human microbiota antecubital fossa (inner elbow) skin clone nbt120h05 EU540
DQ256083.1 gg_id:143611 Pseudomonas fluorescens str. sp-f DQ256
AB294558.1 gg_id:204838 Pseudomonas putida str. NCB0308-456 AB294
FJ892909.1 gg_id:538158 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p FJ8929
DQ289076.1 gg_id:144195 Bacillus subtilis FM21 DQ289
FJ893397.1 gg_id:563933 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8933
EU535682.1 gg_id:281049 profile human microbiota antecubital fossa (inner elbow) skin clone nbt09e10 EU535
EU539232.1 gg_id:286562 profile human microbiota antecubital fossa (inner elbow) skin clone nbt101f11 EU539
AJ271219.1 gg_id:72969 Pseudomonas putida str. P1 AJ2712
AY303321.1 gg_id:131310 Pseudomonas sp. str. ps6-49 AY3033
EF016112.1 gg_id:195370 Pseudomonas sp. str. BSLY EF0161
AF374472.1 gg_id:67535 Pseudomonas costantinii str. CFBP 5705; HAMBI 2444 AF3744
EU538183.1 gg_id:283248 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81g06 EU538
Z76655.1 gg_id:8568 Pseudomonas asplenii str. LMG 2137T () Z76655
FJ894960.1 gg_id:535843 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8949
EU169189.1 gg_id:237380 Pseudomonas tolaasii str. B34 EU169
DQ318867.1 gg_id:152043 Pseudomonas syringae str. 6 DQ318
FJ405884.1 gg_id:363503 Pseudomonas putida str. YJF1-21 FJ4058
EU538954.1 gg_id:283838 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95h09 EU538
EU540146.1 gg_id:285849 profile human microbiota antecubital fossa (inner elbow) skin clone nbt246b03 EU540
EU537169.1 gg_id:285856 profile human microbiota antecubital fossa (inner elbow) skin clone nbt67g03 EU537
EU539367.1 gg_id:286796 profile human microbiota antecubital fossa (inner elbow) skin clone nbt237f01 EU539

573.8	843.7	1408.7	1390.8	1013.2	1791.7	1043.3	2195.2	546.2	2376.0	1687.7
1359.8	6683.6	7473.2	8834.3	10381.2	7272.6	10675.3	7554.1	5534.8	6474.0	7082.1
4933.5	5036.2	5592.7	5906.9	4912.4	6157.8	4780.9	6799.2	4396.2	6844.3	5252.1
4474.8	6128.0	6374.2	7144.3	6727.9	8547.9	6130.4	8137.5	7228.5	8587.1	9014.5
16640.2	11469.2	11787.9	12846.9	12605.2	12733.5	13088.3	11756.9	16458.0	15831.9	15131.5
11452.0	5864.4	5874.7	5847.6	5802.8	5597.7	6201.5	6116.7	8029.4	8699.7	6900.6
2493.0	3940.2	5147.3	4328.7	4789.3	7045.4	3557.6	5141.1	4169.9	8877.5	4183.6
1160.8	2193.0	2744.0	2859.8	3016.5	4011.1	2494.3	3130.2	2709.1	4583.1	1559.0
8287.1	4958.2	4715.0	4805.8	4653.8	5417.1	4856.9	5294.3	5857.4	7584.9	6010.2
35720.4	10829.6	11470.7	12164.7	11333.1	12156.7	11919.5	11664.1	15768.7	14796.0	15599.9
243.9	1546.8	2205.7	1811.4	2020.1	2148.4	1651.4	1789.9	1314.0	2819.3	1187.7
4275.4	3021.7	3090.5	3682.9	3825.9	4540.2	3123.0	2992.1	2727.8	4702.9	2373.5
1507.9	5888.4	5082.2	6331.8	6734.7	8028.1	4159.6	6483.3	6013.9	9496.3	6471.2
11365.0	6554.7	6405.4	6960.1	7000.6	8643.4	6744.0	6089.5	7779.8	9337.7	6783.1
4880.0	6241.7	6181.0	6916.0	6711.6	7319.5	7000.3	6698.9	7839.1	8493.0	8002.2
786.3	1566.3	2348.9	2236.2	2342.9	2901.4	1271.7	2659.6	1622.2	2651.6	1693.9
7231.2	6055.0	6110.4	6949.2	6235.3	7617.0	7107.7	7199.9	5752.1	7789.5	6702.4
8688.1	7028.8	6817.5	6923.3	6382.7	5930.2	6873.1	6722.8	7415.6	8799.9	7570.4
2841.0	3361.7	4299.0	4176.3	4350.2	5948.6	3928.5	4297.0	2825.1	6866.0	2368.5
4871.1	3539.8	4042.3	4286.2	4382.7	5350.5	4062.3	5468.3	3401.8	6821.8	3244.2
5946.6	8280.1	7345.2	8166.1	7090.5	7626.5	6997.8	7493.9	11363.5	6798.9	7895.6
1106.1	3794.9	4537.1	4665.4	5443.4	9264.0	3054.8	6257.9	2639.2	10038.4	4331.5
1095.7	1928.4	2427.3	2732.1	2349.6	2928.7	2431.6	2618.9	1237.0	3584.8	1271.2
1640.8	5999.1	5882.0	6702.1	8039.7	9487.9	4835.9	7519.7	4607.6	11160.8	6870.7
7378.5	6664.6	6332.6	6713.8	6481.4	7842.3	6224.2	7198.8	8365.8	9227.8	9612.9
6087.4	6762.8	7172.0	7692.0	6627.1	8059.1	6827.2	7953.8	9057.4	8555.6	7822.0
14815.4	9453.1	9262.9	9292.7	9212.1	10451.9	8471.4	11229.9	11584.6	9884.6	12114.4
2421.8	6684.0	6490.5	7002.0	7493.7	10024.8	4744.8	8096.7	4797.9	12271.0	9593.3
10228.1	5005.3	4201.8	5293.0	4718.6	5998.4	5033.2	6773.5	7306.7	7214.0	6897.3
1782.1	2151.3	2854.7	2580.8	2585.9	3902.6	2356.8	3599.8	1712.3	4688.8	2976.8
5934.4	5639.1	7203.6	7527.2	6682.3	7621.1	6192.7	7783.6	6778.6	8944.0	7284.0
2015.7	3470.1	4057.8	3940.8	3547.2	4473.6	3350.7	4845.1	2935.3	5305.2	3103.1
3580.9	3433.4	4159.3	4224.6	3970.1	5661.5	3208.3	6543.9	3151.1	5209.4	4662.4
4772.6	4958.3	5459.8	5999.3	5855.3	6608.0	5321.6	6197.5	5206.2	9180.0	4945.4
2327.8	3943.5	4740.6	4835.9	4735.3	6767.6	4155.5	6129.1	3445.3	8399.2	4187.0
2300.1	3770.6	4673.3	4737.7	4445.3	7007.6	3209.9	6743.4	4143.6	7420.0	5119.4
657.6	2567.3	2692.6	3162.7	4022.7	4856.1	1478.1	3231.8	1648.6	9024.8	2479.1
12310.3	3953.3	4272.0	4502.9	4502.2	5936.8	4143.2	5364.0	3292.3	7086.9	4121.7
1289.0	2751.5	3178.3	3205.2	2712.9	4671.0	2420.2	4686.3	2619.6	5243.2	3063.4
5623.0	7733.9	7724.4	8983.6	9463.9	8106.8	10014.5	7816.5	6559.2	8661.3	7903.3
873.3	4194.2	2922.7	4150.8	3910.7	5625.0	2999.9	5758.6	2763.0	4980.9	4038.0

1992.1	1912.5	1177.1
9297.5	7490.4	6243.6
6256.5	7222.6	8106.9
7793.2	7241.5	5028.8
12241.0	13332.2	13951.8
5996.6	8060.0	6586.4
6493.6	3871.4	2975.5
4533.5	2707.1	1959.2
5520.5	6889.3	4835.6
12117.2	12607.5	9691.9
2077.6	1790.2	1535.2
4811.4	4723.6	2218.8
7582.0	5392.8	3056.8
7075.2	6725.2	6162.3
6603.4	6935.3	5368.3
3496.8	2553.5	1198.7
7435.7	7960.8	7498.6
7517.3	7125.9	6454.5
5406.7	4070.3	2864.1
5942.8	5206.0	3876.4
7423.6	6983.0	7202.7
9155.6	5883.0	4356.6
3782.7	3008.2	1793.5
9195.1	7412.2	5302.6
6844.5	8823.2	6353.1
7574.8	9025.7	9438.8
10615.3	9677.4	8126.3
9859.8	8050.6	6132.3
6234.9	5445.1	3978.7
4132.2	3474.9	2436.1
7926.9	7544.0	5681.6
5010.1	5579.0	6827.3
6066.8	6167.1	7251.5
6673.2	7298.8	4814.3
6999.9	5143.7	3003.2
7127.2	5135.7	3352.7
3770.1	3028.9	1928.5
5705.9	6563.4	5749.6
5586.0	4056.2	4432.8
8327.4	8951.6	7909.4
6087.2	5636.4	7934.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1181
s__unclassified	1185
s__unclassified	1186
s__unclassified	1189
s__unclassified	1192
s__unclassified	1193
s__unclassified	1194
s__unclassified	1197
s__unclassified	1198
s__unclassified	1199
s__unclassified	1201
s__unclassified	1202
s__unclassified	1203
s__unclassified	1204
s__unclassified	1208
s__unclassified	1212
s__unclassified	1213
s__unclassified	1217
s__unclassified	1218
s__unclassified	122
s__unclassified	1220
s__unclassified	1221
s__unclassified	1224
s__unclassified	1225
s__unclassified	1227
s__unclassified	1228
s__unclassified	1230
s__unclassified	1239
s__unclassified	124
s__unclassified	1242
s__unclassified	1251
s__unclassified	1254
s__unclassified	1255
s__unclassified	1257
s__unclassified	1259
s__unclassified	126
s__unclassified	127
s__unclassified	1272
s__unclassified	1276
s__unclassified	1277
s__unclassified	1278

EU022590.1 gg_id:347835 Pseudomonas putida str. KBL1SM1 EU022
FJ894353.1 gg_id:561919 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8943
FJ893155.1 gg_id:557378 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM3; ear p FJ8931
EU434400.1 gg_id:270408 Pseudomonas fluorescens str. a342 EU434
EF153018.1 gg_id:184271 Pseudomonas corrugata str. P94 EF153
AJ249825.2 gg_id:74089 Pseudomonas putida str. GPo1 (TF4-1L) AJ2498
DQ402053.1 gg_id:155811 Pseudomonas fluorescens TC222 DQ402
FJ894348.1 gg_id:548110 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8943
GU372931.1 gg_id:514461 Pseudomonas sp. str. CS3 GU372
EU537987.1 gg_id:280306 profile human microbiota antecubital fossa (inner elbow) skin clone nbt228e03 EU537
EU534747.1 gg_id:280344 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt21 EU534
AF502594.1 gg_id:66559 Pseudomonas monteilii str. C11 AF502
AY900171.1 gg_id:142050 Pseudomonas fluorescens str. PCL1751 AY900
AF130950.1 gg_id:8581 Pseudomonas syringae str. A90 AF130
EU535916.1 gg_id:280150 profile human microbiota antecubital fossa (inner elbow) skin clone nbt06b10 EU535
EU538331.1 gg_id:284474 profile human microbiota antecubital fossa (inner elbow) skin clone nbt83f11 EU538
EU539948.1 gg_id:283585 profile human microbiota antecubital fossa (inner elbow) skin clone nbt108c07 EU539
DQ453708.1 gg_id:156738 Pseudomonas pv. savastanoi str. NCPPB-1344 DQ453
FM955873.1 gg_id:540744 Pseudomonas sp. str. Asd M6-4 FM955
DQ257632.1 gg_id:147233 Pseudomonas putida str. MTCC 5110 DQ257
EF062802.1 gg_id:183293 Pseudomonas sp. str. MY1402 EF0628
AY690673.1 gg_id:99074 Sulfitobacter sp. str. GC07 AY690
AF100323.1 gg_id:8681 Pseudomonas thivervalensis str. SBK26; CFBP 11261T AF100
DQ536518.1 gg_id:161371 Pseudomonas poae str. BIHB 752 DQ536
EU434546.1 gg_id:258577 Pseudomonas fluorescens str. b59 EU434
EU539834.1 gg_id:287212 profile human microbiota antecubital fossa (inner elbow) skin clone nbt105h10 EU539
EU554430.1 gg_id:274557 Pseudomonas putida str. Ag04 EU554
GU186124.1 gg_id:548053 Pseudomonas fluorescens str. IHB B 1427 GU186
GQ174492.1 gg_id:446815 Pseudomonas sp. str. 32A GQ174
EU827496.1 gg_id:320652 Pseudomonas putida str. TFD49 EU827
FJ911604.1 gg_id:535159 Rhizobium sp. str. SPC RN2 FJ9116
GQ451221.1 gg_id:552947 Fecal Yunnan snub-nosed monkey feces clone J87 GQ451
FJ894687.1 gg_id:574364 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8946
EU538372.1 gg_id:286077 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88a05 EU538
AF509330.1 gg_id:77086 Pseudomonas putida str. DSM 3601 AF5093
FJ950670.1 gg_id:426126 Pseudomonas fluorescens str. d112 FJ9506
EF154274.1 gg_id:190873 Pseudomonas tolaasii str. 34 EF1542
EU537208.1 gg_id:286436 profile human microbiota antecubital fossa (inner elbow) skin clone nbt68e07 EU537
GQ900609.1 gg_id:583278 Pseudomonas synxantha str. A1 GQ900
EU536059.1 gg_id:284552 profile human microbiota antecubital fossa (inner elbow) skin clone nbt08a07 EU536
Z29622.1 gg_id:8723 Pseudomonas species Z29622

2698.5	4650.5	5304.9	6448.4	7945.0	7212.3	4825.3	5274.2	4883.2	6663.1	4278.5
2285.4	3120.4	4322.4	4377.5	4640.0	5763.1	4449.8	4777.5	5001.2	6868.6	3171.4
6216.7	5404.3	6034.6	6133.4	6622.7	7095.0	6368.8	5860.7	6005.6	7525.9	5408.2
1594.4	2682.7	2608.7	3080.0	4038.7	4960.2	2581.3	5631.0	2010.0	5402.8	3835.0
817.6	840.3	1469.7	1449.6	1146.1	1931.2	1361.7	1810.3	492.8	2331.7	630.1
1546.1	4206.0	4602.5	5363.7	7099.3	8241.5	3928.5	4804.3	3314.1	8981.7	3715.4
1282.5	4061.5	5005.7	5507.7	5463.1	8498.8	3452.0	6507.4	4447.0	9371.4	4657.3
1597.8	3132.1	3761.0	3936.3	4125.7	5355.3	3299.7	4366.0	3237.7	6251.3	2212.9
1578.7	5982.6	6216.0	7209.7	8040.6	9606.8	4848.6	8711.5	5292.0	11217.0	7269.1
2689.8	6290.1	6439.1	6938.0	6042.7	7788.5	6154.8	7648.8	5371.7	8733.2	7898.9
10203.4	4844.7	5289.8	5480.1	5492.4	6265.4	5691.0	5454.3	6579.6	7098.9	5860.9
1668.7	2668.5	3418.4	3037.8	3230.1	3846.3	2987.2	3642.2	3589.6	5421.3	2465.6
11819.5	4909.4	5480.7	5608.7	5261.9	5406.4	4992.1	4686.5	6467.6	5693.0	7734.0
184.5	1379.2	1472.7	1706.8	2219.7	3517.2	1833.7	1767.9	864.2	3956.1	1244.7
3594.3	5427.1	5003.9	5652.8	5250.7	6911.1	5143.1	6985.0	5348.8	7996.9	6453.5
1531.8	5173.2	5626.8	5670.8	6197.8	6171.0	6200.8	8211.9	4928.1	6081.6	4941.6
861.3	2860.9	3063.6	3441.3	2661.3	4621.2	2595.5	4574.2	1899.9	4859.1	2875.3
2035.0	3891.7	4565.4	4782.9	4687.1	6734.0	3481.6	6629.4	4532.9	6976.6	5062.0
154.6	1393.1	2649.1	2441.5	1389.7	2766.7	1409.5	3911.6	2582.8	2086.3	1748.6
11649.7	5485.5	5753.5	6027.2	5386.9	7951.2	4791.8	6315.0	2379.0	9778.6	6121.7
11961.1	8718.5	9082.0	10982.2	9406.2	9546.2	8879.2	10222.1	11238.2	12605.0	10245.5
3614.3	6184.5	5786.3	6452.8	6592.3	8106.0	4742.2	7697.8	3614.7	7561.7	9233.4
1017.5	1110.2	1701.1	1570.5	1620.7	2249.8	2491.4	1596.5	884.7	3113.8	835.6
1478.4	4308.9	4950.3	4647.1	4547.2	5043.6	4414.3	5350.3	3871.6	6612.9	5374.8
3374.3	3886.3	4469.4	4617.8	5222.8	5095.5	4376.8	6300.5	4194.4	5380.9	4345.6
4796.1	6550.2	6951.4	7371.3	6440.3	8011.3	6523.1	8090.8	5806.6	8789.7	7650.3
700.8	2606.2	2847.4	3250.8	3483.8	6478.6	2182.7	4651.7	1619.6	7306.3	2619.6
3285.8	3928.8	3979.1	4329.6	2789.6	5209.9	3328.4	4921.0	4263.9	4686.6	6046.9
359.9	2292.3	2701.9	3310.6	3120.9	5746.3	2247.4	3416.7	1209.8	6311.8	1532.4
2597.7	4680.5	5391.7	5868.1	6237.7	9429.8	3536.0	7590.3	4908.1	10779.9	5543.8
12502.1	7645.5	7657.6	8616.8	7987.1	8948.6	6341.2	9083.5	10587.9	9264.9	11960.8
1802.3	3123.9	2768.5	2424.0	2353.9	3292.9	2327.7	3462.7	2821.2	4403.7	1326.0
3547.9	5785.1	5769.7	6496.2	5620.7	7496.6	5575.8	7515.3	5549.4	9160.6	6841.6
8231.7	7368.8	7778.5	7260.5	6440.0	7911.4	6684.6	8104.6	10860.0	10522.3	7939.2
444.4	2148.8	2838.8	2657.9	3327.3	5514.9	1894.3	3631.7	1661.3	5011.6	2810.1
12908.5	5686.3	6136.3	6888.7	6889.7	5862.3	6636.3	6624.5	4700.6	6850.9	5880.0
2192.7	3144.7	4443.7	3871.0	3622.5	5791.4	3160.4	4925.3	2698.7	6380.4	4312.3
6678.5	4835.8	4424.4	5181.3	4496.4	5772.7	4638.4	5703.7	4712.5	6472.1	5449.3
2174.6	7124.7	7806.5	8977.2	7481.4	9594.1	6465.7	8499.4	10008.2	10543.3	7941.2
25888.6	10006.7	8951.9	10414.9	9998.9	10486.0	10042.5	9780.2	11588.9	13530.5	13015.4
1732.2	1407.9	1990.8	2038.0	2290.8	2155.0	1748.8	2005.8	1191.8	1908.5	1236.0

6229.9	5588.6	4315.8
5053.7	5177.7	4166.6
6246.4	6697.2	5572.9
4865.9	3772.3	2099.7
2507.9	1648.8	905.2
7380.4	4895.1	4097.0
9306.4	6224.7	3338.2
5393.9	4526.4	2247.3
9884.4	7621.2	5741.0
8120.8	7279.7	5684.8
5869.3	6500.7	5548.3
3703.0	3713.2	4064.6
5279.3	6167.3	4310.4
2643.9	1852.9	1720.1
7085.5	6690.8	4896.1
7544.8	8554.1	9301.8
4912.6	5362.5	7845.2
6975.9	4636.4	3246.5
3285.3	2754.7	1569.9
7975.0	7245.7	7453.3
9669.8	10294.8	7752.8
7840.1	6543.7	4891.8
2076.4	1942.5	1688.5
5869.9	5675.4	4222.9
6775.4	4535.9	3529.2
8637.9	8078.8	6882.3
6549.1	3874.1	2067.7
4781.9	4099.8	4527.9
6079.3	3849.4	1844.9
9001.7	6433.1	3032.6
8772.5	9706.6	6582.7
4283.9	2851.0	1651.2
7838.5	7321.1	5164.6
8072.7	8551.6	6983.5
5134.7	3327.5	2008.6
7045.1	6762.4	6523.9
6085.8	4918.9	3537.4
5855.5	7514.4	8331.2
10092.4	9179.5	6744.1
10252.5	10791.7	10822.4
2894.7	2171.1	2464.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	128
s__unclassified	129
s__unclassified	1290
s__unclassified	1292
s__unclassified	1295
s__unclassified	1298
s__unclassified	130
s__unclassified	1302
s__unclassified	1303
s__unclassified	1305
s__unclassified	1307
s__unclassified	1313
s__unclassified	1316
s__unclassified	132
s__unclassified	1326
s__unclassified	1327
s__unclassified	133
s__unclassified	1330
s__unclassified	1331
s__unclassified	1334
s__unclassified	1335
s__unclassified	1338
s__unclassified	134
s__unclassified	1341
s__unclassified	1343
s__unclassified	1351
s__unclassified	1353
s__unclassified	1354
s__unclassified	1362
s__unclassified	1363
s__unclassified	1365
s__unclassified	1371
s__unclassified	1372
s__unclassified	1373
s__unclassified	1375
s__unclassified	1387
s__unclassified	1388
s__unclassified	139
s__unclassified	1392
s__unclassified	1395
s__unclassified	1396

AF094727.1 gg_id:74186 Pseudomonas fluorescens str. ATCC 17397 AF0947
EU540318.1 gg_id:280568 profile human microbiota antecubital fossa (inner elbow) skin clone nbt113b12 EU5403
EF455752.1 gg_id:204831 Pseudomonas tolaasii ACCC 01267 EF4557
DQ288949.1 gg_id:144539 Pseudomonas putida TG11 DQ288
AJ889838.1 gg_id:113026 Pseudomonas avellanae str. BPIC 714 AJ8898
FJ894440.1 gg_id:542748 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8944
NC_010322.1 gg_id:263559 Pseudomonas putida str. GB-1 NC_01
EU539417.1 gg_id:281214 profile human microbiota antecubital fossa (inner elbow) skin clone nbt238e04 EU5394
AY030316.1 gg_id:21829 Pseudomonas graminis str. JPL-8 AY0303
DQ095894.1 gg_id:130996 Pseudomonas plecoglossicida str. S5 DQ095
EU538369.1 gg_id:281230 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87h05 EU5383
EU535337.1 gg_id:285434 profile human microbiota antecubital fossa (inner elbow) skin clone nbt01g05 EU5353
EU538202.1 gg_id:285063 profile human microbiota antecubital fossa (inner elbow) skin clone nbt82h08 EU5382
EU538980.1 gg_id:286677 profile human microbiota antecubital fossa (inner elbow) skin clone nbt97f09 EU5389
GU012802.1 gg_id:577467 Pseudomonas putida str. 7 GU012
GQ404505.1 gg_id:566293 Pseudomonas putida str. cmmb GQ404
FJ894474.1 gg_id:561792 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8944
EU538172.1 gg_id:280144 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81d04 EU5381
CP000926.1 gg_id:269270 Pseudomonas putida str. GB-1 CP0009
EF062807.1 gg_id:198623 Pseudomonas sp. str. MY1420 EF0628
EU364534.1 gg_id:274628 Pseudomonas fluorescens str. CN078 EU3645
Y11150.1 gg_id:8787 Pseudomonas graminis str. DSM 11363 () Y11150
EU536058.1 gg_id:282327 profile human microbiota antecubital fossa (inner elbow) skin clone nbt08a03 EU5360
AY623931.1 gg_id:105785 Pseudomonas rhodesiae str. CP-17 AY6239
FJ981653.1 gg_id:535517 Flea Vectors Plague clone XC7 FJ9816
AY574282.1 gg_id:140321 Pseudomonas putida str. S16 AY5742
AF134705.1 gg_id:46201 Pseudomonas fluorescens str. F113 AF1347
AM111046.1 gg_id:140961 Pseudomonas sp. str. 7068 AM111
DQ371233.1 gg_id:153457 Pseudomonas sp. C1-2006 str. C1 DQ371
FM208263.1 gg_id:326340 Pseudomonas sp. str. DSM 8628 FM208
EU534715.1 gg_id:281041 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt18 EU5347
EU535094.1 gg_id:284566 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt18 EU5350
DQ841246.1 gg_id:167487 Pseudomonas fluorescens str. WMQ_B DQ841
AB365797.1 gg_id:246399 Pseudomonas frederiksbergensis str. SS17 AB3657
EU534871.1 gg_id:284343 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt21 EU5348
DQ318863.1 gg_id:151022 Pseudomonas syringae str. 8533 DQ318
FJ893183.1 gg_id:565882 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM3; ear p FJ8931
AM410088.1 gg_id:192714 Pseudomonas veronii str. C9-4zhy AM410
AJ556801.1 gg_id:85062 Pseudomonas sp. MWH1 AJ5568
EF501777.1 gg_id:223959 microbiota and their potential application protective s sprouts clone DGGE gel band 8 EF5017
AY456706.1 gg_id:105067 Pseudomonas putida str. P3 AY4567

2265.8	2299.5	2887.9	3193.4	2366.5	3764.8	2008.5	3697.0	1719.1	3602.9	2150.5
3553.5	4101.1	4058.2	4260.2	3093.0	5297.4	3650.8	6709.1	5564.7	4017.3	6127.6
16983.7	7598.8	6545.0	7146.3	6548.8	7727.8	7007.7	7593.2	10517.6	9091.9	11490.1
425.7	3101.5	3212.2	3200.9	5109.3	6214.4	1343.2	3028.4	1096.5	6734.3	2845.1
3211.9	5039.2	6383.1	6339.1	5417.0	6176.2	4636.2	6401.8	6589.2	8837.2	6142.9
7277.1	6833.3	7061.3	7209.3	6437.9	7989.8	6396.4	7461.5	9195.3	11122.5	9252.2
2834.4	6834.6	8465.3	8205.8	8707.2	10902.4	6102.7	8995.7	7215.2	12109.3	10694.6
8941.9	6711.8	6926.2	7711.5	6564.5	7417.5	6777.3	6320.6	9507.8	8820.9	8323.5
4944.0	6238.9	6775.3	7326.6	7838.7	7189.4	6910.5	7825.7	6728.7	6895.6	5317.2
1320.5	5618.6	5549.3	6251.8	7575.6	9037.8	4473.3	7347.9	4212.9	10430.1	6804.8
5270.8	5193.3	6841.2	6055.0	5392.6	7129.5	4887.3	9093.5	7304.5	7021.2	6635.3
5571.6	5683.5	6518.9	7305.4	7283.3	7633.4	7240.1	7936.7	5850.5	6704.2	6226.8
1810.0	2617.9	3121.0	3379.1	3712.1	4888.9	2942.9	3943.4	3116.5	5518.3	2237.1
3045.5	5427.7	4682.6	5725.7	5001.8	5925.0	4962.2	5782.3	3935.8	7189.4	4864.9
10942.7	9658.7	8879.7	9791.2	8955.0	10824.7	9014.2	10076.1	12221.7	10379.8	13976.7
2610.8	4231.6	4956.3	6047.5	4417.1	6690.9	3430.5	5818.9	5823.1	8989.5	4782.7
3305.0	3495.9	4302.4	4575.6	4446.0	5827.8	3668.7	5242.3	3303.0	7353.5	2887.1
12224.5	7736.5	7138.1	7750.3	6676.8	8711.7	6722.9	8779.5	9731.0	8646.5	10354.7
2801.4	5268.8	5876.4	6513.1	7473.5	10834.7	4147.4	8085.1	5157.5	12341.5	6219.2
2242.4	2454.6	2701.1	2346.7	2565.7	3457.2	2263.3	3287.7	2034.6	4265.4	2605.5
1298.4	2319.4	2922.5	3394.3	3419.6	4822.4	2345.7	3771.2	3587.6	4929.7	2612.9
2408.1	4778.5	5538.0	5398.3	6216.8	7098.0	4252.8	6502.5	4396.9	7271.3	4120.3
9400.4	9048.7	8692.1	8995.0	8413.7	9258.3	8796.6	10097.0	11830.0	9653.1	12919.5
1776.3	2960.8	3343.7	3150.9	3348.5	4390.5	2873.0	5440.6	3903.7	5818.9	3445.2
28275.9	9734.7	9321.0	9548.0	9231.1	10219.5	9880.6	11292.9	13588.3	11078.9	13564.0
1511.6	5834.6	5771.4	6505.8	8152.5	9099.1	4720.4	7607.3	4474.2	10598.5	7150.6
4116.6	5065.1	5669.9	6295.1	6096.1	7556.8	5152.3	8375.5	6235.9	9117.0	5534.5
510.5	6923.4	7125.1	4257.1	7189.4	7369.7	3937.9	7091.8	6381.7	7699.7	5551.6
17315.4	7413.1	7463.8	7621.7	8002.9	8285.1	7407.7	9033.6	8039.8	9674.5	8184.8
215.2	4370.4	5391.4	5176.0	4257.7	6426.3	2570.4	6464.3	5835.1	7643.8	3925.2
5223.9	6306.7	5926.9	6632.6	6167.6	7406.5	6324.8	8505.4	6965.4	9008.2	8964.0
1979.3	4392.5	5689.4	3533.2	2924.8	5077.1	3075.1	5384.0	2415.6	5565.7	4927.5
2113.8	1919.6	2544.4	2562.2	2065.6	3692.9	1506.0	3516.5	1166.5	4127.4	2636.7
998.8	4023.1	4790.7	4828.9	5186.0	6170.9	4934.8	5408.2	3945.3	5403.9	3631.7
4313.7	2905.5	2933.3	3055.4	2652.0	3415.9	2381.2	3614.3	2792.0	4266.3	3571.6
2340.2	3295.8	4046.9	4032.8	3748.5	5797.4	3265.8	5000.1	3616.7	6228.2	3943.2
4493.1	6511.5	6926.1	7395.3	6469.1	7960.7	6549.6	7928.0	5874.8	8638.1	7600.2
1370.0	1378.1	2053.5	2001.3	1603.6	2322.1	1338.5	2585.9	1496.0	2940.4	1695.3
8449.6	8080.8	8062.2	8291.0	8133.6	9267.9	8448.9	9257.8	8366.5	9750.3	10719.7
10328.5	7084.1	7632.8	8479.0	9293.3	9182.4	7093.0	9660.4	9931.7	10020.5	7925.4
12633.5	6626.4	7213.0	7337.1	7602.7	9426.2	6378.6	8335.0	7424.7	11430.2	9831.2

4444.2	3561.2	3836.8
5120.5	4099.7	3069.7
7089.1	8001.0	6124.0
4375.8	3297.8	3372.3
7048.2	6736.5	5051.2
7569.3	8036.0	5163.7
10675.0	8640.5	6591.8
6486.4	8506.3	6381.6
9144.3	7459.5	5408.2
8569.7	7139.4	5236.1
8147.5	6713.1	3868.9
7375.4	7813.9	9095.0
5077.3	3743.8	3153.6
5976.2	6465.2	4994.5
9166.6	9253.4	7267.4
5892.4	5070.3	3925.2
6463.8	5285.6	3260.6
8020.3	8360.5	7277.9
10401.5	6418.1	3636.6
4803.9	3496.9	1824.5
4651.9	3636.4	2649.1
7890.5	4662.4	2867.0
8933.9	9236.8	6148.9
5443.6	3357.1	2089.8
9822.4	11886.0	10344.9
8624.7	7374.5	5382.5
8679.1	6245.9	4135.4
8114.1	5444.6	4846.6
9823.0	8499.3	7066.0
7150.8	4262.3	2087.0
8098.0	7945.1	6431.5
5639.8	5965.5	2758.3
4031.0	2659.2	2261.2
5425.0	5171.8	3206.7
3699.6	4642.8	3559.5
5990.9	4257.8	2827.3
8576.6	7983.6	6788.2
3231.8	1711.2	1409.1
9465.6	8606.6	7752.0
10420.5	7140.2	6444.7
9068.6	7933.6	5640.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1397
s__unclassified	1398
s__unclassified	1403
s__unclassified	1406
s__unclassified	1407
s__unclassified	141
s__unclassified	1411
s__unclassified	1416
s__unclassified	1422
s__unclassified	1423
s__unclassified	1424
s__unclassified	1427
s__unclassified	1428
s__unclassified	1429
s__unclassified	1431
s__unclassified	1435
s__unclassified	1440
s__unclassified	1444
s__unclassified	1446
s__unclassified	1449
s__unclassified	1455
s__unclassified	1459
s__unclassified	146
s__unclassified	1460
s__unclassified	1462
s__unclassified	1463
s__unclassified	1466
s__unclassified	1473
s__unclassified	1476
s__unclassified	1477
s__unclassified	1480
s__unclassified	1481
s__unclassified	1482
s__unclassified	1485
s__unclassified	1490
s__unclassified	1492
s__unclassified	1493
s__unclassified	1498
s__unclassified	1501
s__unclassified	1502
s__unclassified	1508

AY900172.1 gg_id:142249 Pseudomonas fluorescens str. PCL1753 AY900
FJ894122.1 gg_id:558498 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8941
EU434349.1 gg_id:260230 Pseudomonas fluorescens str. a258 EU4343
FJ894378.1 gg_id:556184 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8943
EU601175.1 gg_id:279245 Pseudomonas putida str. PBRs5 EU601
FJ892805.1 gg_id:572626 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p FJ8928
EF102852.1 gg_id:252507 Pseudomonas sp. str. G-229-23 EF1028
FJ605372.1 gg_id:451091 Pseudomonas plecoglossicida str. Fn-2 FJ6053
EU373377.1 gg_id:276371 Pseudomonas fluorescens str. HNR16 EU3733
EU652104.1 gg_id:274750 Pseudomonas sp. str. ybd-1 EU6521
EU540251.1 gg_id:285021 profile human microbiota antecubital fossa (inner elbow) skin clone nbt248a11 EU5402
EU536830.1 gg_id:286409 profile human microbiota antecubital fossa (inner elbow) skin clone nbt222d01 EU5368
EU539844.1 gg_id:283892 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106c05 EU5398
FJ422406.1 gg_id:360669 Pseudomonas fluorescens str. CB32 FJ4224
EU537106.1 gg_id:279854 profile human microbiota antecubital fossa (inner elbow) skin clone nbt220g07 EU5371
FJ894060.1 gg_id:561617 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8940
GU186116.1 gg_id:589957 Pseudomonas putida str. IHB B 1369 GU186
FN675869.1 gg_id:518676 Pseudomonas trivialis RE*1-1-14 FN6758
EU538939.1 gg_id:285340 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95f03 EU5389
EU360314.1 gg_id:261260 Pseudomonas fluorescens str. 2313 EU3603
FJ894338.1 gg_id:564449 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8943
GQ499333.1 gg_id:539966 Pseudomonas putida str. M1 GQ499
DQ087528.1 gg_id:128047 Pseudomonas putida str. PBM11 DQ087
FJ894369.1 gg_id:536140 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8943
AF320990.1 gg_id:37361 Pseudomonas tolaasii str. NCPPB 2325 AF3209
FJ893610.1 gg_id:549815 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT3; ear p FJ8936
NR_024909.1 gg_id:560291 Pseudomonas orientalis str. CFML 96-170; CIP 105540 NR_024
EU539533.1 gg_id:285381 profile human microbiota antecubital fossa (inner elbow) skin clone nbt241d02 EU5395
EU439425.1 gg_id:594417 Pseudomonas putida str. OK-St EU4394
FJ950631.1 gg_id:401370 Pseudomonas putida str. c255 FJ9506
EU434416.1 gg_id:264637 Pseudomonas fluorescens str. a1 EU4344
EU535748.1 gg_id:286344 profile human microbiota antecubital fossa (inner elbow) skin clone nbt10c12 EU5357
FM211694.1 gg_id:325970 Pseudomonas putida str. P9 FM211
FJ894346.1 gg_id:538400 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8943
EF102849.1 gg_id:241842 Pseudomonas putida str. G-4-14-1 EF1028
AF482685.1 gg_id:66956 Pseudomonas sp. str. NMX AF4826
AY785748.1 gg_id:108233 Pseudomonas fluorescens OUCZ118 AY7857
AB302402.1 gg_id:221292 Pseudomonas multiaromavorans str. C-18 AB3024
AY738626.1 gg_id:102117 Pseudomonas putida AY7386
FJ893958.1 gg_id:571781 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8939
EU540301.1 gg_id:283128 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114f12 EU5403

1036.6	1209.9	1945.1	1791.6	1759.7	2607.7	2500.1	2021.7	981.7	3770.3	1274.3
9752.3	5101.4	5548.7	5731.9	5650.7	6635.2	5840.8	5339.9	6217.2	7285.0	5929.5
1769.2	1927.4	2044.0	2184.4	2235.6	3051.8	1615.7	3334.7	1897.6	3533.5	2285.8
5421.1	4078.3	5079.8	5556.3	6087.8	6686.1	5250.7	6313.4	6648.0	9250.5	5515.8
133.1	3798.3	4391.5	4945.2	4976.2	6796.1	4011.8	4268.1	3242.2	7932.0	3064.1
3249.2	4422.4	3903.8	4261.4	3437.2	5556.0	3021.7	5914.5	4261.1	5810.9	5281.1
3762.6	3240.3	3431.0	5095.8	4847.0	4837.0	3625.7	5168.0	2463.4	5712.3	4211.5
875.3	2332.4	2980.2	3117.0	4368.0	5832.2	1812.6	2999.6	2058.8	5744.0	1864.6
932.5	2461.0	3432.9	3155.8	4319.5	4205.1	3068.0	3857.3	3092.6	4553.8	1489.0
3962.8	4587.7	5209.2	5447.2	5396.0	7085.9	4741.8	6767.7	4477.9	9013.3	5012.8
3203.8	3901.8	4266.5	4666.7	3014.2	5603.3	4198.2	6038.0	4314.3	7069.1	4814.1
3069.8	4375.6	4234.2	4720.7	4878.2	5527.6	4155.9	5692.8	3834.6	6791.9	4191.2
16861.0	7050.4	7526.1	7884.6	8498.0	11002.1	8229.3	7260.7	8990.7	8887.8	8380.9
957.6	4191.3	4926.2	5061.6	5198.6	6700.4	4557.5	6250.6	3737.2	5739.6	4578.9
4202.4	5005.6	4855.5	5279.2	4816.2	6248.9	4429.3	6658.2	3565.3	5962.9	3797.3
7079.9	9263.6	8134.3	8882.7	8805.6	9507.4	8321.4	8407.1	8862.2	9053.9	9295.0
3029.5	5812.7	6457.4	7367.8	8150.8	11466.6	4671.1	8338.3	5766.6	13114.1	6489.6
13411.4	6592.2	6965.9	7619.3	7161.4	8702.0	8101.7	7533.8	7486.0	9621.0	9177.4
1865.3	3264.4	3516.6	3829.7	4652.0	5055.3	4044.0	5366.1	2822.1	4557.8	2990.8
3826.0	3907.7	4659.2	4886.1	4465.4	5917.4	3897.2	5521.4	4457.8	7472.8	4585.5
683.3	2045.8	2275.9	2029.4	2231.3	3275.1	1945.6	2656.6	1515.5	3986.6	1931.6
1909.4	4116.8	4480.7	4937.8	5500.3	8490.8	4151.5	6166.4	4316.9	8261.8	3895.3
1855.4	6475.6	6826.0	7518.3	8493.2	10206.7	5076.0	9186.0	5546.6	11578.5	8826.6
13157.3	7438.5	6477.9	7123.5	6311.0	7686.3	7090.8	8406.3	7087.1	9730.0	7299.1
737.1	2078.3	2363.8	2492.7	2274.3	3995.0	1467.1	4344.0	1962.1	4096.7	3833.8
737.7	1331.8	1596.7	1859.8	1486.8	2236.7	1454.3	2724.8	1012.4	2247.9	1063.7
1630.8	1589.1	2289.7	2504.3	2041.6	3342.8	1162.0	3585.7	1977.6	3045.6	2031.0
570.3	4227.6	4890.1	4576.7	4612.3	5795.5	3407.6	7395.9	3615.6	5028.2	4325.8
3014.4	2322.0	2818.3	2657.7	3361.7	3943.7	2117.8	3394.5	2464.8	4250.1	2363.7
23294.3	9343.0	9356.2	10148.7	9270.2	9507.0	9939.4	9311.3	12007.8	11301.1	13754.1
6016.6	3491.3	3867.9	4409.3	4837.9	4725.8	4599.7	5636.9	3073.4	5461.1	3396.1
12210.4	7303.9	7213.6	7691.8	7956.3	8477.6	7533.9	7986.6	7852.5	9278.7	7684.4
5943.8	6116.7	7329.2	8089.8	8048.3	8612.6	7910.9	8092.1	8824.0	8691.7	8396.2
5429.9	8290.6	9978.1	9908.3	8555.7	9994.1	8548.1	11289.6	9608.2	11127.8	11546.2
2288.8	6299.0	6499.4	7472.0	7796.0	10024.7	5764.0	7597.0	5540.3	11318.1	7406.3
180.2	1754.1	2304.2	2547.5	2379.6	3657.0	2087.4	2736.6	1247.6	3045.5	1873.4
3566.1	1907.9	2369.9	2219.7	2431.3	3054.2	2655.8	2284.0	1516.1	4245.2	940.4
3085.1	2676.7	3733.3	3273.0	3167.1	4806.0	2116.3	4724.5	2500.3	5661.2	3168.7
889.8	3060.4	3659.0	3841.8	4825.9	7441.9	3281.6	5322.0	2610.9	8176.9	4214.9
4562.7	7178.4	6874.2	7243.9	7182.3	8613.5	7084.3	8478.9	8382.6	10315.4	9598.8
4700.6	7431.4	7967.8	8623.7	8233.3	9399.8	7605.4	7996.4	10594.9	10522.1	7384.0

2659.6	2169.2	1769.9
5746.7	6403.7	5407.5
3450.7	2988.6	1711.8
6091.4	6449.9	4564.9
7367.3	5137.7	2414.7
5823.3	6723.9	7619.2
4781.6	4400.1	3608.3
4364.0	2734.6	2989.9
5768.7	3961.5	2489.8
7187.1	6138.7	4375.0
5949.4	6944.2	5881.5
6339.3	6436.1	5570.5
7783.6	8134.0	7647.8
6028.9	5182.0	3340.7
6551.4	7507.7	7301.6
8951.2	8319.3	6370.3
11225.8	6811.7	4109.6
8752.8	8094.0	8304.3
5142.5	4956.5	5669.0
6607.8	5251.3	4064.4
4459.2	3126.4	1735.9
7186.9	5476.3	3317.1
10154.9	7846.7	5828.6
8375.4	8886.8	10457.0
4008.7	2794.0	2219.2
3205.3	2936.1	4348.4
3912.1	2476.5	1298.0
6298.8	6211.3	6934.7
3346.1	2933.0	1981.8
10176.1	10600.3	7945.7
5386.9	4531.0	3504.9
8233.0	8908.4	10412.3
8996.3	7365.2	5873.4
11389.8	10345.6	7990.9
9638.6	7145.1	5085.9
3302.3	2771.3	1232.8
2388.3	2798.6	3023.4
5704.1	4590.1	2498.8
6985.0	4968.8	3354.1
9130.1	7685.6	6170.7
8354.1	9410.7	6357.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	151
s__unclassified	1516
s__unclassified	1519
s__unclassified	1523
s__unclassified	1524
s__unclassified	1525
s__unclassified	1527
s__unclassified	1528
s__unclassified	1530
s__unclassified	1532
s__unclassified	1535
s__unclassified	1536
s__unclassified	1539
s__unclassified	1540
s__unclassified	1542
s__unclassified	1543
s__unclassified	1544
s__unclassified	1550
s__unclassified	1555
s__unclassified	1561
s__unclassified	1566
s__unclassified	1567
s__unclassified	157
s__unclassified	1571
s__unclassified	1572
s__unclassified	1573
s__unclassified	1579
s__unclassified	158
s__unclassified	1580
s__unclassified	1581
s__unclassified	1582
s__unclassified	1583
s__unclassified	1587
s__unclassified	1589
s__unclassified	1592
s__unclassified	1593
s__unclassified	160
s__unclassified	1600
s__unclassified	1604
s__unclassified	1606
s__unclassified	1610

EU535483.1 gg_id:284336 profile human microbiota antecubital fossa (inner elbow) skin clone nbt26a05 EU535
FJ950579.1 gg_id:402524 Pseudomonas putida str. c142 FJ9505
EU539837.1 gg_id:285008 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106a06 EU5398
EU540286.1 gg_id:279871 profile human microbiota antecubital fossa (inner elbow) skin clone nbt113h09 EU540
U81870.1 gg_id:8646 Pseudomonas sp. str. BI*7 U8187
AY303300.1 gg_id:129613 Pseudomonas sp. str. ps4-28 AY3033
EU537958.1 gg_id:282775 profile human microbiota antecubital fossa (inner elbow) skin clone nbt228a05 EU537
FJ894406.1 gg_id:573458 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8944
AF100322.1 gg_id:8680 Pseudomonas brassicacearum str. NFM421; CFBP 11874 AF1003
EU536400.1 gg_id:285545 profile human microbiota antecubital fossa (inner elbow) skin clone nbt213c12 EU536
DQ071557.1 gg_id:128217 Pseudomonas monteilii str. R1 DQ071
AJ889839.1 gg_id:113774 Pseudomonas avellanae str. ISF 2059 AJ8898
EU538917.1 gg_id:281421 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95b04 EU538
EU169164.1 gg_id:243916 Pseudomonas fluorescens str. B67 EU169
EU538578.1 gg_id:284694 profile human microbiota antecubital fossa (inner elbow) skin clone nbt232a06 EU538
EF645247.1 gg_id:238269 Pseudomonas plecoglossicida str. CGMCC 2093 EF6452
EU540085.1 gg_id:284259 profile human microbiota antecubital fossa (inner elbow) skin clone nbt245c01 EU540
FJ894690.1 gg_id:551928 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8946
EU536050.1 gg_id:285952 profile human microbiota antecubital fossa (inner elbow) skin clone nbt07g11 EU536
DQ318865.1 gg_id:156534 Pseudomonas syringae str. 8535 DQ318
EF489479.1 gg_id:226767 Pseudomonas plecoglossicida EF4894
FJ894423.1 gg_id:538102 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8944
EU434397.1 gg_id:276367 Pseudomonas fluorescens str. a311 EU4343
GU177878.1 gg_id:591085 Pseudomonas fluorescens str. FE1326 GU177
AF131104.1 gg_id:8590 Pseudomonas putida str. MTB5 AF131
EU539817.1 gg_id:285462 profile human microbiota antecubital fossa (inner elbow) skin clone nbt105d10 EU5398
DQ377742.1 gg_id:151735 Pseudomonas migulae PD 1 DQ377
EU538358.1 gg_id:280546 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87a03 EU5383
FJ895027.1 gg_id:573710 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8950
FJ893564.1 gg_id:549060 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT2; ear p FJ8935
EU535249.1 gg_id:280188 profile human microbiota antecubital fossa (inner elbow) skin clone nbt172g06 EU535
EU539660.1 gg_id:283327 profile human microbiota antecubital fossa (inner elbow) skin clone nbt243f12 EU539
EU434368.1 gg_id:276148 Pseudomonas lundensis str. a301 EU4343
DQ453709.1 gg_id:156806 Pseudomonas pv. savastanoi str. ITM-317 DQ453
EU539126.1 gg_id:279910 profile human microbiota antecubital fossa (inner elbow) skin clone nbt98f01 EU539
EF528261.1 gg_id:227324 Pseudomonas migulae AE2 EF5282
EU647701.1 gg_id:276918 Pseudomonas mandelii str. REG46 EU647
GQ502786.1 gg_id:582124 Pseudomonas putida str. xyz-zjut GQ502
DQ465009.2 gg_id:227277 Pseudomonas sp. str. VTT E-052906 DQ465
AY748893.1 gg_id:104631 Pseudomonas sp. N21.4 AY7488
EU169190.1 gg_id:245659 Pseudomonas tolaasii str. B35 EU169

4480.8	5624.8	6199.3	6338.2	5217.3	6828.9	5251.5	7282.9	4988.6	8385.6	5564.2
361.5	2113.1	3138.1	3144.8	2492.1	4769.0	1146.9	3894.9	2850.4	5576.2	1919.1
5228.4	6725.3	6891.2	7334.4	6829.6	7721.3	7123.3	8101.4	6528.9	8732.3	9164.7
1155.5	3804.2	4142.1	3879.1	4208.3	5661.7	3400.5	4241.6	3564.4	6356.1	3386.7
4494.3	5243.4	5465.6	5819.8	4944.9	5224.3	5630.0	4373.8	4829.7	5567.7	5249.3
2137.8	2684.6	3026.3	2654.6	3101.4	3933.0	2472.5	3750.4	2242.7	4965.7	2746.9
2792.8	2773.8	2981.0	3124.5	3198.6	3529.9	3029.8	3726.6	2472.4	4345.8	2938.6
4858.4	4766.9	4943.9	5786.3	5324.1	6558.8	5395.9	7435.4	4255.5	7853.4	4327.3
1317.3	1238.5	1999.7	1972.7	1878.4	2605.8	2587.3	1999.9	1348.5	3349.2	1019.5
2803.1	6590.6	6403.6	6727.3	6056.8	6153.3	6514.0	7613.5	7369.2	7781.1	5726.1
1563.8	3225.0	3514.0	3232.9	4774.6	5332.3	2048.5	3132.6	1776.2	4553.1	2197.6
1364.3	2519.4	3127.5	2913.7	3101.1	4141.2	2445.1	3294.0	2279.2	3901.3	2029.2
1852.2	4510.0	4592.8	5190.7	4963.6	6885.7	4010.9	6049.4	3894.1	7550.4	4376.3
4694.9	6353.6	7475.9	8341.2	6924.3	8790.3	7241.4	8711.6	7756.0	10406.2	9030.6
4299.9	7136.7	6845.1	7201.0	7141.1	8591.5	7032.2	7939.2	7790.1	10265.6	9555.1
602.4	3825.0	3776.3	3938.0	3497.3	4425.5	2010.7	6170.1	3819.5	3078.9	4234.6
3659.5	5424.0	5906.8	6988.7	5901.7	7570.0	5704.6	8299.5	5491.5	9128.4	6326.7
1299.3	2018.8	2628.1	2732.8	2476.6	3517.3	2499.2	2985.8	1781.1	4128.2	1664.1
10988.2	8558.4	8108.5	8774.2	8517.7	8460.1	8966.0	7797.3	12449.4	10980.8	10576.4
1532.2	2133.9	3050.5	2672.1	2482.3	4470.2	1723.9	3453.0	2340.7	4660.9	2261.6
8209.3	8775.5	8130.1	8760.1	9014.6	11452.8	6841.1	9618.5	9100.2	12568.7	12764.9
30850.2	10857.0	10615.5	11046.6	10135.0	10882.9	11171.2	9958.9	14805.7	13854.5	14839.1
4559.4	5632.9	6477.3	6395.6	6645.3	6666.7	5862.2	6963.5	5086.8	7016.1	7383.1
5248.6	7742.2	7171.9	8556.5	9597.7	8201.1	10548.0	6828.9	6857.5	7404.9	7100.7
2071.1	3323.4	3857.6	3923.2	4781.9	5271.4	3277.6	3791.3	3624.1	6678.7	5176.5
973.3	3993.9	3889.4	3521.1	3561.8	5244.9	2790.2	4958.8	2843.9	5017.8	4029.3
8414.9	3936.0	4401.0	4969.6	5633.1	4378.4	4516.8	6077.8	3710.0	4532.6	4467.6
27857.3	13391.6	11744.1	11709.1	10230.4	11668.3	10517.6	11533.9	12665.1	14059.3	16418.8
3938.8	5680.9	5017.0	5497.8	4714.5	6710.1	4940.9	6872.0	5413.9	6185.0	6027.1
1428.1	1867.3	2380.2	2723.6	2232.2	3013.9	2226.5	2654.4	1327.2	4016.4	1435.1
44941.5	10459.0	9811.0	10711.9	10357.9	11009.6	11202.5	11573.6	15412.6	13726.3	15818.4
1620.3	3299.8	3583.6	3968.6	4052.0	5041.2	3555.6	4424.7	3123.8	6007.6	2792.3
19416.0	6380.4	6588.0	6997.6	7151.7	8773.6	6210.0	6419.0	8822.6	9978.5	8174.3
3045.2	4117.0	4713.1	4760.5	4865.3	6809.1	3946.1	6502.8	4475.7	7460.4	5162.3
17953.3	8288.6	9754.8	10182.9	8886.9	9682.4	9153.6	10219.8	10096.3	11898.5	12438.3
1474.7	2032.5	2684.7	2408.1	2552.5	3839.9	2120.8	3796.9	2405.0	5802.5	3117.6
3396.5	6049.6	6781.0	7203.4	7039.0	8181.1	6382.3	8600.4	7327.8	9593.0	7573.7
2317.9	4611.5	4708.6	4908.7	5784.6	8092.1	3642.0	4655.3	3896.2	8634.8	5551.5
214.6	3259.9	3880.7	3244.1	4457.6	6012.8	2144.9	3707.9	1881.1	4684.3	3948.7
717.8	2293.4	2520.6	2796.1	2403.8	4085.3	1626.2	3365.5	1555.1	5697.3	2110.5
2238.6	4628.8	4888.7	5485.5	5354.5	7068.7	4557.2	6130.1	4021.5	8213.1	4369.4

7151.0	8498.2	8015.7
6017.0	4126.3	2352.4
8478.3	7933.0	6978.9
5433.5	3837.1	2301.5
4422.2	5796.9	4554.8
5502.3	3816.5	1887.6
4391.1	4055.4	3161.8
7101.8	8048.4	7427.3
2799.9	2132.3	1724.8
7136.2	8689.1	7954.3
4444.0	3897.0	4902.1
4213.0	3250.7	2083.8
6864.3	5930.4	4078.7
9256.6	9537.7	6925.4
9025.7	7238.0	5784.1
5114.7	3050.0	1779.2
8748.2	9192.4	7828.7
3804.9	3177.3	2525.0
8191.6	9689.6	8816.4
4409.9	3220.5	1643.4
10079.8	8912.3	7011.5
10122.8	12792.7	10741.2
7512.4	6354.9	5433.2
7438.4	7983.8	8463.6
5048.7	4301.0	3468.4
4564.3	4296.7	4060.7
6391.9	4650.5	3386.7
12470.0	12450.2	12160.6
6579.0	7573.6	9199.1
3590.5	2958.0	1795.7
10696.7	14070.4	13882.1
5323.0	4553.3	4125.1
8643.2	7874.8	5292.2
7035.8	4823.5	3417.3
8904.8	10753.1	7554.5
3279.6	3194.8	3426.1
9168.4	7093.9	5043.9
6815.5	6218.7	3725.2
5739.8	3274.3	1706.5
4104.1	3691.4	1812.3
7301.4	5887.3	4013.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1613
s__unclassified	1614
s__unclassified	1615
s__unclassified	1619
s__unclassified	1624
s__unclassified	1628
s__unclassified	163
s__unclassified	1631
s__unclassified	1633
s__unclassified	1638
s__unclassified	1640
s__unclassified	1642
s__unclassified	1643
s__unclassified	165
s__unclassified	1650
s__unclassified	1657
s__unclassified	166
s__unclassified	1660
s__unclassified	1662
s__unclassified	1664
s__unclassified	1665
s__unclassified	1667
s__unclassified	167
s__unclassified	1670
s__unclassified	1673
s__unclassified	1677
s__unclassified	1678
s__unclassified	168
s__unclassified	1681
s__unclassified	1682
s__unclassified	1686
s__unclassified	1691
s__unclassified	1692
s__unclassified	1695
s__unclassified	17
s__unclassified	1700
s__unclassified	1707
s__unclassified	1708
s__unclassified	171
s__unclassified	1712
s__unclassified	172

EU434396.1 gg_id:277610 Pseudomonas putida str. a317 EU4343
AM905940.1 gg_id:239559 Pseudomonas sp. str. Ri83 AM905
FJ894079.1 gg_id:536394 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8940
EU538394.1 gg_id:280069 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88g02 EU5383
FJ418774.1 gg_id:366431 Pseudomonas syringae pv. tomato str. 2 FJ4187
EU539823.1 gg_id:286118 profile human microbiota antecubital fossa (inner elbow) skin clone nbt105f04 EU5398
FM955865.1 gg_id:554111 Pseudomonas sp. str. Asd M4-6 FM955
EU434384.1 gg_id:269895 Pseudomonas fluorescens str. a95 EU4343
EU439421.1 gg_id:538528 Pseudomonas putida str. LH-S1 EU4394
DQ404013.1 gg_id:152693 Pseudomonas sp. P2 DQ404
EU539570.1 gg_id:283143 profile human microbiota antecubital fossa (inner elbow) skin clone nbt242b02 EU5395
EU537095.1 gg_id:285520 profile human microbiota antecubital fossa (inner elbow) skin clone nbt220e06 EU5370
DQ073452.1 gg_id:133085 Pseudomonas mosselii str. R10 DQ073
D84004.1 gg_id:8606 Pseudomonas oryzihabitans str. IAM1568 D84004
EU537178.1 gg_id:285666 profile human microbiota antecubital fossa (inner elbow) skin clone nbt67h12 EU5371
EU169158.1 gg_id:238186 Pseudomonas frederiksbergensis str. B62 EU1691
EU538923.1 gg_id:284541 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95c09 EU5389
DQ264492.1 gg_id:141127 universal microarray broader than typical library when sampling subsurface groundw DQ264
DQ112333.1 gg_id:136213 Pseudomonas putida str. RW-28 DQ112
AB334768.1 gg_id:238610 Pseudomonas veronii str. MPU43 AB3347
FJ893939.1 gg_id:554355 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8939
AM495258.1 gg_id:252526 Pseudomonas putida str. INBP1 AM495
DQ177468.1 gg_id:140357 Pseudomonas sp. str. Tibet-IIA21 DQ177
EU538277.1 gg_id:282428 profile human microbiota antecubital fossa (inner elbow) skin clone nbt84c03 EU5382
EU855189.1 gg_id:307393 Pseudomonas fulva str. CTSP6 EU8551
EU540081.1 gg_id:283910 profile human microbiota antecubital fossa (inner elbow) skin clone nbt245b09 EU5400
AJ132993.1 gg_id:46263 Pseudomonas putida #HR9 AJ1329
EU538386.1 gg_id:279796 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87h04 EU5383
EU538956.1 gg_id:285202 profile human microbiota antecubital fossa (inner elbow) skin clone nbt96a03 EU5389
FJ893421.1 gg_id:543846 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8934
DQ095909.1 gg_id:128213 Pseudomonas plecoglossicida str. S20 DQ095
EU162042.1 gg_id:243921 Pseudomonas sp. str. B2 EU1620
EU784140.1 gg_id:354316 Azotobacter sp. str. HY1141 EU7841
DQ314545.1 gg_id:149377 Pseudomonas sp. str. BWDY-41 DQ314
AY303255.1 gg_id:134368 Pseudomonas sp. str. ps10-14 AY3032
EU373390.1 gg_id:275232 Pseudomonas synxantha str. HNR22 EU3733
EU539911.1 gg_id:284759 profile human microbiota antecubital fossa (inner elbow) skin clone nbt107f10 EU5399
AY914075.1 gg_id:113352 Pseudomonas sp. R-9 AY9140
EU540114.1 gg_id:280008 profile human microbiota antecubital fossa (inner elbow) skin clone nbt245f04 EU5401
EU538552.1 gg_id:284463 profile human microbiota antecubital fossa (inner elbow) skin clone nbt231f09 EU5385
FJ893186.1 gg_id:533616 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM3; ear p FJ8931

19345.9	7246.5	7711.4	7944.1	7702.8	8657.0	7766.8	7887.0	9696.2	9366.1	9625.4
297.5	2064.3	2630.1	1682.4	2421.3	3573.8	1917.0	2289.8	1341.3	3147.5	3713.3
4873.3	7618.8	8003.1	8521.3	7546.8	8946.8	7943.8	8891.4	7386.2	10502.9	9360.7
32867.7	13213.0	10896.5	12236.3	10252.1	11726.1	11597.6	11320.3	16233.6	14814.2	18107.4
8959.1	3505.2	3722.8	3506.8	3947.0	3620.7	3260.1	3188.6	4342.9	4236.3	2707.5
2949.9	4890.5	5592.7	6082.4	5877.3	7328.5	5606.2	6789.4	5990.0	8101.8	5725.8
4897.2	6630.8	6784.3	7396.2	5602.4	7361.6	5310.6	7560.2	7044.8	10913.4	6534.4
951.2	2319.9	3023.0	2738.5	2282.1	3830.0	2137.4	4014.4	1974.4	5504.0	3276.9
1640.7	3419.8	4402.8	4205.6	4417.2	5803.5	2726.8	5147.2	3043.4	6466.0	4459.0
11608.5	6641.7	6587.0	6891.4	9630.6	8045.7	5664.5	5602.0	7174.6	9413.5	7107.8
1536.6	3000.6	3588.9	3892.6	2896.7	4559.5	2762.6	5718.3	2703.3	5792.4	3216.9
1320.5	3079.6	3723.4	3533.3	3134.6	4494.5	3051.8	4851.2	2354.8	5601.8	3500.5
2853.9	3461.5	4072.9	4738.4	3670.5	6050.0	2896.1	4784.5	3460.5	7331.4	4514.1
2344.1	3431.0	3915.6	4393.9	4880.4	5941.7	3747.8	4998.7	2477.1	7030.5	5171.4
28032.2	9602.8	9506.2	9925.7	8931.1	9837.3	9837.0	11222.8	11899.0	10519.1	10920.5
9674.4	5451.6	6366.1	6780.2	7736.6	6479.8	6420.9	6937.4	4522.5	6415.4	5085.7
4249.3	4768.6	4547.9	4768.0	4672.0	5893.2	3796.5	4841.3	5878.0	7015.5	5758.2
1624.1	1686.6	2050.8	2775.7	3076.1	3548.8	1536.3	2504.3	1162.9	6121.3	1353.7
2063.3	5188.9	5760.3	5930.0	6647.7	9493.7	3785.0	6737.3	3487.3	11946.5	7129.9
5302.0	5462.1	6290.1	6565.8	6099.7	7207.9	5540.7	7677.9	5838.9	8945.0	7111.2
1487.3	2223.3	2890.7	2838.9	2771.0	3779.4	2790.1	3018.6	2001.4	4029.3	1951.4
2276.4	7461.5	7039.4	7961.0	8400.4	11000.0	5668.5	9553.8	6219.3	13437.0	10256.8
2985.2	4356.3	5045.7	5578.3	5646.5	7672.7	4183.8	8131.6	4363.3	8775.6	5700.3
1948.4	3001.9	3943.3	4059.5	3953.3	5418.9	3208.0	4723.2	2961.5	6693.5	2589.9
1157.4	3651.4	4123.1	4480.7	5053.7	8859.5	3199.6	6618.3	2923.4	9364.9	4691.6
3069.7	3151.1	3192.5	3464.4	3094.3	4455.9	2856.7	4130.0	3253.0	4925.8	2863.2
1423.9	5765.4	5563.4	6206.6	6896.6	9822.8	3792.4	6108.4	3833.2	11680.0	6311.1
6946.7	8435.9	9053.4	9798.6	8544.6	9429.3	8345.3	8898.1	12251.8	9367.6	9739.8
657.3	2522.5	3566.0	3146.0	2109.5	4112.6	2046.4	6250.2	3809.4	3203.8	3852.9
2177.0	3944.6	4438.3	4287.3	4357.0	4950.5	4186.9	4535.8	4255.0	6125.2	4282.7
1356.3	5421.0	5875.1	6152.0	7340.0	10210.4	3763.3	7756.9	4320.5	11893.4	7603.2
1404.5	4780.1	5374.8	5561.9	4979.0	6405.5	4306.9	8225.1	4661.0	5291.7	6433.4
81.3	2356.9	1934.8	1838.7	1960.3	3040.7	775.0	2363.8	1039.0	1155.3	1338.2
260.4	3710.3	2986.1	3432.1	2806.0	4416.9	2344.7	3288.7	3801.0	1770.4	5582.9
12242.2	5139.5	4874.7	5269.4	5254.1	6026.4	4691.5	7304.5	6864.0	7791.8	6719.2
2006.7	4573.0	4929.9	5252.4	4799.4	6308.9	3957.2	5519.3	4491.4	6326.2	5330.5
6392.6	4756.8	4746.3	4458.4	4618.1	5672.5	4467.0	5775.6	5441.6	6466.1	4102.4
2506.3	5143.2	5019.7	4773.8	4032.6	5467.9	3567.6	5911.0	3325.9	4963.4	5408.0
1348.9	2687.8	2623.6	3327.6	2988.3	4502.6	2219.3	6056.0	1907.0	4213.3	2985.6
4543.5	7991.1	9254.1	8838.8	7978.6	9367.9	7531.1	10533.7	9568.2	11124.5	10620.4
8035.5	5143.8	4902.8	5116.5	4464.0	6018.3	4896.7	6178.4	6548.3	7352.6	6169.2

9087.3	9325.3	7756.9
3664.8	2546.3	1609.0
9457.9	8681.2	7215.9
11089.5	12920.7	14338.0
4204.5	4497.6	3212.6
7002.8	6619.7	6942.8
7409.7	7974.3	5441.3
3453.8	3839.1	2293.0
5712.9	5010.3	4808.4
7157.4	6475.1	5462.5
5958.3	6513.7	4935.2
4369.9	4657.9	5982.2
4927.3	4532.0	2998.1
5741.1	4580.7	2633.2
10281.7	12260.3	13227.9
8432.6	6632.0	5172.8
4600.0	5090.7	2552.3
4779.1	2578.4	1273.6
9020.9	6780.5	5124.9
8383.4	6348.2	4956.7
3366.6	3507.2	2579.2
10595.5	7766.8	4847.5
8305.2	5479.4	3624.0
5955.3	4837.6	2927.6
8597.7	5860.9	3349.2
4522.0	4991.3	5201.4
9184.7	6378.6	4355.8
9112.4	10775.0	9992.5
5786.4	3204.1	1305.8
4541.9	5100.6	4629.2
9626.8	5852.7	4684.8
7195.9	7019.9	4793.9
2739.6	1452.9	866.6
2851.8	3288.7	1377.1
7105.4	5959.8	5038.5
7219.1	4847.4	3544.3
5553.4	5905.2	5708.9
6227.1	5202.4	3652.8
5396.3	5753.6	7044.7
10443.2	9196.2	6151.8
5955.2	7943.1	8677.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1721
s__unclassified	1722
s__unclassified	1726
s__unclassified	1728
s__unclassified	1733
s__unclassified	1738
s__unclassified	1739
s__unclassified	174
s__unclassified	1741
s__unclassified	1742
s__unclassified	1743
s__unclassified	1744
s__unclassified	1747
s__unclassified	1748
s__unclassified	1749
s__unclassified	1750
s__unclassified	1751
s__unclassified	1755
s__unclassified	1756
s__unclassified	1760
s__unclassified	1763
s__unclassified	1765
s__unclassified	1769
s__unclassified	1772
s__unclassified	1773
s__unclassified	1774
s__unclassified	1775
s__unclassified	178
s__unclassified	1783
s__unclassified	1787
s__unclassified	1788
s__unclassified	1789
s__unclassified	1794
s__unclassified	1795
s__unclassified	1796
s__unclassified	1797
s__unclassified	1798
s__unclassified	1801
s__unclassified	1802
s__unclassified	1803
s__unclassified	1805

FJ607146.1 gg_id:508873 Pseudomonas syringae pv. cerasicola str. ICMP 13927	FJ6071
EU539816.1 gg_id:281090 profile human microbiota antecubital fossa (inner elbow) skin clone nbt105d08	EU5398
AF094730.1 gg_id:73624 Pseudomonas fluorescens str. ATCC 17573	AF0947
EU538185.1 gg_id:282597 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81g10	EU5381
FJ010624.1 gg_id:369190 Pseudomonas putida str. JD1	FJ0106
AY689050.1 gg_id:100645 Pseudomonas sp. str. 6C_10	AY6890
EU538184.1 gg_id:280930 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81g09	EU5381
AF332355.1 gg_id:25543 biostimulation process clone T12-4	AF3323
AB001446.1 gg_id:42258 Pseudomonas syringae pv. mori str. MAFF 302279 pv.	AB0014
EU537054.1 gg_id:285303 profile human microbiota antecubital fossa (inner elbow) skin clone nbt219g02	EU5370
FJ539000.1 gg_id:555737 Pseudomonas plecoglossicida str. PNP-Y8	FJ5390
EU540288.1 gg_id:281800 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114a07	EU5402
DQ455072.1 gg_id:156940 Pseudomonas monteilii str. VK58	DQ455
EU538335.1 gg_id:280356 profile human microbiota antecubital fossa (inner elbow) skin clone nbt84a04	EU5383
GU244412.1 gg_id:529178 Pseudomonas fulva str. 132	GU244
FJ787327.1 gg_id:567597 Pseudomonas fluorescens str. NPRs4	FJ7873
DQ536520.1 gg_id:160291 Pseudomonas trivialis str. BIHB 759	DQ536
FJ529916.1 gg_id:559003 Pseudomonas plecoglossicida str. PNP-F5	FJ5299
FM210032.1 gg_id:347743 Pseudomonas lini str. T1P26	FM210
EU540133.1 gg_id:285657 profile human microbiota antecubital fossa (inner elbow) skin clone nbt245h09	EU5401
EU586044.1 gg_id:271160 Pseudomonas mandelii str. REG45	EU5860
EU534917.1 gg_id:286166 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt21	EU5349
GQ368179.1 gg_id:577495 Pseudomonas koreensis str. JDM-2	GQ368
DQ313382.1 gg_id:180841 Pseudomonas putida str. PCL1759	DQ313
FJ577648.1 gg_id:541223 Pseudomonas putida str. CB2-1	FJ5776
FJ193643.1 gg_id:331315 Genetic inventory 'LMA-MTF' spacecraft assembly clean room during Phoenix missior	FJ1936
GU372963.1 gg_id:564991 Pseudomonas putida str. BA-2 D-2	GU372
EU537224.1 gg_id:282390 profile human microbiota antecubital fossa (inner elbow) skin clone nbt68h09	EU5372
AF511433.1 gg_id:65400 Pseudomonas fluorescens CCCO8	AF5114
GQ073242.1 gg_id:402914 Topographical and Temporal Human Skin Microbiome skin palm clone nbw206g04c1	GQ073
DQ095914.1 gg_id:136320 Pseudomonas mosselii	DQ095
EU537429.1 gg_id:282749 profile human microbiota antecubital fossa (inner elbow) skin clone nbt78c06	EU5374
AM689949.1 gg_id:223789 Pseudomonas sp. str. SPS-8	AM689
AB189452.1 gg_id:112760 Pseudomonas azotifigens str. 6H33b	AB1894
FJ892875.1 gg_id:564952 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p	FJ8928
GU198123.1 gg_id:579684 Pseudomonas fluorescens str. LMG 14673	GU198
EU111689.2 gg_id:511952 Pseudomonas migulae str. T8	EU1116
EU535172.1 gg_id:281864 profile human microbiota antecubital fossa (inner elbow) skin clone nbt171h04	EU5351
EU862561.1 gg_id:328338 Pseudomonas putida str. AB35	EU8625
EF031069.1 gg_id:225677 Pseudomonas putida CA16	EF0310
X95745.1 gg_id:8655 Pseudomonas avellanae str. P90	X95745

2245.7	3063.4	3971.2	4152.5	3859.7	5769.0	2402.9	5890.5	3440.6	6276.1	4729.7
5161.2	5363.3	5797.3	6648.3	5232.2	7567.0	5868.6	8430.8	6817.1	6790.5	7495.8
3235.4	4222.6	5187.4	5886.8	4904.8	6497.3	4596.4	7737.0	5101.5	7315.8	5155.8
5012.5	6536.6	5583.0	6199.4	5235.9	7199.1	5860.5	6611.3	6070.0	6764.0	6778.3
232.8	1471.2	2358.1	3221.8	3263.4	6319.8	1211.6	2595.2	974.0	7201.9	1082.8
5287.7	7188.2	7505.2	8489.7	8299.8	9996.8	7232.4	9703.7	7292.4	11837.8	9036.0
3750.9	4401.9	4561.7	5320.7	4756.9	6599.5	4648.6	6525.9	4007.3	7094.4	5102.6
211.7	2793.9	3041.2	3093.8	3206.5	3881.1	1750.3	4928.4	2755.6	2811.9	2558.3
2254.0	2959.1	3964.3	3643.0	3351.7	5159.5	2792.2	4323.9	3559.8	5349.0	2768.3
1665.1	6282.5	4512.8	5412.8	5064.6	6958.2	4647.9	6852.9	4328.1	6249.2	6002.1
2188.0	6009.2	6515.6	7143.6	7775.2	10335.4	5121.2	7166.2	4882.9	11858.5	7006.0
1733.8	4717.5	4571.5	4083.8	4460.1	5158.4	3871.9	4092.2	3961.6	4671.3	3478.3
30022.5	9703.1	9351.2	10669.3	10084.6	10253.1	10297.6	10388.0	13936.0	11953.2	12960.3
1904.3	2303.9	2881.3	3118.6	3047.4	3781.8	2978.4	3664.4	1858.5	3989.3	1918.8
794.6	3406.8	3851.8	4124.9	4879.2	8843.2	2744.3	5513.2	2210.3	9557.5	3635.0
3781.7	5448.4	5202.6	6033.6	5570.4	7634.9	4359.8	6020.4	5216.6	9736.3	7135.2
5224.2	3035.8	3732.7	3795.4	4107.8	3407.9	3379.6	4045.5	2346.6	3472.9	2860.8
136.0	2644.8	3130.3	3572.8	4248.3	6754.8	1711.7	3195.8	2289.2	7826.9	1320.4
3135.2	3655.1	4559.8	4249.3	3783.1	6444.7	3806.8	5554.6	2968.6	6837.2	4388.5
1429.0	2550.5	3007.4	3149.3	3103.6	3688.8	3463.1	4367.3	2207.6	3708.1	2742.0
2031.6	3664.9	4562.3	4690.5	4137.8	5189.8	3706.4	5423.7	3647.7	5798.4	3424.3
5417.3	5426.7	5617.7	6631.9	6674.9	6541.1	6754.1	8077.0	5895.3	10570.2	6550.0
1059.6	4505.1	5260.3	6094.6	6162.3	8714.6	3730.3	7229.8	5415.7	10059.5	5124.6
2001.9	2595.1	3214.1	3486.2	3360.4	4421.8	2390.9	3393.6	2343.5	5244.9	3878.9
326.5	2214.0	2682.0	2785.8	3931.6	5189.4	1952.6	2688.4	2747.7	5850.3	1776.2
887.4	1645.4	2228.3	2363.7	2338.7	3056.5	1373.7	1933.0	1948.3	2932.5	1839.6
7742.2	4675.8	4405.7	4572.1	4618.5	5557.1	4198.1	4318.6	6015.5	6991.6	4620.7
3416.7	5658.9	5917.9	6427.6	6057.0	7751.7	5210.3	6946.9	4920.8	8962.1	5847.7
4192.2	3603.1	4601.7	4260.2	4612.3	6731.4	3336.8	5604.1	4251.2	7580.2	4191.0
414.3	5678.1	6793.6	6682.7	7709.7	8314.9	4896.8	7204.9	4467.0	8432.3	5864.6
2851.6	4465.0	5156.8	6212.2	4574.3	7115.0	3578.1	6450.3	5765.6	9522.7	5234.6
4159.0	5658.7	5544.6	6388.8	7296.3	7066.2	6972.1	7054.5	5257.5	7669.6	7883.2
1459.1	3412.7	4828.1	4839.0	5126.0	5900.5	4177.7	6754.0	6332.7	4463.6	4535.7
1833.6	4439.8	4944.2	4867.4	4347.5	5801.0	5006.9	5768.5	4034.3	5334.5	5944.3
1284.1	4867.3	5274.3	5854.8	5230.2	6345.2	5581.5	5378.7	7635.4	6711.0	5415.7
1415.7	4446.7	5472.4	6734.2	5680.3	8609.2	5085.4	7987.5	5595.1	8035.6	5823.5
2466.3	4527.6	5279.7	5346.1	5236.6	6953.2	4148.5	8016.6	5454.2	8296.1	4649.8
5103.6	5874.4	6234.6	6411.2	6204.2	7089.9	5994.7	6342.0	7778.9	6976.2	7495.7
5537.8	4815.9	5305.8	5798.2	7093.6	6672.7	3563.1	5200.0	6082.1	6927.7	5568.5
761.0	3499.6	4020.5	4219.3	5440.8	8922.8	2760.0	5176.4	2357.4	9273.4	3533.9
1641.7	2624.6	3219.6	2895.4	3202.3	4195.0	2619.1	3339.1	2104.3	4073.8	2161.0

6263.5	4331.2	2817.7
8019.8	7517.8	8845.8
7924.6	6176.3	3952.5
6509.0	7740.7	8502.3
6540.5	3676.7	1315.3
11212.2	8288.5	6966.5
6792.0	7180.9	9678.7
4715.2	3490.7	2451.0
5630.9	3657.5	2511.9
6746.1	6471.8	6528.1
9607.3	6900.1	5501.6
5029.3	4757.4	2478.7
10648.2	10595.1	10066.5
4430.2	4117.4	3147.3
8270.4	5566.8	2943.0
7275.7	6345.0	4595.4
5269.2	3504.8	2390.5
6249.1	4450.8	2497.9
5869.7	4967.0	3522.1
4579.8	4251.2	4319.7
6339.6	4801.1	3295.9
8140.1	7279.6	6914.8
9400.7	5908.6	3233.9
4134.4	3525.8	2212.8
4632.6	2863.7	1681.2
3027.4	2703.0	1033.4
6836.9	6153.4	4557.8
7851.4	6890.2	4810.9
6469.7	6652.9	4521.6
8930.7	6549.0	4600.7
6347.5	5458.0	4121.3
6620.2	7285.3	7943.0
6698.3	4943.1	3545.9
5690.0	4676.5	3924.4
5951.6	6456.9	5258.7
9441.6	6478.7	4562.5
8103.0	4872.4	3464.5
6277.8	6957.6	7700.2
5894.5	5912.2	4331.6
8414.1	5827.2	3758.3
4243.7	3386.7	2211.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1807
s__unclassified	1809
s__unclassified	1811
s__unclassified	1813
s__unclassified	1814
s__unclassified	1815
s__unclassified	1818
s__unclassified	182
s__unclassified	1831
s__unclassified	1833
s__unclassified	1835
s__unclassified	1837
s__unclassified	1839
s__unclassified	184
s__unclassified	1840
s__unclassified	1842
s__unclassified	1844
s__unclassified	1845
s__unclassified	1846
s__unclassified	185
s__unclassified	1850
s__unclassified	1851
s__unclassified	1853
s__unclassified	1855
s__unclassified	1856
s__unclassified	1857
s__unclassified	1862
s__unclassified	1867
s__unclassified	1868
s__unclassified	1870
s__unclassified	1878
s__unclassified	1879
s__unclassified	188
s__unclassified	1881
s__unclassified	1882
s__unclassified	1884
s__unclassified	1886
s__unclassified	1887
s__unclassified	1890
s__unclassified	1891
s__unclassified	1892

AM411071.1 gg_id:186172 Pseudomonas fulva str. Z67zhy AM411
GU138382.1 gg_id:589341 Pseudomonas sp. str. THG 32 GU138
FJ894845.1 gg_id:561762 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8948
EU434358.1 gg_id:271891 Pseudomonas libanensis str. a110 EU4343
FJ894768.1 gg_id:546879 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8947
D88521.1 gg_id:8531 Agrobacterium agile str. IAM12615 D8852
DQ482656.1 gg_id:158174 Pseudomonas putida str. Dsp-1 DQ482
FJ894373.1 gg_id:558838 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pı FJ8943
DQ482655.1 gg_id:158425 Pseudomonas putida str. Dsp-3 DQ482
AJ583090.1 gg_id:94698 Pseudomonas fluorescens str. 62e AJ5830
EU538021.1 gg_id:283538 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225a09 EU538
AY581137.1 gg_id:102527 Pseudomonas fluorescens B15 AY581
AY242068.1 gg_id:102312 Pseudomonas pv. syringae str. FG11 AY242
EF526503.1 gg_id:218860 Pseudomonas putida str. NAPC3 EF5265
AY730552.1 gg_id:105687 Pseudomonas fluorescens str. VH060479 AY7305
AJ308311.1 gg_id:21401 Pseudomonas putida str. Biotype ICMP 13629; ATCC 17392 AJ3083
GU136489.1 gg_id:559336 Pseudomonas sp. str. DY1 GU136
EU538936.1 gg_id:280552 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95e08 EU5389
AF170731.1 gg_id:8771 Pseudomonas sp. str. QSSC1-9 AF1707
FJ950635.1 gg_id:419521 Pseudomonas putida str. c315 FJ9506
FJ894174.1 gg_id:568497 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pı FJ8941
FJ894365.1 gg_id:561847 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pı FJ8943
EU537979.1 gg_id:283040 profile human microbiota antecubital fossa (inner elbow) skin clone nbt228d04 EU5379
FJ894967.1 gg_id:544031 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8949
DQ232737.1 gg_id:144324 Pseudomonas marginalis str. JH8 DQ232
EU534713.1 gg_id:285416 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt18 EU5347
EU022591.1 gg_id:322456 Pseudomonas putida str. KBL2RM2 EU0225
FJ893927.1 gg_id:540978 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pı FJ8939
EU539515.1 gg_id:283300 profile human microbiota antecubital fossa (inner elbow) skin clone nbt104e09 EU5395
AY303303.1 gg_id:131515 Pseudomonas sp. str. ps4-34 AY3033
FJ894815.1 gg_id:540259 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8948
EU540308.1 gg_id:284991 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114h10 EU5403
EU539830.1 gg_id:287180 profile human microbiota antecubital fossa (inner elbow) skin clone nbt105g10 EU5398
GU186122.1 gg_id:558279 Pseudomonas mandelii str. IHB B 1384 GU186
AY267197.1 gg_id:107228 Pseudomonas fluorescens str. SK1 AY2671
EU538366.1 gg_id:282513 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87f02 EU5383
EU169162.1 gg_id:254921 Pseudomonas fluorescens str. B59 EU1691
AY450557.1 gg_id:108449 Pseudomonas putida str. Q AY4505
EU538477.1 gg_id:283326 profile human microbiota antecubital fossa (inner elbow) skin clone nbt230d10 EU5384
EU538265.1 gg_id:286824 profile human microbiota antecubital fossa (inner elbow) skin clone nbt84a09 EU5382
DQ232743.1 gg_id:144114 Pseudomonas marginalis str. JH15 DQ232

1003.3	3400.8	4004.9	4781.3	5186.3	8762.2	3115.8	4685.2	2581.0	9126.7	3254.6
1182.0	5001.2	5650.9	5511.1	5120.0	5955.5	4272.3	6153.0	3356.4	5935.3	5269.0
15372.5	6575.2	6450.8	7349.3	6225.6	6747.6	6716.2	6648.6	7230.8	8158.4	9259.1
5019.8	5207.3	5253.5	5795.1	6010.7	6372.9	4777.9	7110.3	3870.5	7140.7	6162.5
3342.5	3739.8	3780.1	4027.3	4106.1	5238.9	3704.7	5746.4	2537.3	5125.7	3608.8
1023.1	1180.6	1925.0	1961.1	1474.5	2609.8	1213.3	2929.2	1318.6	2937.6	1158.7
1071.3	5340.1	4910.3	5807.3	6532.9	8313.5	3458.2	6377.5	5041.6	9399.6	5674.8
4858.7	7399.2	8138.7	8407.9	7709.6	9201.9	7131.0	8263.9	6315.0	10841.3	7879.6
25465.5	7007.4	6719.5	7307.8	7531.8	8710.3	7598.9	6266.6	10488.7	11471.2	10393.3
510.2	1680.8	2112.5	1692.8	1807.7	2842.1	1924.3	2618.3	1386.7	4225.6	1657.8
11841.9	4990.9	5379.9	5576.6	5232.7	5931.4	5024.1	5325.4	5368.7	8007.4	4966.7
2116.6	2748.1	3383.9	3514.5	4167.1	3152.5	2816.4	3871.9	2554.9	3736.0	2138.4
2529.2	4147.3	5054.8	5214.1	5091.3	7629.3	3867.2	6098.2	4740.2	7903.2	4354.9
1474.0	4633.5	5127.5	5865.0	6079.3	8668.8	4007.8	7767.5	4101.4	10351.0	6862.3
4360.9	3407.2	3708.7	4122.8	4322.1	5177.2	4356.9	4883.0	4096.7	5269.2	3539.4
2135.3	3603.2	4051.1	4586.2	4342.3	5785.8	3057.4	4749.5	4150.8	6861.2	5537.5
29391.8	9445.8	9228.7	10225.4	11688.3	11543.4	9683.9	8871.3	12052.1	14977.9	10803.1
9218.6	5515.2	5218.4	6058.6	5466.9	6913.8	5922.1	7515.9	6387.6	8057.3	6944.3
846.7	1389.2	1488.0	1684.1	1725.8	3051.7	949.3	1912.4	720.7	3555.2	519.5
428.7	2304.8	2327.5	2642.2	2447.5	3324.8	2569.1	2999.8	1271.8	1879.6	1989.1
2140.9	4523.7	5226.6	5935.3	5539.9	6984.9	5503.5	6238.6	5150.2	10227.5	3864.4
7119.0	2848.9	4515.4	4759.9	4890.4	4965.1	4614.8	4596.0	6601.5	6411.4	6450.8
19808.9	6447.0	6550.9	6424.4	5596.4	6154.4	6315.5	6854.4	8279.4	7802.2	7723.7
9766.5	6245.9	6388.2	7057.0	6294.2	7613.1	6948.2	7172.8	6753.2	8075.0	6544.4
369.8	1981.6	2247.9	2322.8	2333.3	3286.8	1738.9	3426.7	1594.9	4734.5	2433.2
348.8	441.1	541.3	537.6	585.8	1013.3	483.7	1216.3	444.0	1039.9	556.4
653.4	3965.1	4570.4	4543.6	5733.6	7556.0	3333.3	7099.9	3467.4	7380.8	5305.9
4311.2	6619.6	6835.8	7601.8	6529.8	8008.8	6922.0	8115.7	6996.0	10764.0	8209.0
411.7	1929.4	2334.5	2276.4	2651.5	2772.4	2965.9	2836.1	1315.9	1741.7	1419.0
2890.5	3203.0	3611.0	3736.1	3959.1	4850.4	2793.8	4979.9	3264.0	6157.2	3693.0
1074.4	5282.7	4460.7	4080.6	3598.4	5657.2	3093.1	4111.1	3560.0	4130.4	2712.1
4970.1	4514.2	4530.9	5055.3	4405.7	6100.4	4867.8	5586.8	3692.8	7100.9	4196.5
2352.3	2989.0	3999.8	4271.5	4170.0	5197.5	3993.4	4835.3	5124.1	6759.0	3209.5
4147.6	5703.8	4402.7	4964.8	4952.4	5169.3	4025.8	5342.0	4514.3	5226.0	6316.8
4960.7	4012.6	4660.1	4882.0	5233.5	5203.3	4246.4	5646.9	3032.4	5424.9	4650.0
20829.0	9322.7	9604.7	9866.4	9142.8	10042.6	9344.7	8857.1	13442.6	11153.4	11953.0
555.4	4748.1	5638.0	6629.7	6262.4	8503.2	5376.7	6646.8	5470.6	11352.2	5876.0
2984.3	2845.2	3028.5	3253.8	3549.7	4452.0	2691.6	4230.0	2192.2	5370.6	2495.8
2351.7	4029.6	4715.7	5048.3	5717.3	6423.0	5393.3	5399.4	3422.7	7458.1	2813.4
6243.7	8221.7	8390.6	9106.7	8156.1	9286.2	8849.1	8858.3	12107.6	10188.8	9333.0
4436.7	3056.7	3597.6	4083.8	4240.0	4222.8	3321.1	4892.2	2211.1	3743.2	3112.6

8372.9	5285.8	3224.0
6175.3	6337.2	5341.1
7021.7	8134.3	8116.5
8091.6	5899.5	4342.1
5400.1	6482.2	5889.1
3074.1	2773.1	1327.6
7856.6	5142.2	3763.5
9963.8	8193.5	6932.1
7739.3	9080.0	6784.5
2984.4	2608.7	2322.9
5947.7	6930.1	4183.5
5261.5	3145.8	2040.7
7782.4	5255.5	3363.4
8613.4	5839.6	4194.3
5111.6	5883.2	5026.3
5404.4	4695.4	2998.4
10544.7	8549.7	7826.3
7416.1	8125.2	10580.0
3698.0	2353.2	1014.1
3278.7	3331.4	3472.8
6927.5	7028.9	6445.8
5107.7	5676.5	3960.1
7418.9	8524.8	7504.2
7429.0	7930.1	7129.6
3625.3	3620.8	1741.3
1118.0	1194.3	512.8
6736.9	5669.3	4268.0
8862.2	8332.1	6371.1
2822.1	2394.5	1769.2
6667.9	4690.5	2637.2
5109.5	4960.3	3846.3
6062.1	6638.5	5785.7
5273.6	5071.5	4224.9
5203.4	4794.0	3635.9
6710.3	5177.4	3502.2
9309.8	10558.8	8251.3
8428.2	6775.1	5048.5
4873.5	4628.2	2700.6
6822.5	6105.2	6009.0
8821.1	10401.1	9717.1
5531.6	4612.0	4528.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1895
s__unclassified	1898
s__unclassified	19
s__unclassified	190
s__unclassified	1902
s__unclassified	1904
s__unclassified	1905
s__unclassified	1906
s__unclassified	191
s__unclassified	1912
s__unclassified	1916
s__unclassified	1918
s__unclassified	1922
s__unclassified	1923
s__unclassified	1924
s__unclassified	1926
s__unclassified	1928
s__unclassified	193
s__unclassified	1930
s__unclassified	1937
s__unclassified	1938
s__unclassified	1939
s__unclassified	1943
s__unclassified	1944
s__unclassified	1946
s__unclassified	1948
s__unclassified	1949
s__unclassified	195
s__unclassified	1958
s__unclassified	196
s__unclassified	1960
s__unclassified	1965
s__unclassified	1969
s__unclassified	197
s__unclassified	1971
s__unclassified	1972
s__unclassified	1973
s__unclassified	1974
s__unclassified	1979
s__unclassified	1980
s__unclassified	1983

AJ308304.1 gg_id:24702 Pseudomonas fluorescens str. Biotype B ICMP 13619; ATCC 17428 AJ3083
GQ258636.1 gg_id:541859 Pseudomonas sp. SR3(2009) str. SR3 GQ258
FJ892762.1 gg_id:553469 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p FJ8927
EU539376.1 gg_id:285962 profile human microbiota antecubital fossa (inner elbow) skin clone nbt237h04 EU5393
EU169163.1 gg_id:238574 Pseudomonas fluorescens str. B69 EU1691
EU535707.1 gg_id:281570 profile human microbiota antecubital fossa (inner elbow) skin clone nbt09h04 EU5357
DQ377749.1 gg_id:153662 Pseudomonas mandelii PD 8 DQ377
DQ338570.1 gg_id:146088 Pseudomonas putida str. B0 DQ338
DQ659141.1 gg_id:171377 Pseudomonas putida str. L21 DQ659
EU434460.1 gg_id:258724 Pseudomonas putida str. a235 EU4344
AB175652.1 gg_id:168428 Azomonas agilis str. NCIB 11693 AB1756
EU536367.1 gg_id:283644 profile human microbiota antecubital fossa (inner elbow) skin clone nbt62c04 EU5363
EU221415.1 gg_id:246429 Pseudomonas thivervalensis str. L2S4 EU2214
AY303310.1 gg_id:134447 Pseudomonas sp. str. ps6-14 AY3033
EU538470.1 gg_id:286942 profile human microbiota antecubital fossa (inner elbow) skin clone nbt230c08 EU5384
FJ184353.1 gg_id:318906 structure and physiology pyrene-degrading consortia growing biofilms model trickle c FJ1843
EU143350.1 gg_id:248196 Pseudomonas sp. J10(2007) str. J10 EU1433
EU538023.1 gg_id:284720 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225a11 EU5380
FJ894566.1 gg_id:569821 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8945
EU539344.1 gg_id:285493 profile human microbiota antecubital fossa (inner elbow) skin clone nbt237c03 EU5393
AF131103.1 gg_id:8589 Pseudomonas putida str. MTB6 AF1311
EU540027.1 gg_id:286084 profile human microbiota antecubital fossa (inner elbow) skin clone nbt111h08 EU5400
EU661864.1 gg_id:282250 Pseudomonas putida str. AS04 EU6618
EU037280.1 gg_id:252326 Pseudomonas sp. G3DM-33 EU0372
FM209481.1 gg_id:325760 Pseudomonas jessenii str. T2P28 FM209
EU539345.1 gg_id:284699 profile human microbiota antecubital fossa (inner elbow) skin clone nbt237c04 EU5393
GU198111.1 gg_id:590944 Pseudomonas fluorescens str. LMG 5833 GU198
NZ_ACXS01000064.1 gg_id:516354 Pseudomonas syringae pv. aesculi str. NCPPB3681 NZ_AC
FJ982922.1 gg_id:468384 Pseudomonas putida str. ST13 FJ9829
AY622256.1 gg_id:103728 subsurface soil clone B-AU68 AY6222
EF101982.1 gg_id:181819 Pseudomonas putida str. MRP03 EF1019
EU414476.1 gg_id:270637 Pseudomonas gingeri str. SDLi-1 EU4144
AF105390.1 gg_id:8640 Pseudomonas syringae 010297 AF1053
EU534446.1 gg_id:281265 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt17 EU5344
EU921228.1 gg_id:325449 Pseudomonas mosselii str. BM-F1 EU9212
AM111041.1 gg_id:140863 Pseudomonas sp. str. 7052 AM111
AB021397.1 gg_id:8571 Pseudomonas asplenii str. ATCC 23835T AB0213
U81871.1 gg_id:8619 Pseudomonas sp. str. BI*8 U81871
EU540265.1 gg_id:287024 profile human microbiota antecubital fossa (inner elbow) skin clone nbt113b08 EU5402
EF208895.1 gg_id:201648 Pseudomonas putida str. N6 EF2088
AY772474.1 gg_id:108548 Pseudomonas putida str. NA-1 AY7724

1622.6	3377.1	3730.4	4260.4	3754.1	5846.0	2930.4	7219.4	3751.4	6064.1	5026.8
1532.1	3421.2	3394.6	3862.7	3580.4	5561.6	2784.0	4541.9	3315.8	6265.1	3569.6
13054.9	7309.1	7035.3	8025.2	7377.7	8770.8	8401.1	7833.0	8114.0	10077.8	7629.4
23239.0	6550.2	6387.0	7075.1	6385.0	7572.4	6686.4	7126.2	8015.2	8180.0	8632.1
2145.7	4186.3	4290.6	4777.1	4201.9	5874.7	3880.2	6647.6	4467.4	5972.0	6154.5
1170.0	2852.2	2443.1	2516.5	2366.2	3055.1	2566.9	3116.3	2098.8	2654.9	3335.5
9477.6	4520.2	5291.1	5732.2	6676.2	5739.6	5299.5	6044.6	3645.4	5163.6	4041.7
4568.1	4993.5	5984.5	6646.7	5909.5	8250.4	4838.1	6638.1	5736.6	9419.3	5142.8
1468.9	1728.7	1836.6	2549.6	2912.3	3909.0	2530.4	2258.6	1073.7	3726.8	1926.3
1165.7	1790.8	2641.2	2652.4	2012.2	3697.3	1509.4	2629.0	1601.2	4425.2	936.8
185.3	2894.6	3269.9	3732.3	4591.8	3688.2	4233.1	4438.6	1332.5	2407.1	3520.1
3143.4	3856.2	4583.9	4991.1	4835.6	6350.3	4154.3	5821.2	3887.4	7808.7	3489.4
1660.9	1786.5	2326.5	2484.6	2324.5	2991.8	2903.5	3166.6	1884.0	3347.1	2035.9
404.2	1598.7	1728.2	1765.3	1947.1	3829.1	978.1	3298.6	1096.7	4049.4	1778.4
2407.7	3448.3	3484.1	3974.5	3489.4	4703.1	3628.4	5778.6	2302.2	4761.0	3527.7
1265.3	4027.3	3736.6	3815.1	4278.1	6110.9	3797.2	4509.5	2201.0	9297.0	2618.8
216.1	3667.7	3989.5	4305.6	4092.1	5778.6	2243.4	5175.0	2354.5	5098.4	3487.8
2207.0	5313.8	5544.0	5960.2	5133.5	7041.3	4856.9	6813.8	4117.0	7913.9	6250.8
8049.2	5096.2	5349.9	6375.3	5618.8	6721.1	5160.3	7403.9	4736.5	7604.6	5240.2
4936.3	5138.7	5290.1	5765.7	5534.0	6090.9	5845.0	6023.6	6635.5	6430.3	4996.7
2940.0	3072.6	2535.6	2661.5	3012.4	4244.7	2606.6	2148.1	1858.9	3473.3	1721.8
32670.8	8175.3	7596.6	8291.0	7125.8	8648.9	7880.4	9538.0	11910.4	10851.5	9736.0
967.3	1374.0	1344.2	1581.1	1808.1	2948.3	1342.2	3579.2	1145.4	2539.2	2065.4
370.7	2772.7	3361.6	3667.4	3766.9	4975.9	2353.0	3594.2	1531.7	4874.5	3984.3
10995.5	8476.1	9294.6	8667.7	10007.8	9892.6	7843.7	8430.2	8924.4	11474.9	10711.8
1295.2	5555.9	4678.9	4312.9	4573.2	5541.4	3528.3	4785.0	4930.3	4634.8	3991.0
3751.0	4279.4	4980.2	5346.1	5057.0	6039.6	4283.2	6485.9	4616.4	6977.2	4881.6
2322.2	3806.0	4559.5	4501.7	4486.0	6353.2	3581.4	5812.0	4314.4	7012.3	4418.4
409.1	3071.2	3948.6	4322.3	5349.8	9135.2	2451.8	4977.6	2499.5	10025.9	3613.0
3323.7	3011.1	3309.2	4200.6	6968.6	4307.8	3541.4	4388.2	2567.6	1556.9	2163.1
22236.9	11782.4	12137.4	14612.3	14427.8	12764.3	14224.6	12388.6	15054.1	15765.0	15989.3
178.1	2078.1	2813.0	3015.5	3697.7	4056.2	2331.9	2444.3	1863.4	4425.0	2017.4
14458.9	5471.9	6301.5	6556.6	4637.9	5810.8	5786.1	5502.9	7215.4	7493.7	8120.6
1677.1	6494.0	5850.8	5245.1	6027.1	6010.8	7452.7	4292.0	6888.9	6758.4	3556.5
1724.4	5020.2	6046.7	5824.1	7382.7	9831.7	3878.2	6319.5	4149.5	11138.0	5159.1
1174.8	1763.5	1599.3	1912.5	1127.4	2073.2	804.2	2642.4	1639.6	2577.4	1529.9
3960.0	5752.2	6477.4	7009.8	6309.9	9267.4	5065.2	10160.2	5110.4	8916.7	7608.9
2614.7	5784.8	5615.0	5614.6	6134.7	6650.2	5607.1	5756.9	5542.6	6836.7	5480.6
4376.9	5427.9	4886.4	6006.6	6405.5	6983.6	4826.7	5654.1	5229.0	9025.0	4554.8
362.6	3713.2	4190.6	4579.9	7141.6	8394.5	2212.3	4009.5	1633.1	8802.0	2723.2
655.3	2821.5	2985.5	3600.9	5076.7	6797.0	1511.2	3634.3	1690.4	6060.6	2233.2

6316.1	4690.4	3443.2
6409.8	4069.6	2455.9
8438.3	8918.2	8585.5
7189.0	8701.4	8102.4
6895.8	5791.3	5650.8
2576.6	3434.3	2722.2
7231.0	5567.1	4047.6
9495.0	6658.1	4489.3
5141.1	2852.2	1554.5
5407.4	3897.0	1127.4
4022.6	3307.5	3065.1
6591.6	5691.9	3946.0
2761.8	3059.9	2471.7
3591.7	2418.5	786.3
5815.1	6259.6	5877.6
6775.6	4372.5	4383.3
7487.1	3950.3	1899.0
7410.3	6325.3	5134.0
7029.5	8061.8	7627.9
5928.2	6185.1	5515.4
3378.2	3050.7	1779.5
8800.6	11209.6	10454.1
2788.5	3160.6	1529.6
5335.2	3690.4	2317.8
10725.5	8453.6	6995.2
5237.8	5544.7	4152.2
6945.9	5320.1	3287.4
6707.6	4525.2	2805.7
8273.6	4927.9	2558.5
3623.5	3335.9	2360.0
13288.0	12962.3	13264.0
3144.7	2240.1	2058.5
6124.5	6853.1	5341.6
5932.2	6037.4	4637.0
8641.1	5565.5	5147.5
2337.5	2628.2	1638.7
9624.4	8419.9	9211.9
5781.3	6095.7	4759.9
7588.5	6329.3	3957.1
7165.9	4594.0	4342.2
5568.9	3495.0	2502.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	1987
s__unclassified	1988
s__unclassified	1990
s__unclassified	1992
s__unclassified	1993
s__unclassified	1995
s__unclassified	2
s__unclassified	200
s__unclassified	2000
s__unclassified	2002
s__unclassified	2003
s__unclassified	2009
s__unclassified	2013
s__unclassified	2016
s__unclassified	2017
s__unclassified	2019
s__unclassified	2023
s__unclassified	2025
s__unclassified	2027
s__unclassified	2030
s__unclassified	2034
s__unclassified	2038
s__unclassified	2040
s__unclassified	2041
s__unclassified	2044
s__unclassified	2047
s__unclassified	2051
s__unclassified	2056
s__unclassified	2057
s__unclassified	2058
s__unclassified	206
s__unclassified	2063
s__unclassified	2064
s__unclassified	2066
s__unclassified	2067
s__unclassified	2070
s__unclassified	2071
s__unclassified	2072
s__unclassified	2074
s__unclassified	2078
s__unclassified	2080

EU538970.1 gg_id:282477 profile human microbiota antecubital fossa (inner elbow) skin clone nbt96c03 EU538
GQ900589.1 gg_id:573886 Pseudomonas fluorescens str. PFD11 GQ900
EU537846.1 gg_id:282839 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225b08 EU537
EU708323.1 gg_id:332433 Pseudomonas fluorescens str. KDK8 EU708
FJ893314.1 gg_id:558000 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8933
EU540613.1 gg_id:282117 profile human microbiota antecubital fossa (inner elbow) skin clone nbt120f10 EU540
AM111035.1 gg_id:140925 Pseudomonas sp. str. 7039 AM111
Z76652.1 gg_id:8784 Pseudomonas agarici str. LMG 2112T () Z76652
EU536980.1 gg_id:283484 profile human microbiota antecubital fossa (inner elbow) skin clone nbt218b02 EU536
DQ916132.1 gg_id:197450 Pseudomonas fluorescens str. Mst8.2 DQ916
AB302395.1 gg_id:221239 Pseudomonas metavorans str. F-1 AB302
AY770691.1 gg_id:108393 Pseudomonas sp. str. FR1439 AY770
FJ894581.1 gg_id:543698 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8945
DQ095882.1 gg_id:128167 Pseudomonas plecoglossicida str. R18 DQ095
FJ393302.1 gg_id:358881 Pseudomonas plecoglossicida str. TCCC11291 FJ3933
EU538458.1 gg_id:285690 profile human microbiota antecubital fossa (inner elbow) skin clone nbt230a11 EU538
GU391451.1 gg_id:539092 Pseudomonas sp. str. Gd3F GU391
FM163468.1 gg_id:336095 Pseudomonas putida str. R20 FM163
EU540073.1 gg_id:282714 profile human microbiota antecubital fossa (inner elbow) skin clone nbt245a09 EU540
EU537170.1 gg_id:280032 profile human microbiota antecubital fossa (inner elbow) skin clone nbt67g04 EU537
EU540309.1 gg_id:286020 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114h11 EU540
AF291818.2 gg_id:64506 Pseudomonas andersonii str. JB413844 AF2918
NR_029050.1 gg_id:588905 Pseudomonas palleroniana str. CFBP 4389 NR_02
EU538927.1 gg_id:286420 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95d04 EU538
EU538035.1 gg_id:285467 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225c07 EU538
GQ153646.1 gg_id:557138 Pseudomonas sp. str. ANT-2400 S10 GQ153
EU538345.1 gg_id:284600 profile human microbiota antecubital fossa (inner elbow) skin clone nbt84e01 EU538
GU059580.1 gg_id:514857 Pseudomonas fluorescens str. 1206 GU059
EU539619.1 gg_id:286023 profile human microbiota antecubital fossa (inner elbow) skin clone nbt242g08 EU539
AF320991.1 gg_id:21815 Pseudomonas gingeri str. NCPPB 3147 AF320
EU538170.1 gg_id:281603 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81c12 EU538
EU537893.1 gg_id:286152 profile human microbiota antecubital fossa (inner elbow) skin clone nbt226g10 EU537
EU538166.1 gg_id:286284 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81c07 EU538
EU535097.1 gg_id:282669 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt18 EU535
FM202487.1 gg_id:344499 Pseudomonas tolaasii str. IEXb FM202
FJ893683.1 gg_id:549927 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT3; ear p FJ8936
EU538981.1 gg_id:283406 profile human microbiota antecubital fossa (inner elbow) skin clone nbt97f11 EU538
EU539231.1 gg_id:286159 profile human microbiota antecubital fossa (inner elbow) skin clone nbt101f10 EU539
AF326379.1 gg_id:41675 Pseudomonas syringae AF326
EU537885.1 gg_id:284937 profile human microbiota antecubital fossa (inner elbow) skin clone nbt226d10 EU537
FJ824120.1 gg_id:565263 Pseudomonas oryzihabitans str. KCB005 FJ8241

2402.5	3244.7	4399.0	4547.9	4508.2	5810.8	4016.5	6071.6	6178.8	7884.2	2990.7
2385.3	4680.2	5934.3	6547.3	6952.2	9017.1	4616.1	5460.9	4246.7	10855.2	4202.0
3068.9	5647.6	6621.4	6200.2	6257.2	6406.5	6382.4	6627.2	7286.0	10906.8	7099.9
394.5	819.3	911.7	1097.9	1067.9	2009.9	677.9	2399.2	710.4	1872.2	1393.9
2962.9	4211.2	4625.6	4622.5	5311.4	5938.8	3846.3	5638.7	4665.5	5573.7	3630.0
3116.0	4725.5	5503.6	5972.9	5659.1	6912.2	5509.8	6758.6	6162.1	7863.6	5342.6
540.3	1134.6	1317.9	1544.5	1340.3	1872.7	1689.5	1691.3	1050.3	1722.5	1022.3
4077.7	4563.1	5671.9	5891.5	5702.0	8006.8	4247.8	8031.6	4514.0	8621.8	5893.7
1076.2	3170.8	3229.5	3692.5	4222.2	5386.5	3130.4	4255.4	3433.2	5962.7	2539.7
950.1	1549.7	2152.1	2299.8	2436.6	3438.6	2610.8	2814.3	1581.3	3818.0	1718.4
48989.0	13636.4	13953.4	14513.6	14291.3	14106.8	14656.0	13160.7	19301.6	18760.7	19864.8
64.0	1572.6	1611.5	1601.2	1462.6	2266.8	1088.6	1655.0	722.7	1743.0	802.8
2970.1	3095.2	3841.8	3753.1	3748.1	4869.0	3791.5	3962.0	3384.7	5158.7	3421.1
111.1	3668.6	3845.4	3874.4	4611.9	5168.2	1646.4	4376.0	2332.5	4346.9	2600.3
1164.1	5836.8	5768.3	6419.6	6886.0	7768.8	3591.3	8514.7	4865.3	7781.0	6059.6
2236.1	5425.0	5093.5	4219.0	4359.4	5548.1	3633.2	4598.8	4893.3	4923.2	4413.6
2706.0	3602.4	5076.6	5426.0	4581.6	6451.8	3553.0	6348.2	3983.3	7821.8	3709.4
212.0	2199.8	2449.7	2690.1	4004.6	5058.7	2092.8	2798.2	1430.5	5803.8	2707.6
5234.7	6420.5	6014.7	6307.8	5536.8	7316.5	5521.9	7046.0	6493.9	6229.5	8920.9
2606.2	3503.5	4740.7	4782.8	5095.0	6244.5	5012.8	5220.5	5362.2	7592.4	3731.6
17841.3	8738.3	8251.2	10059.4	9584.3	9565.7	9691.9	10299.6	10210.1	11575.3	13924.0
108.7	941.1	1830.7	1861.6	1368.6	2302.4	1542.3	2193.4	1189.0	1933.2	937.5
2941.4	3969.7	4056.2	4820.4	4197.9	5217.3	4634.0	6352.3	3184.9	4373.2	5374.3
4655.8	3530.5	3670.6	4031.7	3478.6	5391.0	3483.8	5092.7	3369.2	5326.3	4397.7
1836.3	4278.6	4085.1	4963.4	4089.4	6282.6	3762.3	5858.7	3317.5	7001.9	4956.2
210.4	1471.2	1707.5	2385.8	1995.3	2033.8	1299.7	2487.5	853.8	1684.4	1025.0
4152.6	4604.9	4734.2	5351.0	5102.9	6527.6	5397.8	6751.9	5537.4	8374.5	5800.4
1118.6	4162.5	5188.6	5090.0	5090.2	7276.3	3379.9	6589.0	4792.5	7464.9	5101.4
3229.8	5779.1	6083.4	6543.3	6086.9	7742.0	5195.3	6963.4	5181.0	8758.5	5783.6
863.6	4732.7	6182.4	7162.9	7102.8	10727.1	3975.7	7678.9	5492.7	10702.3	5005.2
3498.0	6074.0	6064.6	6704.1	6250.0	8301.6	5609.1	7820.2	6198.0	9880.8	6948.5
17874.8	6166.4	5726.9	5803.9	6176.4	6361.7	6252.6	6202.0	8387.8	8684.8	4719.7
5198.3	6495.8	5613.2	6161.0	5497.0	7107.2	6401.0	7008.0	5940.4	6882.3	6746.0
4169.6	6594.2	6844.2	7346.0	6099.3	8118.7	5886.3	7179.9	7750.5	10417.6	7503.7
5782.5	6842.5	7484.1	8013.8	8149.9	9186.7	8128.7	7070.4	7507.5	10723.1	8127.8
4220.0	6582.9	7034.6	7464.4	6602.1	8160.3	6620.9	7768.9	5680.7	9262.1	7658.1
5970.2	3590.9	3688.2	3697.8	3385.6	4044.6	3230.8	3577.2	3869.7	5105.0	4747.5
709.0	2327.3	2587.2	2772.3	2351.3	3466.6	1881.2	4347.0	1645.5	3559.6	2395.8
888.2	1782.2	2469.3	2210.0	2340.8	3490.1	1328.5	2564.0	1445.4	2893.5	1500.5
1275.7	4432.6	3655.0	2886.2	3774.3	4733.3	2774.5	4055.0	3883.9	4095.2	3576.9
170.4	1952.5	2487.9	1672.4	1891.9	2329.4	1504.0	2597.2	981.7	1511.4	3556.7

6368.3	4652.1	3559.2
8666.8	6577.1	4135.5
6326.8	6895.5	4576.4
1780.2	1495.8	453.3
6716.7	4108.8	3639.8
7002.6	6728.8	7321.7
2078.1	2457.7	2278.4
8909.6	6475.1	4114.5
5337.4	3745.4	3668.7
2923.4	2490.3	2332.5
13974.4	14851.3	13085.9
2560.5	1891.9	954.5
4395.7	4409.4	3541.8
5828.5	2686.3	1451.4
8328.6	6783.7	6939.4
4768.6	4738.9	3265.1
7662.8	6108.4	3990.0
4473.6	2636.1	2969.5
6082.9	7024.3	7676.9
5581.5	5456.2	4526.9
10209.6	10609.2	9670.4
2297.4	2126.2	1072.7
5967.4	4987.9	4260.4
5207.0	6010.3	7068.8
6443.6	5795.6	3601.0
2933.7	2525.3	1072.8
6797.0	6610.8	4990.6
8135.1	5917.6	4033.2
8018.7	7153.2	5137.5
11180.3	7305.3	3041.1
8518.5	7094.0	5121.5
6259.6	7814.2	6650.7
6538.3	7675.7	7850.3
7485.2	8264.8	6031.5
9907.7	7282.5	5095.8
8574.2	7629.7	6473.9
3870.3	4609.5	3297.7
4235.4	3923.2	4313.7
3512.9	2612.7	1286.3
3650.1	3935.7	2671.5
4075.5	2248.2	941.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	2081
s__unclassified	2089
s__unclassified	210
s__unclassified	2101
s__unclassified	2103
s__unclassified	2105
s__unclassified	2107
s__unclassified	2108
s__unclassified	2111
s__unclassified	2120
s__unclassified	2124
s__unclassified	2135
s__unclassified	2137
s__unclassified	2139
s__unclassified	2140
s__unclassified	2143
s__unclassified	2147
s__unclassified	215
s__unclassified	216
s__unclassified	2160
s__unclassified	2162
s__unclassified	2166
s__unclassified	2168
s__unclassified	2171
s__unclassified	2172
s__unclassified	2173
s__unclassified	2174
s__unclassified	2177
s__unclassified	2178
s__unclassified	218
s__unclassified	2181
s__unclassified	2185
s__unclassified	2186
s__unclassified	2188
s__unclassified	2189
s__unclassified	219
s__unclassified	2190
s__unclassified	2193
s__unclassified	2194
s__unclassified	2195
s__unclassified	2197

EU586046.1 gg_id:269929 Pseudomonas fluorescens str. REG59 EU586
EU536445.1 gg_id:283229 profile human microbiota antecubital fossa (inner elbow) skin clone nbt214a03 EU536
EU538028.1 gg_id:279841 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225b04 EU538
EU535251.1 gg_id:280823 profile human microbiota antecubital fossa (inner elbow) skin clone nbt172g09 EU535
GQ032573.1 gg_id:406089 Topographical and Temporal Human Skin Microbiome skin volar forearm clone nbw GQ032
EU169150.1 gg_id:237348 Pseudomonas tolaasii str. B48 EU169
FN599522.1 gg_id:565116 Pseudomonas fulva str. YMC09/4/B4619 FN599
EU511892.1 gg_id:262376 cecal contents Mus musculus strain C57BL/6J; WD2 clone WD2_aaf10f12 EU511
FJ950618.1 gg_id:440750 Pseudomonas fluorescens str. c120 FJ9506
EU538898.1 gg_id:280517 profile human microbiota antecubital fossa (inner elbow) skin clone nbt96e11 EU538
FJ893841.1 gg_id:553685 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8938
EU539842.1 gg_id:283035 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106b04 EU539
DQ117554.1 gg_id:155221 structure (Citrullus vulgaris SCHARD.) -based approaches and terminal fragment len DQ117
AJ576246.1 gg_id:88635 Pseudomonas fluorescens 10CW AJ5762
FJ894143.1 gg_id:568601 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8941
FJ605386.1 gg_id:454217 Pseudomonas poae str. AceR-3 FJ6053
DQ178219.1 gg_id:140655 Pseudomonas mendocina str. PC1 DQ178
EU538548.1 gg_id:284117 profile human microbiota antecubital fossa (inner elbow) skin clone nbt231f05 EU538
EU538115.1 gg_id:285323 profile human microbiota antecubital fossa (inner elbow) skin clone nbt82c09 EU538
FJ894501.1 gg_id:565829 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8945
DQ318864.1 gg_id:154493 Pseudomonas syringae str. 8534 DQ318
EU537937.1 gg_id:280598 profile human microbiota antecubital fossa (inner elbow) skin clone nbt227f02 EU537
FJ976605.1 gg_id:559208 Pseudomonas putida FJ9766
FJ893686.1 gg_id:574564 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT3; ear p FJ8936
AB180734.1 gg_id:102043 Pseudomonas putida str. MT4 AB180
FJ950650.1 gg_id:467776 Pseudomonas putida str. d61 FJ9506
EU537214.1 gg_id:282093 profile human microbiota antecubital fossa (inner elbow) skin clone nbt68f04 EU537
EF016110.1 gg_id:177261 Pseudomonas sp. str. BJSX EF0161
FJ892925.1 gg_id:563436 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM2; ear p FJ8929
FJ893603.1 gg_id:553179 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT3; ear p FJ8936
EU434560.1 gg_id:271676 Pseudomonas fluorescens str. b33 EU434
AM229082.1 gg_id:147892 Pseudomonas fluorescens str. C7R12 AM229
EU539097.1 gg_id:284787 profile human microbiota antecubital fossa (inner elbow) skin clone nbt98c04 EU539
EU540304.1 gg_id:285316 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114g10 EU540
AJ492827.1 gg_id:63919 Pseudomonas cannabina str. CFBP 2341 AJ4928
EU540573.1 gg_id:283457 profile human microbiota antecubital fossa (inner elbow) skin clone nbt120b02 EU540
EU537625.1 gg_id:283084 profile human microbiota antecubital fossa (inner elbow) skin clone nbt73g10 EU537
AM184090.1 gg_id:152763 Pseudomonas syringae str. 1 AM184
DQ084459.1 gg_id:128081 Pseudomonas fluorescens str. FLM05-1 DQ084
AF137359.1 gg_id:8710 Pseudomonas fluorescens AF1373
AB167245.1 gg_id:107953 Pseudomonas syringae str. c121 AB167

5676.4	5908.0	6594.0	7437.7	6401.4	8562.0	7128.5	8987.0	8101.1	8525.9	8470.4
2134.2	2771.2	3240.0	3487.7	3960.2	4450.5	3491.4	4079.4	2886.8	5017.0	2806.3
1759.7	4167.6	4032.7	4959.0	4040.5	6059.6	3708.4	5550.5	3389.6	7181.0	4581.1
4767.4	6024.4	6623.3	7185.3	6474.1	7932.2	6577.2	8252.8	6440.3	9333.0	7148.5
9444.5	5092.9	5725.8	6688.5	7730.0	6889.5	6802.3	6672.7	4834.4	7670.0	5706.6
5585.0	5831.4	6355.7	7079.4	7610.2	7868.8	5775.5	7183.8	5945.5	8915.5	6378.2
352.2	3053.3	3191.4	3623.6	3951.0	6241.9	2581.1	3487.1	2105.5	6720.6	2846.9
2508.2	5868.4	6079.2	6978.0	6164.0	7896.9	7068.8	7157.8	5479.6	7139.0	6953.5
1848.6	4137.7	4881.8	5303.2	4658.8	4865.9	5019.7	5712.6	6138.3	6178.2	4455.9
3363.4	5230.5	6304.5	6878.7	6151.5	7751.2	6029.4	7664.7	6745.2	9224.8	5873.9
7370.3	5234.5	4414.9	5087.1	4250.8	5788.6	4391.0	5428.2	4358.9	6624.6	4030.8
4584.5	5231.1	5754.7	5914.7	6303.6	7635.4	5524.6	7241.2	5454.5	10182.5	6385.5
1047.5	2293.4	3641.2	3643.0	2747.3	4336.4	2460.7	5020.6	2824.9	5440.9	3213.6
6775.7	4120.0	4157.4	5287.9	5099.7	5218.8	5059.7	5646.9	3494.5	6571.9	3974.1
14119.6	7722.4	7416.0	8708.0	8044.7	7912.2	9098.6	8464.1	11687.4	10348.6	8837.3
4300.8	4203.0	5009.2	5352.7	5288.9	5703.9	4892.5	6065.6	4473.9	6841.5	4772.5
199.6	3205.2	4000.5	3033.0	3645.8	4674.4	2392.1	3718.9	1466.4	2636.5	4755.3
1341.3	3486.5	3749.4	4167.2	4130.9	5448.3	3642.2	4715.2	3189.8	5900.4	2862.1
11621.0	5372.9	5152.1	5581.6	5104.4	5579.8	5310.7	5542.7	5909.7	7557.2	6374.5
898.8	2823.8	2937.0	3486.4	2989.4	4678.5	2815.8	4566.4	1812.5	4279.9	2685.1
1367.7	2332.4	3326.3	3179.2	3224.7	3929.7	2553.3	4197.5	3312.6	3246.0	2480.3
1171.1	2355.3	2695.9	2996.0	3004.9	3250.3	2811.3	3071.4	3170.4	2533.4	3124.3
1363.7	4301.1	5332.9	4957.8	6401.2	8619.2	3096.4	5547.4	2955.6	9563.6	5020.9
2372.8	3521.8	3879.3	4422.9	4557.7	5126.1	4428.0	5127.5	4066.6	6316.4	4138.6
10037.1	6661.3	6900.5	7267.6	7321.5	7593.7	7640.9	7718.1	8199.1	8674.0	7936.7
13130.6	8635.8	8530.1	9932.8	10810.8	11319.4	10373.5	9595.7	10289.3	14237.2	10552.7
3203.6	4074.0	6315.4	6084.9	6009.5	7476.1	5737.4	7739.1	9164.5	8679.8	5610.7
6951.4	1046.7	1967.9	2016.6	1948.4	1994.5	1718.9	2335.0	1215.4	1210.2	1013.0
46810.0	12818.4	11791.5	13621.2	12934.6	12334.6	13846.5	11016.3	17391.5	15891.9	17452.1
4061.0	3621.6	4458.1	4946.1	4038.8	5108.9	3761.7	3144.7	3416.8	5625.2	3685.4
3814.8	4749.9	4782.2	5247.1	5191.7	5808.3	4305.3	6615.1	3344.8	6422.4	5755.8
2115.4	1880.9	2267.3	2367.1	2463.5	3279.2	2917.2	3094.9	1364.0	4060.5	2232.0
708.2	2326.0	2659.2	2828.6	2592.6	4012.2	2626.8	4157.0	1517.2	3791.5	1955.6
41755.0	10686.9	10130.0	11087.9	10116.7	11119.3	10640.4	11665.7	16371.4	12716.1	15028.8
227.1	2041.7	2366.4	2401.4	2693.3	3253.2	1927.1	2719.1	2326.9	3843.3	1890.7
3337.2	3311.1	4086.7	4268.5	4272.3	5605.8	3387.8	5030.7	3266.9	7321.7	2750.3
2152.8	3657.7	3760.0	4001.0	3694.4	5200.1	3284.1	5005.0	2749.5	6920.3	3850.1
719.0	1589.3	2126.2	2242.3	2155.1	3052.4	1412.6	3777.7	1569.4	3131.6	2406.9
780.5	1398.6	1790.5	2014.2	2038.8	2928.4	1199.2	3060.3	1855.2	2878.6	1926.7
6477.9	6215.4	6024.0	6448.7	6233.3	7826.6	5548.5	8636.9	6805.5	8255.1	7792.6
1214.9	1216.6	1619.1	2364.9	2638.2	1878.0	1957.4	2211.8	904.5	2419.2	1253.7

8436.9	8212.1	8008.4
4511.7	4427.0	3650.5
6276.2	5528.2	3505.2
8311.6	8336.3	7147.4
7007.2	7107.5	5633.9
8105.7	5710.0	4638.8
6189.5	4789.7	2371.8
7790.7	7075.6	9056.2
6602.3	4989.8	4970.3
7939.9	7930.5	7977.2
5549.8	6465.6	6069.9
8384.9	6500.3	4540.9
4740.3	4515.4	2659.3
6477.8	5372.5	4970.3
9171.1	8837.9	9936.8
6916.2	5504.5	3585.1
5841.6	3343.2	1998.4
5127.7	4200.3	3951.3
5522.5	6945.8	5907.6
5183.7	5328.5	8033.2
5044.5	3047.0	2615.8
3548.7	3628.5	3283.7
7559.0	5383.6	4843.3
5350.7	5414.1	4868.4
7507.8	8912.2	7591.2
11248.9	11216.4	9570.5
7644.1	6987.7	5368.3
3314.8	2638.1	1918.0
12240.0	13139.0	11649.0
4830.9	4414.8	4345.9
7255.6	5717.7	3914.4
2993.7	2844.8	2525.8
4675.3	4258.4	7055.4
11106.8	14605.4	14605.2
3160.4	3456.5	1504.1
6501.6	4986.8	3346.8
6320.3	4956.8	3337.5
5723.2	2883.0	1063.5
3302.3	2183.3	1394.9
7452.9	7185.6	4882.0
2349.0	1882.7	1294.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	2201
s__unclassified	2204
s__unclassified	2206
s__unclassified	2207
s__unclassified	2208
s__unclassified	2209
s__unclassified	221
s__unclassified	2210
s__unclassified	2212
s__unclassified	2213
s__unclassified	2217
s__unclassified	2219
s__unclassified	2228
s__unclassified	2231
s__unclassified	2232
s__unclassified	2236
s__unclassified	2237
s__unclassified	2238
s__unclassified	2247
s__unclassified	2249
s__unclassified	225
s__unclassified	2250
s__unclassified	2251
s__unclassified	2253
s__unclassified	2256
s__unclassified	2258
s__unclassified	2262
s__unclassified	2269
s__unclassified	2270
s__unclassified	2271
s__unclassified	2272
s__unclassified	2273
s__unclassified	2276
s__unclassified	2283
s__unclassified	2285
s__unclassified	2287
s__unclassified	2288
s__unclassified	229
s__unclassified	2291
s__unclassified	2293
s__unclassified	2294

AF511436.1 gg_id:74050 Pseudomonas alcaligenes CCCO12 AF5114
EU539018.1 gg_id:281142 profile human microbiota antecubital fossa (inner elbow) skin clone nbt97c01 EU5390
EU169146.1 gg_id:245783 Pseudomonas brenneri str. B46 EU1691
FJ893732.1 gg_id:548088 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT3; ear p FJ8937
EU539860.1 gg_id:284811 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106g03 EU5398
EU169179.1 gg_id:253450 Pseudomonas fluorescens str. B73 EU1691
DQ095893.1 gg_id:130252 Pseudomonas plecoglossicida str. S4 DQ095
FJ950610.1 gg_id:425507 Pseudomonas sp. str. c156 FJ9506
AF064458.1 gg_id:8588 Pseudomonas monteilii str. CIP 104883 AF0644
AY303311.1 gg_id:132103 Pseudomonas sp. str. ps6-16 AY3033
EU540402.1 gg_id:283690 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114d10 EU5404
EU539954.1 gg_id:282412 profile human microbiota antecubital fossa (inner elbow) skin clone nbt108d06 EU5399
EU111725.2 gg_id:558591 Pseudomonas migulae str. CT14 EU1117
AF348508.1 gg_id:74250 Pseudomonas corrugata str. ND9L AF3485
AY625608.1 gg_id:106509 Pseudomonas sp. str. E2.2 AY6256
EU538196.1 gg_id:283086 profile human microbiota antecubital fossa (inner elbow) skin clone nbt82e10 EU5381
FJ588703.1 gg_id:565803 Pseudomonas fluorescens str. HDY-9 FJ5887
EU534971.1 gg_id:281416 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt18 EU5349
FJ893154.1 gg_id:549797 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM3; ear p FJ8931
EF154270.1 gg_id:188602 Pseudomonas cannabina str. 30 EF1542
EU239464.1 gg_id:253435 Pseudomonas putida str. XJUHX-1 EU2394
AF447394.1 gg_id:33976 Pseudomonas putida str. DLL-E4 AF4473
FJ894001.1 gg_id:570570 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8940
EU169171.1 gg_id:250792 Pseudomonas fluorescens str. B20 EU1691
EU537043.1 gg_id:281302 profile human microbiota antecubital fossa (inner elbow) skin clone nbt219e06 EU5370
AF112477.1 gg_id:8726 Azospirillum sp AF1124
AY303254.1 gg_id:133637 Pseudomonas sp. str. ps10-13 AY3032
GQ260082.1 gg_id:545388 Pseudomonas fluorescens str. ICIRC97 GQ260
EU538363.1 gg_id:280933 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87d05 EU5383
AY303243.1 gg_id:132705 Pseudomonas sp. str. pcs19 AY3032
EU538992.1 gg_id:286283 profile human microbiota antecubital fossa (inner elbow) skin clone nbt98c10 EU5389
EU538181.1 gg_id:280147 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81f12 EU5381
EU538555.1 gg_id:283206 profile human microbiota antecubital fossa (inner elbow) skin clone nbt231f12 EU5385
AM933495.1 gg_id:321985 Pseudomonas antarctica FB1 AM933
EU535368.1 gg_id:286102 profile human microbiota antecubital fossa (inner elbow) skin clone nbt02b04 EU5353
AJ012712.1 gg_id:8701 Pseudomonas borealis MA342 AJ0127
DQ536514.1 gg_id:160709 Pseudomonas trivialis str. BIHB 736 DQ536
FJ892816.1 gg_id:567266 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p FJ8928
AM262973.1 gg_id:159153 Pseudomonas oryzihabitans str. IAM 1568 AM262
FJ005063.1 gg_id:351681 feasibility and indigenous moderate-thermophilic bioleaching which old Pb/Zn smelti FJ0050
FJ607150.1 gg_id:555195 Pseudomonas syringae pv. morsprunorum str. ICMP 4991 FJ6071

493.5	1397.8	2120.9	2174.3	2169.9	3782.4	1028.1	1795.0	796.9	5405.8	815.2
1557.3	3873.7	3943.2	4979.0	3597.9	4853.1	3868.7	4352.0	2570.7	5677.7	3417.2
1197.5	3006.6	4768.1	2450.1	2372.8	3172.7	2486.2	3433.6	2618.5	5041.3	4435.1
13912.1	6992.7	6601.1	7580.9	6481.9	7852.4	6981.5	7887.6	9285.0	8520.0	9594.3
2025.8	3463.6	4433.3	4708.2	5260.0	5367.9	3459.0	5163.4	4455.8	3357.8	3454.9
2522.1	2114.9	2726.5	1812.9	2327.6	3068.1	2217.2	3284.4	1622.5	6273.2	1951.8
1689.8	4848.1	5328.5	5358.7	8032.9	9543.2	2890.6	6043.4	2667.6	10122.4	4910.3
7255.4	4959.9	6051.9	4573.5	4804.6	5392.0	4125.0	5531.1	4678.0	6907.2	5553.8
7109.9	7767.4	7429.3	8601.8	11544.1	9777.6	7050.2	8129.9	10114.0	10684.1	7985.3
473.5	1747.4	1954.9	2039.6	2313.5	4368.4	1081.0	3829.8	1142.5	4714.2	2032.8
4286.1	6615.6	6980.7	7439.3	6584.9	8222.0	6558.1	8095.6	5586.8	8991.9	7919.5
3945.3	4860.5	5576.0	6150.3	5570.0	7225.9	5570.8	6885.2	4482.7	8498.5	5462.5
8825.3	5517.3	6760.5	7512.2	7814.4	7256.1	6104.5	7999.2	5917.6	7534.6	5324.9
1003.7	1177.8	1878.1	2132.0	1906.3	2809.8	1809.0	2424.4	1524.5	2983.5	1124.5
1171.7	3337.5	3920.6	4230.0	4376.7	6156.8	3598.8	4984.1	3430.9	6868.6	3252.3
2522.9	4351.2	4404.5	4732.5	4248.5	5155.3	4334.8	5027.1	6493.6	5403.4	3622.9
2232.8	3663.6	4238.0	4431.9	5716.5	8373.4	3429.4	6101.7	3040.5	9416.5	4542.1
1105.7	2881.3	3029.2	3288.8	2996.3	4878.6	2603.3	5974.2	2702.4	4427.0	3557.9
3243.8	8345.4	6818.2	6947.5	6320.7	7586.1	6068.6	7368.0	6949.6	6178.8	8169.0
6670.6	2628.1	2978.8	3062.8	3104.3	3502.1	3241.9	2820.5	3035.8	5473.2	3499.8
418.9	1856.5	2131.9	2180.0	2536.2	5317.4	959.5	2506.0	924.5	6362.6	2517.0
1840.8	5963.7	6213.0	6872.8	7684.1	9402.1	4295.0	9067.9	5424.0	10858.3	8476.4
2834.9	4453.3	5209.3	5646.9	5394.0	6753.5	5129.1	6821.8	6126.9	7553.7	5600.2
1928.6	1835.3	2386.0	2492.2	2130.5	3492.4	1555.9	3523.0	1441.1	4110.7	1958.5
1314.5	2285.0	2784.1	2926.4	3255.7	4299.6	2682.1	3450.9	2543.5	4802.7	2007.0
1008.5	1119.7	1697.7	1722.0	1721.5	2514.4	1162.8	1910.3	1071.0	3527.4	803.4
1898.8	3435.0	4117.7	3999.3	4102.1	4229.9	3443.0	4628.4	3268.8	5421.9	4295.8
6541.1	6059.8	6278.8	6439.1	6393.1	8871.5	5303.7	7200.4	6840.0	9955.2	7280.2
4162.2	3922.8	4145.0	4801.0	3849.5	5311.8	3829.2	5719.4	2813.7	6158.8	3157.3
555.7	10498.1	9070.6	7013.3	9255.1	12140.9	5343.8	12694.7	9774.7	12179.5	11336.0
44901.7	11487.4	9584.6	11606.2	9621.9	11210.6	11284.6	12087.4	17398.5	12300.6	15615.4
9724.7	4648.6	4101.9	4247.4	4346.4	5137.4	4106.1	4435.4	6343.7	6486.3	3223.7
1342.2	1977.3	2457.4	2724.2	2976.6	4039.7	2111.6	4435.3	2979.5	3970.4	2313.0
530.0	960.2	1462.6	1339.0	1371.1	2546.9	1005.6	3039.1	1141.0	2712.2	1763.2
14057.0	7948.6	7483.8	8856.8	7955.5	8237.7	9027.9	9034.3	11563.0	10324.2	9607.5
2688.6	2559.2	3156.7	3027.3	3287.7	3804.3	2840.9	3497.6	1876.1	4927.8	2676.1
3982.9	4654.9	5198.6	5710.1	5687.3	5676.5	6605.4	4786.1	4687.0	6168.0	5514.9
4850.4	2788.2	2881.3	3072.4	3160.6	4388.6	3187.8	3475.5	2102.9	7344.0	2122.2
553.8	1382.2	1888.6	2340.1	1261.7	2610.8	1018.9	2282.7	706.7	4436.4	2041.2
2460.8	3309.0	3981.4	4624.1	3580.6	5727.8	2406.6	5075.6	3661.4	7957.8	2940.6
2108.3	2723.7	3633.9	3653.3	3692.5	5331.4	2612.6	4991.6	3398.9	6277.7	3337.8

4961.1	2789.1	2059.4
4786.1	5810.1	5086.7
3186.0	3430.0	2372.7
7544.7	8556.2	8400.0
5306.7	5339.3	4029.3
2805.8	3148.0	2551.5
8247.3	5846.1	5396.8
5429.8	6072.7	4594.5
8505.6	7740.1	6586.8
3908.3	2875.5	726.8
8632.1	7752.7	6439.6
7375.8	6496.1	5529.2
9108.3	7125.4	4915.6
3292.4	2082.5	1509.7
5865.7	4255.7	2186.4
5291.7	5205.2	4926.8
7765.2	5063.2	3302.7
5076.1	5612.9	3952.7
7182.8	7798.3	10855.7
3044.0	3925.8	3635.9
3920.6	2928.1	2633.2
9313.2	7561.1	5952.0
6885.3	6733.4	8376.5
4044.6	2649.9	2906.3
4621.0	3200.7	2748.4
2853.5	1575.2	1168.7
4733.9	4406.2	2718.6
8779.6	7297.0	6176.6
6057.5	6487.4	6645.7
12813.2	8282.4	6312.6
10810.0	14444.6	14585.7
4714.8	5152.3	3401.6
4571.3	2401.0	1536.2
2610.2	2312.4	847.6
9451.7	9697.4	12211.9
3706.5	3316.2	2924.3
6215.7	5648.9	4471.5
4558.5	4345.0	2517.1
5175.0	2594.2	1643.9
6404.1	5375.3	3686.8
6027.6	3678.6	2081.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	23
s__unclassified	237
s__unclassified	241
s__unclassified	242
s__unclassified	245
s__unclassified	254
s__unclassified	256
s__unclassified	258
s__unclassified	260
s__unclassified	261
s__unclassified	262
s__unclassified	264
s__unclassified	266
s__unclassified	268
s__unclassified	270
s__unclassified	274
s__unclassified	275
s__unclassified	276
s__unclassified	279
s__unclassified	285
s__unclassified	287
s__unclassified	288
s__unclassified	291
s__unclassified	296
s__unclassified	298
s__unclassified	299
s__unclassified	30
s__unclassified	304
s__unclassified	314
s__unclassified	316
s__unclassified	320
s__unclassified	321
s__unclassified	323
s__unclassified	324
s__unclassified	325
s__unclassified	326
s__unclassified	327
s__unclassified	328
s__unclassified	3315
s__unclassified	3318
s__unclassified	3321

DQ095880.1 gg_id:132553 Pseudomonas monteilii str. R15 DQ095
FJ893407.1 gg_id:535046 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8934
EU538364.1 gg_id:284949 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87d08 EU5383
EU539867.1 gg_id:283578 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106h02 EU5398
EU536420.1 gg_id:283843 profile human microbiota antecubital fossa (inner elbow) skin clone nbt213f02 EU5364
EU538972.1 gg_id:281795 profile human microbiota antecubital fossa (inner elbow) skin clone nbt96c06 EU5389
EU888582.1 gg_id:310807 Pseudomonas syringae str. FR2_MS8c EU8885
EU539489.1 gg_id:281181 profile human microbiota antecubital fossa (inner elbow) skin clone nbt104b06 EU5394
AY622219.1 gg_id:101900 Pseudomonas fluorescens str. DR54 AY6222
AY303306.1 gg_id:135272 Pseudomonas sp. str. ps4-49 AY3033
AY970952.1 gg_id:115366 Pseudomonas moraviensis str. 1B4 AY9709
FJ893108.1 gg_id:546592 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM3; ear p FJ8931
FJ893415.1 gg_id:552313 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8934
FJ405364.1 gg_id:368656 Pseudomonas sp. str. SPe FJ4053
EU536909.1 gg_id:285991 profile human microbiota antecubital fossa (inner elbow) skin clone nbt223g07 EU5369
EF194769.1 gg_id:202303 Pseudomonas plecoglossicida str. AT10 EF1947
EF623836.1 gg_id:245159 Pseudomonas putida str. GIST-MRP44-1 EF6238
EU538635.1 gg_id:283783 profile human microbiota antecubital fossa (inner elbow) skin clone nbt234c07 EU5386
L28676.1 gg_id:8572 Pseudomonas putida str. mt-2 PaW1 L28676
AM933518.1 gg_id:309848 Pseudomonas antarctica FB27 AM933
EU540148.1 gg_id:283193 profile human microbiota antecubital fossa (inner elbow) skin clone nbt246b06 EU5401
EU046271.1 gg_id:253171 Pseudomonas takelamaensis str. HR2 EU0462
DQ981457.1 gg_id:203619 Pseudomonas fluorescens SB2 DQ981
L37365.1 gg_id:8573 Pseudomonas putida str. F1 L37365
EU159479.1 gg_id:310066 Pseudomonas fluorescens str. A7 EU1594
FJ972536.1 gg_id:433249 Pseudomonas fluorescens str. NO7 FJ9725
AB181497.1 gg_id:109263 wastewater biofilm clone HSN-95 AB1814
EU537190.1 gg_id:286488 profile human microbiota antecubital fossa (inner elbow) skin clone nbt68b06 EU5371
DQ076645.1 gg_id:131495 Pseudomonas sp. str. LDC-25 DQ076
AY303320.1 gg_id:135251 Pseudomonas sp. str. ps6-47 AY3033
AF494092.1 gg_id:67520 Burkholderia caryophylli str. YS13 AF4940
AM411057.1 gg_id:191934 Pseudomonas sp. str. Z49zhy AM411
EU008575.1 gg_id:257715 Pseudomonas putida str. PS13 EU0085
EU439420.1 gg_id:547800 Pseudomonas putida str. LH-R1 EU4394
AF094732.1 gg_id:47203 Pseudomonas fluorescens str. ATCC 49642 AF0947
EU539155.1 gg_id:285112 profile human microbiota antecubital fossa (inner elbow) skin clone nbt101a08 EU5391
EU540291.1 gg_id:284613 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114b02 EU5402
FJ893413.1 gg_id:547116 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8934
EF509497.1 gg_id:223307 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5094
AB234274.1 gg_id:147927 Biotransformation Polychlorinated Dioxins Microbial Dynamics Sediment Microcosm AB2342
AF494091.1 gg_id:67521 Pseudomonas nitroreducens str. 0802 AF4940

196.3	3994.5	4015.2	4190.7	5757.3	6570.2	1917.7	5140.1	1761.2	6095.9	3220.9
4671.2	5512.3	7816.8	4432.5	3644.8	5575.8	3316.3	6821.5	3425.7	4824.6	6803.9
5277.9	3322.3	4201.1	4231.5	4165.7	5810.4	3487.0	6742.0	3958.3	5872.8	5022.3
7221.7	4625.6	5451.7	5409.9	5612.0	5661.4	5548.6	5952.4	7329.2	7613.3	4789.6
4501.4	6819.7	7190.4	7481.1	6552.9	8172.1	6259.6	8612.8	5796.8	8774.3	8004.3
1949.0	2615.4	3082.6	3466.4	3366.9	4014.1	3221.8	4062.5	2124.0	4709.0	2351.8
2296.2	3235.9	4182.6	3985.6	3824.8	6134.2	2851.5	4955.7	3234.0	6657.3	4193.4
4607.8	6924.7	6809.5	7461.8	7259.4	7947.2	7045.0	8007.2	7491.2	10277.8	8365.4
1341.6	2132.0	3027.1	3006.1	3165.8	4874.0	2562.4	3183.1	2323.3	5580.1	1852.7
16440.6	8058.5	7458.9	8470.9	7711.5	10335.3	7444.1	8334.8	9552.4	11593.7	9996.4
1116.6	3043.5	4060.4	3476.3	3361.0	4599.7	2387.3	7518.1	4454.9	5279.5	3603.3
16882.3	7237.5	7252.0	8077.7	8213.0	10762.1	7986.2	8201.7	9497.9	9421.7	8829.0
3753.5	5374.5	5763.5	5519.1	6347.7	7542.6	5377.7	5891.5	6013.5	8363.6	5158.8
894.7	4315.0	5228.9	5445.4	5007.0	6234.0	3996.2	6797.4	4377.5	6942.3	4609.9
4391.7	7205.9	7486.2	7719.4	7430.3	8511.4	6970.0	8205.1	7819.7	11134.8	9523.5
4957.2	3763.1	3528.3	3533.8	6166.7	5602.5	2609.2	3373.7	2847.9	5942.6	2303.6
1804.2	4857.4	5483.6	5340.0	7412.5	6676.2	4134.1	5307.7	3737.4	7785.3	5194.4
4509.2	6585.2	6307.1	6939.6	6770.8	8294.1	6455.2	8328.2	7517.7	10041.2	8206.7
2601.2	6962.6	7343.2	7962.5	8696.4	10433.7	6511.0	8314.3	6475.7	12795.7	8993.9
1707.1	3155.0	3762.4	4047.0	3988.2	5383.3	3191.6	5327.2	3757.0	5795.0	3283.0
777.8	2893.6	3204.5	3431.7	3314.9	4996.2	3088.7	5242.4	1855.6	4309.9	3721.5
1095.8	5352.2	5998.5	5778.7	5469.9	6653.1	5200.4	7939.7	5143.8	7017.4	8142.7
2716.5	3803.6	4450.3	4579.1	4532.5	5199.9	3953.7	6476.8	5407.5	5329.8	5001.4
6546.7	4306.6	4731.9	4645.4	5120.3	6134.2	3718.7	4754.4	5207.9	6338.8	5221.1
289.4	1222.6	1536.0	1487.6	2611.0	3202.4	1115.5	1206.4	668.0	2929.2	743.5
2087.7	2061.0	2667.1	2760.7	2355.0	3829.3	1742.4	3665.3	1323.5	4370.9	2824.2
3794.3	5355.7	6111.0	6561.9	6038.7	5930.7	5557.9	6486.9	8822.1	7487.4	5746.4
5050.9	4512.4	4377.0	5143.3	4592.8	6228.9	4793.0	6259.7	4156.5	6395.5	5560.2
696.2	4083.0	4565.4	4664.8	5567.5	9331.2	2468.8	5494.7	2061.0	10263.6	4082.5
24030.6	7470.3	7839.2	8307.7	8580.5	9310.8	8113.5	7975.6	10538.0	10168.5	10028.6
4481.2	5785.5	6915.7	6978.7	6237.7	7174.7	5627.2	5378.2	8993.8	9457.4	6971.6
1820.9	5434.2	5053.8	6146.6	7002.5	7610.6	6110.9	6369.4	8395.5	9754.5	4773.5
1351.9	3468.6	4163.6	4348.6	5385.8	8000.0	4094.3	5486.0	2970.3	8730.9	4302.0
1780.9	6009.8	6253.2	6871.6	8698.0	9165.1	4338.5	8039.1	4921.5	10093.7	7196.0
1931.2	3185.7	3841.6	3862.9	3970.0	4949.5	3421.1	5396.5	3957.9	5984.7	2433.6
2861.8	3133.0	3222.1	3771.1	3206.1	4817.3	3069.9	4942.2	2353.8	4927.0	3063.2
1120.0	2474.0	2990.6	2916.6	4666.2	4013.2	4169.1	3425.7	2566.1	3729.9	1519.1
1139.0	3216.6	3159.2	2813.5	3894.6	4071.8	2936.5	3258.0	2424.8	3468.8	2514.8
4924.1	4291.8	4974.0	5237.2	3809.8	4808.7	3242.9	5829.3	4808.5	3131.5	4342.6
3805.7	5142.7	5102.4	5865.9	6010.5	5514.5	5316.3	5745.9	5152.4	6606.6	6211.5
1534.1	2203.4	2339.1	2284.0	2659.6	2944.4	1700.9	3351.6	1608.2	2545.9	2362.9

6562.1	4238.4	5165.4
5965.8	6686.7	3297.9
6307.4	5152.0	3170.7
5904.6	6391.0	6039.5
8845.5	8585.8	7336.0
4607.1	4607.5	3016.3
6420.5	4512.4	2845.4
8869.9	7570.2	5223.7
5052.5	3510.1	2661.8
10148.5	9944.1	9403.3
6619.2	2791.5	2294.6
8399.0	8685.3	7798.9
6541.5	5587.7	4773.3
7351.0	5004.9	5182.6
9499.7	7789.7	4789.2
4011.2	3725.1	3170.4
5783.6	6321.5	4250.8
8851.2	7671.3	6106.7
9909.7	7744.3	6133.0
5695.0	4810.4	3501.1
4282.0	4690.3	6216.3
7688.5	6071.5	5072.5
6094.8	4596.1	3463.7
7231.6	4504.9	2857.5
1821.6	1220.5	1361.2
4304.9	2831.5	2055.0
6214.8	6803.1	4937.5
6330.6	6760.3	8696.4
8309.8	6167.2	6751.7
8454.5	8756.6	6933.6
7359.9	8653.7	5176.1
9346.4	5315.0	3394.6
7221.6	5658.8	3950.0
8997.5	7125.0	5603.0
6174.7	3545.8	2358.7
5243.7	5929.7	7464.2
4512.9	3129.0	3950.6
3654.7	3482.6	3159.0
5533.4	5027.3	4161.0
5635.9	5265.3	5954.7
2674.8	1840.3	1805.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	3331
s__unclassified	3334
s__unclassified	3341
s__unclassified	3342
s__unclassified	3348
s__unclassified	3355
s__unclassified	3358
s__unclassified	336
s__unclassified	3362
s__unclassified	3363
s__unclassified	3366
s__unclassified	3367
s__unclassified	3368
s__unclassified	337
s__unclassified	3370
s__unclassified	3374
s__unclassified	3376
s__unclassified	3377
s__unclassified	3383
s__unclassified	3384
s__unclassified	339
s__unclassified	3396
s__unclassified	340
s__unclassified	3401
s__unclassified	3407
s__unclassified	3413
s__unclassified	3419
s__unclassified	3424
s__unclassified	3427
s__unclassified	3430
s__unclassified	3448
s__unclassified	345
s__unclassified	3451
s__unclassified	3454
s__unclassified	346
s__unclassified	3460
s__unclassified	3468
s__unclassified	347
s__unclassified	3474
s__unclassified	3479
s__unclassified	348

AB010851.1 gg_id:8534 strain HTB110 clone HTB110 AB0108
GQ231353.1 gg_id:583913 -stable isotope probing integrated metagenomics biphenyl dioxygenase genes polyc GQ231
AB088750.2 gg_id:78890 Pseudomonas resinovorans str. CA06 AB0887
AB234275.1 gg_id:146760 Biotransformation Polychlorinated Dioxins Microbial Dynamics Sediment Microcosm AB2342
GU057052.1 gg_id:582539 Pseudomonas sp. str. VSR GU057
AY486367.1 gg_id:202697 Pseudomonas aeruginosa str. AU4594 AY4863
X06684.1 gg_id:8424 Pseudomonas aeruginosa str. DSM50071 X06684
EU537871.1 gg_id:286843 profile human microbiota antecubital fossa (inner elbow) skin clone nbt226a07 EU5378
AF140011.1 gg_id:8525 Pseudomonas pseudoalcaligenes str. ML-A04 AF1400
AY486371.1 gg_id:99682 Pseudomonas aeruginosa str. AU5056 AY4863
FJ675201.1 gg_id:518305 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6752
FJ658037.1 gg_id:533358 Metalworking Fluids and Aerosols Metallurgy Plant metalworking fluid clone Winter_ FJ6580
DQ350823.1 gg_id:147528 Pseudomonas aeruginosa str. B13 DQ350
FM992407.1 gg_id:574081 Pseudomonas sp. JPM-2009-2 FM992
AJ550306.1 gg_id:81887 Pseudomonas aeruginosa OK1 AJ5503
EF515555.1 gg_id:218565 Electricigen Enrichment MFC full-scale anaerobic bioreactor sludge treating brewery EF5155
GU217696.1 gg_id:536568 Pseudomonas sp. str. ljh-16 GU217
EF208965.1 gg_id:175605 Pseudomonas mendocina str. B6-1 EF2089
EF179862.1 gg_id:198175 Pseudomonas sp. KM-B4 str. B4 EF1798
FJ556919.1 gg_id:586137 Pseudomonas aeruginosa str. NGKCTS FJ5569
EU537862.1 gg_id:281450 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225e12 EU5378
EF511012.1 gg_id:225088 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5110
AM293678.1 gg_id:242660 Pseudomonas fluorescens str. PTA-268 AM293
DQ256334.1 gg_id:142026 subsurface water clone EV818BHEB5102502DRLWq27f062 DQ256
EU370415.1 gg_id:260507 Pseudomonas sp. str. 117S1 EU3704
FJ226424.1 gg_id:356153 Pseudomonas aeruginosa str. NAPCC-1 FJ2264
EU195558.1 gg_id:237500 Pseudomonas aeruginosa str. LP8 EU1955
FJ152919.1 gg_id:320016 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX4CI FJ1529
AY947918.1 gg_id:141280 Synchrony and seasonality two temperate rivers USA: Massachusetts Ipswich River c AY9479
EF200115.1 gg_id:202547 mine sulfur-cycling assemblage subpermafrost fracture waters Arctic gold mines clon EF2001
DQ916277.2 gg_id:161990 Pseudomonas lindanilytica str. IPL-1 DQ916
EU538163.1 gg_id:280131 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81b11 EU5381
EU274299.1 gg_id:251989 Azotobacter chroococcum str. AZO2 EU2742
DQ149582.1 gg_id:160454 Pseudomonas aeruginosa str. HS-D38 DQ149
GU391472.1 gg_id:572803 Pseudomonas fluorescens str. Gd2F GU391
FJ169986.1 gg_id:344935 Pseudomonas sp. str. E505-11 FJ1699
AF140013.1 gg_id:23182 Pseudomonas pseudoalcaligenes str. ML-A09 AF1400
GQ149776.1 gg_id:565857 Burkholderia cepacia str. BCC933 GQ149
FJ675469.1 gg_id:531082 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6754
EU365515.1 gg_id:261544 Pseudomonas sp. str. BSs20085 EU3655
EU600372.1 gg_id:271714 Pseudomonas poae str. RT5RP2 EU6003

329.2	3465.2	4093.6	4173.9	4807.1	6152.3	1746.1	6031.5	2588.4	4290.9	3503.0
6656.5	5801.6	4880.2	5331.5	5198.9	5906.8	5225.5	5551.8	5831.0	5116.4	8064.0
298.5	1083.9	1074.3	904.4	940.8	1513.9	998.4	1635.0	708.3	1621.8	921.4
950.5	2863.3	3025.8	2941.0	3176.3	3662.4	3724.7	3379.9	2279.8	4830.6	3510.1
1445.2	3119.1	2843.5	2872.0	3513.0	2760.1	2800.8	3451.0	2680.4	3434.4	3753.4
8934.3	4764.3	4292.1	5092.3	4090.3	4701.6	4435.1	5667.3	5482.9	5440.2	7585.5
3644.6	2661.1	2983.1	2967.8	3460.8	3982.0	2588.2	4228.5	2714.1	4356.2	3898.2
1118.3	4298.1	3503.0	2744.9	3402.8	4256.7	2565.1	3711.4	4315.8	4707.6	2926.4
243.0	307.6	563.0	555.1	596.5	916.5	349.6	564.0	266.3	1104.0	284.9
2064.5	1005.9	1026.7	1038.6	373.3	1114.3	1177.0	1308.4	741.9	836.3	685.7
4336.3	4795.6	5436.5	6577.1	5069.4	5044.1	7483.8	6191.6	8104.0	7891.3	5760.3
192.8	2191.8	3813.9	2844.4	3442.1	4054.4	1874.8	3201.4	1051.8	3232.4	1652.6
3813.1	3814.4	3948.5	3714.0	4217.6	5386.0	2960.8	6479.2	3223.5	5577.9	4261.8
40353.8	11395.1	10947.6	12374.4	13079.2	12012.1	11977.8	9521.8	16886.7	14746.8	16932.9
813.5	3149.2	3471.0	3332.5	3105.3	3405.3	3156.2	4987.8	4402.4	3820.4	3531.8
16350.2	4630.0	6005.4	6485.1	7034.3	7240.1	6410.7	6432.5	5748.8	4851.0	8324.4
4296.1	5468.4	5675.9	6218.7	5053.2	5699.9	4712.8	6367.6	7538.8	5131.1	7125.6
50.0	34.8	28.7	28.7	36.1	55.7	20.0	26.6	19.6	32.1	20.5
10427.1	7306.2	7267.6	7659.1	6608.4	7415.1	7134.3	10189.5	7532.5	7035.9	10421.7
6500.4	4920.3	4937.3	5892.4	4645.7	5714.6	4307.3	5451.9	4583.1	9161.1	6625.8
8474.7	8691.4	8550.1	8860.1	8837.0	9989.0	8545.9	10111.0	10017.7	12169.1	11545.9
1673.4	1360.0	1636.0	1885.4	2094.1	2462.1	1903.0	2806.0	1527.6	2951.7	2351.6
598.8	2997.5	3168.2	3787.2	3211.6	5644.7	2985.5	4946.5	1960.0	4864.0	3649.4
65.7	67.4	120.8	101.2	97.5	189.9	32.3	106.4	58.9	194.4	38.3
6649.2	4506.3	5474.4	5742.6	6041.3	6429.9	5520.2	7080.8	5503.0	8060.4	5667.6
13557.2	5026.7	4672.4	4523.5	4034.4	4538.1	4051.1	5706.3	6624.9	5379.7	6532.3
3180.5	4344.3	4472.2	4647.0	4540.0	5634.5	3603.0	7963.3	4422.1	6487.3	6043.0
3839.8	1502.8	5414.4	1357.5	1674.8	2147.2	993.1	2269.7	893.4	2335.0	1366.6
8258.7	6489.7	6193.4	5850.9	5691.6	6703.5	5908.3	9606.2	7443.0	6695.1	9724.0
16564.8	5253.4	7056.3	5468.6	6391.4	7560.6	5974.6	7316.1	8882.1	8352.2	6417.8
409.7	3547.6	4018.5	4196.7	6166.5	5062.7	2942.6	4586.5	2971.8	3778.3	2538.7
2051.9	2885.0	3649.5	3770.4	3687.7	4817.9	3737.9	3895.7	2873.1	4919.4	2617.0
12279.2	3935.4	3409.9	3594.8	3794.4	5288.8	3307.5	4620.0	4655.2	4160.2	2819.9
18831.4	5397.7	5182.1	5638.0	5720.1	5670.9	5385.9	5550.0	8083.5	7184.2	7938.9
1568.8	1096.1	1627.4	1441.0	2182.4	1942.2	1868.2	2031.6	1159.5	3768.9	947.2
1480.6	4724.8	6150.2	6550.3	5873.8	6901.1	3950.5	7915.3	6631.0	7799.7	6510.4
12642.2	7312.0	7510.1	9834.8	9691.8	10569.8	8414.4	9235.1	9201.3	12077.7	9332.4
5063.1	3726.1	3822.2	3808.1	4056.5	5060.4	4350.1	4269.4	5076.8	6592.0	3190.6
1363.3	3269.8	3382.6	3227.9	2923.1	3567.0	3256.8	3877.2	2850.0	3237.8	3575.4
2809.0	3614.8	3672.2	3748.4	4256.4	4789.3	3415.3	5201.7	2788.4	5030.9	3853.8
3427.5	6160.4	5772.0	6056.8	6192.2	8275.7	4955.1	7408.8	5149.7	9176.1	7981.9

6189.5	4539.1	2228.2
4939.9	5316.5	4370.8
1615.8	1313.3	709.0
2924.7	2617.4	3827.9
3022.9	2391.2	3095.1
4634.4	5332.1	3869.0
3822.0	4215.1	1911.0
3873.2	3737.2	2531.4
636.6	635.4	297.6
1823.1	1866.5	889.1
5443.3	6964.5	5858.5
4433.3	2546.4	1879.7
5318.1	5068.1	2377.9
11759.2	11552.3	10649.6
3624.9	3767.6	3511.0
6319.5	6793.0	5163.3
5164.6	6747.5	5117.0
28.8	48.2	21.7
8660.3	7390.7	7098.6
5195.6	5794.8	3084.8
10446.4	9418.9	7941.3
2267.1	2243.4	1480.8
5907.0	5896.5	7572.8
163.1	236.4	44.1
6391.8	6893.1	4840.4
5196.6	5768.6	3578.4
6682.5	5394.1	2870.1
2720.8	2391.1	2131.2
7594.6	7217.1	5042.3
6983.7	7422.1	5209.2
4944.2	3542.4	2214.7
4247.2	4110.9	3241.3
5248.6	3739.3	3185.3
5458.9	5953.6	4808.0
2166.4	1450.6	1795.6
7920.9	6554.3	6522.8
11133.1	10074.0	5927.8
4538.9	5293.0	3736.7
3497.2	3947.8	2273.5
4832.2	4039.6	3539.4
8236.6	6099.4	4563.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	3490
s__unclassified	3491
s__unclassified	35
s__unclassified	351
s__unclassified	3513
s__unclassified	3516
s__unclassified	3525
s__unclassified	3527
s__unclassified	3529
s__unclassified	3530
s__unclassified	354
s__unclassified	3545
s__unclassified	3547
s__unclassified	3549
s__unclassified	3551
s__unclassified	3552
s__unclassified	3553
s__unclassified	3559
s__unclassified	3568
s__unclassified	3574
s__unclassified	3577
s__unclassified	3579
s__unclassified	3589
s__unclassified	3598
s__unclassified	3599
s__unclassified	36
s__unclassified	3603
s__unclassified	3604
s__unclassified	361
s__unclassified	3610
s__unclassified	3612
s__unclassified	3614
s__unclassified	3619
s__unclassified	362
s__unclassified	3622
s__unclassified	3627
s__unclassified	3628
s__unclassified	3629
s__unclassified	3632
s__unclassified	3641
s__unclassified	3643

DQ288951.1 gg_id:143945 Pseudomonas putida SR22 DQ288
DQ088664.1 gg_id:130678 Pseudomonas sp. C10-2 DQ088
EU854429.1 gg_id:309948 Pseudomonas fluorescens str. Ps 2-3 EU854
EU434518.1 gg_id:265493 Pseudomonas fluorescens str. b225 EU434
EU841537.1 gg_id:324692 Pseudomonas sp. str. 218 EU841
EF053508.2 gg_id:328163 Pseudomonas aeruginosa MCCB 103 EF0535
GU395986.1 gg_id:520012 Pseudomonas aeruginosa str. SU-3 GU395
AY880297.1 gg_id:111387 Pseudomonas sp. str. M2-1 AY880
Z76675.1 gg_id:73717 Pseudomonas pseudoalcaligenes str. DSM 50018T () Z76675
GU395985.1 gg_id:519213 Pseudomonas aeruginosa str. SU-1 GU395
EU534823.1 gg_id:283071 profile human skin microbiota ear punch biopsy female C57BL/6J mouse clone nbt21 EU534
GQ388959.1 gg_id:511710 quality deterioration drinking system during serious red water outbreak clone J135 GQ388
EF509283.1 gg_id:219801 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aeru EF5092
EF559215.1 gg_id:220548 mesophilic anaerobic digester clone A35_D28_L_B_B08 EF5592
AM111047.1 gg_id:140795 Pseudomonas sp. str. 7070 AM111
FJ901022.1 gg_id:513124 Polymorphism microbial reservoirs water cut stage oil field clone G-68 FJ9010
FJ675326.1 gg_id:516743 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6753
DQ416799.1 gg_id:268975 Pseudomonas sp. G1DM-43 DQ416
GQ926936.1 gg_id:538401 Pseudomonas aeruginosa str. DM1 GQ926
EF488968.1 gg_id:226299 Pseudomonas aeruginosa str. PS3 EF4889
FJ889644.1 gg_id:563629 Pseudomonas sp. str. NF1-10 FJ8896
AF140009.1 gg_id:8526 Pseudomonas pseudoalcaligenes str. ML-A02 AF140
AB037561.1 gg_id:74648 Pseudomonas aeruginosa str. H706 AB037
AY770964.1 gg_id:108340 water injection well Dagang oilfield clone W24 AY770
EU187489.1 gg_id:252214 Pseudomonas pseudoalcaligenes str. W-20 EU187
DQ318861.1 gg_id:152555 Pseudomonas syringae str. 8532 DQ318
AY486353.1 gg_id:107780 Pseudomonas aeruginosa str. AU1423 AY486
FJ009387.1 gg_id:318773 Pseudomonas aeruginosa str. E1 FJ0093
EU537189.1 gg_id:286969 profile human microbiota antecubital fossa (inner elbow) skin clone nbt68b05 EU537
FJ194516.1 gg_id:331057 Pseudomonas citronellolis str. LCB03 FJ1945
Z76665.1 gg_id:8518 Pseudomonas oleovorans str. DSM 1045T () Z76665
EF157824.1 gg_id:242070 Pseudomonas aeruginosa str. VP1 EF1578
AB364957.1 gg_id:253299 Pseudomonas aeruginosa AB364
EU535554.1 gg_id:282463 profile human microbiota antecubital fossa (inner elbow) skin clone nbt27b09 EU5355
GQ054353.1 gg_id:450333 Topographical and Temporal Human Skin Microbiome skin umbilicus clone nbw1108 GQ054
FJ788528.1 gg_id:542757 Pseudomonas aeruginosa str. AB4 FJ7885
DQ094145.1 gg_id:132282 Pseudomonas aeruginosa DQ094
FJ976651.1 gg_id:450877 Pseudomonas aeruginosa str. DBT1BNH3 FJ9766
AF531099.1 gg_id:61195 Pseudomonas aeruginosa AF5310
GU131270.1 gg_id:534617 Pseudomonas aeruginosa str. EB-4 GU131
EU428823.1 gg_id:262434 Pseudomonas aeruginosa str. RRLJH2 EU428

848.9	2971.9	3057.3	3024.5	3074.8	4588.0	1819.8	4271.1	1533.7	4188.9	3144.5
798.2	2335.7	2917.7	2896.7	2873.2	3329.8	2455.2	3208.5	1582.6	3299.8	2041.3
942.8	1887.8	2179.3	2261.7	2098.1	3639.4	1615.9	4272.7	1768.6	3978.6	2949.9
3693.7	3350.9	4001.9	4035.5	3999.8	4490.5	3312.9	5320.0	2679.2	5305.0	3882.2
119.9	3626.9	4922.8	3829.6	5574.3	5987.6	2759.8	5198.0	1680.2	3694.6	2829.9
3332.7	3593.6	3914.5	3822.2	4041.5	4855.6	3328.9	5014.0	3660.9	5371.1	3323.1
212.9	1812.9	2033.1	2324.1	2303.9	3601.6	1488.2	2963.6	1172.1	4207.2	1475.8
1588.6	3831.8	5814.7	5254.2	4595.1	6348.1	4219.0	5676.0	2572.8	7318.2	4066.1
1931.3	3256.9	6615.6	3237.3	3945.7	4825.6	2693.1	5575.9	2966.9	4666.2	3791.9
262.1	1099.4	2159.8	969.9	914.6	1383.0	1151.7	1600.7	590.7	904.3	1334.7
990.1	2443.8	3191.4	2824.1	2478.3	3064.8	2606.5	3048.1	2027.5	3546.2	2387.1
2516.1	6491.8	5809.0	7947.1	8200.7	8155.9	7399.8	7734.6	4820.7	4673.5	9140.6
1852.5	7089.1	7393.0	7659.3	6917.8	6728.7	7089.3	7919.8	10164.1	7465.5	9070.7
3470.2	5290.5	5435.5	5902.2	5173.8	5472.6	5994.5	6089.9	5366.5	4344.2	5585.0
3390.1	3529.9	3333.3	3759.3	3564.0	4539.4	3668.3	4703.5	3568.0	4703.4	4739.6
14045.8	8783.7	8373.5	8518.5	7757.9	9932.3	7648.2	9600.4	10874.9	10880.5	11176.1
12280.9	4864.9	5135.5	5227.1	4442.8	5023.2	4549.4	4574.7	6148.2	6181.9	6850.9
2871.7	6280.9	5887.4	6030.1	8368.3	6551.5	7485.4	7516.5	3692.4	5766.5	6824.9
346.6	3547.3	4015.7	3969.6	4086.6	4824.8	3191.1	5790.3	2681.3	4849.9	3752.6
3032.9	1665.7	1730.3	1855.0	2012.1	2306.3	1830.9	2534.0	1713.6	1469.8	2061.2
34.8	46.9	51.8	61.6	127.4	32.1	63.8	60.4	26.2	35.4	26.2
4834.7	4189.2	4794.9	6531.9	5255.8	5740.2	5842.3	7300.1	6849.1	4272.9	7423.0
4919.3	4797.2	5544.3	5636.0	4728.0	5207.0	4956.1	7119.0	6011.8	4606.7	6015.2
311.9	2611.2	3541.4	3957.0	2421.3	4518.6	1971.0	5683.8	3154.2	5421.6	3323.9
327.1	2728.1	2520.0	2652.0	3179.6	3720.1	3027.2	4383.7	2227.6	4456.8	2822.1
3095.1	3662.0	4619.8	4688.1	4300.5	6869.0	3062.7	6377.2	3432.6	7475.8	4927.4
12818.9	6307.7	6108.8	6336.9	6031.1	6476.1	5341.7	8186.9	6480.2	7164.4	9846.0
8311.7	5000.4	4903.6	5735.2	5558.9	6893.4	4838.1	6417.5	7403.0	9721.4	6871.5
1918.9	3002.3	3648.1	3455.3	3375.3	3201.7	3591.3	3765.7	4979.6	4295.2	2827.0
1723.6	4157.9	4672.2	5539.4	4553.5	6284.6	3807.5	6619.7	5730.7	6386.6	5482.1
10995.8	7029.6	6499.7	7744.3	8063.7	7243.6	8253.3	7536.6	10019.2	6931.4	7450.5
712.2	3595.3	3227.8	2811.8	5486.1	4229.3	4418.5	6701.2	1405.4	3606.9	4916.4
79.9	2659.8	2088.2	2602.2	2863.0	4536.5	1743.4	3618.2	2111.1	6482.3	1986.0
22234.4	10535.3	9552.6	10177.5	9519.2	10861.5	9938.4	11378.9	15332.3	11250.2	14472.1
199.7	1980.9	3197.5	1842.4	1726.0	2776.0	1550.4	2741.1	1365.1	3288.2	1813.5
6907.2	5011.5	5333.3	5634.9	5209.5	5662.6	5264.2	5257.9	6888.6	5559.5	7127.6
68.3	377.7	391.9	539.1	668.7	2399.2	239.7	310.8	88.9	3243.4	170.4
1372.4	1689.0	1796.0	1374.3	1451.2	1829.5	1187.8	2495.6	1195.3	1932.7	1527.4
1084.3	3568.7	4721.0	4563.9	3659.8	4713.3	3342.0	5109.6	3411.9	2783.6	4396.4
9170.5	6436.3	6920.8	7888.2	7697.5	6945.5	7420.1	8529.4	7234.0	6081.6	7433.0
3716.1	3796.9	3504.7	3644.0	3547.8	4231.3	3881.6	3696.6	3398.4	7070.8	3096.9

4946.3	3319.0	2633.6
3671.4	2966.5	3512.9
3581.9	2778.2	1440.0
6107.0	4738.4	3083.9
5631.8	3684.2	2557.7
5229.5	4651.0	3652.0
4275.2	3205.2	3141.7
5682.3	5543.5	4754.3
5101.9	4440.0	3771.9
1261.8	1854.7	958.4
3675.4	3989.7	4580.2
7342.3	6143.0	8134.4
6689.5	8127.6	7167.5
5581.0	5910.4	6005.7
3580.5	3940.4	3399.6
9138.9	8453.6	7101.2
4248.6	6151.8	4525.9
6838.9	6330.7	7261.9
7534.7	3536.4	4294.1
2451.8	2033.5	1552.3
122.8	74.2	129.2
6651.5	6898.5	4011.0
7066.0	5835.0	4749.7
5672.6	4561.0	2517.2
3561.0	3011.3	2366.5
7241.0	4764.2	3417.0
7209.2	6571.7	4697.0
6738.6	8778.8	5607.8
4075.3	4135.3	4339.9
7903.8	6305.1	4504.2
7224.3	7810.0	8223.8
4598.0	2874.2	3116.1
4588.9	2379.5	1332.2
10902.2	11549.7	11162.0
2929.3	3096.5	1718.5
4878.9	6315.9	5098.5
1721.9	1122.3	305.4
1742.4	1872.2	1520.0
4588.6	4056.9	2736.0
8280.3	7480.9	8706.9
3802.1	3857.0	2422.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	3644
s__unclassified	3648
s__unclassified	3653
s__unclassified	3656
s__unclassified	3661
s__unclassified	3662
s__unclassified	3664
s__unclassified	3666
s__unclassified	3668
s__unclassified	3675
s__unclassified	368
s__unclassified	3692
s__unclassified	3693
s__unclassified	3695
s__unclassified	3701
s__unclassified	3702
s__unclassified	3708
s__unclassified	371
s__unclassified	3712
s__unclassified	3719
s__unclassified	3729
s__unclassified	3731
s__unclassified	3736
s__unclassified	3738
s__unclassified	375
s__unclassified	3753
s__unclassified	3755
s__unclassified	3761
s__unclassified	3767
s__unclassified	3768
s__unclassified	377
s__unclassified	3773
s__unclassified	3778
s__unclassified	3779
s__unclassified	3783
s__unclassified	3785
s__unclassified	3789
s__unclassified	379
s__unclassified	3805
s__unclassified	3807
s__unclassified	3808

FJ675189.1 gg_id:526355 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6751
FJ358435.1 gg_id:358990 Pseudomonas aeruginosa str. EBL-07 FJ3584
DQ289071.1 gg_id:144048 Pseudomonas putida Fe20 DQ289
EU821343.1 gg_id:342183 Pseudomonas mendocina str. LM7 EU8213
DQ530464.1 gg_id:164982 Pseudomonas sp. str. gap-f-39 DQ530
AJ316017.1 gg_id:29570 Paederus melanurus endosymbiont AJ3160
EF515488.1 gg_id:222712 Electricigen Enrichment MFC full-scale anaerobic bioreactor sludge treating brewery EF5154
FJ950669.1 gg_id:387747 Pseudomonas sp. str. d130 FJ9506
EU043330.1 gg_id:324324 Pseudomonas mendocina str. PASS3-slimb EU0433
DQ803319.1 gg_id:199647 human fecal clone RL311_aam23h11 DQ803
EU169149.1 gg_id:245779 Pseudomonas tolaasii str. B37 EU1691
DQ497784.1 gg_id:161169 Microbial within Ground Support Equipment and Flight Hardware Station's Internal DQ497
GU723305.1 gg_id:528277 Pseudomonas aeruginosa str. PSCMST2 GU723
EU373426.1 gg_id:265122 Pseudomonas aeruginosa str. YRR02 EU3734
AJ550466.1 gg_id:83866 Pseudomonas alcaliphila AJ5504
GQ388955.1 gg_id:511762 quality deterioration drinking system during serious red water outbreak clone J130 GQ388
Z76666.1 gg_id:8520 Pseudomonas pseudoalcaligenes str. LMG 1225T () Z76666
DQ095892.1 gg_id:134548 Pseudomonas plecoglossicida str. S3 DQ095
AB021373.1 gg_id:8434 Pseudomonas resinovorans str. ATCC 14235T AB0213
AF094735.1 gg_id:73739 Pseudomonas oleovorans str. ATCC 8062 AF0947
AF139996.1 gg_id:53457 Pseudomonas sp. str. ML-120 AF1399
EF586018.1 gg_id:240439 Methanol-assimilating anaerobic solid waste digester fed methanol clone M35_D20_ EF5860
AY486387.1 gg_id:105677 Pseudomonas pseudoalcaligenes str. AU4510 AY4863
DQ279822.1 gg_id:144098 Pseudomonas sp. str. D14 DQ279
AY689052.1 gg_id:100960 Pseudomonas sp. str. 6C_12 AY6890
FJ901043.1 gg_id:549234 Polymorphism microbial reservoirs water cut stage oil field clone G-84 FJ9010
EF102842.1 gg_id:241788 Pseudomonas aeruginosa str. P-5-3 EF1028
FJ853495.1 gg_id:539000 Pseudomonas aeruginosa str. ZSL-2 FJ8534
EF608177.1 gg_id:573436 Pseudomonas aeruginosa str. HT25 EF6081
DQ459316.1 gg_id:157858 Pseudomonas aeruginosa str. NRRL B-14935 DQ459
FM955874.1 gg_id:549837 Pseudomonas sp. str. Asd M6-6 FM955
AY953147.1 gg_id:115164 Pseudomonas otitidis str. MCC10330 AY9531
EU272857.1 gg_id:363576 Pseudomonas aeruginosa str. MK50 EU2728
DQ270690.1 gg_id:143958 Pseudomonas sp. B-2051 DQ270
FN429930.1 gg_id:584843 Pseudomonas sp. C2(2009) str. C2 FN4299
DQ984615.1 gg_id:253301 LY oil-contaminated soil clone LYC240 DQ984
EU043329.1 gg_id:315956 Pseudomonas mendocina str. PASS3-bpib EU0433
EU857418.1 gg_id:314447 Pseudomonas putida str. BF-S5 EU8574
FJ462715.1 gg_id:550332 Pseudomonas citronellolis str. YS-8 FJ4627
EF101781.1 gg_id:181146 Effect carbon source addition method on enrichment salicylate-degrading organisms EF1017
EU579530.1 gg_id:263193 Pseudomonas pseudoalcaligenes str. R32 EU5795

85.2	1189.0	1027.4	1076.2	1083.1	1884.9	939.6	1269.4	490.0	1026.5	837.7
972.3	5372.3	5589.2	5687.2	5444.8	7269.2	5347.4	7852.2	5003.5	8160.3	4450.6
3384.7	3490.8	3803.9	3720.8	4520.2	5627.5	4428.2	5231.4	2694.9	5293.0	3222.6
3063.0	2336.8	2603.8	2327.0	2912.2	3256.7	1624.2	3320.6	2024.1	2844.5	2119.7
3037.9	5615.2	5359.3	6064.2	6427.8	8643.8	4476.9	9630.1	5581.6	10479.0	7813.3
62.3	489.9	551.8	687.2	380.1	630.5	786.1	756.8	544.1	411.2	558.4
3896.4	4214.1	4502.4	4384.1	5141.8	5453.8	4703.4	5672.3	3942.2	7217.4	2909.7
3150.4	5304.0	5630.6	5882.4	6108.1	6042.3	6718.3	5810.7	5254.6	6357.0	5108.2
1264.4	3028.5	5316.0	2797.9	3802.4	4622.1	1946.3	4337.3	1056.7	4283.5	2813.8
8796.8	6343.2	6834.9	7499.6	8248.6	8042.9	7719.8	7667.8	6490.4	9347.3	6301.1
2173.6	3723.9	4406.1	4808.8	4717.8	5658.7	4265.7	4880.9	2579.3	7383.8	3330.3
57.2	2354.9	5201.3	6002.9	1797.7	4360.6	863.1	6603.2	8533.1	2554.6	3722.2
2145.9	4077.5	5580.3	4771.3	4577.3	5280.6	4614.9	6649.7	4511.5	5122.2	5421.9
3703.7	3647.5	3768.1	3410.7	3510.6	4121.6	2698.1	6064.6	3254.5	4765.6	4685.9
2898.0	3439.9	3650.9	3882.0	5764.0	4924.1	2731.4	3949.0	2132.6	4471.1	2594.2
431.2	3193.8	3816.5	3844.4	5639.4	4574.5	5094.1	5211.0	2891.8	2659.2	3747.6
118.9	2376.9	3545.0	2439.6	3635.2	3851.4	1289.4	3689.7	1425.8	2887.5	1915.0
1508.1	3820.9	4185.1	4082.9	5927.6	6884.8	2316.5	3837.2	2471.5	7610.3	4035.3
291.6	4098.3	4505.9	4429.7	6568.8	5627.9	4849.6	6364.7	2315.5	5631.6	5063.8
2302.4	3830.9	5963.7	3978.8	4336.4	5610.1	2304.0	6953.2	3402.6	4135.7	4179.5
1580.2	2084.6	2077.5	2155.0	2378.4	3202.3	2034.3	3031.5	1953.3	4333.1	1748.6
166.6	3107.1	1511.6	1730.4	1703.6	2487.5	1314.0	2806.8	758.9	1107.6	1912.7
210.6	3336.1	5970.8	3351.4	3490.8	5078.0	1651.4	6446.8	2607.5	3201.4	3351.2
4464.9	4417.8	4899.6	5477.4	4350.9	5595.8	4480.8	6752.3	5683.5	5476.7	5549.7
876.9	2946.7	4015.4	3689.2	3876.1	6122.5	2204.7	4365.1	2943.5	6051.5	2739.2
2177.5	5514.6	5667.3	5506.4	5637.3	6700.8	5476.4	5789.3	4084.7	8391.0	5106.7
471.0	3439.0	5670.7	3882.0	3731.9	3613.1	3324.1	4556.7	2909.5	3042.0	4116.6
4604.5	3548.2	3845.0	3222.0	3441.4	3847.4	2969.2	5465.1	2677.2	4149.9	3942.9
6756.8	4208.2	4631.1	4192.6	4422.1	4618.3	3938.4	5570.6	3844.6	5352.2	3698.1
5030.2	3788.2	4228.7	4749.5	4090.8	4715.7	3793.4	5767.0	3416.9	7171.2	5253.3
4143.1	2357.3	2559.3	2514.6	2243.8	2783.1	1985.6	3708.7	2559.3	3828.9	1710.9
154.5	3435.5	3348.8	3212.7	4045.7	4950.5	3303.6	7554.1	2730.2	4502.9	4412.8
3556.5	4925.5	7003.3	5399.2	5613.2	6662.0	4274.8	6997.5	5477.3	5469.4	6869.8
157.1	363.4	804.0	341.6	618.1	905.5	262.1	346.4	315.5	366.2	298.4
122.2	2672.0	3157.1	3366.0	3743.5	4609.0	2194.7	4767.4	1230.2	2174.1	3999.2
3026.0	4137.9	4444.4	4504.6	5047.6	5605.3	4300.5	6503.6	3388.2	4248.4	5420.8
1045.5	2857.6	4289.5	2613.3	4482.5	4474.4	1726.2	3476.0	765.1	4083.6	2075.9
2492.5	6371.6	6846.5	7580.5	7949.6	10267.1	5916.6	7605.8	5465.7	12286.8	8617.9
7471.9	4928.5	4962.3	6180.9	5575.2	6727.4	5807.6	8243.7	5340.3	6173.4	5268.9
10291.0	6840.2	5956.8	7045.4	6869.2	7203.9	6003.3	6616.1	7885.5	6946.9	9294.5
1713.2	4203.6	5308.0	4553.0	5911.5	5957.7	3317.9	5472.2	2471.5	5533.2	6081.7

2114.3	1466.3	1019.9
8065.8	4750.7	3861.8
5929.8	5486.0	4509.7
3590.5	2743.3	1745.0
8888.9	6968.5	5331.7
590.7	562.7	207.6
5470.0	5648.7	4908.1
6060.6	6603.7	8096.0
4839.2	3117.5	3279.5
8104.5	6207.5	5863.4
5983.3	5969.4	4225.7
6980.3	3394.9	998.1
6035.5	5013.7	4235.2
5108.7	4528.5	2686.5
4364.7	3786.3	2767.2
5616.3	4169.4	4820.8
3748.9	2254.1	1679.3
5138.9	4812.6	4429.3
5145.5	4115.1	4561.2
5782.1	4475.4	2515.6
2632.2	2939.8	1756.8
1560.4	1437.9	1618.6
5508.0	3967.2	2252.4
6552.5	5545.1	4144.9
6339.7	4472.3	2949.6
7561.3	5577.2	4865.5
4380.9	4844.4	3758.5
3971.1	4357.4	3610.9
5576.5	5075.0	5090.0
5081.5	4783.9	3304.7
3373.5	2969.2	2471.6
5589.6	4231.8	3035.9
7540.5	5836.0	3901.1
396.3	648.5	467.9
4624.2	3466.7	1793.5
6067.2	4450.1	3610.9
4217.6	2662.3	3135.9
9765.1	7757.7	6034.5
9361.4	6591.7	4937.3
6447.1	5145.0	5547.0
5621.4	5656.4	4140.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	3811
s__unclassified	3814
s__unclassified	3822
s__unclassified	3827
s__unclassified	3828
s__unclassified	3833
s__unclassified	3837
s__unclassified	3838
s__unclassified	3845
s__unclassified	3849
s__unclassified	3865
s__unclassified	3868
s__unclassified	387
s__unclassified	3872
s__unclassified	3877
s__unclassified	3878
s__unclassified	388
s__unclassified	3881
s__unclassified	3885
s__unclassified	3887
s__unclassified	3898
s__unclassified	39
s__unclassified	3900
s__unclassified	3916
s__unclassified	3917
s__unclassified	3920
s__unclassified	3923
s__unclassified	393
s__unclassified	3932
s__unclassified	394
s__unclassified	3942
s__unclassified	3952
s__unclassified	3959
s__unclassified	396
s__unclassified	3964
s__unclassified	3965
s__unclassified	3967
s__unclassified	397
s__unclassified	3972
s__unclassified	3974
s__unclassified	3976

EU841539.1 gg_id:321313 Pseudomonas sp. str. 418 EU841
EU937756.1 gg_id:304789 Pseudomonas sp. str. JG 13 Iti 9 EU937
GQ389015.1 gg_id:580124 quality deterioration drinking system during serious red water outbreak clone J63 GQ389
AY748891.1 gg_id:104313 Pseudomonas aeruginosa N17.35 AY748
EU109736.1 gg_id:256066 Pseudomonas aeruginosa str. CR-25 EU109
EF091149.1 gg_id:248422 Pseudomonas sp. str. 19rlim EF0911
AJ278107.1 gg_id:66198 Pseudomonas sp. str. KI AJ2781
FJ657973.1 gg_id:543148 Metalworking Fluids and Aerosols Metallurgy Plant metalworking fluid clone Winter_ FJ6579
AF139998.1 gg_id:53970 Pseudomonas sp. str. ML-124 AF1399
EF509416.1 gg_id:220349 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5094
X92133.1 gg_id:71972 Lake Elmenteita isolate 45E3 X92133
EU888911.1 gg_id:312742 Pseudomonas sp. str. CL-AP6 EU888
EU538380.1 gg_id:286403 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88h01 EU5383
DQ872929.1 gg_id:163170 Pseudomonas sp. str. BSL3 DQ872
AF448033.1 gg_id:111937 Pseudomonas aeruginosa str. S1-1 AF448
FJ900979.1 gg_id:510176 Polymorphism microbial reservoirs water cut stage oil field clone G-15 FJ9009
EU535314.1 gg_id:280820 profile human microbiota antecubital fossa (inner elbow) skin clone nbt01e06 EU5353
FJ901060.1 gg_id:509240 Polymorphism microbial reservoirs water cut stage oil field clone G-98 FJ9010
EU311211.1 gg_id:244918 Pseudomonas mendocina str. zyj1-4 EU311
GQ389188.1 gg_id:543389 quality deterioration drinking system during serious red water outbreak clone D60 GQ389
GQ884172.1 gg_id:560075 Pseudomonas aeruginosa str. SH-P GQ884
AY738649.1 gg_id:150711 Pseudomonas putida str. HOT19 AY738
AF225956.1 gg_id:28841 Pseudomonas aeruginosa AF2259
FJ830845.1 gg_id:540820 Pseudomonas alcaligenes str. Y34 FJ8308
FJ674304.1 gg_id:526122 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6743
EU034723.1 gg_id:571092 Pseudomonas aeruginosa str. swu31-2 EU0347
AF118398.2 gg_id:66758 Pseudomonas sp. str. AST1 AF1183
FJ893914.1 gg_id:536878 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8939
AB037546.1 gg_id:47079 Pseudomonas aeruginosa str. #47 AB0375
EU538530.1 gg_id:282256 profile human microbiota antecubital fossa (inner elbow) skin clone nbt231c12 EU5385
L37366.1 gg_id:8488 Pseudomonas mendocina str. KR L37366
DQ300317.1 gg_id:141270 Pseudomonas sp. str. L24 DQ300
AF448038.1 gg_id:112197 Pseudomonas aeruginosa str. SCD-1 AF448
EU538383.1 gg_id:284088 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87b06 EU5383
DQ985230.1 gg_id:182210 Pseudomonas sp. str. Man1 DQ985
GQ388928.1 gg_id:575928 quality deterioration drinking system during serious red water outbreak clone J105 GQ388
FJ657941.1 gg_id:573409 Metalworking Fluids and Aerosols Metallurgy Plant metalworking fluid clone Winter_ FJ6579
EU082809.1 gg_id:245977 Pseudomonas sp. str. MY0506 EU0828
DQ837570.1 gg_id:166237 Pseudomonas sp. K1 DQ837
EF011163.1 gg_id:173833 Pseudomonas aeruginosa str. PT2 EF0111
EF509324.1 gg_id:221914 Loss During Antibiotic Treatment 1 Intubated Patients Colonized Pseudomonas aerug EF5093

135.0	1317.2	1462.7	1540.4	2702.6	1941.0	806.5	1028.6	280.0	1110.1	1371.8
2824.4	2598.0	3656.4	2469.0	2119.5	3455.5	2079.2	3535.7	2381.2	4015.4	3808.5
12592.8	7141.5	7129.7	7768.8	7515.3	7725.8	8022.9	8048.9	7870.3	6879.7	12007.9
68.9	712.4	788.1	900.2	470.4	841.3	336.0	2749.6	531.4	333.0	1083.7
2124.9	4182.9	4603.6	4391.8	4870.2	5287.6	4501.3	6360.9	3104.1	3721.1	4493.9
169.9	2582.9	5064.8	2222.4	3475.3	3457.5	2569.0	3621.1	1905.7	2427.9	1652.9
9885.0	2955.4	2812.9	3049.1	2906.6	3605.0	2667.9	4416.9	3193.2	5223.1	3431.0
12033.0	5999.8	5911.0	6296.5	6578.2	6720.1	6030.1	6497.2	6084.4	6684.8	6100.2
3175.4	1280.1	2751.7	1887.2	1524.1	2250.2	1618.7	3391.8	1223.0	2747.0	1905.5
3076.8	2308.0	2129.9	2168.0	2056.5	3672.1	1796.1	4085.7	1765.4	4004.1	2937.4
59.9	491.1	476.8	634.0	539.8	834.9	160.5	437.5	171.3	360.8	235.2
1363.9	3266.9	3572.4	3835.3	4631.9	5002.3	4329.1	4943.1	3717.1	5164.7	2546.0
3249.8	4773.6	5349.1	5154.7	5542.4	7115.9	4400.6	8123.7	5280.9	7999.3	6680.0
4290.1	3502.5	3106.8	2841.4	3123.7	3669.4	2614.0	6101.4	2938.9	3631.6	5421.8
11903.0	6715.1	7608.6	8857.3	7533.8	7512.6	8806.1	9276.6	8840.9	8039.9	8552.4
982.7	2488.7	3696.1	3794.9	1826.0	3298.7	2019.4	4584.5	4845.1	3661.2	2731.5
7955.8	6449.1	8437.4	7371.5	8371.8	7639.6	7117.3	8728.3	10510.0	7171.1	9637.9
2933.6	3770.0	2503.9	2139.8	2552.7	4925.1	2454.7	3805.0	3089.3	6249.3	3061.4
116.8	2664.7	3182.9	3080.4	3478.1	4215.1	1065.6	5419.6	2114.8	1667.7	2574.0
2645.5	4517.0	4961.6	4901.3	5449.1	5629.6	4294.9	5802.0	3739.5	6639.3	6837.8
11046.5	8644.2	10791.0	9358.3	11850.7	10067.8	10660.3	10389.6	9791.8	9797.5	11770.1
1278.0	5678.9	5143.2	6148.7	6605.1	8105.7	3736.1	6760.8	5432.0	9652.3	7076.5
9932.5	6208.4	4800.0	7448.7	7251.2	7204.2	4876.7	7194.5	8208.9	8958.9	10247.5
274.4	2620.5	2655.0	2772.4	2937.9	4231.6	2546.2	3219.2	2376.9	4383.6	1741.6
2128.2	4147.9	4385.4	4755.5	4810.4	5456.9	3970.4	6636.9	3509.7	6210.7	4912.0
3531.7	4535.9	6999.7	5370.6	5711.1	6365.4	4274.7	6988.5	5457.7	5522.8	6858.4
16868.0	4361.5	5549.3	4652.5	4424.9	6367.7	4424.8	5089.8	5216.7	7686.5	5493.7
26771.6	8709.5	8750.5	9656.1	8964.1	9636.5	8418.2	8296.9	10756.3	12357.6	11776.7
4808.4	4173.7	5094.6	4778.6	4640.9	5096.9	4037.2	6278.7	5792.6	4224.9	4781.7
1830.8	6067.6	5153.7	5026.6	4954.4	6514.4	4199.6	5741.3	4565.7	5696.8	4976.8
722.9	3681.0	4070.1	4210.3	4094.3	4832.0	2707.5	5221.8	3155.6	4843.1	3585.9
14149.1	7981.7	7981.0	8899.8	6924.7	7821.5	7814.0	8758.5	10474.9	9008.4	11035.3
3418.1	7632.4	8115.1	9023.4	9004.7	8391.5	9518.3	8544.6	11860.5	6943.8	8904.8
10134.3	8105.8	8530.0	9207.2	7999.1	9154.0	8991.8	8433.1	11156.5	11577.6	11369.6
189.7	3671.5	3819.0	2849.7	4346.0	4846.0	3480.8	3726.9	1246.7	2912.1	5849.4
305.5	1929.3	2098.6	2032.5	1910.6	2444.8	1537.4	3083.6	1946.9	2233.4	1458.9
1086.6	3183.8	3188.4	3436.9	3744.7	4297.8	2468.7	4442.7	3662.4	3878.3	4139.7
3774.3	5287.9	6061.5	6356.2	6163.8	7040.8	5698.7	8015.3	6251.0	6974.7	6772.7
10828.9	6784.9	6857.3	7394.4	6513.0	7464.6	6718.1	8884.2	7447.3	7850.7	9625.5
5631.0	4969.0	5511.4	5602.6	4901.2	5229.3	4834.5	6466.8	7601.8	4268.0	5673.2
451.4	3023.4	4053.6	3761.3	3455.3	4492.6	2539.7	5411.3	2771.1	3258.6	3603.2

1711.9	1020.9	1064.0
3376.6	4058.2	2034.7
8297.3	8214.4	6260.5
1056.8	1223.1	410.9
5787.0	4563.9	4191.2
4719.4	2940.7	3445.0
3650.8	3303.3	3399.3
6617.7	7264.0	4464.4
2267.2	2207.3	1480.4
3148.2	3578.4	1509.5
1411.6	538.2	198.6
5072.7	4620.5	3917.9
7044.1	5526.4	3437.9
3874.6	3012.4	1275.7
8628.5	8079.4	7821.1
4734.7	4262.4	2697.1
8189.4	8402.6	5827.0
3891.1	3829.5	3175.5
4142.6	3530.2	1319.5
4992.3	5679.4	4850.2
10624.2	9861.7	9152.2
8014.4	5813.0	4029.0
7495.8	7883.7	5855.4
3345.7	2091.8	1011.5
5439.8	5822.4	4958.7
6620.9	5736.1	3925.4
5718.7	5640.9	4698.2
9283.9	9637.3	8744.3
5524.3	5724.2	4885.0
5336.8	6467.5	5061.4
5957.5	4651.0	3109.5
8998.2	9772.1	8084.4
8054.7	10062.6	9220.3
8366.5	9895.6	8363.3
4383.1	3126.5	2985.6
3890.1	2125.5	1399.4
3519.2	4095.8	2098.6
8035.7	6603.0	5993.6
7990.6	7737.2	6565.8
6334.3	5374.2	4442.2
6013.9	3722.6	2816.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	3977
s__unclassified	3982
s__unclassified	3984
s__unclassified	3985
s__unclassified	3987
s__unclassified	3989
s__unclassified	3997
s__unclassified	400
s__unclassified	4001
s__unclassified	4007
s__unclassified	401
s__unclassified	4013
s__unclassified	4015
s__unclassified	4018
s__unclassified	4019
s__unclassified	4024
s__unclassified	4025
s__unclassified	403
s__unclassified	4031
s__unclassified	4033
s__unclassified	4040
s__unclassified	4041
s__unclassified	4050
s__unclassified	4051
s__unclassified	4056
s__unclassified	406
s__unclassified	4062
s__unclassified	4065
s__unclassified	4067
s__unclassified	407
s__unclassified	4077
s__unclassified	4079
s__unclassified	4084
s__unclassified	4091
s__unclassified	4095
s__unclassified	4096
s__unclassified	410
s__unclassified	4109
s__unclassified	4111
s__unclassified	412
s__unclassified	413

GQ180119.1 gg_id:574699 Pseudomonas aeruginosa str. 2WS8 GQ180
FJ671773.1 gg_id:529220 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6717
EF102838.1 gg_id:236884 Pseudomonas aeruginosa str. G-229-1 EF1028
FJ715961.1 gg_id:550759 Pseudomonas aeruginosa FJ7159
GQ388981.1 gg_id:511565 quality deterioration drinking system during serious red water outbreak clone J30 GQ388
EU286805.1 gg_id:257108 Pseudomonas sp. str. S3-3 EU2868
DQ308541.1 gg_id:145218 Pseudomonas sp. L6 DQ308
FJ184324.1 gg_id:319416 structure and physiology pyrene-degrading consortia growing biofilms model trickle c FJ1843
FJ674967.1 gg_id:513753 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6749
AB361591.1 gg_id:267729 Pseudomonas aeruginosa str. 841 AB3615
GQ222267.1 gg_id:552840 Pseudomonas reactans str. AS1 GQ222
FJ901156.1 gg_id:541120 Polymorphism microbial reservoirs water cut stage oil field clone Z-85 FJ9011
Z76672.1 gg_id:70154 Pseudomonas aeruginosa str. DSM 50071T () Z76672
AY264292.1 gg_id:85816 Pseudomonas aeruginosa AY2642
AY443041.1 gg_id:105353 Pseudomonas sp. str. HS5322 AY4430
DQ420635.1 gg_id:151159 Pseudomonas aeruginosa str. PGSL 03 DQ420
AM697417.1 gg_id:225569 sequencing libraries indoor dust clone BF0001D032 AM697
EU539418.1 gg_id:285673 profile human microbiota antecubital fossa (inner elbow) skin clone nbt238e05 EU5394
EU939691.1 gg_id:309323 Pseudomonas sp. str. SC06 EU9396
EU780001.1 gg_id:326591 Pseudomonas pseudoalcaligenes str. 23 EU7800
EU252491.1 gg_id:237266 Pseudomonas sp. str. AM3 EU2524
AB021419.1 gg_id:8561 Pseudomonas denitrificans str. IAM 12023 AB0214
X92134.1 gg_id:43286 Lake Nakuru isolate 52N3 X92134
DQ140184.1 gg_id:139321 Pseudomonas sp. LJLP1-15 DQ140
AM088480.1 gg_id:142278 Pseudomonas citronellolis str. BG 6903 AM088
FJ893386.1 gg_id:548779 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8933
EU308476.1 gg_id:357842 Pseudomonas sp str. TA022 EU3084
AJ853507.1 gg_id:110023 landfill leachate clone GZKB12 AJ8535
AB088116.1 gg_id:78808 Pseudomonas thermaerum str. T1 AB0881
FJ937924.1 gg_id:513078 Pseudomonas sp. str. LS197 FJ9379
FJ901066.1 gg_id:513913 Polymorphism microbial reservoirs water cut stage oil field clone G-104 FJ9010
EU661707.1 gg_id:283175 Pseudomonas aeruginosa str. NBRAJG91 EU6617
FJ675280.1 gg_id:527897 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6752
GQ388992.1 gg_id:587812 quality deterioration drinking system during serious red water outbreak clone J40 GQ388
AY699593.1 gg_id:106717 soil contaminated with polyaromatic hydrocarbons clone SAL2d7 AY6995
EU931560.1 gg_id:336985 Pseudomonas aeruginosa str. ZFJ-5 EU9315
DQ365584.1 gg_id:145159 Pseudomonas sp. str. GS08 DQ365
GQ241352.1 gg_id:570943 Pseudomonas sp. str. C23 GQ241
AF237678.1 gg_id:18018 Pseudomonas aeruginosa str. M2E AF2376
DQ481477.1 gg_id:157307 Pseudomonas putida str. VTs-34 DQ481
EU536369.1 gg_id:285992 profile human microbiota antecubital fossa (inner elbow) skin clone nbt62e06 EU5363

43992.9	12954.1	12798.7	11930.8	11433.9	11231.9	11671.1	11188.5	16523.7	14472.6	16766.6
3928.1	4970.7	5009.9	4857.8	4264.4	6182.6	5348.2	5892.9	6789.7	7146.0	5337.6
5969.5	10200.6	7706.7	6987.7	5522.2	6745.9	6169.0	5735.7	5659.8	12029.3	7432.5
3737.8	5568.0	5671.1	5969.5	6163.4	6098.1	6646.0	5733.2	6704.0	6721.6	5903.5
1438.3	3806.3	4595.9	4125.3	4811.0	4515.7	5600.6	5077.5	2195.7	2582.7	6257.8
2160.5	2304.3	2702.8	3190.0	3667.1	2799.7	4007.3	3578.5	2110.3	1629.6	2702.8
3085.4	4352.0	5766.0	5506.6	5035.5	6205.8	4026.4	6388.0	5338.3	5067.3	5402.3
1531.5	1887.8	2426.2	2269.0	2215.3	3488.9	2075.3	2920.9	835.1	5364.3	2130.4
10116.1	6206.5	6139.4	5826.7	6136.8	7458.0	6181.9	8394.9	7701.9	7841.0	8509.1
6422.8	5471.5	5341.9	5460.5	4770.4	5771.5	5253.4	6346.3	7864.6	6788.1	4800.8
9638.1	9128.8	7805.1	8223.8	7764.6	9670.9	7738.3	7401.7	9489.9	10222.5	8952.8
1949.7	3684.7	3986.4	3967.6	3636.8	4786.9	3882.4	5012.9	4276.9	7043.1	3638.0
3216.7	3514.9	3434.9	3212.7	3385.1	3900.9	2660.3	6199.6	2785.5	4108.7	4150.4
7544.8	5246.5	5257.7	5029.5	4918.0	4958.1	4565.6	6972.5	5782.2	5195.3	6353.8
2619.1	2081.8	3219.9	2715.7	1945.3	2923.1	2391.1	3330.4	2050.1	5022.1	2254.0
29542.1	10793.5	10038.9	10737.4	10177.0	10679.3	10737.9	9408.0	15708.6	11372.0	15965.5
141.1	288.2	639.9	575.2	329.4	787.1	214.9	1239.8	475.0	544.2	333.8
2523.0	5612.5	4727.5	5497.7	5116.9	6651.9	4166.7	7261.9	4051.2	6470.2	5985.2
1076.1	3031.5	3240.2	3628.8	3543.1	5222.9	3189.9	6201.6	2376.2	6197.6	4595.8
6627.3	6066.7	6621.3	5544.5	6561.8	8275.4	3535.7	9597.7	4627.8	9567.4	9228.0
1405.5	3007.9	3796.3	3106.4	4825.0	5061.1	3170.3	3644.8	2263.4	4163.8	2125.3
5894.6	2705.5	2576.1	2437.4	3027.3	3029.3	2527.4	3304.5	2823.5	3891.1	3045.3
420.6	3307.5	4102.0	3386.7	3341.2	4717.3	1342.6	3545.3	1590.4	4563.8	2623.1
3835.9	2481.8	3364.3	3382.9	3554.7	2981.7	2841.3	4141.6	2107.1	1175.9	3091.6
643.6	4305.9	4296.4	4704.4	5532.9	6392.0	4167.5	6346.8	3572.9	7258.2	4715.9
3730.9	3736.3	4554.9	4785.6	4763.7	5956.5	4046.7	5180.9	3728.8	7888.2	3090.2
342.2	2445.1	2879.5	3108.8	3547.8	4320.7	2149.5	3738.3	1526.4	2879.7	1830.1
654.9	2471.3	3385.2	3508.0	2234.5	2714.2	2857.2	3341.2	2651.2	2975.7	2813.2
3748.2	4066.1	4224.3	4130.8	4075.3	4209.5	3676.6	6223.6	3115.8	4075.5	4210.6
3346.3	3676.8	4017.4	4505.4	3126.3	4873.9	3829.8	4713.2	3318.3	6775.0	2611.4
651.1	3609.8	3473.2	3602.7	4063.7	6047.7	1899.3	6714.0	1882.6	6248.8	4809.3
38.8	1130.5	1393.4	1525.8	1217.7	2509.4	917.0	1630.8	823.5	1704.6	559.6
12025.1	4956.3	4686.6	4986.0	5908.2	6375.5	5537.3	7673.3	4400.5	6048.1	5818.8
8944.3	7935.2	7998.9	8842.1	10335.4	9785.0	9552.7	9388.2	10810.7	10586.9	11923.1
238.8	1775.7	1435.2	1270.3	1837.0	2620.4	1241.0	1945.8	846.9	2536.0	1604.2
1393.1	4374.1	6483.4	5306.6	6612.0	6408.9	3745.1	7263.0	4636.7	4497.9	5426.4
425.1	2841.9	4016.2	3720.4	4163.1	6848.7	1962.8	4107.7	2409.8	6845.7	2422.4
1667.8	4709.5	5181.5	6270.2	4791.7	6526.9	3417.3	6329.2	4836.3	6754.5	6166.7
30.5	280.4	307.7	366.4	111.2	215.7	66.3	264.0	193.4	256.2	91.9
1650.1	3229.8	3254.5	3623.6	3927.7	5816.0	2207.3	3862.6	1107.5	5986.1	3490.3
6614.3	9002.9	8380.3	9941.9	10753.5	8973.1	10887.8	8658.2	9344.0	9619.9	12908.2

10852.7	10404.5	11131.4
5078.3	5884.6	4807.0
6326.6	7553.1	6546.2
5663.8	6672.8	5942.4
4253.0	4609.9	5583.6
3385.9	3044.1	2760.1
7650.5	5386.1	3895.9
2686.2	2926.4	3084.5
6799.2	7880.7	6083.2
5927.5	7546.9	5350.7
9115.4	8536.0	6791.0
4832.8	5064.9	5379.6
5061.7	4132.3	2562.4
6162.3	6116.6	4492.9
3066.1	3257.8	3186.1
9359.4	11247.3	9383.5
1165.9	897.5	343.6
7281.8	7167.1	9469.0
5708.3	4281.7	4074.4
8246.5	6524.0	4992.0
4343.3	4554.8	4248.9
3058.9	3797.7	2356.0
5677.4	3251.2	1998.0
3745.1	3010.0	2971.5
7881.4	4972.6	4444.0
6968.1	5452.9	4116.7
4520.7	3500.0	1865.9
3111.7	3273.4	3701.4
5759.0	4884.2	6202.0
6159.3	6250.2	5981.9
6681.5	3484.1	2002.6
2591.6	1751.1	341.5
6183.3	6257.0	5910.1
9374.7	9939.9	8911.1
1859.3	1522.1	2087.2
6221.9	4701.6	4584.2
7105.1	4407.7	2475.4
6975.6	5366.1	4078.0
1013.2	411.7	71.8
5036.8	4129.9	2838.9
8880.1	9454.9	11390.9

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	416
s__unclassified	419
s__unclassified	42
s__unclassified	421
s__unclassified	424
s__unclassified	43
s__unclassified	432
s__unclassified	433
s__unclassified	434
s__unclassified	439
s__unclassified	440
s__unclassified	442
s__unclassified	443
s__unclassified	445
s__unclassified	447
s__unclassified	448
s__unclassified	450
s__unclassified	455
s__unclassified	457
s__unclassified	459
s__unclassified	46
s__unclassified	462
s__unclassified	466
s__unclassified	471
s__unclassified	473
s__unclassified	475
s__unclassified	477
s__unclassified	488
s__unclassified	49
s__unclassified	491
s__unclassified	493
s__unclassified	494
s__unclassified	500
s__unclassified	501
s__unclassified	503
s__unclassified	507
s__unclassified	508
s__unclassified	51
s__unclassified	515
s__unclassified	517
s__unclassified	518

GU354317.1 gg_id:523150 Pseudomonas putida str. L1-5 GU354
AY866408.1 gg_id:111749 Pseudomonas rhizosphaerae str. OW-2 AY8664
AY308050.1 gg_id:88404 Pseudomonas putida str. AZ22R1 AY3080
FJ494693.1 gg_id:512429 Pseudomonas putida str. SY45 FJ4946
EU536306.1 gg_id:283773 profile human microbiota antecubital fossa (inner elbow) skin clone nbt62c10 EU5363
NZ_ABZR01000729.1 gg_id:569411 Pseudomonas syringae pv. oryzae str. 1_6 NZ_AB
EU214613.1 gg_id:328976 Pseudomonas fluorescens yb126 EU2146
EU734169.1 gg_id:461530 Pseudomonas plecoglossicida EU7341
AM410631.1 gg_id:177686 Pseudomonas fluorescens str. 9zhy AM410
EU537179.1 gg_id:284941 profile human microbiota antecubital fossa (inner elbow) skin clone nbt68a03 EU5371
FJ892842.1 gg_id:559778 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p FJ8928
EF051575.2 gg_id:198685 Pseudomonas putida str. T7-5 EF0515
FJ607147.1 gg_id:513959 Pseudomonas syringae pv. actinidiae str. ICMP 9853 FJ6071
EF515714.1 gg_id:223417 Electricigen Enrichment MFC full-scale anaerobic bioreactor sludge treating brewery EF5157
AY206685.1 gg_id:82206 Pseudomonas jessenii str. PS06 AY2066
EU535797.1 gg_id:282047 profile human microbiota antecubital fossa (inner elbow) skin clone nbt10h06 EU5357
FJ894178.1 gg_id:540187 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8941
AY267192.1 gg_id:106450 Pseudomonas veronii str. 16-6A AY2671
AY970951.1 gg_id:115314 Pseudomonas vranovensis str. 2B2 AY9709
DQ868767.1 gg_id:165580 Pseudomonas tuomuerense str. Yuhua Xin DQ868
GQ200823.1 gg_id:533247 Pseudomonas plecoglossicida str. SP8 GQ200
AY054374.1 gg_id:105822 Pseudomonas pavonaceae AY0543
EU538192.1 gg_id:282127 profile human microbiota antecubital fossa (inner elbow) skin clone nbt82b02 EU5381
EF561642.1 gg_id:228381 Pseudomonas veronii str. T1/1 EF5616
AF074383.1 gg_id:8628 Pseudomonas migulae str. CIP 105470 AF0743
FJ894073.1 gg_id:534048 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8940
EU540285.1 gg_id:282167 profile human microbiota antecubital fossa (inner elbow) skin clone nbt113h06 EU5402
GU185861.1 gg_id:577433 Pseudomonas koreensis str. PBRs7 GU185
EU797470.1 gg_id:350105 sediment station DBSE Northern Bering Sea clone 130D73 EU7974
AY622320.1 gg_id:102554 Pseudomonas putida str. AS90 AY6223
EF011017.1 gg_id:362986 Pseudomonas putida str. WP090 EF0110
FM864215.1 gg_id:362580 Pseudomonas tolaasii str. LPPA 532 FM864
EU826028.1 gg_id:333541 Pseudomonas putida str. SRI156 EU8260
EU538858.1 gg_id:284602 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95c02 EU5388
GU391485.1 gg_id:537184 Pseudomonas sp. str. Pd1T GU391
FJ894574.1 gg_id:555704 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8945
EU536488.1 gg_id:285516 profile human microbiota antecubital fossa (inner elbow) skin clone nbt214f08 EU5364
FJ893512.1 gg_id:572521 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT2; ear p FJ8935
EU538922.1 gg_id:281466 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95c04 EU5389
EU620069.1 gg_id:269290 Pseudomonas putida str. GNA5 EU6200
EU434528.1 gg_id:264077 Pseudomonas fluorescens str. b338 EU4345

4677.0	6049.6	6830.7	8001.3	6823.3	8736.8	4993.8	8226.5	7988.2	11877.9	7750.5
1903.4	4080.2	5677.6	5297.2	4621.6	7103.3	3290.5	5655.6	3498.2	8395.9	3915.4
5164.9	6892.7	7314.8	8489.8	8581.4	8418.3	10080.8	8778.1	7943.8	9595.3	11995.3
2007.7	6781.6	6714.6	7189.0	8087.7	10937.3	4819.0	8041.1	5175.1	13152.9	8396.4
2488.8	4214.5	6103.6	5418.4	3770.0	6004.6	4069.4	7199.5	6439.0	7851.3	6150.6
141.3	2954.4	3904.6	3924.8	4674.5	5898.7	2131.8	3257.8	2063.2	6453.9	1272.7
9618.1	8598.4	7831.0	7971.3	7753.3	8638.4	7017.6	8095.1	8812.5	8048.8	9536.7
8239.3	7146.3	7543.1	7725.9	7879.4	9101.8	7686.3	7735.8	6458.5	11711.9	8577.9
1540.8	3965.1	4942.6	5346.2	5157.1	7751.6	3483.8	6339.8	4395.8	8422.4	4623.7
5374.3	5668.1	5574.6	5543.2	4814.9	7012.5	4763.0	7128.6	6056.0	8749.7	8721.3
11168.0	10819.7	11731.8	12960.6	10626.4	11708.6	11719.9	11706.1	13285.9	10097.4	14704.1
1013.6	4573.4	5268.4	5877.1	6791.0	9215.9	3255.9	5961.4	4812.9	11146.8	5010.2
1152.0	1684.5	2524.0	2444.7	2548.1	3182.0	1443.9	2705.6	1825.8	3093.6	1638.8
796.9	2350.1	3142.3	3471.8	4230.6	3916.2	4133.3	4188.5	2038.0	1694.9	2508.6
1905.0	4000.0	5359.9	4942.5	5034.2	6726.0	3528.0	5977.3	4961.4	7198.4	4627.0
4690.8	5908.8	4565.7	5895.1	5352.4	7008.3	5324.0	6789.6	5856.2	6394.9	7702.9
3980.2	6173.8	5960.7	6466.2	6289.4	7627.4	5775.9	6797.4	5625.8	8926.4	6529.0
4305.4	4988.4	6091.9	6025.6	6121.3	5743.8	5601.0	6824.5	5056.1	5707.7	6510.5
1724.3	2907.4	3559.8	3885.0	4324.9	5569.1	3248.6	5214.0	2350.5	6680.8	4676.6
180.5	1104.8	726.2	716.3	824.9	1258.7	365.7	1788.8	421.0	853.5	826.4
1410.4	4610.7	4844.8	5495.5	7277.8	8474.9	3837.7	5238.7	3119.4	10104.1	4103.8
3631.5	5453.8	7042.1	7765.6	7301.7	9099.8	6319.3	7896.3	6877.3	9411.8	6836.6
19537.0	5329.9	5240.7	5737.5	5014.1	5774.4	5550.0	5210.5	8317.3	6644.7	7916.6
4925.1	4392.0	4533.1	5257.5	5450.9	5500.6	4137.8	6242.6	3189.4	5287.0	5141.5
2397.5	4741.2	5424.4	5837.5	5532.5	7364.1	4102.2	8482.6	5651.9	8405.1	5283.3
1527.5	2411.9	2660.9	2624.7	2567.3	3261.8	2294.9	3405.3	2177.0	3047.9	2587.4
6855.7	6451.9	6390.8	6419.1	6360.1	8029.2	6488.1	7342.6	8859.2	9971.1	8626.5
1054.7	4075.9	4743.7	4993.2	5587.1	7894.3	3553.7	6167.3	4835.6	8671.5	4221.3
851.9	3251.2	3707.5	3643.5	4098.0	5116.5	3090.1	5448.1	2576.1	4995.0	3766.9
3823.0	3168.3	4167.5	3925.8	3365.8	5236.2	2567.4	4154.0	2447.2	6447.5	3166.8
73.3	2791.1	3405.2	3468.4	3228.2	6111.2	1233.7	4451.7	993.8	7602.1	3620.4
583.0	1806.4	2057.8	2017.0	2051.1	3726.9	1420.5	3740.6	1445.2	4225.7	3443.2
248.4	4431.5	4298.5	4055.1	4900.7	5254.8	1966.5	6524.9	2703.2	4615.2	5081.0
2346.2	5242.3	5435.5	5874.2	5000.5	6841.7	4785.6	6909.2	4199.5	7290.0	6192.9
3319.2	5360.7	6450.9	6515.0	7182.9	8475.8	5475.0	9668.7	5521.6	9213.3	8133.6
23837.0	9057.7	8033.1	8874.3	8325.5	9442.3	9143.6	9387.2	11947.4	11839.9	10907.0
6652.5	6771.5	7544.2	8979.8	9319.1	8806.5	7473.9	8292.9	7058.4	9137.9	6513.7
1638.0	5687.4	5247.0	4783.9	4315.9	6354.8	3924.0	6611.4	5539.6	6339.7	4900.4
1453.6	2370.1	2326.2	2647.5	2346.1	3656.5	2396.6	4231.0	1575.9	3308.2	2250.1
33394.9	11277.6	10783.4	11914.1	10144.7	11209.5	12238.1	10078.3	13989.6	16112.4	15408.2
5788.6	4293.4	4902.4	5310.8	5542.0	5469.5	5217.1	6476.4	4282.7	6121.5	5083.8

8428.8	7795.8	6296.2
8976.8	5182.3	2876.4
9152.7	8198.8	6368.5
10413.4	7188.7	5558.6
6838.6	7112.3	4874.0
6434.1	4899.8	2206.0
7403.1	7768.3	6712.5
8650.3	7813.6	7263.9
8308.8	5933.3	3338.6
7138.0	7944.6	7988.8
11050.5	12468.0	12996.1
8336.0	5129.0	3204.7
3784.9	2584.2	1375.7
3616.0	4069.3	4264.5
7668.3	5876.2	4291.6
6484.3	6958.6	6296.9
8262.4	6769.0	5041.6
6736.9	5680.3	4888.6
5933.3	4136.5	2370.7
1020.9	1264.4	664.3
7871.2	5872.0	3852.3
9397.7	7298.0	5865.9
5726.0	7264.3	5503.1
6924.1	5339.3	3925.5
8286.8	5228.9	3909.0
3118.0	3946.9	3497.2
7113.1	8238.0	7485.3
8547.4	5691.2	3393.9
4990.5	3940.1	3384.4
6627.1	5804.4	3717.2
7157.4	4918.1	2590.9
3143.6	2623.2	1973.2
5716.4	3572.9	2374.4
7382.9	6592.2	5358.9
9480.1	7024.5	5182.8
9007.6	11554.8	10691.2
10163.3	8478.7	6247.0
6481.7	5799.7	4708.3
4573.6	5308.4	6571.7
10983.6	11871.9	11023.6
6501.8	5217.6	4499.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	519
s__unclassified	521
s__unclassified	522
s__unclassified	529
s__unclassified	530
s__unclassified	532
s__unclassified	533
s__unclassified	535
s__unclassified	538
s__unclassified	542
s__unclassified	544
s__unclassified	545
s__unclassified	546
s__unclassified	548
s__unclassified	552
s__unclassified	554
s__unclassified	558
s__unclassified	559
s__unclassified	56
s__unclassified	565
s__unclassified	566
s__unclassified	56848
s__unclassified	569
s__unclassified	57
s__unclassified	570
s__unclassified	572
s__unclassified	573
s__unclassified	577
s__unclassified	58
s__unclassified	584
s__unclassified	586
s__unclassified	589
s__unclassified	59
s__unclassified	591
s__unclassified	595
s__unclassified	596
s__unclassified	6
s__unclassified	602
s__unclassified	608
s__unclassified	61
s__unclassified	613

DQ473439.1 gg_id:157065 Pseudomonas fluorescens str. Pf29A DQ473
EU538750.1 gg_id:281718 profile human microbiota antecubital fossa (inner elbow) skin clone nbt236a07 EU538
X99541.1 gg_id:8521 Pseudomonas anguilliseptica str. 1123/5 X99541
EU434493.1 gg_id:261872 Pseudomonas fluorescens str. b361 EU434
DQ117553.1 gg_id:138228 structure (Citrullus vulgaris SCHARD.) -based approaches and terminal fragment len DQ117
AY690672.1 gg_id:98925 Pseudomonas sp. str. GC06 AY690
FM213380.2 gg_id:335840 Pseudomonas antarctica str. KJPB54 FM213
EU460330.1 gg_id:301237 polar bear feces clone PB1_aai26f10 EU460
EU539906.1 gg_id:284493 profile human microbiota antecubital fossa (inner elbow) skin clone nbt107f04 EU539
EU538024.1 gg_id:280553 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225a12 EU538
FJ893055.1 gg_id:566846 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM2; ear p FJ8930
AM689948.1 gg_id:217808 Pseudomonas sp. str. SBC-3 AM689
AM933517.1 gg_id:340813 Pseudomonas migulae FB26 AM933
AJ308306.1 gg_id:37605 Pseudomonas fluorescens str. Biotype F ICMP 13616; ATCC 12983 AJ3083
EF428993.1 gg_id:217131 Pseudomonas sp. str. GIST-WP4s2 EF4289
EU536354.1 gg_id:284460 profile human microbiota antecubital fossa (inner elbow) skin clone nbt61e08 EU536
FJ405303.1 gg_id:360957 Edwardsiella tarda str. K14 FJ4053
AY741159.1 gg_id:170404 Pseudomonas fulva str. S29 AY741
FJ675430.1 gg_id:532272 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6754
AJ132994.1 gg_id:201265 Pseudomonas sp H171 AJ1329
AJ299216.1 gg_id:25364 Pseudomonas mevalonii str. M AJ2992
FJ893123.1 gg_id:539941 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM3; ear p FJ8931
DQ279335.1 gg_id:141206 Dynamic during maturation Tuber magnatum Pico ascoma Pseudomonas clone TM1 DQ279
FJ950541.1 gg_id:416614 Pseudomonas putida str. c252 FJ9505
AF534212.1 gg_id:60329 soil clone Phe41 AF5342
EU536746.1 gg_id:286175 profile human microbiota antecubital fossa (inner elbow) skin clone nbt250c09 EU536
NR_029051.1 gg_id:581450 Pseudomonas salomonii str. CFBP 2022 NR_02
EU540306.1 gg_id:283879 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114h04 EU540
FJ893304.1 gg_id:538132 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8933
AY091631.1 gg_id:123196 Pseudomonas sp. str. PH-05 AY0916
EU071502.1 gg_id:238253 and resistance microorganisms European clean room ESTEC HYDRA facility clone EHF EU071
EU538018.1 gg_id:282396 profile human microbiota antecubital fossa (inner elbow) skin clone nbt225a06 EU538
AY538264.1 gg_id:111611 Pseudomonas fluorescens str. PC20 AY538
X86623.1 gg_id:8602 Pseudomonas sp str. 2E-14 2A X86623
EU538325.1 gg_id:285758 profile human microbiota antecubital fossa (inner elbow) skin clone nbt83d10 EU538
EU537274.1 gg_id:282810 profile human microbiota antecubital fossa (inner elbow) skin clone nbt72c03 EU537
DQ318866.1 gg_id:156064 Pseudomonas pv. syringae str. NCPPB 281; 8511 DQ318
FJ950621.1 gg_id:434785 Pseudomonas putida str. c144 FJ9506
EU834281.1 gg_id:324211 Pseudomonas brassicacearum str. DS67 EU834
FJ894807.1 gg_id:544342 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8948
FJ893018.1 gg_id:534589 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM2; ear p FJ8930

2764.2	2389.2	2956.7	3045.8	3045.5	4058.7	3291.3	3734.8	1957.4	5225.4	2618.8
8391.0	9928.5	9172.2	9152.8	8132.8	9789.4	8638.1	9688.9	10724.7	8909.3	10587.0
2693.8	4836.1	5298.8	5573.0	5433.2	5600.9	4337.8	6875.0	4654.3	4551.0	7789.4
3530.3	4668.4	4577.7	5086.0	5082.6	5646.9	4281.5	6512.2	3251.0	6274.2	5387.4
4296.2	6697.6	6947.8	7962.2	7476.3	10480.5	5066.6	11027.7	6073.9	12440.3	9896.1
2517.4	6300.8	6430.6	5886.0	5238.2	7455.3	4315.5	8655.0	5210.0	4441.6	8681.6
8991.7	6589.9	7542.2	8756.1	8547.9	9054.6	9060.3	8751.9	6415.5	9952.4	8149.3
6800.7	4540.7	5309.5	5411.9	5810.5	7365.1	4665.9	6055.1	5882.6	9958.6	6044.2
1658.0	2759.9	2482.6	2527.0	2132.2	3485.9	2337.4	4085.6	2068.9	2471.1	3165.1
4180.9	6156.1	6404.9	6954.7	6661.9	8073.8	5832.4	7746.1	5565.4	9367.4	7037.2
756.6	2546.7	2521.9	2272.1	2102.2	2695.7	1979.3	2076.8	1621.8	2467.5	1482.3
75.1	1418.4	2004.6	1862.0	2552.2	2288.7	1695.7	1616.3	684.2	2307.4	566.5
2600.1	4962.8	5567.9	6448.9	6367.3	7785.9	4406.7	7153.9	4838.3	6932.6	4652.2
1053.2	2038.9	2431.2	2633.3	2717.8	3437.8	2049.2	3192.1	2217.4	4401.9	1919.6
82.1	360.9	485.4	498.6	650.4	665.7	353.8	401.3	256.8	993.8	236.6
1283.6	3580.5	4095.8	3907.7	4086.6	5745.1	2835.5	6367.8	4931.2	5550.5	3062.6
1814.2	3787.6	4280.2	4721.7	4162.3	6627.9	2930.5	6816.9	3273.1	7495.9	4591.6
322.6	4260.8	5124.2	4737.8	5223.5	8100.7	2022.7	6222.6	2473.8	10487.0	5802.7
3559.8	2101.3	2217.1	2007.0	2135.0	2345.0	1745.8	3160.2	1990.9	2047.9	1891.3
2166.5	3454.2	4298.2	4537.4	5617.7	8488.7	3458.9	4747.7	2698.6	9509.3	3447.4
1255.5	2760.9	3081.7	3093.7	4382.8	4470.0	1889.6	3404.9	2121.9	5815.7	3092.0
1275.3	2612.6	3441.5	3088.1	3552.5	4268.2	2435.0	3238.6	2951.1	4266.9	1875.0
7662.5	8461.7	8504.5	9163.4	8222.8	9152.8	7471.6	8666.6	10044.4	9223.3	10936.6
6780.3	2970.4	3467.3	3715.2	3259.3	4093.2	2890.1	4506.3	2844.0	6671.7	3752.3
1292.0	3150.6	3192.1	3015.2	4163.7	6577.7	1954.7	3271.0	1424.5	12096.3	1857.7
3680.7	6416.3	6432.2	7050.9	6504.9	8443.1	5806.2	7873.9	5896.8	10083.2	7185.3
1134.9	2257.4	2830.3	3034.6	3154.6	4501.9	1975.2	3673.1	1982.0	5134.4	2835.3
3337.7	4068.8	4879.8	5203.4	5152.9	6656.9	4329.8	5749.1	3929.1	8211.4	3648.7
5867.0	6659.7	7248.2	7281.2	7238.5	8003.2	7879.0	9100.0	6588.0	6777.8	8961.9
3391.0	4606.5	5341.9	5615.5	5150.1	6789.5	4511.9	7170.0	4978.4	8025.5	6169.3
6746.0	5533.8	5179.7	6067.8	6121.2	7768.0	5144.3	6782.1	5961.9	8529.0	7408.4
4634.6	4888.7	4819.7	5240.8	4375.0	6099.6	4202.6	6079.1	4681.3	6455.0	7049.8
1956.1	2779.8	3037.4	3718.0	3920.4	4037.5	2447.2	3781.7	2713.7	3339.0	3066.9
597.3	5078.7	5111.0	5744.3	5401.8	8155.4	4466.9	7905.4	4088.9	11680.7	7753.2
2171.0	4346.7	4566.4	5169.1	5032.1	6651.4	4066.3	5776.0	3726.4	7731.0	4103.5
4208.4	3811.1	3934.4	4492.1	3997.5	5239.0	3874.4	5639.3	2826.9	6251.0	3165.5
1554.3	2705.9	3646.3	3314.7	3104.8	5159.4	2266.1	4694.8	3369.1	5265.9	2887.1
3599.9	3598.7	4025.5	4321.4	4027.3	5452.2	2890.9	4990.0	3629.3	6724.5	5376.7
1896.4	1475.7	2078.2	2020.3	1981.3	2556.0	2861.5	2433.5	1156.8	3335.9	1248.5
2639.6	2472.3	2709.8	3044.8	2331.2	3643.4	2363.5	4035.9	1557.9	3977.9	2087.7
4155.2	6185.0	6263.7	6678.0	6225.6	7527.8	6149.2	7351.9	5459.4	8135.2	7207.5

4147.0	3414.7	2839.1
9207.7	10327.7	14067.6
6605.1	5714.2	4768.7
7087.4	5618.9	3866.2
10832.0	7846.6	6852.4
6764.3	6274.7	5115.8
9146.9	8643.2	6803.1
7625.0	7625.1	4417.8
3540.0	3916.3	3740.3
8359.1	7372.1	5774.1
2519.5	2714.8	1413.9
3936.7	2263.7	1801.4
8550.3	5985.0	5273.3
3259.4	3463.9	2227.2
564.7	660.3	301.4
6893.6	3081.8	1812.1
6961.4	4921.5	3758.6
9816.1	4845.5	3943.7
3176.1	2741.3	1885.9
7917.5	5130.4	3672.0
3613.0	4125.4	2442.7
4285.4	2857.4	2141.5
8480.8	8287.3	5988.7
4135.0	4581.8	3279.3
5771.5	3983.5	2739.1
8560.3	7550.7	5373.5
4804.2	2961.7	2268.6
6853.2	5973.8	3970.4
8146.9	8981.6	9044.5
7432.8	5555.7	4449.1
7537.6	6053.8	4391.6
5916.4	7480.2	7591.8
5030.3	3148.6	2524.7
8425.1	6237.5	3522.4
6925.8	5802.5	3767.8
5805.1	6710.6	6869.8
5590.4	3503.9	1857.1
6001.9	5108.1	3396.1
2475.4	2570.8	2098.8
4272.6	4541.8	4605.4
7896.9	6974.5	6234.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	615
s__unclassified	616
s__unclassified	619
s__unclassified	62
s__unclassified	620
s__unclassified	623
s__unclassified	626
s__unclassified	628
s__unclassified	63
s__unclassified	631
s__unclassified	634
s__unclassified	639
s__unclassified	645
s__unclassified	646
s__unclassified	6461
s__unclassified	65
s__unclassified	652
s__unclassified	653
s__unclassified	658
s__unclassified	66
s__unclassified	666
s__unclassified	669
s__unclassified	67
s__unclassified	671
s__unclassified	673
s__unclassified	674
s__unclassified	6753
s__unclassified	677
s__unclassified	678
s__unclassified	68
s__unclassified	687
s__unclassified	690
s__unclassified	698
s__unclassified	699
s__unclassified	7
s__unclassified	70
s__unclassified	700
s__unclassified	7028
s__unclassified	704
s__unclassified	705
s__unclassified	706

FJ892869.1 gg_id:560497 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p FJ8928
EF102848.1 gg_id:238201 Pseudomonas putida str. N-5-143XBH EF1028
EU537051.1 gg_id:280037 profile human microbiota antecubital fossa (inner elbow) skin clone nbt219f07 EU537
DQ282185.1 gg_id:144955 Pseudomonas fluorescens str. PGN-1 DQ282
EU536280.1 gg_id:280556 profile human microbiota antecubital fossa (inner elbow) skin clone nbt62a02 EU536
AY321588.1 gg_id:88851 Pseudomonas fluorescens str. CCUG32456A AY3215
EU539168.1 gg_id:280377 profile human microbiota antecubital fossa (inner elbow) skin clone nbt102a09 EU539
EF428995.1 gg_id:216433 Pseudomonas fluorescens EF4289
EU538158.1 gg_id:285771 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81a05 EU538
EU538367.1 gg_id:284298 profile human microbiota antecubital fossa (inner elbow) skin clone nbt87f04 EU538
DQ234206.2 gg_id:143653 determined library mangrove clone DS123 DQ234
FJ894557.1 gg_id:565334 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8945
FJ894984.1 gg_id:560160 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8949
EU538332.1 gg_id:286926 profile human microbiota antecubital fossa (inner elbow) skin clone nbt83g07 EU538
FJ799903.2 gg_id:556353 Proteus vulgaris str. 4Bi FJ7999
EU537643.1 gg_id:285279 profile human microbiota antecubital fossa (inner elbow) skin clone nbt74h03 EU537
GU191929.1 gg_id:588639 Pseudomonas putida str. SB 3051 GU191
GU191927.1 gg_id:584485 Pseudomonas monteilii str. SB 3078 GU191
FJ894054.1 gg_id:566587 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8940
AY472116.1 gg_id:99985 Pseudomonas fluorescens AY4721
Z76654.1 gg_id:8607 Pseudomonas amygdali str. LMG 2123T () Z76654
NR_025174.1 gg_id:564254 Pseudomonas extremorientalis str. KMM 3447 NR_025
EU538955.1 gg_id:284428 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95h10 EU538
GQ169380.1 gg_id:588287 Pseudomonas thivervalensis str. IEHa GQ169
GQ900590.1 gg_id:574251 Pseudomonas putida str. MPR 4 GQ900
EU539535.1 gg_id:283940 profile human microbiota antecubital fossa (inner elbow) skin clone nbt241d05 EU539
EF194768.1 gg_id:203364 Pseudomonas putida str. PM1 EF1947
EU538937.1 gg_id:282205 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95e09 EU538
EU536583.1 gg_id:282830 profile human microbiota antecubital fossa (inner elbow) skin clone nbt63c09 EU536
EU118771.1 gg_id:236931 Pseudomonas lutea str. AGL 2 EU118
EU538944.1 gg_id:283825 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95f09 EU538
EF061900.1 gg_id:189806 Pseudomonas sp. str. M191 EF0619
FJ950560.1 gg_id:429741 Pseudomonas putida str. c53 FJ9505
FJ894025.1 gg_id:554071 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8940
NR_028987.1 gg_id:542667 Pseudomonas trivialis str. P 513/19; DSM 14937; LMG 21464 NR_028
EU538393.1 gg_id:282501 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88f02 EU538
FJ424813.1 gg_id:364673 Pseudomonas sp. str. MS-3 FJ4248
EF010981.1 gg_id:184602 Pseudomonas putida str. PM15 EF0109
FJ893331.1 gg_id:564098 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8933
AJ871471.1 gg_id:110332 Pseudomonas luteola CP155-2 AJ8714
AF430121.1 gg_id:66816 Pseudomonas sp. str. VKM B-2265 dcm4 AF4301

8700.4	8607.6	8949.4	9556.3	8754.7	8607.0	9848.8	8275.5	12323.3	9861.4	9833.5
2330.8	5410.6	5710.5	6431.6	6536.9	9392.5	4421.1	7049.8	4193.3	11268.2	7401.6
11942.3	4823.9	5000.5	5227.4	5156.5	5756.8	5298.9	5676.8	6904.6	7303.1	5326.2
1778.2	4037.5	4427.5	4334.4	4106.4	6126.8	3238.8	6923.0	4287.9	7040.8	4665.7
2896.8	6028.6	6490.2	6897.3	6364.7	7450.5	6626.0	7943.6	5431.2	6835.0	6202.6
5576.1	4457.0	4629.2	4820.6	4819.9	5992.0	5221.8	6307.5	5120.7	7341.3	4820.2
22315.2	6655.6	6564.1	7302.9	6334.6	7098.2	6837.9	6915.1	8935.9	8202.7	10182.7
1168.5	4745.8	5211.1	5241.8	4165.6	6258.5	4700.0	5902.8	4007.0	4024.4	4513.6
3484.0	5305.3	5367.3	5925.5	4271.8	7065.2	3906.2	6841.7	4784.6	8064.6	6095.3
3976.6	4491.7	5347.9	5590.8	5278.9	5974.0	4947.9	7178.8	5333.5	5742.8	5205.8
4050.0	7267.1	7002.2	7613.5	7069.8	9751.9	5506.3	8269.1	7971.6	11130.8	9180.6
11903.6	6676.8	6199.2	7084.2	6984.8	7913.2	6945.5	7679.7	7680.3	10390.8	8795.1
21978.3	7296.3	7528.2	8135.5	7503.2	8865.8	7900.0	9040.0	9248.0	11566.2	8804.6
12749.7	6334.9	6156.6	6977.7	6726.7	7430.1	5675.4	6818.2	8569.7	7235.7	8956.7
3575.5	5040.1	6257.6	6963.6	4479.3	8024.5	3903.0	6879.2	6177.4	12316.2	4500.6
8543.2	4803.9	4674.8	4776.3	4723.4	5736.7	4343.9	6132.8	3853.9	6394.1	4286.8
2451.0	4625.0	5418.3	5901.7	6573.8	9533.8	3809.1	6731.7	4786.9	10596.5	5463.1
1990.9	6447.0	6449.9	7476.0	9017.2	9116.1	4931.7	8471.7	5578.7	10158.5	7865.8
4545.0	7330.5	7268.7	7750.6	7331.1	8586.0	7548.5	8439.9	6982.7	9555.1	9259.9
2621.0	4849.4	5428.6	5690.5	5532.0	7754.2	4441.7	6115.9	4527.4	9095.1	4579.3
4661.9	5456.4	6285.5	7086.8	6968.5	8114.4	4741.2	6607.8	3798.4	9985.5	5267.8
3465.2	3272.3	4024.1	4516.5	4076.4	4483.1	3245.9	5007.9	3730.2	4700.7	3359.4
1280.1	2250.5	2523.1	2618.3	3047.6	4454.3	2351.1	5652.8	2656.2	5216.2	3002.3
940.0	2467.4	3077.1	3326.3	2793.5	5503.6	2265.7	3550.4	960.5	6487.1	2093.6
2593.0	6912.2	6480.7	7464.7	7394.0	9642.9	5476.6	8553.9	5455.7	11456.8	9879.1
2892.1	2662.1	3092.8	3560.8	3235.7	3713.7	3620.1	3655.0	2947.2	4272.5	2949.7
4633.5	6419.6	6206.6	6921.0	6104.0	8909.4	2582.3	5807.0	5348.2	12402.0	4753.0
4884.0	4221.5	4500.3	5188.2	5049.3	5858.0	4856.6	5269.4	3284.7	6668.3	3564.9
1359.5	4149.0	2996.1	4062.1	3934.3	5626.0	2929.1	6619.7	3608.2	5956.3	5280.4
1733.7	5075.8	6148.3	6277.1	5968.3	8042.5	3203.5	9116.7	3583.9	8452.2	7699.4
1185.2	1868.2	2628.0	2389.2	2225.6	2487.1	2226.0	2731.3	1895.6	3488.6	1884.4
170.4	873.0	972.3	1130.6	1274.4	2524.6	721.2	1527.3	389.2	2225.2	497.7
592.0	2928.0	3863.4	3452.8	4064.4	4687.6	2491.7	3266.3	4175.9	5653.6	3279.4
4024.4	4820.1	5120.9	5195.8	5188.1	6578.2	4705.8	6886.4	3406.7	5785.9	5146.7
3897.2	3094.9	3770.6	3846.4	3344.4	4632.1	2772.3	4715.5	3374.1	5877.3	3577.9
32103.5	11962.6	11476.4	11375.1	10568.6	10617.8	10971.6	11419.1	16285.7	14166.0	15399.0
364.9	3091.6	4108.8	3177.0	3375.2	4588.5	2590.1	4833.8	3237.4	4980.9	4831.0
201.9	5934.9	5605.7	6090.0	5095.2	8994.6	1591.4	6505.6	4438.9	13310.0	4325.3
6741.5	4647.9	4629.5	5267.7	4322.9	5631.6	4643.6	5675.4	4686.1	6201.6	5599.5
6995.2	5325.4	5720.3	5336.8	5427.0	6666.7	5886.8	7356.3	5513.8	8747.5	6760.8
4245.8	5294.2	5654.9	5581.3	5758.2	5617.1	5039.5	6039.3	6340.9	5920.2	6137.0

8644.7	10330.2	8524.7
9179.9	6788.3	4001.9
6022.0	6428.6	5724.5
7139.5	5008.6	4441.3
7727.1	8446.1	9170.0
6030.2	7388.2	4988.2
7429.3	9309.1	8636.0
6592.3	5307.9	4811.6
7246.9	7700.9	7875.2
6505.3	6264.1	6746.8
9028.6	6731.1	5017.9
7968.4	7822.2	8158.8
8795.2	9948.8	9755.4
6979.1	8091.6	7444.9
9423.8	7090.6	4728.8
5767.3	7010.7	7409.1
9155.9	6561.2	4288.2
9110.4	7528.9	5403.2
8699.0	7795.6	6583.4
7806.5	5078.9	2985.5
8876.5	7600.2	5355.4
5606.9	4196.5	2764.5
4476.2	3055.5	1305.7
5223.9	3723.5	2170.8
9925.1	7881.3	5025.3
4140.2	3861.5	3454.0
7225.0	8066.7	5650.7
5858.1	5909.2	4451.4
6127.1	4264.6	2337.8
10399.7	6138.7	5445.9
2869.1	3017.2	3555.5
2444.2	1803.4	852.2
3918.8	4903.1	2783.3
6646.5	7024.5	8321.1
5480.5	3873.0	2479.0
11550.7	12872.9	11177.3
4090.7	4347.0	3100.3
6439.1	7512.2	3966.2
6073.9	7089.4	6780.7
6902.1	6653.3	5348.4
6773.5	6387.8	5317.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	707
s__unclassified	71
s__unclassified	710
s__unclassified	713
s__unclassified	715
s__unclassified	716
s__unclassified	717
s__unclassified	72
s__unclassified	720
s__unclassified	721
s__unclassified	722
s__unclassified	723
s__unclassified	725
s__unclassified	726
s__unclassified	728
s__unclassified	730
s__unclassified	731
s__unclassified	735
s__unclassified	736
s__unclassified	739
s__unclassified	742
s__unclassified	744
s__unclassified	748
s__unclassified	749
s__unclassified	75
s__unclassified	750
s__unclassified	751
s__unclassified	752
s__unclassified	756
s__unclassified	759
s__unclassified	76
s__unclassified	760
s__unclassified	761
s__unclassified	763
s__unclassified	766
s__unclassified	768
s__unclassified	77
s__unclassified	770
s__unclassified	771
s__unclassified	775
s__unclassified	778

EU538637.1 gg_id:283995 profile human microbiota antecubital fossa (inner elbow) skin clone nbt234d02 EU538
EF062805.1 gg_id:202317 Pseudomonas sp. str. MY1410 EF0628
AJ534672.1 gg_id:75843 ground water deep-well injection disposal site radioactive wastes Tomsk-7 clone S15A AJ5346
AM111045.1 gg_id:140916 Pseudomonas sp. str. 7065 AM111
FN646596.1 gg_id:557247 Pseudomonas sp. SS-2009-PA4 str. PA4 FN6465
AJ249382.1 gg_id:22698 Pseudomonas frederiksbergensis str. JAJ28 AJ2493
EU539350.1 gg_id:283152 profile human microbiota antecubital fossa (inner elbow) skin clone nbt237c09 EU5393
EU538914.1 gg_id:285813 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95a08 EU5389
GU272230.1 gg_id:548694 library dichlorvos treatment rape phyllosphere clone TF19 GU272
EU348741.1 gg_id:272086 Pseudomonas putida soil EU3487
EU537111.1 gg_id:279820 profile human microbiota antecubital fossa (inner elbow) skin clone nbt67a05 EU5371
EU538710.1 gg_id:286594 profile human microbiota antecubital fossa (inner elbow) skin clone nbt235e05 EU5387
AB440177.1 gg_id:535106 Pseudomonas costantinii AB4401
EU536997.1 gg_id:280285 profile human microbiota antecubital fossa (inner elbow) skin clone nbt218e01 EU5369
FJ893409.1 gg_id:569655 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8934
EU535778.1 gg_id:283503 profile human microbiota antecubital fossa (inner elbow) skin clone nbt10f10 EU5357
AF320987.1 gg_id:72973 Pseudomonas reactans str. NCPPB 1311 AF3209
AF511511.1 gg_id:65394 Pseudomonas syringae SaU8 AF5115
FJ607148.1 gg_id:573718 Pseudomonas syringae pv. papulans str. ICMP 4044 FJ6071
DQ095887.1 gg_id:134099 Pseudomonas plecoglossicida str. R25 DQ095
FJ893902.1 gg_id:560794 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pu FJ8939
GQ497248.1 gg_id:544313 Pseudomonas sp. str. F2-2 GQ497
AM933508.1 gg_id:324712 Pseudomonas antarctica FB16 AM933
EU538247.1 gg_id:286083 profile human microbiota antecubital fossa (inner elbow) skin clone nbt83g04 EU5382
AY303293.1 gg_id:131271 Pseudomonas sp. str. ps4-16 AY3032
EU538994.1 gg_id:286958 profile human microbiota antecubital fossa (inner elbow) skin clone nbt98f12 EU5389
AY622264.1 gg_id:99494 subsurface soil clone S-A1 AY6222
AB021381.1 gg_id:8570 Pseudomonas fuscovaginae str. MAFF 301177T AB0213
AJ297354.1 gg_id:70736 Pseudomonas sp. str. FAIR/BE/F/GH39 AJ2973
AY771716.1 gg_id:108690 Pseudomonas aeruginosa str. S2-77 AY7717
FJ892791.1 gg_id:574101 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM1; ear p FJ8927
DQ084462.1 gg_id:134086 Pseudomonas sp. str. CSS-1 DQ084
EU537986.1 gg_id:282145 profile human microbiota antecubital fossa (inner elbow) skin clone nbt228e02 EU5379
DQ119111.1 gg_id:132307 Pseudomonas putida DQ119
DQ095885.1 gg_id:129354 Pseudomonas monteilii str. R23 DQ095
AY690691.1 gg_id:99958 Pseudomonas sp. str. MaT03 AY6906
FJ465156.2 gg_id:575465 Pseudomonas fluorescens str. FY32 FJ4651
AB126621.2 gg_id:104655 Pseudomonas japonica str. IAM 15071 AB1266
AB060137.1 gg_id:62341 Pseudomonas cremoricolorata str. IAM 1541T AB0601
EU537931.1 gg_id:285392 profile human microbiota antecubital fossa (inner elbow) skin clone nbt227e04 EU5379
AM495723.1 gg_id:217056 Pseudomonas syringae str. ISF FR1 AM495

4692.2	4384.6	4373.5	5283.2	4734.5	6569.8	4511.3	6466.8	3814.1	7196.1	4935.9
15219.3	8102.8	9465.2	10549.5	8416.8	10808.4	8236.6	11309.0	11792.8	15186.9	12811.1
16374.7	7454.1	8209.5	8073.0	9081.3	9050.2	9764.4	9039.6	6479.7	11672.3	9533.1
1635.5	6354.7	9003.9	6505.2	5719.8	6595.8	5676.8	6843.0	8696.7	6663.0	9252.4
701.5	4087.9	5233.7	4309.4	3878.8	6517.2	2935.9	5755.7	2287.5	6357.0	4174.8
2347.0	2736.6	3288.3	3632.7	3566.7	4809.5	3306.1	4261.9	2559.0	4382.6	2622.6
3020.1	4703.3	5024.9	5634.4	4962.6	6797.7	5051.7	7011.8	3722.6	6979.1	5873.5
234.3	891.2	1070.3	856.0	1071.9	1378.0	1077.0	1545.5	819.8	1188.1	544.0
1628.4	4595.8	4999.4	5281.3	5662.0	5721.1	5265.5	4702.8	4982.6	5003.1	4329.6
5216.4	3639.4	3422.1	3446.0	3720.4	5247.3	3120.0	3477.1	4300.0	6731.2	3924.2
14278.2	7613.2	8115.6	9101.7	8700.8	9697.8	8596.0	9370.6	10246.6	10653.6	10654.5
2197.6	2737.3	2788.3	2914.7	2616.5	3508.4	2615.4	3442.0	2787.7	5191.9	3337.5
685.6	1770.4	2010.5	2230.6	1853.1	3423.7	1569.0	3421.1	1664.2	3075.0	2289.9
1684.4	5943.2	5779.0	5246.5	4227.3	6674.7	4357.8	6133.5	5436.5	6935.3	5512.0
1384.5	3575.0	4366.2	4577.8	4661.7	5761.6	4583.3	4254.3	2574.7	7363.9	2695.7
2785.1	2440.6	3236.4	2689.2	3335.9	3542.6	3286.9	3739.1	2142.3	5737.0	3104.4
13582.1	5544.4	5953.2	5965.3	5430.7	6364.2	5602.2	6182.2	6482.3	9581.7	7251.0
750.3	4728.8	5336.2	5863.1	5163.0	5624.0	4803.2	4913.4	7598.1	5439.7	5648.2
798.9	1352.8	2141.7	1867.9	1756.3	3358.2	944.5	3375.2	1012.6	3130.1	2341.0
100.9	2776.3	2932.7	2702.8	4501.6	4135.0	1354.2	3039.5	2055.0	3489.4	1653.3
2906.1	5057.0	4903.8	5656.5	5044.3	6540.7	5112.0	6112.3	4738.8	8348.7	6110.2
1678.5	4535.1	5450.0	6512.6	5688.7	7937.9	4830.9	6751.1	5465.9	8934.5	5160.5
1735.3	3877.9	5066.2	5109.8	5080.5	7100.0	3904.4	8445.0	5556.1	6868.2	4925.1
4442.5	6279.9	6265.9	6648.7	6238.1	7673.0	6154.2	7639.3	5403.2	7901.0	7555.7
2171.5	4018.4	4467.0	4668.7	4523.1	6813.6	3443.1	7239.1	4333.7	8238.2	4436.5
5608.4	3129.0	3389.1	3510.2	3508.0	3408.3	3357.3	3845.5	3492.3	3958.4	2885.0
8016.6	6336.0	6321.6	6783.6	6319.9	7557.7	5478.5	7247.1	7643.7	6269.2	8280.2
283.6	3099.9	3541.5	4146.7	4406.7	6666.6	3924.4	5255.4	3588.6	6793.9	3460.8
454.8	1920.2	2864.0	2838.4	2310.3	4300.3	1498.2	3113.0	2158.5	4734.8	1910.8
218.8	799.3	1310.0	1068.0	1130.4	1666.8	618.6	2355.0	940.2	942.1	746.3
7082.3	9496.4	8177.7	8915.4	8632.3	9475.0	8022.8	9342.8	8295.5	7912.1	9459.9
1919.7	5778.2	6536.7	6036.5	7322.4	9104.7	4474.7	9184.4	5484.2	8542.4	6634.7
2115.9	3501.4	4641.8	5144.2	5710.6	7485.3	3240.2	4929.5	3736.6	7667.5	2484.8
7206.0	5652.0	6058.8	6209.9	6660.4	8632.7	5185.3	7405.7	5317.0	9491.5	7951.2
6784.2	6636.0	6751.2	6420.0	9780.4	7837.5	6486.7	6811.9	7076.7	9665.2	7680.2
1730.0	2065.0	2635.8	2760.3	2770.5	3207.9	1866.4	3408.9	1355.2	3046.6	1488.5
684.8	1866.8	1761.3	1854.1	2120.7	3691.7	1410.3	3225.4	1452.7	4049.3	2013.4
3949.5	4331.4	5006.2	4990.2	5513.3	8066.5	3794.2	6454.1	3665.6	9254.6	3719.7
541.6	3271.4	3561.0	3584.4	4365.6	6063.8	3693.6	5325.3	3102.7	6214.2	4480.2
9389.0	8879.2	9219.4	9495.0	9232.3	9706.8	9080.0	9798.7	12848.5	10711.2	8974.8
749.4	2720.8	3280.3	2524.6	2403.5	3814.8	2555.2	2956.0	2792.7	4531.0	2250.2

6740.1	7434.5	9438.7
11571.0	10759.9	8165.3
9341.8	8558.5	7957.0
6130.1	7905.2	4592.5
6468.9	5687.0	2806.3
4197.7	3765.7	3125.6
7076.5	7596.2	10215.1
1447.3	1729.9	1484.6
4329.2	5934.7	4906.9
4431.9	5851.2	3174.9
9260.9	9789.8	10353.1
3949.4	3802.0	4161.8
3611.5	3239.7	3801.1
5970.1	7112.4	5633.7
5149.5	4894.1	3699.3
4209.7	3281.8	2944.8
6920.5	6820.0	4291.8
5414.9	6128.0	4332.7
3662.2	2540.5	1350.0
3719.3	1871.7	1724.7
7362.2	6234.4	4473.7
8815.7	7361.8	6370.3
8044.1	5454.2	4314.9
7926.2	7193.2	6291.9
7794.3	4534.3	2734.1
3634.1	3721.0	3838.3
7152.7	5131.0	4467.9
6249.8	5484.8	2178.9
6297.3	3358.3	827.6
2670.3	1809.1	858.5
9449.9	9070.2	10278.9
9950.0	5459.5	4604.2
6759.3	4325.3	2892.2
8243.2	6657.6	5620.7
7369.5	7506.6	9243.9
3174.9	2371.4	1715.4
2707.2	3087.8	1290.5
7838.0	5254.9	3230.6
5568.2	4578.0	3289.0
9496.8	10460.5	11500.2
3280.0	3516.9	1650.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	783
s__unclassified	785
s__unclassified	787
s__unclassified	788
s__unclassified	793
s__unclassified	796
s__unclassified	8
s__unclassified	80
s__unclassified	803
s__unclassified	804
s__unclassified	805
s__unclassified	808
s__unclassified	809
s__unclassified	817
s__unclassified	821
s__unclassified	823
s__unclassified	824
s__unclassified	827
s__unclassified	829
s__unclassified	83
s__unclassified	832
s__unclassified	836
s__unclassified	838
s__unclassified	84
s__unclassified	841
s__unclassified	842
s__unclassified	843
s__unclassified	846
s__unclassified	85
s__unclassified	860
s__unclassified	861
s__unclassified	862
s__unclassified	864
s__unclassified	865
s__unclassified	87
s__unclassified	874
s__unclassified	875
s__unclassified	876
s__unclassified	880
s__unclassified	883
s__unclassified	885

EU169178.1 gg_id:252479 Pseudomonas tolaasii str. B14 EU169
EU877078.1 gg_id:345765 Pseudomonas putida str. EC1_2004 EU877
EU118779.1 gg_id:251758 Pseudomonas putida str. AGL 13 EU118
FJ893746.1 gg_id:538659 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT3; ear p FJ8937
AM184286.1 gg_id:161051 Pseudomonas putida str. WAB1947 AM184
AY303292.1 gg_id:130388 Pseudomonas sp. str. ps4-14 AY303
EU540490.1 gg_id:280406 profile human microbiota antecubital fossa (inner elbow) skin clone nbt116d09 EU540
NZ_AAXR01000013.1 gg_id:209007 Pseudomonas putida str. GB-1 NZ_AA
DQ536512.1 gg_id:160564 Pseudomonas trivialis str. BIHB 728 DQ536
EU539847.1 gg_id:285307 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106c11 EU5398
EU215454.1 gg_id:367789 Pseudomonas sp. str. PTPbra-1 EU215
EU538932.1 gg_id:286172 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95e02 EU5389
EU538389.1 gg_id:282624 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88b06 EU5383
EU538933.1 gg_id:284429 profile human microbiota antecubital fossa (inner elbow) skin clone nbt95e03 EU5389
AB504737.2 gg_id:543903 Pseudomonas syringae str. CP001 AB504
FJ893378.1 gg_id:543253 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota WT1; ear p FJ8933
FJ894829.1 gg_id:567640 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8948
EU539348.1 gg_id:286481 profile human microbiota antecubital fossa (inner elbow) skin clone nbt237c07 EU5393
AY856844.1 gg_id:110621 Pseudomonas sp. str. 38 AY8568
EU540292.1 gg_id:283763 profile human microbiota antecubital fossa (inner elbow) skin clone nbt114b08 EU5402
EU540256.1 gg_id:282554 profile human microbiota antecubital fossa (inner elbow) skin clone nbt248b08 EU5402
EU465095.1 gg_id:289664 African elephant feces clone AFYEL_aaj68a05 EU465
DQ279334.1 gg_id:143425 Dynamic during maturation Tuber magnatum Pico ascoma Pseudomonas clone TM1 DQ279
FJ807483.1 gg_id:537835 Pseudomonas fulva str. TY16 FJ8074
EU539850.1 gg_id:284339 profile human microbiota antecubital fossa (inner elbow) skin clone nbt106d09 EU5398
AY491973.1 gg_id:99308 Pseudomonas putida str. 1290 AY4919
FJ005054.1 gg_id:326078 Pseudomonas grimontii str. R1 FJ0050
DQ365566.1 gg_id:149449 Pseudomonas poae str. JA01 DQ365
FJ894067.1 gg_id:544310 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B1E; ear pı FJ8940
EF079867.1 gg_id:174369 Pseudomonas sp. str. MY1412 EF0798
EU537635.1 gg_id:284554 profile human microbiota antecubital fossa (inner elbow) skin clone nbt74c03 EU5376
EU708321.1 gg_id:309775 Pseudomonas pv. syringae str. BBK3 EU7083
FJ894204.1 gg_id:535083 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pı FJ8942
EU538377.1 gg_id:287065 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88d09 EU5383
EU536974.1 gg_id:285745 profile human microbiota antecubital fossa (inner elbow) skin clone nbt217h10 EU5369
EF529516.1 gg_id:225502 Pseudomonas putida str. CM5001 EF5295
EU538675.1 gg_id:285670 profile human microbiota antecubital fossa (inner elbow) skin clone nbt235a04 EU5386
EU538346.1 gg_id:285713 profile human microbiota antecubital fossa (inner elbow) skin clone nbt84e03 EU5383
FJ893112.1 gg_id:543418 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota HM3; ear p FJ8931
EU482040.1 gg_id:259836 Pseudomonas sp. str. KSH3 EU482
AM259177.1 gg_id:198385 Pseudomonas fluorescens pdm AM259

2092.7	3607.6	3720.4	4234.2	4151.4	5600.3	3124.3	5059.4	3050.6	6841.3	3205.1
9756.2	5912.2	5985.4	6623.3	7064.4	7519.4	6929.3	6278.7	5632.4	9175.2	6088.0
3685.1	6343.1	7166.5	7699.6	8158.1	10180.9	7316.9	7171.1	6601.0	10233.7	7067.5
4418.9	6356.4	6682.0	6744.0	6813.7	7718.0	6811.8	6922.1	7005.4	7895.9	7185.2
1551.1	4478.2	4817.7	5636.7	5431.2	8705.3	2800.9	6548.6	3857.4	9621.7	6861.9
1747.9	3618.3	4211.7	4499.0	3898.4	6304.6	3089.9	6603.0	3251.5	7056.4	3834.5
22006.6	10912.6	11345.7	11138.5	9796.9	11483.1	10540.8	11763.9	15268.6	11880.6	15694.9
389.1	1735.5	2729.3	2269.6	2336.0	3036.6	1643.0	2282.7	2444.9	3552.3	1990.3
2830.9	4792.0	5499.8	5965.8	6781.1	4890.5	5331.2	6264.0	4117.6	4615.0	4807.1
6083.5	8839.1	9426.8	9429.6	9038.8	10414.8	7711.0	11441.0	9596.7	12386.0	11537.5
3830.8	4276.4	5178.0	5145.9	4973.3	5358.6	5698.2	5185.5	4988.1	7782.9	4793.6
794.0	2369.4	2754.5	3003.9	2573.1	4211.0	2310.3	4022.6	1761.3	4253.9	2409.4
2081.0	4106.5	4665.7	4783.7	3767.1	4822.0	3771.2	4662.3	6247.0	4568.2	4099.6
30004.4	10274.6	10031.2	10867.9	10603.7	11205.0	9990.8	10107.8	13091.0	13001.1	13254.1
1624.5	3157.9	3449.4	3158.1	3063.9	6329.0	2241.0	4661.0	2530.0	5866.6	4037.1
20495.4	8350.6	7970.4	9410.3	9094.8	8385.4	8308.2	7737.5	11381.7	8798.5	11309.1
1896.7	2685.2	3322.9	3340.5	3675.2	4798.8	2876.9	3892.9	2438.0	6023.5	2162.2
4567.5	6296.4	6012.3	6731.6	6141.5	7489.0	6421.9	8001.6	6798.4	9312.3	8099.7
209.4	256.3	487.4	424.8	511.7	367.6	525.7	316.6	222.6	577.9	220.2
6742.4	5943.9	5633.4	6435.1	5151.2	7136.3	5865.3	6774.8	6756.7	7616.0	7440.8
1644.7	3785.7	4064.5	4038.5	4826.7	3794.5	4310.0	4650.5	3675.2	4066.1	3292.0
9923.7	15054.8	15272.5	17508.8	16112.7	15515.8	15434.8	15467.7	20970.2	19127.1	21480.8
491.0	773.8	1172.4	926.2	1028.0	2140.6	1332.1	771.4	605.6	2379.0	388.2
1996.3	6352.4	6768.7	7447.4	8300.3	10779.3	5793.0	7312.1	5789.7	12508.2	7846.2
24777.8	8768.6	8520.4	8959.7	8432.0	8648.7	9158.4	7609.2	11891.3	9847.5	12797.3
612.6	4953.8	5565.1	6183.2	7127.9	9118.1	4132.0	6395.3	4465.8	10263.6	4944.2
1214.5	1524.5	1828.9	2098.2	2410.4	1653.9	2020.5	2395.1	1635.0	1920.9	1413.7
3916.8	3769.7	4703.3	5151.3	4713.1	5316.8	3925.3	5640.8	4291.7	5993.1	3781.8
22990.2	8633.6	7899.1	9178.3	8359.7	9080.5	9773.9	8897.5	10891.6	9013.1	11277.3
3017.3	5957.0	6977.6	7716.0	6680.8	8748.2	5969.3	9784.0	7481.8	11220.4	8492.8
3570.5	2945.8	3398.6	3321.3	3618.1	4090.1	3547.0	3821.6	2388.1	4553.5	2573.7
1920.0	3504.8	4486.4	4315.0	3271.8	5145.7	3323.0	4627.1	5217.4	4977.5	4866.5
28359.4	11251.1	10248.9	11257.5	11932.0	11324.9	10972.4	10828.8	15182.7	14318.6	17372.1
836.2	2107.2	2466.8	2814.8	2192.3	3924.3	2069.0	3673.2	1269.5	3963.8	1884.7
1121.8	2618.3	3495.3	3440.8	4036.7	5379.0	2335.3	2994.2	2927.2	5293.2	1371.8
3427.2	6661.3	7987.9	7140.8	8208.2	9378.2	5476.4	7398.7	7389.0	8757.0	7076.1
2293.5	5135.0	5432.5	6222.0	5251.5	6974.4	5776.9	6592.8	4137.4	6118.5	5380.0
490.2	787.4	949.0	891.1	728.3	1571.7	703.7	1482.6	390.5	1619.1	662.7
10382.1	4867.9	4619.9	4724.2	4392.2	5821.8	3618.2	5419.1	6277.1	7799.0	5042.4
1496.0	4505.1	5691.2	5088.1	7335.2	8659.9	3383.6	5478.5	5120.2	7695.5	3201.9
3444.2	4668.2	5430.7	5604.2	5009.3	6090.4	5850.0	5919.4	4842.7	7496.4	4885.9

6574.2	4804.2	3251.6
7355.7	7790.4	6419.0
9599.2	6929.7	4789.6
7011.7	7500.8	7623.9
8056.8	6845.3	4026.7
7258.6	4590.2	3119.0
11987.6	10978.9	8559.4
2680.4	2715.0	2467.9
7239.0	5654.7	3465.6
11246.8	10661.3	6791.8
4938.0	5673.2	4511.5
3866.6	4413.8	2884.2
4447.1	6865.1	4043.4
10639.9	11339.9	12712.7
4845.5	4146.9	3290.7
8141.3	9425.9	9266.1
5350.2	3900.9	2562.0
8171.1	7914.6	6153.1
294.4	383.2	315.2
6923.3	7387.6	8814.8
5141.5	4859.5	4319.3
15936.6	14514.3	13307.6
1421.7	1740.4	819.4
9651.6	7061.3	5290.4
8579.8	9454.7	8106.3
9694.8	5910.9	3574.3
2671.7	1701.8	748.6
6682.1	4936.3	3208.5
8363.4	10536.9	10222.9
9643.9	8136.0	6039.3
3999.1	4298.1	3960.1
4916.1	5582.3	3894.3
10860.4	12072.3	11683.0
4451.9	4496.4	6489.8
5623.5	2755.5	1507.5
10530.3	8728.1	6769.2
7106.7	6767.0	8655.4
1406.9	1797.4	1239.2
5429.8	7132.2	6025.4
8939.2	3800.5	2416.5
7932.8	5824.5	4214.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas

s__unclassified	889
s__unclassified	892
s__unclassified	894
s__unclassified	895
s__unclassified	896
s__unclassified	897
s__unclassified	898
s__unclassified	90
s__unclassified	900
s__unclassified	903
s__unclassified	905
s__unclassified	906
s__unclassified	908
s__unclassified	909
s__unclassified	91
s__unclassified	914
s__unclassified	918
s__unclassified	92
s__unclassified	928
s__unclassified	93
s__unclassified	933
s__unclassified	934
s__unclassified	935
s__unclassified	941
s__unclassified	942
s__unclassified	946
s__unclassified	947
s__unclassified	951
s__unclassified	956
s__unclassified	957
s__unclassified	959
s__unclassified	96
s__unclassified	963
s__unclassified	964
s__unclassified	966
s__unclassified	967
s__unclassified	969
s__unclassified	97
s__unclassified	971
s__unclassified	973
s__unclassified	979

EU215446.1 gg_id:363719 Pseudomonas fluorescens str. PTPf-1 EU215
EU539695.1 gg_id:284796 profile human microbiota antecubital fossa (inner elbow) skin clone nbt244c07 EU539
FJ894864.1 gg_id:552364 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota BME; ear p FJ8948
AY263475.1 gg_id:82913 Pseudomonas sp. WE7#2b AY2634
EU536231.1 gg_id:279948 profile human microbiota antecubital fossa (inner elbow) skin clone nbt61c07 EU536
EU545156.1 gg_id:272623 Pseudomonas congelans str. SS157 EU5451
DQ086781.1 gg_id:128180 Pseudomonas fluorescens str. SKIN2 DQ086
GU198113.1 gg_id:589242 Pseudomonas fluorescens str. LMG 5849 GU198
EU834261.1 gg_id:345741 Pseudomonas plecoglossicida str. DS39 EU834
AY271793.1 gg_id:109330 Pseudomonas fluorescens str. VKM B-2168 AY2717
FJ894374.1 gg_id:539676 Matriptase-deficient mice exhibit ichthyotic selective shift skin microbiota B2E; ear pu FJ8943
AY456712.1 gg_id:100571 Pseudomonas sp. str. SBW25 AY4567
GU391452.1 gg_id:563866 Pseudomonas sp. str. Gd1T GU391
EU535434.1 gg_id:280220 profile human microbiota antecubital fossa (inner elbow) skin clone nbt02h02 EU5354
FJ950619.1 gg_id:389167 Pseudomonas putida str. c141 FJ9506
FJ976589.1 gg_id:572088 Pseudomonas putida str. LCR80 FJ9765
EU539815.1 gg_id:280992 profile human microbiota antecubital fossa (inner elbow) skin clone nbt105c12 EU5398
EU221400.1 gg_id:256776 Pseudomonas thivervalensis str. H2P1 EU2214
AF094738.1 gg_id:24808 Pseudomonas putida str. ATCC 17472 AF0947
AM111028.1 gg_id:140966 Pseudomonas sp. str. 7028 AM111
EU537168.1 gg_id:285451 profile human microbiota antecubital fossa (inner elbow) skin clone nbt67g02 EU5371
EF682071.1 gg_id:348246 Pseudomonas putida str. DN1.2 EF6820
AY259924.1 gg_id:91834 Pseudomonas filiscindens str. ATCC BAA-697 AY2599
DQ313381.1 gg_id:190384 Pseudomonas putida str. PCL1758 DQ313
EU439423.1 gg_id:536092 Pseudomonas putida str. QR2 EU4394
EU538074.1 gg_id:279760 profile human microbiota antecubital fossa (inner elbow) skin clone nbt81f06 EU5380
AB507253.1 gg_id:593521 Pseudomonas putida str. Pes207 AB5072
EU822884.1 gg_id:328707 Pseudomonas fluorescens str. MXX08012001 EU8228
AM110075.2 gg_id:257086 Pseudomonas sp. str. Ri71 AM110
AB046996.1 gg_id:106916 Pseudomonas fulva str. AJ 2129 AB0469
EU538204.1 gg_id:281728 profile human microbiota antecubital fossa (inner elbow) skin clone nbt82h11 EU5382
EF459522.1 gg_id:207295 Pseudomonas graminis KFC-45 EF4595
AY047218.1 gg_id:17462 Pseudomonas migulae AY0472
AB302401.1 gg_id:222217 Pseudomonas cinnamophila str. C-17 AB3024
EU169169.1 gg_id:251990 Pseudomonas aurantiaca str. B23 EU1691
EU647702.1 gg_id:272669 Pseudomonas mediterranea str. REG60 EU6477
EU538388.1 gg_id:279923 profile human microbiota antecubital fossa (inner elbow) skin clone nbt88a06 EU5383
EU179737.1 gg_id:244818 Pseudomonas putida str. MG-Y2 EU1797
AB110608.1 gg_id:104753 Pseudomonas putida str. KF751 AB1106
DQ095884.1 gg_id:128118 Pseudomonas plecoglossicida str. R21 DQ095
EU537624.1 gg_id:283531 profile human microbiota antecubital fossa (inner elbow) skin clone nbt73g03 EU5376

744.4	2114.4	2639.7	3023.0	3188.1	4668.7	1830.6	2665.3	1394.5	6071.2	1278.8
1254.9	2819.5	4713.5	2519.5	1796.1	3764.2	1701.4	4557.1	2340.4	2742.7	4360.2
4224.3	5131.9	5740.6	5778.9	6615.4	7210.6	5189.6	5518.7	6231.6	7590.1	5126.3
2632.8	4584.0	5633.7	5863.2	6008.7	6930.8	6870.2	7911.5	6428.2	8396.3	7223.0
936.4	2186.0	2712.8	2482.1	2923.8	4017.7	2015.2	3372.0	2157.1	4524.3	1918.9
603.9	1798.5	2220.5	2097.0	2003.2	3544.0	1887.8	3383.4	1507.5	3668.5	1997.4
1735.0	3352.2	3973.0	4074.7	3636.2	5228.4	2964.3	6582.8	3574.3	5920.6	3605.0
2483.9	2381.5	3126.4	3353.8	2591.1	3933.4	2087.5	3760.5	1746.0	4205.8	2552.3
725.5	3736.5	4095.7	4414.1	4164.3	5787.2	3093.7	3667.7	2828.6	7699.1	4550.8
2556.0	4426.2	5205.3	5523.9	4886.7	6854.4	3970.8	7402.9	4519.2	8038.5	5116.4
2899.6	4807.6	5531.8	6050.8	5710.0	7110.0	5521.3	6692.0	5853.0	7821.3	5786.4
3812.2	3015.7	3647.2	4116.2	3219.6	4445.5	2729.7	4517.5	2893.3	4955.3	2953.1
8237.0	4920.0	5622.4	6374.5	6579.9	6323.1	5203.2	7504.5	4552.2	5038.3	5112.9
6631.1	5628.7	5711.0	5764.8	5864.6	6173.7	5425.4	6681.5	5418.9	7689.4	5744.4
584.9	1904.8	2889.7	2918.3	2223.0	4417.5	1312.6	3686.5	1959.7	6024.1	2132.7
570.3	3605.7	4485.7	4214.7	4596.8	6806.8	2981.2	5453.2	3612.3	6807.3	4118.6
1318.7	4080.9	4535.1	5096.3	4131.3	5304.4	4729.4	5503.0	2638.1	4694.9	3629.5
1184.8	650.4	1184.5	1286.6	1428.0	1124.7	1426.0	1178.5	401.1	2909.5	375.2
1292.8	2632.0	3300.3	3853.9	3846.5	7052.5	2727.9	3271.3	1461.1	8165.0	1848.2
83.1	121.7	185.9	121.1	194.8	183.8	143.3	164.9	156.0	284.6	180.8
5655.4	3353.4	4021.1	3929.2	3955.9	4306.4	4125.0	4593.9	4280.9	7256.8	3719.6
213.2	1957.4	2242.5	2231.2	3278.7	4020.4	1220.6	1738.1	759.4	3572.9	1096.8
19546.6	7423.3	6724.2	7306.1	7350.5	7670.9	7376.9	7992.5	9402.1	9001.1	11073.2
2536.7	6091.9	6557.4	7099.7	7792.6	10118.4	5613.5	6900.1	5341.1	11930.2	7241.2
2748.3	5800.7	7057.4	7870.6	7001.8	8520.8	7045.8	7949.6	6245.4	8193.9	7135.5
6444.4	5495.2	5537.4	5148.4	5494.8	6687.2	5225.4	6174.8	4734.6	10002.7	4932.3
5420.4	7424.0	7451.9	8495.0	9842.5	8980.1	6367.0	8549.9	7949.1	9170.0	8860.9
717.8	1549.1	1932.4	1916.0	2020.9	3545.5	1283.2	3944.0	1570.3	4024.7	2156.3
1197.9	4254.9	5649.4	4732.6	4359.0	6405.9	3951.9	7564.7	4595.3	5156.3	10005.5
1111.4	3775.4	4329.8	4556.0	5636.2	9377.1	3163.2	5790.3	2390.3	10125.4	3617.2
10280.2	4686.3	5065.4	4847.7	4682.6	5144.3	4722.3	4883.2	6421.8	7227.3	5090.0
160.9	1236.9	1527.7	1379.7	940.2	1946.8	476.8	2298.5	980.3	1750.8	1342.4
1478.2	2077.1	2411.0	2869.4	2331.1	3399.5	1999.6	2568.7	1648.2	3061.6	1377.0
16695.7	4100.6	4105.3	4861.3	4294.6	5087.5	4248.8	5082.6	4182.4	5391.7	5687.1
664.1	521.6	975.0	881.2	668.2	957.0	1165.5	769.2	401.3	1705.2	307.1
2371.1	3123.9	3850.2	3990.8	3913.2	4494.1	4761.7	4143.0	2991.3	5545.9	3356.8
810.2	2434.7	3624.1	1909.2	1901.0	3502.0	1287.2	3931.0	1588.6	2957.6	3306.5
196.2	3165.7	2940.5	3402.9	3528.5	4374.6	2314.1	3247.3	2542.5	4804.9	2738.9
253.8	2416.1	3711.7	3440.4	2095.9	5039.5	1112.6	4553.3	2682.1	6018.0	2527.2
1060.9	2106.3	2211.0	1939.5	2270.1	2673.4	1719.4	2989.0	2692.7	2569.9	1916.2
3489.4	5722.0	5668.8	6322.8	5493.5	7553.0	5258.5	7443.9	5519.6	9089.8	6736.9

4227.0	3939.9	2508.5
3759.6	4400.3	1868.3
6458.3	6320.5	5001.2
8110.5	7182.5	5441.5
4081.5	2762.5	2021.6
3305.1	3122.3	1980.0
6368.2	3690.8	2779.9
4376.3	3013.5	2145.5
5791.5	4537.9	3231.0
7538.4	5228.9	3923.9
6944.4	6856.1	8061.6
5281.3	4282.7	3758.5
7914.7	6470.4	6114.3
6343.1	7226.4	6815.0
5788.2	3592.2	1689.6
7330.0	5325.0	3522.3
5313.0	6243.6	6231.3
1144.9	1494.8	1877.2
6706.4	4214.9	3223.8
159.1	281.0	89.9
4369.8	5149.7	4454.1
3357.4	2264.8	3485.9
7483.6	7595.1	5626.9
9312.8	6888.3	5213.4
9423.6	7358.4	5889.8
6233.1	5589.9	5715.9
8715.9	7303.1	6484.9
3425.9	2328.1	921.0
6471.1	6024.3	4348.4
8999.0	5697.5	4482.8
5052.2	6132.1	5134.6
3431.0	1651.9	656.1
4777.0	3171.1	1406.4
4969.5	5960.5	4289.7
1209.0	1087.5	728.5
4701.0	4023.8	3909.7
3052.2	3686.8	1325.9
3295.4	4105.4	1832.5
6761.2	5328.6	2352.4
2580.6	2305.7	1453.7
7779.7	7054.4	5166.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Pseudomonadales	f__Pseudomonadaceae
o__Salinisphaerales	f__Salinisphaeraceae
o__Salinisphaerales	f__Salinisphaeraceae
o__Salinisphaerales	f__Salinisphaeraceae
o__Salinisphaerales	f__Salinisphaeraceae
o__Salinisphaerales	f__Salinisphaeraceae
o__Salinisphaerales	f__Salinisphaeraceae
o__Salinisphaerales	f__Salinisphaeraceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae

g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__Pseudomonas
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Salinisphaera
g__Salinisphaera
g__Salinisphaera
g__Salinisphaera
g__Salinisphaera
g__unclassified
g__unclassified
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola

s__unclassified	980
s__unclassified	981
s__unclassified	983
s__unclassified	984
s__unclassified	985
s__unclassified	989
s__unclassified	993
s__unclassified	1157
s__unclassified	1404
s__unclassified	2115
s__unclassified	3386
s__unclassified	3798
s__unclassified	3931
s__unclassified	784
s__unclassified	999
s__unclassified	16368
s__unclassified	16411
s__unclassified	16600
s__unclassified	16719
s__unclassified	17307
s__unclassified	15946
s__unclassified	16043
s__Anodontia fragilis gill symbiont	2417
s__endosymbiont of Riftia pachyptila	2403
s__Loripes lacteus gill symbiont	2451
s__unclassified	1040
s__unclassified	1118
s__unclassified	1234
s__unclassified	1517
s__unclassified	1762
s__unclassified	1957
s__unclassified	1966
s__unclassified	2167
s__unclassified	2387
s__unclassified	2411
s__unclassified	2462
s__unclassified	2482
s__unclassified	2558
s__unclassified	2569
s__unclassified	2588
s__unclassified	2665

EF062806.1 gg_id:188482 Pseudomonas sp. str. MY1416 EF0628
AY303305.1 gg_id:130588 Pseudomonas sp. str. ps4-45 AY3033
EU169168.1 gg_id:244420 Pseudomonas lini str. B25 EU1691
EF513773.1 gg_id:220219 Pseudomonas putida str. JB-1 EF5137
DQ536517.1 gg_id:159873 Pseudomonas trivialis str. BIHB 747 DQ536
EU647538.1 gg_id:282969 recovered Xidatan Tanggula and Yuzhufeng glaciers glacial snow glacier Tin Plateau c EU6475
EU536806.1 gg_id:283384 profile human microbiota antecubital fossa (inner elbow) skin clone nbt222a08 EU5368
EU101096.1 gg_id:252064 Sulfide/oxygen supply ratio predicts outcome competition among sulfur-oxidizing wa EU1010
EU464759.1 gg_id:294113 Hartmann's mountain zebra feces clone AFZEB_aaj70c09 EU4647
DQ824715.1 gg_id:192521 human fecal clone RL185_aaj72b08 DQ824
EU252490.1 gg_id:236335 Pseudomonas sp. AM2(2007) str. AM2 EU2524
EF608541.1 gg_id:234990 predatory Poecilus chalcites their response lab rearing and antibiotic treatment diges EF6085
AM403206.1 gg_id:172703 Nitrate-reducing and Denitrifying Marine Aqua Biofilter marine aqua AM403
DQ824723.1 gg_id:194608 human fecal clone RL185_aaj72c07 DQ824
DQ339144.1 gg_id:149280 Pseudomonas pohangensis str. H3-R18 DQ339
EU143343.1 gg_id:238940 Salinisphaera sp. str. C1 EU1433
GU452539.1 gg_id:528872 Salinisphaera sp. str. T31B1 GU452
EF988634.1 gg_id:235478 Salinisphaera dokdoensis str. CL-ES53 EF9886
AJ421425.1 gg_id:64239 Salinisphaera shabanensis str. E1L3A AJ4214
EU740416.1 gg_id:464939 Salinisphaera hydrothermalis str. EPR70 EU7404
DQ015776.1 gg_id:139798 Antarctic lake water clone ELB25-046 DQ015
EF157203.1 gg_id:244546 Microbial natural asphalts rancho la brea heavy oil seeps Rancho La Brea tar pits clon EF1572
FJ752438.1 gg_id:530747 endosymbionts Loripes lacteus and Anodontia fragilis gill symbiont clone 2A FJ7524
U77478.1 gg_id:7623 endosymbiont Riftia pachyptila U77478
FJ752447.1 gg_id:517886 endosymbionts and Anodontia fragilis Loripes lacteus gill symbiont clone 2C FJ7524
AY542558.1 gg_id:113155 Gulf Mexico seafloor sediment clone GoM GB425 12B-13 AY5425
AM883183.1 gg_id:337155 Endosymbioses between and deep-sea siboglinid tubeworms arctic cold seep (Haak AM883
DQ394953.1 gg_id:152604 harbor sediment clone VHS-B3-62 DQ394
AB530204.1 gg_id:586339 Monitoring Suez and Tokyo bays based on analyses marine sediment clone Tokyo..B AB5302
AM040102.1 gg_id:148469 sandy sediments clone Sylt 6 AM040
AB189713.2 gg_id:104039 Ifremeria nautilei gill symbiont AB1897
AF165909.1 gg_id:7577 Escarpia spicata endosymbiont 'Alvin #2837' Alvin #2837 endosymbiont AF1659
X84980.1 gg_id:7606 Lucina pectinata gill symbiont X84980
EU488600.1 gg_id:535578 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU4886
U62131.1 gg_id:32280 Solemya terraeregina gill symbiont U62131
AM236336.1 gg_id:169677 thiotrophic endosymbiont Lucinoma aff. kazani AM236
U77480.1 gg_id:7624 endosymbiont Ridgeia piscesae U77480
AY129089.1 gg_id:81760 Seepiophila jonesi symbiont AY1290
L25707.1 gg_id:7583 Lucina floridana gill symbiont L25707
EF646140.1 gg_id:241188 Potential interactions particle- anammox and archaeal partners namibian Namibian u EF6461
AB073120.1 gg_id:67480 Endosymbiont Lamellibrachia satsuma clone TUB163 AB0731

1333.3	2632.7	3288.9	3068.8	3023.3	4119.5	2764.3	4904.8	3260.7	4123.3	3807.2
972.4	4951.5	4979.0	5393.9	5164.7	7938.7	3909.5	6700.5	3213.6	6473.1	5608.3
1346.0	1897.5	2366.9	2440.3	2508.5	2729.3	2999.6	2869.4	1181.7	2878.6	1600.6
5151.8	6351.2	7081.6	7588.5	8743.2	7986.1	9586.4	6829.7	6639.1	7912.5	7524.4
8565.1	4350.2	5089.2	5314.9	5876.0	4840.6	5031.6	5619.4	3558.1	5488.3	4136.8
1482.2	4537.7	4841.3	5203.1	5069.7	5889.4	4250.2	6861.1	4316.2	6393.6	5946.7
2438.8	3422.6	3588.0	3835.7	3275.7	4847.2	3167.0	5095.7	3027.2	5000.3	4321.1
7099.0	7061.9	7181.1	8075.3	7708.4	6897.6	5747.5	8248.3	6491.5	6527.7	7341.4
292.3	2881.0	3307.6	3636.8	4213.5	5697.1	2782.7	4698.8	2091.2	7262.3	2695.5
29513.5	11452.8	11110.4	12775.1	12080.5	10678.3	12525.2	10880.9	15072.8	15100.2	16152.2
6455.0	4403.9	4355.6	5360.1	6229.0	5306.6	4477.0	5656.4	4998.5	4530.3	6405.0
187.8	1299.9	1630.7	1572.2	1509.3	1687.7	1103.4	2503.1	992.0	923.0	1460.2
384.8	2900.6	2944.0	3139.7	3219.3	4810.4	1817.1	5546.4	2030.2	3792.9	3147.6
1744.8	4511.5	5351.8	5618.7	5261.9	5676.4	5933.4	6512.2	3677.2	5418.7	6138.0
1979.7	4837.7	5646.2	5912.3	4206.7	6076.2	3872.8	9962.3	5344.3	4196.5	6326.4
9278.3	7986.2	7133.7	7262.3	6730.4	6996.1	7201.8	6747.9	9249.9	5741.5	8508.9
423.0	3211.7	3664.9	3819.4	3578.8	3405.0	4011.0	3191.0	3040.8	2078.3	3001.9
284.0	1385.7	1434.6	1024.0	1699.8	1851.1	1821.1	2149.0	1081.2	1989.0	1311.2
56.8	239.8	178.1	211.7	208.2	287.0	211.9	280.4	96.0	189.6	243.0
10747.8	7460.1	6467.3	6213.5	7643.8	7477.9	6634.5	6828.5	6666.1	6059.2	5284.0
579.3	261.3	318.1	294.3	166.6	237.6	310.4	117.1	113.6	117.6	153.7
4334.4	5151.6	5351.2	5447.6	4751.7	4527.6	5184.5	5028.6	6689.3	5286.3	6348.2
784.7	3157.4	4271.7	3769.0	3130.9	3547.5	2879.2	4465.9	2865.4	2399.8	2502.1
10324.0	5011.9	6074.8	6549.6	7362.0	6410.8	8542.5	8363.5	5153.1	3258.0	6442.6
305.3	3924.5	3918.0	4778.4	6094.0	4343.9	4934.7	4252.3	6052.0	1769.7	3085.4
37.3	136.0	157.3	174.8	221.0	170.1	208.3	216.7	80.1	119.4	95.4
472.1	4612.7	5024.4	4597.6	4460.1	4712.9	4861.6	5289.8	3115.4	4269.7	4451.3
12118.2	4403.6	4821.8	5151.4	6311.3	4863.2	5742.1	4269.7	4103.7	3727.9	5169.6
850.8	2002.1	2573.3	2300.4	1961.2	1896.3	2371.6	1807.1	1747.6	1963.7	1919.9
156.1	1864.1	1911.8	2243.8	2821.2	1675.7	3234.2	2222.6	662.3	672.2	1138.4
739.9	2797.8	3297.6	3507.6	5385.6	3759.5	5086.5	4144.9	2258.1	3070.1	2267.5
751.6	4130.6	4486.7	4622.1	5227.2	4444.8	5117.0	5506.9	2171.5	3377.6	3493.3
178.3	1361.1	1930.3	1564.3	2435.6	1577.5	1575.0	2051.4	600.5	513.0	1365.2
628.3	3062.7	3406.7	3400.2	5172.2	4464.8	3829.8	4456.1	4857.2	2534.2	2015.5
5349.0	3390.0	3717.1	4104.1	4276.8	3831.4	4469.1	3936.4	4054.7	4430.8	4194.5
95.2	966.7	1350.9	1250.8	895.5	1204.1	892.7	1328.8	790.5	1517.9	681.0
2312.9	3617.9	3628.3	4490.6	6400.1	4911.5	5536.4	6778.3	4005.7	2490.5	3264.6
5355.0	3931.8	3637.0	4311.9	5903.9	4584.8	4306.1	4908.3	4031.1	4094.3	3978.7
740.5	2017.8	2257.8	2737.5	3603.0	1626.3	1980.7	4791.6	2037.2	257.9	1349.2
4771.0	4028.3	4869.9	4798.1	5748.6	5340.7	5611.4	7269.8	3704.3	5633.5	3932.9
9706.1	5294.8	5013.6	5624.3	5241.0	5055.2	5968.8	4868.6	4322.9	3965.5	6187.3

5108.6	3799.8	2539.5
7610.7	6688.6	6715.8
3194.4	3014.4	2730.0
7553.5	6961.1	6925.6
6761.6	5026.4	3425.3
7469.6	5277.5	3203.7
5244.7	5087.4	6308.0
7695.4	7158.7	5416.8
5073.4	4386.1	2742.5
11106.9	12627.2	11231.8
5126.8	3891.4	6086.9
1850.2	2447.5	2583.7
4463.8	4351.2	2088.5
5384.0	7058.3	5488.9
7563.7	6229.2	3907.0
6791.9	6577.4	6987.2
3184.6	3119.8	3897.8
2745.9	1274.6	1402.1
316.1	335.4	193.2
8184.3	7381.7	7671.4
264.1	379.8	355.6
4387.1	5819.8	4480.8
3882.8	4202.4	2772.6
6926.6	6478.1	5064.8
3469.6	4305.3	4788.0
380.1	416.5	229.3
5100.6	5854.3	4620.4
4139.1	4726.7	4876.7
1605.5	1812.9	2013.0
2224.5	2051.2	2512.1
4102.9	3440.1	3440.2
5629.3	5447.9	5418.2
1935.8	1716.2	2101.7
3376.6	4370.5	4097.5
4278.4	5758.8	4059.6
1481.6	1555.8	826.5
5459.2	4784.7	4137.5
4268.4	4604.2	4410.5
2612.5	3198.2	2449.7
6504.3	6666.6	5028.5
4561.5	5049.1	4920.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Sedimenticolales	f__Sedimenticolaceae
o__Thiohalomonales	f__Thiohalomnaceae
o__Thiohalomonales	f__Thiohalomnaceae
o__Thiohalomonales	f__Thiohalomnaceae
o__Thiohalorhabdales	f__Thiohalorhabdaceae
o__Thiohalorhabdales	f__Thiohalorhabdaceae
o__Thiotrichales	f__Endoecteinascidiaceae
o__Thiotrichales	f__Endoecteinascidiaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae

g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Sedimenticola
g__Thiohalomonas
g__Thiohalomonas
g__Thiohalomonas
g__Thiohalorhabdus
g__Thiohalorhabdus
g__Candidatus Endoecteinascidia
g__unclassified
g__Francisella
g__Francisella
g__Francisella
g__Francisella
g__Francisella
g__Francisella
g__Francisella
g__Francisella
g__Francisella
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	2673
s__unclassified	2686
s__unclassified	2713
s__unclassified	2830
s__unclassified	2860
s__unclassified	2865
s__unclassified	2869
s__unclassified	2976
s__unclassified	2997
s__unclassified	3001
s__unclassified	3081
s__unclassified	3102
s__unclassified	3106
s__unclassified	3169
s__unclassified	3188
s__unclassified	3226
s__unclassified	3232
s__unclassified	769
s__unclassified	949
s__Thiohalomonas denitrificans	2658
s__Thiohalomonas denitrificans	2789
s__Thiohalomonas denitrificans	2850
s__Thiohalorhabdus denitrificans	3209
s__unclassified	3097
s__unclassified	3176
s__unclassified	2924
s__Francisella endosymbiont of Dermacentor variabilis	3861
s__Francisella noatunensis	3470
s__Francisella philomiragia	3508
s__Francisella philomiragia	3843
s__unclassified	3607
s__unclassified	3763
s__unclassified	3806
s__unclassified	4061
s__unclassified	4076
s__unclassified	3308
s__unclassified	3452
s__unclassified	3457
s__unclassified	3750
s__unclassified	3760
s__unclassified	3862

L25711.1 gg_id:7585 Anodontia phillipiana gill symbiont L25711
AF165908.1 gg_id:7619 Escarpia spicata endosymbiont 'Alvin #2839' Alvin #2839 endosymbiont AF1659
L25712.1 gg_id:7640 Codakia costata gill symbiont L25712
L01575.1 gg_id:7575 Thyasira flexuosa gill symbiont L01575
EU487821.1 gg_id:545897 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU4878
EU487848.1 gg_id:571610 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU4878
EU487790.1 gg_id:538251 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU4877
AF420355.1 gg_id:74333 hydrothermal sediment clone AF420355 AF4203
DQ394903.1 gg_id:154047 harbor sediment clone VHS-B1-30 DQ394
AY129088.1 gg_id:81293 unclassified escarpiid symbiont AY1290
DQ513106.1 gg_id:160275 Microbial life fluids ridge flank crustal fluid clone FS275-64B-03 DQ513
EU487817.1 gg_id:569845 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU4878
EU487849.1 gg_id:557080 lucinid bivalve- symbiotic system: significance geochemical habitat on and gill symbi EU4878
EU290681.1 gg_id:241066 microbial structure biogeochemical contrasting shelf sediments Namibian upwelling EU2906
AF170359.1 gg_id:7586 Dechloromarinus chlorophilus str. NSS AF1703
X84979.1 gg_id:7598 Codakia orbicularis gill symbiont X84979
EU580679.1 gg_id:269980 Autotrophic Thiomicrospira denitrificans-Like Catalyst Coupled Denitrification and Su EU5806
AM882519.1 gg_id:331064 Structure along hydrocarbon contamination coastal sediment oil polluted water pet AM882
EU287120.1 gg_id:235979 Pacific arctic surface sediment clone P13-27 EU2871
EF117913.1 gg_id:198462 Thiohalomonas denitrificans str. HLD 14 EF1179
DQ836238.1 gg_id:168486 Thiohalomonas nitratireducens str. HRHd 3sp DQ836
EF455919.1 gg_id:217101 Thiohalomonas denitrificans str. HLD 15 EF4559
EU374712.1 gg_id:274344 Thiohalorhabdus denitrificans str. HLD 10 EU3747
EU246256.1 gg_id:255672 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-P5-H08 EU2462
AY054370.1 gg_id:105206 marine ascidian symbiont clone AY054370 AY0543
GQ346935.1 gg_id:561050 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
AY805307.1 gg_id:124180 Dermacentor variabilis symbiont AY8053
AY243027.1 gg_id:84287 Francisella philomiragia str. 2669 AY2430
L26085.1 gg_id:7731 Francisella philomiragia L26085
AJ698862.1 gg_id:112014 Francisella philomiragia str. ATCC 25015 AJ6988
Z21931.1 gg_id:7757 Francisella tularensis str. lvs ATCC 6223 FSC 155 Z21931
EF153479.1 gg_id:208502 Francisella philomiragia str. DSM 7535 EF1534
AM403242.1 gg_id:192162 Francisella piscicida str. 2006-Chile AM403
AB001522.1 gg_id:7749 Ornithodoros moubata symbiote B AB0015
EU924183.1 gg_id:323152 sequences ticks USA: south-central Pennsylvania clone DA2 EU9241
FJ425613.1 gg_id:365486 communnities healthy and diseased colonies Caribbean coral Montastrea faveolata C FJ4256
FJ202233.1 gg_id:340201 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2022
FJ202510.1 gg_id:319177 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2025
FJ202975.1 gg_id:314000 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2029
FJ202678.1 gg_id:337559 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2026
FJ202250.1 gg_id:330874 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2022

241.0	1126.3	1644.9	1986.7	1585.3	1703.5	1856.6	2319.4	1239.5	2007.8	1568.7
66.3	246.6	709.0	654.1	395.6	435.7	351.8	554.7	1467.3	167.3	465.6
641.9	4046.9	3240.5	2694.0	2747.9	2840.1	2929.7	3407.8	1818.2	4850.5	1550.8
77.5	513.7	808.7	840.0	1105.7	641.1	896.4	1319.8	345.1	249.9	550.2
3425.9	6456.5	6356.2	7284.1	6537.1	6845.0	7206.4	6781.4	5123.8	7124.3	7117.0
25652.5	6340.5	6535.7	6595.8	7130.7	6881.0	6423.4	7006.7	11003.6	5999.4	8918.0
13798.5	5791.6	5494.7	5939.5	7312.0	6364.2	6846.1	6664.4	10123.8	7028.5	7224.4
84.8	1768.6	2344.5	2654.7	2511.7	1470.4	2917.1	2987.9	625.8	284.3	1325.3
6765.5	5595.6	5615.6	6318.9	6244.8	6066.3	5842.6	6407.1	8003.8	6595.3	6759.0
1211.9	1433.6	2245.6	1802.2	1709.6	2223.1	1415.9	2465.2	2593.3	4217.7	1373.2
4377.6	3894.0	5094.2	4358.2	4622.5	4305.6	3848.1	4941.0	3965.7	3153.8	3086.0
25872.0	8279.7	7306.3	7737.2	9127.5	7723.4	8160.5	7331.6	9200.1	7346.6	9704.8
3434.6	2943.6	4029.4	3782.6	4485.3	3436.3	3777.3	4458.8	3686.6	2056.3	3375.0
971.7	3896.5	3796.4	3641.3	6321.6	4452.1	7790.9	4476.6	2375.2	2653.5	1831.5
5890.1	3022.9	3368.7	4460.9	3767.1	3506.2	3200.8	5379.4	2645.7	1561.1	3220.6
47.2	1664.5	1518.0	1695.2	2066.8	1192.2	3102.4	1900.7	799.7	430.4	830.8
26803.2	8478.3	9103.4	10049.6	10680.2	9814.1	8848.5	9147.0	10000.8	8378.0	11169.0
905.6	4024.7	3959.2	4425.8	5164.2	4616.0	5977.8	5378.8	2769.3	1156.4	3267.6
122.1	2482.6	2846.5	2799.6	2703.5	2635.4	1976.9	3647.1	1505.0	514.3	1489.9
93.4	3613.3	3623.4	3895.6	2830.3	3061.6	3281.7	4238.2	1248.8	1514.6	1537.2
1462.0	2289.6	2660.6	2892.0	3288.5	3078.1	3546.6	2941.3	1093.8	3415.6	1341.2
2555.1	4958.9	5883.2	6503.8	6689.0	6390.9	6726.3	7146.9	3275.5	4286.3	4637.5
61.9	56.3	64.2	44.1	51.6	39.7	52.0	39.9	47.2	26.1	40.1
8076.5	5678.0	5821.9	5591.4	7932.3	5791.8	6418.8	5434.3	5719.9	3352.2	5509.7
2303.9	729.4	972.9	695.1	743.6	874.2	671.9	984.0	338.5	980.6	433.9
14154.7	3443.6	2727.9	2631.0	2826.1	3770.3	2558.5	3722.6	2733.5	2100.1	2035.8
578.0	984.5	1156.8	1005.0	853.8	1130.1	838.4	1134.5	712.3	537.9	631.3
1140.6	2132.7	2246.8	2144.9	2099.5	2410.1	2261.5	2440.7	1691.2	1339.1	2096.0
3239.2	5428.3	5519.2	5036.5	4836.3	5775.9	5172.3	5700.3	5533.6	7241.3	6836.7
1143.8	2160.6	2292.0	2549.3	2485.5	2590.7	2476.4	2880.9	1707.1	1260.2	2163.5
871.8	3812.9	3635.6	4686.0	4509.9	4408.4	3646.1	5660.9	2507.0	2815.2	4104.2
784.7	1646.4	1713.1	1739.0	1614.8	1770.0	1496.3	1904.1	1116.8	973.9	1515.0
6685.1	3282.7	2559.1	3124.0	3239.7	3477.0	2693.5	4334.1	1774.1	1909.0	2725.2
1335.0	2168.4	2267.4	2334.2	2105.3	2593.5	2357.5	2645.5	1676.0	1115.5	1656.1
1532.1	1494.8	2261.1	1913.3	1632.4	1828.8	2951.9	1844.1	1980.2	1124.1	1532.7
6875.7	4527.1	4683.9	5318.2	5231.7	4631.9	5933.6	5543.4	4075.9	1778.7	5274.5
111.5	987.8	1142.3	1387.4	521.9	1008.2	1301.9	1227.0	803.0	862.8	623.2
9010.2	7876.7	7989.6	8959.1	8965.5	7627.7	8664.8	7804.7	10191.7	8896.5	8757.8
583.1	3217.7	3182.8	3734.7	3464.9	3036.2	4099.0	3370.4	2532.3	3087.9	2754.7
7511.6	5297.8	4967.4	6087.1	6383.8	5011.7	7031.2	5073.8	5296.0	5156.6	5514.4
14762.2	4168.6	3559.0	3893.0	3988.9	4059.9	4509.0	4036.6	4935.1	4273.7	5960.2

2730.6	2552.7	1317.0
234.4	527.0	224.9
3391.2	1955.9	2352.4
1406.3	784.9	828.2
6224.5	7455.1	6423.7
5780.4	7819.2	6382.6
5692.3	7843.0	6080.9
2029.5	1627.9	1551.7
5380.8	5905.0	5115.6
2232.6	3232.8	1518.1
4329.0	4688.8	3688.5
6739.2	7717.9	7185.9
3340.0	4125.9	3925.9
4619.2	4451.6	4564.3
3895.6	3969.1	3747.4
1444.5	1135.8	1671.2
8355.3	10364.5	9138.8
5240.2	5200.7	5701.1
2759.9	3171.9	2001.3
5557.9	2448.2	1975.5
2640.8	2483.4	2127.5
5853.8	5440.5	6337.1
44.8	47.5	31.1
5639.9	5329.9	6246.2
1224.7	1361.2	1284.4
3932.6	4707.5	5435.8
1263.6	1427.8	1701.3
2384.1	2749.2	2522.7
5248.9	6133.9	5213.0
2832.6	3371.6	2751.1
5551.0	4715.3	5337.9
1776.4	2022.4	1757.7
3782.5	4276.1	3288.8
2932.4	3155.6	3454.7
1371.1	2447.1	2084.8
4945.3	5768.5	6063.6
1398.4	1646.4	1034.0
7510.8	9242.8	7975.0
3795.3	4172.6	3301.0
6193.0	5190.7	5603.0
4335.8	5474.6	4048.0

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Francisellaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Piscirickettsiaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Methylophaga
g__Methylophaga
g__Methylophaga
g__Methylophaga
g__Methylophaga
g__Methylophaga
g__Methylophaga
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Beggiatoa
g__Beggiatoa
g__Beggiatoa
g__Beggiatoa
g__Beggiatoa
g__Beggiatoa
g__Beggiatoa
g__Beggiatoa
g__Beggiatoa
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix

s__unclassified	3913
s__unclassified	3928
s__unclassified	3991
s__unclassified	4047
s__Methylophaga marina	1055
s__Methylophaga marina	1080
s__Methylophaga marina	1952
s__Methylophaga marina	2290
s__unclassified	1829
s__unclassified	385
s__unclassified	411
s__unclassified	1233
s__unclassified	1269
s__unclassified	1391
s__unclassified	1655
s__unclassified	1752
s__unclassified	1834
s__unclassified	1897
s__unclassified	1929
s__unclassified	2014
s__unclassified	3431
s__unclassified	3569
s__unclassified	594
s__unclassified	659
s__unclassified	878
s__unclassified	943
s__unclassified	3322
s__unclassified	3453
s__unclassified	3535
s__unclassified	3734
s__unclassified	3786
s__unclassified	3820
s__unclassified	3933
s__unclassified	3935
s__unclassified	3960
s__gamma proteobacterium ectosymbiont of Rimicaris exoculata	2802
s__gamma proteobacterium ectosymbiont of Rimicaris sp.	3172
s__gamma proteobacterium endosymbiont of Siboglinum fiordicum	2450
s__gamma proteobacterium endosymbiont of Siboglinum fiordicum	2505
s__gamma proteobacterium endosymbiont of Siboglinum fiordicum	2777
s__gamma proteobacterium endosymbiont of Siboglinum fiordicum	2833

DQ889939.1 gg_id:173408 natural product producing octocoral Erythropodium caribaeorum Thiotrichales clone DQ889
AY102612.1 gg_id:64552 Caedibacter taeniospiralis AY1026
FJ202512.1 gg_id:350687 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2025
AB176554.1 gg_id:98992 Thiotrichales CML28 AB1765
DQ660912.1 gg_id:225063 Methylophaga sp. str. DMS002 DQ660
AY128533.1 gg_id:86185 Methylophaga natronica str. Bur2 AY1285
EU328072.1 gg_id:278985 dynamics during bioremediation crude oil contaminated moderate saline soil clone Y EU3280
DQ400508.1 gg_id:160152 Methylophaga marina str. KM5 DQ400
FJ172066.1 gg_id:333882 Microbial athalassohaline Tirez lagoon (Spain) water clone MJW9 FJ1720
AF384373.1 gg_id:66020 Methylophaga alcalica str. M39 AF3843
AY694421.1 gg_id:99935 Methylophaga murata str. Kr3 AY6944
EU287295.1 gg_id:254176 Pacific arctic surface sediment clone S11-112 EU2872
AY375062.1 gg_id:97463 deep sea sediment clone B92 AY3750
EU287249.1 gg_id:246106 Pacific arctic surface sediment clone S11-66 EU2872
EU287255.1 gg_id:239634 Pacific arctic surface sediment clone S11-72 EU2872
AJ704666.1 gg_id:109271 marine sediment clone HMMVCen-13 AJ7046
EU236405.1 gg_id:290767 Haliclona gellius: sponge and symbionts 13 m depth Pacific Ocean clone Hg92D11 EU2364
EU287300.1 gg_id:255354 Pacific arctic surface sediment clone S11-117 EU2873
FJ155021.1 gg_id:353468 seasonal fluctuation coastal Bohai Bay sequencing and RFLP soil clone D21 FJ1550
DQ521546.1 gg_id:191569 Antarctic lake ice cover clone ANTLV7_H05 DQ521
AY212648.1 gg_id:99225 water 20 m upstream manure clone 195up AY2126
GQ007716.1 gg_id:501947 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ007
AY542557.1 gg_id:113736 Gulf Mexico seafloor sediment clone GoM GB425 12B-8 AY5425
EU919781.1 gg_id:340144 Kongsfjorden western Spitsbergen Svalbard ocean water clone b59 EU9197
EU287118.1 gg_id:257905 Pacific arctic surface sediment clone P13-25 EU2871
AY375084.1 gg_id:97200 deep sea sediment clone B132 AY3750
AF532772.1 gg_id:60454 marine sediment clone Limfjorden L22 AF5327
AF035956.1 gg_id:7511 Beggiatoa sp. 'Bay Concepcion' str. Bay Concepcion 'Bay AF0359
FJ875195.1 gg_id:573955 Coexistence Beggiatoa spp. Epsilonproteobacteria and Fusibacter organically-enriche FJ8751
AF532775.1 gg_id:60451 marine sediment clone Limfjorden L9 AF5327
AY580013.1 gg_id:111119 Beggiatoa sp. 'Carmel Canyon' Carmel Canyon AY5800
AY883933.1 gg_id:137953 Juan de Fuca filamentous AY8839
AF532774.1 gg_id:60452 marine sediment clone Limfjorden L8 AF5327
AB108786.1 gg_id:84651 marine sediment clone Tokyo Bay D AB1087
AF532773.1 gg_id:60453 marine sediment clone Limfjorden L6 AF5327
FM203381.1 gg_id:432832 Biogeography filamentous and epsilonproteobacterial ectosymbionts vent shrimp e FM203
FM203400.1 gg_id:407753 Biogeography filamentous and epsilonproteobacterial ectosymbionts vent shrimp e FM203
EU086765.1 gg_id:286899 Siboglinum fiordicum and Endosymbionts Siboglinidae (Annelida) Norway: Ypsesund EU0867
EU086760.1 gg_id:285854 Siboglinum fiordicum and Endosymbionts Siboglinidae (Annelida) Norway: Ypsesund EU0867
EU491817.1 gg_id:271093 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU4918
FJ497604.1 gg_id:533041 Microbial Ecology Fe-rich Mats and Basaltic Rock American Samoa Vailulu'u Seamoun FJ4976

179.0	1478.7	1969.6	2459.9	1609.7	1288.2	2386.0	2355.6	1511.7	1013.2	1272.6
16118.4	8217.4	8218.9	8538.4	9132.6	8257.0	9530.0	8831.9	7565.5	7971.6	7510.2
19940.5	9887.1	8996.5	9652.6	8807.1	9391.9	7909.5	9613.9	10387.6	10546.3	12379.5
34.1	14.5	17.7	24.5	15.3	15.8	13.5	18.1	18.0	14.6	16.2
900.3	2357.8	2265.5	2762.6	2778.4	2873.6	2605.3	2465.5	1657.5	2496.1	2301.6
344.2	4068.0	3255.5	3340.1	3842.4	3885.1	4036.5	3326.6	3089.7	1918.7	1928.2
4483.4	5674.9	5145.1	4665.1	5134.4	4808.9	7032.7	4778.6	4149.3	3584.9	3875.8
763.8	5916.3	2924.2	3024.4	2690.0	3744.4	1914.6	3492.4	1300.9	1731.3	2950.9
1037.1	2276.2	2467.0	2479.2	2865.0	2502.0	2715.6	4143.9	2711.0	1839.8	3117.3
13650.3	8087.4	8131.6	8281.8	7247.6	7777.1	7722.6	7010.3	11541.9	7785.4	11978.2
6457.3	4441.3	4651.5	5309.0	4602.6	4690.7	5381.6	5946.6	8116.0	6301.3	8067.2
7146.0	6274.6	5812.7	6769.6	6674.4	6375.2	5494.8	7099.8	6072.0	5551.0	11327.9
823.7	3715.3	4658.0	3915.3	3921.9	3804.9	4298.3	4259.7	5754.1	2726.4	4545.6
570.5	2581.9	2937.3	3136.6	3971.6	2088.2	1923.9	2763.9	3259.2	1860.0	3705.2
1507.3	4035.1	4182.5	4010.6	7155.7	4028.2	5191.6	3969.9	4697.5	3743.3	4033.5
35.4	105.9	182.8	184.1	313.9	123.8	832.2	133.1	67.3	34.2	107.9
1105.8	5561.2	6311.4	6324.1	7086.4	7038.0	6800.0	7836.7	4667.1	3562.0	7861.6
1215.1	3318.6	3715.9	3966.2	3799.3	2489.6	2188.2	3271.0	3273.2	1839.6	6630.1
137.8	2415.3	2798.4	2721.6	1932.2	2645.8	1909.8	3098.3	2319.8	3305.2	3065.1
175.2	1418.4	2128.2	2420.7	2169.4	2488.2	1567.5	2337.5	1808.2	4335.7	1046.2
201.9	3087.3	3630.9	4063.7	4451.0	4404.1	3364.1	4995.8	2762.6	6001.2	2314.2
3442.8	4405.3	4419.8	5404.0	5689.1	5480.2	5511.0	5746.2	5057.3	4713.4	4339.6
4426.6	3512.2	4043.8	4883.0	4376.8	4356.1	5082.9	4102.8	4615.0	5682.7	3849.3
2808.8	7647.3	6554.7	8387.5	5422.1	6917.5	6819.4	6457.5	9301.3	6650.6	6968.4
3180.8	5635.1	5903.6	6388.0	7114.6	6502.2	6742.3	5784.5	5923.9	4854.5	5120.8
27799.8	10843.2	11772.2	10400.4	10925.9	10182.9	11766.8	10700.4	19003.7	11253.2	14733.6
7447.1	6944.4	6195.0	7097.7	7624.8	6585.1	8954.5	6822.1	6776.8	7267.1	6115.2
381.9	2892.9	3282.1	3175.7	4079.7	3010.0	3192.0	3331.0	1213.0	2405.6	1861.5
7191.4	5364.8	5361.8	5717.4	6046.9	5385.3	5749.5	5376.3	5402.6	8368.1	7967.8
3582.4	2526.0	2814.9	3256.2	3237.9	2916.9	3487.1	3238.5	2677.0	2129.7	2987.8
9815.9	3627.7	4875.1	5063.2	3729.5	3236.0	4533.4	3660.8	4488.2	2861.5	4628.1
55.0	91.7	132.2	84.8	103.8	108.6	108.1	100.4	44.7	91.2	80.7
21973.9	9920.1	8670.9	9504.9	8411.7	8765.0	8980.7	7237.4	15799.5	10252.9	12547.6
4069.5	6867.7	7879.9	8359.5	5454.0	6982.3	7089.1	7073.1	6308.5	5240.2	10932.7
285.0	1431.8	1845.1	1964.5	2441.5	2132.0	2425.9	1873.7	1216.2	2616.1	1082.9
67.3	1664.1	2212.1	2174.5	1485.5	942.4	2945.8	1090.5	299.3	156.9	623.1
200.4	1691.6	1804.8	1786.5	2159.1	2861.6	2767.0	2194.7	1209.0	4728.9	945.4
1924.3	3640.5	4097.7	3419.3	2491.6	3203.2	2451.5	4466.7	4549.4	2043.2	3202.7
13491.9	4485.0	4175.7	4520.2	4644.5	4418.0	4994.2	6032.2	4975.4	3534.0	4398.4
26431.5	9096.4	8860.3	9976.3	8441.0	8674.4	10066.9	7664.6	11804.2	9639.4	13262.4
11117.8	5538.7	5078.7	5480.1	5592.3	5658.2	6487.0	5831.9	6593.1	7608.2	7852.1

2498.1	1931.2	1757.8
8937.4	8486.2	9508.8
9640.8	10149.4	9738.4
14.4	16.9	14.5
2406.6	3286.5	2488.6
3232.4	4101.3	3498.9
4973.5	4680.0	3608.0
1723.3	2468.4	1898.5
2983.0	3243.0	1299.6
6896.6	7038.4	6376.3
4274.0	5680.2	3710.3
7841.9	6942.4	4422.1
4876.0	4122.1	3214.9
2520.1	2020.6	2526.6
5100.8	4245.8	4700.8
127.8	148.7	195.1
6406.3	7285.2	4629.4
3100.9	2858.5	2678.7
3675.2	3667.1	2587.7
3435.3	2277.5	1705.0
4820.9	4970.5	3576.0
4262.5	5948.9	4703.5
3925.0	4254.9	3726.6
5950.4	6113.9	5786.5
6428.3	7104.5	6399.6
10465.2	14011.0	11806.4
7110.8	6664.9	7118.1
2910.6	3657.2	4013.5
5376.9	6182.6	5401.1
2695.4	3164.5	2851.1
3200.7	3675.1	3911.9
81.7	158.9	85.8
8272.8	9329.3	7702.7
6359.6	7043.0	6143.7
2268.4	2387.1	2047.5
541.6	515.8	730.5
2668.1	2735.1	3143.4
3943.2	3365.9	3517.7
5647.1	4915.1	4069.4
8637.0	8638.2	7816.7
5727.4	6755.3	5186.9

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae

g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix
g__Leucothrix

s__gamma proteobacterium endosymbiont of Siboglinum fiordicum	3067
s__gamma proteobacterium endosymbiont of Siboglinum fiordicum	3288
s__unclassified	1649
s__unclassified	2313
s__unclassified	2315
s__unclassified	2343
s__unclassified	2344
s__unclassified	2365
s__unclassified	2389
s__unclassified	2431
s__unclassified	2467
s__unclassified	2487
s__unclassified	2490
s__unclassified	2535
s__unclassified	2540
s__unclassified	2550
s__unclassified	2628
s__unclassified	2688
s__unclassified	2690
s__unclassified	2707
s__unclassified	2710
s__unclassified	2752
s__unclassified	2798
s__unclassified	2807
s__unclassified	2852
s__unclassified	2878
s__unclassified	2939
s__unclassified	2952
s__unclassified	2953
s__unclassified	2978
s__unclassified	3027
s__unclassified	3041
s__unclassified	3087
s__unclassified	3088
s__unclassified	3110
s__unclassified	3124
s__unclassified	3134
s__unclassified	3145
s__unclassified	3180
s__unclassified	3276
s__unclassified	3290

EU086767.1 gg_id:280842 Siboglinum fiordicum and Endosymbionts Siboglinidae (Annelida) Norway: Skoge Inle EU086
EU491836.1 gg_id:263959 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU491
EU592359.1 gg_id:581185 Seasonal changes Salton Sea hypersaline water clone SSW84Ap EU592
AB252051.1 gg_id:170060 Oligobrachia mashikoi endosymbiont AB252
FN397818.1 gg_id:421635 geomicrobiological investigation sediments Gulf Cadiz GeoB 9072-1 anoxic sub-surfa FN397
EU617743.1 gg_id:311740 Seasonal variation microbial Yel Sea sediment clone D13S-152 EU617
AB476179.1 gg_id:559576 Compositional and functional transition epibiotic microbial hydrothermal vent galath AB476
EU265784.1 gg_id:273851 epibiotic assemblage recently described Yeti Kiwa hirsuta (Kiwidae) surface crab hyc EU265
DQ351782.1 gg_id:149662 Microbial Adherent Sediment Particles Heavy Metal Contaminated North Sea Surfac DQ351
AB440173.1 gg_id:546279 Farming and harvesting filamentous vent- galatheid crab (Decapoda; Anomura) vent AB440
AM883178.1 gg_id:349801 Endosymbioses between and deep-sea siboglinid tubeworms arctic cold seep (Haak AM883
EU652549.1 gg_id:278683 Seasonal variation microbial Yel Sea sediment clone A8S-100 EU652
FJ712487.1 gg_id:522744 and Archaea Gas Hydrate Sediments (East Sea) Kazan Mud Volcano Anaximander Mo FJ7124
AY922216.1 gg_id:114239 whalefall clone 131703 AY922
AB476177.1 gg_id:535260 Compositional and functional transition epibiotic microbial hydrothermal vent galath AB476
EU617742.1 gg_id:317335 Seasonal variation microbial Yel Sea sediment clone D13S-1 EU617
EF687220.1 gg_id:280984 Biogeochemistry iron- and sulfur-precipitating microbial mats (Nile Mediterranean) ir EF6872
FJ712552.1 gg_id:520020 Prokaryotic structure and sediments active submarine mud volcano (Kazan MV Sea) k FJ7125
DQ925898.1 gg_id:254275 Microbes and Thermal Gradients Temperature Hydrothermal Chimneys hydrotherm DQ925
AM176844.1 gg_id:160888 Recovery mangrove sediment clone SZB76 AM176
AB239761.1 gg_id:148717 isotopic evidence ectosymbiosis between filamentous and stalked barnacle (Cirriped AB239
EU652547.1 gg_id:277645 Seasonal variation microbial Yel Sea sediment clone C8S-96 EU652
AB271123.1 gg_id:165803 Oligobrachia mashikoi endosymbiont E AB271
AY225630.1 gg_id:98216 Mid-Atlantic Ridge hydrothermal sediment clone AT-s43 AY225
AY531559.1 gg_id:107157 Indian Ocean hydrothermal vent clone SF_C7-H11 AY531
FJ905702.1 gg_id:555129 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F22b FJ9057
FM242244.1 gg_id:345341 sequences sediment clone 81 T0h-oil FM242
EU707297.1 gg_id:349336 sulfur oxidizing Wadden Sea sediments Janssand intertidal sandy sediment 0 3 cm de EU707
EU025026.1 gg_id:252006 Leucothrix mucor str. LJS0601 EU025
EU265790.1 gg_id:260040 epibiotic assemblage recently described Yeti Kiwa hirsuta (Kiwidae) surface crab hyc EU265
DQ925906.1 gg_id:249236 Microbes and Thermal Gradients Temperature Hydrothermal Chimneys hydrotherm DQ925
AJ441234.1 gg_id:57450 hydrothermal vent polychaete mucous clone P. palm A 79 AJ4412
FJ712548.1 gg_id:527446 Prokaryotic structure and sediments active submarine mud volcano (Kazan MV Sea) k FJ7125
AB476202.1 gg_id:559867 Compositional and functional transition epibiotic microbial hydrothermal vent galath AB476
AM883179.1 gg_id:350065 Endosymbioses between and deep-sea siboglinid tubeworms arctic cold seep (Haak AM883
AM040128.1 gg_id:145294 sandy sediments clone Sylt 32 AM040
AY327876.2 gg_id:89122 surface vent snail foot clone SF_C7-E4 AY327
EU491039.1 gg_id:272243 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount South Rift X EU491
EU265791.1 gg_id:267469 epibiotic assemblage recently described Yeti Kiwa hirsuta (Kiwidae) surface crab hyc EU265
EU555124.1 gg_id:260421 Microbial Sulfide Hydrothermal Vent Field Juan de Fuca Ridge Dudley hydrothermal EU555
EU652546.1 gg_id:278109 Seasonal variation microbial Yel Sea sediment clone B8S-13 EU652

2993.9	1751.6	1909.5	1881.1	3010.3	2183.5	2151.7	3178.4	1638.4	577.4	1319.2
809.5	3858.5	4739.1	4620.7	5181.2	4756.8	5355.1	5250.9	3328.6	2760.0	3375.0
1091.7	3218.0	3537.5	4142.8	2819.0	3829.4	3056.0	4368.8	3977.6	2508.6	3417.7
4499.5	3370.7	3191.9	2982.5	3454.3	3532.2	3674.3	4584.6	2795.7	2303.2	2706.5
3867.5	6681.4	6347.2	6310.6	8453.3	7471.6	8390.5	7441.1	6544.3	4550.2	5733.1
3886.9	5261.4	5360.8	6132.6	6019.2	5772.1	5675.1	6089.4	7675.6	6617.5	4972.7
422.6	3737.7	3912.9	4771.1	4286.5	4994.0	4410.6	7068.5	2938.0	2375.0	4017.9
46.7	32.0	61.8	36.7	39.8	212.7	102.6	45.4	29.6	29.5	24.4
11572.5	5293.5	4637.5	5416.9	5142.1	5877.8	6183.2	5605.5	5698.0	4643.4	5592.7
69.2	878.1	923.4	836.6	807.0	1027.9	1280.2	1027.3	409.2	448.4	481.6
1797.2	6157.8	6120.1	7005.2	6567.3	7347.5	6700.4	6341.7	6439.0	7024.6	6817.3
2126.2	3718.6	3822.2	3662.5	3683.5	4741.2	3168.1	4300.0	2706.0	6902.4	3134.7
1387.5	2541.2	3468.2	3637.7	2905.5	3612.4	3983.0	4126.8	2550.5	1751.0	2128.4
1399.9	1587.1	1773.1	2295.6	2118.5	2174.0	1895.1	2852.5	1833.7	3581.7	1658.1
970.6	1733.6	2006.7	2443.8	2570.3	2386.2	2093.6	2725.7	1439.5	2794.6	1395.6
378.9	2465.2	2851.1	2882.7	2505.7	2662.8	3201.0	2706.2	2923.8	3843.6	3530.9
2230.9	3675.1	3998.0	4254.0	4715.2	5085.3	4718.9	4769.5	2933.4	2501.8	3575.1
1825.5	2160.1	3203.8	2836.4	2929.5	3120.6	2826.4	4325.3	2853.2	1356.5	1951.3
724.2	3122.7	4214.3	4087.9	5969.6	5033.4	6706.4	4115.4	2343.2	1234.7	2682.2
124.9	452.0	470.0	605.7	92.6	402.6	405.9	2258.1	365.8	237.0	3416.9
4718.7	3305.7	3321.0	2816.8	3384.1	3885.8	2707.2	4303.8	2810.9	1908.6	3143.0
4756.4	2816.4	2613.9	3157.6	3070.8	2524.4	2487.3	3105.2	4641.9	2953.1	4113.2
83.1	737.2	1191.0	1718.9	1410.7	886.9	1778.3	1080.9	701.4	240.7	407.0
4204.5	3992.0	3665.9	4144.0	5268.6	4352.9	4709.2	4155.4	4745.7	3903.1	4745.5
94.3	1443.0	1781.0	1944.3	1892.4	1880.2	2097.9	1611.8	751.9	1046.7	898.3
545.3	2891.9	2730.1	2653.3	2607.8	2766.9	3107.5	2651.4	2279.1	1637.4	2158.5
2907.7	2352.8	2073.7	2234.5	2594.8	2231.0	2402.5	2434.3	3501.6	3701.8	2330.0
1087.9	3344.8	3476.5	3459.9	4238.3	4135.2	4026.4	4492.0	3687.2	4101.0	3122.6
571.0	2350.8	3035.6	3197.2	3399.3	2892.9	3896.7	2846.9	2052.3	1580.4	2066.7
8088.4	4964.3	5258.6	5457.1	6336.4	5808.4	5861.4	6725.6	5064.0	3054.5	5034.8
239.3	3312.4	2933.2	3912.3	3124.3	3979.9	2621.8	4276.2	4279.0	1808.4	4226.3
36.0	446.1	270.4	197.2	246.3	306.5	233.4	446.6	131.5	41.7	129.6
7564.5	4596.7	5110.6	5092.2	4580.0	4601.0	4787.1	4836.9	4505.4	4059.5	4795.5
6188.6	5635.2	5695.8	6671.4	7665.8	6235.4	8542.2	6293.2	4574.8	3516.8	5710.4
1415.3	3583.6	3972.5	4427.8	4815.6	4106.6	3508.2	4375.6	4372.3	2239.7	3746.7
261.8	1653.8	1846.4	1861.5	1949.3	2730.7	1675.2	2585.8	1345.7	3552.8	1095.3
67.2	852.1	1444.6	1060.6	968.5	1337.6	2382.2	1249.0	454.6	502.4	680.0
116.1	2550.7	3265.3	3605.3	4808.5	3288.6	3958.5	3663.1	1630.5	2167.2	2701.7
3711.6	1861.1	1603.0	2661.4	2899.8	2170.9	2514.4	2452.9	2642.9	1779.9	2626.2
39.5	689.4	973.5	938.4	573.6	1441.9	817.6	2039.2	716.0	177.4	751.8
9943.1	4233.5	4335.7	5107.3	4218.7	4430.4	3648.7	5540.2	4737.3	4906.1	5016.0

1981.9	2361.9	2209.1
5284.3	4703.9	5127.1
4300.9	4618.0	3974.1
3891.5	4144.3	2257.5
7086.3	6606.4	7461.0
6144.0	6767.4	6318.4
5750.1	4745.4	4379.1
84.3	68.8	39.3
4950.2	5951.0	5629.0
699.6	960.8	817.3
6417.2	6966.1	6137.4
5353.0	4930.3	3078.5
3533.4	3544.4	2687.6
2625.4	3046.9	1708.7
2628.5	3060.0	2425.9
2553.8	4086.4	2680.7
4230.7	4362.5	4198.0
3839.9	3703.0	3097.1
3946.9	3538.8	4305.0
394.3	501.5	298.0
2438.9	3014.0	2675.7
2569.5	3817.2	2792.5
1260.7	1723.0	1363.1
3972.8	5196.1	4210.8
1586.1	1906.7	2348.3
3111.6	3387.6	2030.3
3243.7	3561.4	2714.0
4526.5	4930.9	5420.5
2883.3	3374.9	2743.8
6330.7	6471.7	5462.4
2648.7	3437.2	1839.2
266.4	371.5	331.4
4420.4	5834.5	4723.4
5706.0	6810.7	5335.9
4550.1	4995.1	3709.8
2664.0	2345.2	1920.8
1161.7	1479.5	1522.6
3367.7	3189.5	3724.6
2609.3	3162.5	2491.2
1675.8	1666.2	873.2
5096.8	6383.6	4586.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__Thiotrichaceae
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified
o__Thiotrichales	f__unclassified

g__Leucothrix
g__Thioploca
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__Thiothrix
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__sfA
g__sfA
g__sfA
g__sfB
g__sfB
g__sfB
g__sfC
g__sfC
g__sfC
g__sfD
g__sfD
g__sfE
g__sfE

s__unclassified	3297
s__Thioploca ingrica	3718
s__Thiothrix eikelboomii	2732
s__Thiothrix flexilis	2447
s__Thiothrix fructosivorans	2427
s__unclassified	2328
s__unclassified	2369
s__unclassified	2459
s__unclassified	2575
s__unclassified	2621
s__unclassified	2917
s__unclassified	3031
s__unclassified	3055
s__unclassified	3063
s__unclassified	3186
s__unclassified	3238
s__unclassified	2353
s__unclassified	3071
s__unclassified	3352
s__unclassified	3375
s__unclassified	3412
s__unclassified	3447
s__unclassified	3469
s__unclassified	3492
s__unclassified	3797
s__unclassified	3945
s__unclassified	3961
s__unclassified	4002
s__unclassified	3005
s__unclassified	3179
s__unclassified	3298
s__unclassified	2473
s__unclassified	2820
s__unclassified	2877
s__unclassified	2597
s__unclassified	2884
s__unclassified	2968
s__unclassified	2307
s__unclassified	2950
s__unclassified	3463
s__unclassified	4046

EU491688.1 gg_id:261914 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU491
AB263619.1 gg_id:178235 Thioploca sp. 'Lake Ogawara' AB263
AB042542.1 gg_id:18561 Thiothrix eikelboomii str. COM- AB042
AB042544.1 gg_id:37302 Thiothrix flexilis str. EJ1M-B AB042
GU269554.1 gg_id:546547 Thiothrix fructosivorans str. Q GU269
FJ769459.1 gg_id:513774 Changes Methanogenic Microbial After Sludge Pre-treatment full-scale municipal ana FJ7694
AM490765.1 gg_id:586481 Linking and functional nutrient spiraling mats (USA) microbial mat sulfidic cave sprir AM490
DQ413126.1 gg_id:151073 Microbial -dependent and Approaches Anaerobic/Aerobic SBR Reactor EBPR sludge DQ413
AB042537.1 gg_id:18257 Thiothrix disciformis str. B2-8 AB042
DQ067608.1 gg_id:138619 Thiothrix sp. str. FBR0112 DQ067
FM165205.1 gg_id:544166 Succession structure biotrickling filter treating loads H2S terminal restriction fragme FM165
FM174321.1 gg_id:565016 biotrickling filter treating loads H2S biology tools clone H2SRC112 FM174
FM174322.1 gg_id:564802 biotrickling filter treating loads H2S biology tools clone H2SRC127 FM174
U32940.1 gg_id:7656 "Thiothrix ramosa" U3294
L79961.1 gg_id:135216 Thiothrix unzii str. A1; ATCC 49747 L79961
AB166732.1 gg_id:99902 Thiothrix sp. str. KRN-B2 AB166
AY510242.1 gg_id:110102 microbial mat cave sulfidic spring clone LKC3_156.41 AY510
DQ676306.1 gg_id:219763 Archaeal sediment and plankton freshwater pond suboxic freshwater-pond clone M DQ676
EU662352.1 gg_id:566153 Productivity- Chemolithoautotrophically Based Sulfidic Karst Systems microbial mat (EU662
AF110276.1 gg_id:81307 Beggiatoa sp. str. MS-81-1c AF110
GQ441309.1 gg_id:568660 and dynamic mat present vs. active nitrogen-fixing microorganisms marine microbia GQ441
GU117706.1 gg_id:552714 Beggiatoa sp. Arauama I GU117
FJ516903.1 gg_id:562971 semiarid 'Tablas de Daimiel National Park' wetland (Central Spain) unravelled upper s FJ5169
EF428583.1 gg_id:255153 Beggiatoa sp. 'Chiprana' EF4285
AF110275.1 gg_id:81842 Beggiatoa sp. str. AA5A AF110
EU015402.1 gg_id:241048 Beggiatoa sp. str. LPN EU015
AF110274.1 gg_id:81779 Beggiatoa alba str. B18LD; ATCC 33555 AF110
AF110277.1 gg_id:81107 Beggiatoa sp. str. MS-81-6 AF110
AM259850.1 gg_id:212023 Spatial sponge- Mediterranean Tethya aurantium sponge cortex clone TAA-10-90 AM259
EU491871.1 gg_id:261085 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU491
FJ542932.1 gg_id:511554 Microbiomic intestine earthworm Eisenia fetida fed ergovaline treatment gut clone B FJ5429
EF471637.1 gg_id:269523 Fast Screening and Estuarine Operon Libraries whole surface water Chesapeake Bay (EF4716
GU230347.1 gg_id:568157 Multilevel approach along Rio de la Plata-South Atlantic Ocean coastal sediment clo GU230
FJ905691.1 gg_id:575131 s Tonga-Kermadec iron oxide chimney-like structure on Volcano 19 Tonga Arc clone V FJ9056
DQ988300.1 gg_id:193694 Microbial lab-scale A1-A2-O fixed biofilm system coking wastewater treatment with DQ988
DQ451463.1 gg_id:156946 forest soil clone FAC24 DQ451
EU369126.1 gg_id:346345 libraries oyster shell clone MBIOS-10 EU369
EU335403.1 gg_id:252003 Changes microbial metabolic and along hydrogeochemically variable profile unsatura EU335
EU104116.1 gg_id:336069 Evidence Comamonadaceae determinants settling performance activated sludge clo EU104
EU800820.1 gg_id:327533 It's all ranking aquatic Delaware Bay NJ clone 2C229038 EU800
AB013257.1 gg_id:8011 deep-sea sediment clone NKB5 AB013

84.3	1593.5	1748.6	1775.7	2137.3	2047.2	911.0	1701.4	1137.4	2284.1	2151.5
43.9	104.4	191.4	187.7	276.3	168.3	220.2	272.8	95.1	283.6	100.3
6047.8	4626.1	4870.6	5447.0	5772.2	4556.7	6066.4	4863.9	4922.9	4036.4	5250.5
135.0	916.3	1059.5	1119.5	1425.3	1039.4	1553.4	1065.3	712.4	1046.3	971.4
360.2	2075.4	2873.6	2806.5	3997.3	2988.2	8260.6	2442.8	1229.0	670.0	1628.0
1826.3	4236.6	4333.6	4440.4	5223.7	5527.4	10503.3	6785.3	3714.8	3319.3	4305.2
139.9	273.8	417.5	387.6	556.7	834.6	6821.5	660.8	246.1	526.0	374.2
199.4	1571.3	1841.4	1947.4	2271.0	1605.3	3219.0	1295.4	864.1	1232.5	1265.0
41.1	391.8	665.2	820.6	858.3	619.2	743.4	651.2	157.6	57.2	252.2
48.3	289.0	407.4	344.6	344.2	448.8	481.5	536.1	303.7	176.2	198.6
3193.0	6440.0	6938.2	7954.3	7039.2	7646.6	10401.0	8085.8	5834.9	7776.9	7300.2
313.0	2224.2	3396.0	4054.4	3051.5	2264.1	8327.5	2656.9	2427.1	664.1	1882.2
1900.9	3618.0	4203.3	4890.5	5240.4	3224.2	8112.3	3400.3	3101.9	2430.3	3316.5
2761.4	3492.9	4684.5	4799.3	3783.4	3516.7	9586.7	3946.6	3867.4	1539.4	3302.0
58.3	170.7	314.6	325.6	343.2	543.8	1913.4	469.3	80.7	151.5	119.3
59.2	88.2	128.7	130.2	108.4	181.5	5623.4	403.3	87.9	34.0	108.0
2452.3	5366.3	4854.2	4641.4	5617.9	5750.9	5148.7	5087.5	3779.2	3459.1	5947.5
16734.5	5530.4	5263.9	5657.0	5481.2	5405.1	7148.6	5378.0	6943.3	4141.2	7298.2
364.9	2615.1	2456.1	2759.6	3621.6	2839.4	2607.7	3268.6	1587.6	1569.5	1796.4
115.6	1694.9	2124.3	2422.6	2586.9	1564.7	1497.2	1691.0	592.4	786.5	647.2
15574.3	5736.1	5691.6	6025.8	5433.6	5768.4	5299.3	5962.3	6693.7	5807.4	7504.0
32.6	777.3	698.8	1167.5	1382.0	890.0	1405.2	1279.3	520.3	167.2	422.0
2853.4	4808.4	5622.0	5802.9	5597.7	6191.2	4834.8	7389.0	4979.8	4765.9	5692.2
972.2	6014.0	6407.1	6607.7	7492.9	6346.2	7910.7	6948.3	5637.4	2221.0	4966.4
1791.2	3179.4	3876.0	3680.1	3987.6	3340.5	3045.1	4516.6	1784.7	2732.5	2535.6
530.1	510.7	845.6	532.5	634.6	516.5	666.7	971.9	419.5	218.8	321.3
36.9	144.0	148.7	164.9	295.7	354.8	135.8	128.5	43.7	371.6	53.0
61.9	440.6	553.6	583.0	754.7	507.0	893.1	698.6	345.5	250.9	305.4
2608.3	1962.9	2010.6	1682.1	2287.4	2366.0	1753.0	3918.3	1650.5	2278.2	1740.9
4387.9	4307.5	3742.2	3825.4	4322.9	4662.8	3526.7	4728.4	3268.4	4095.5	2747.9
1052.6	6051.1	5664.3	6497.2	7741.6	6514.6	6458.3	8176.8	3678.5	3254.5	5557.1
168.1	289.5	371.3	316.9	340.3	544.2	117.9	485.8	199.3	165.7	170.0
746.3	3288.4	4014.1	4068.0	4858.5	3849.0	4123.4	3515.2	2407.4	1483.7	3209.8
555.8	7128.4	7537.4	8354.5	7706.9	7944.4	6813.8	8072.1	7592.8	5555.0	7368.7
33.5	222.4	151.8	122.7	128.3	317.9	104.6	346.9	122.9	52.8	79.5
733.9	5190.0	2979.3	3511.7	2854.1	5460.1	1866.0	4951.3	2368.6	1320.9	2256.0
1765.8	2429.0	2909.9	2641.8	3499.4	2651.2	2478.9	2931.5	1322.1	700.0	1513.0
16950.4	6956.3	7398.1	8550.6	8079.8	7953.5	8842.3	10405.2	9522.2	7200.2	11636.7
2366.7	6883.3	7128.8	8595.4	8887.8	7834.2	9878.3	8458.0	5006.2	3019.8	7808.0
131.8	2496.1	2744.4	2964.0	3446.4	2895.1	2955.8	3232.1	1855.0	2715.1	1747.0
580.2	1184.0	1270.7	1364.8	1574.1	1578.1	1635.2	1614.9	775.9	309.5	1131.0

3175.7	2640.4	1575.9
211.7	289.7	163.6
4696.2	5072.7	5576.3
801.2	1221.2	847.5
2046.8	2242.5	1825.2
7501.1	6151.5	7288.4
619.4	548.0	231.7
1521.6	2031.6	2140.0
307.1	516.7	370.5
362.8	634.3	554.3
8453.3	7219.6	6971.9
2387.6	2684.3	2229.8
3841.3	4068.6	4269.5
4340.4	3548.9	3674.1
359.5	386.3	266.3
318.3	141.1	98.5
4736.9	5235.4	3868.4
4917.0	5968.8	4805.0
2752.1	3566.4	2899.9
1498.0	1805.7	1064.6
6163.4	8739.4	6230.3
1014.1	1284.5	1297.7
6498.3	8271.8	5879.6
6859.6	7297.3	8273.1
3594.4	4379.7	3899.6
741.3	1023.9	645.4
314.7	429.5	352.2
581.6	1014.3	872.2
1933.9	2405.1	3018.7
3585.6	4094.6	4156.7
7393.2	6715.4	8330.9
767.5	617.7	719.0
3884.6	3228.2	4094.8
7873.5	7896.3	7465.2
170.5	202.1	238.8
5329.7	5060.7	7359.5
4086.4	2707.3	2790.4
10828.0	9903.9	10811.7
8457.8	7566.2	10064.4
3647.6	3012.9	3330.8
1653.8	1283.7	1919.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Thiotrichales	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified

g__sfF
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfB
g__sfB

s__unclassified	2702
s__unclassified	2317
s__unclassified	2366
s__unclassified	2375
s__unclassified	2390
s__unclassified	2397
s__unclassified	2449
s__unclassified	2461
s__unclassified	2489
s__unclassified	2510
s__unclassified	2524
s__unclassified	2584
s__unclassified	2603
s__unclassified	2687
s__unclassified	2699
s__unclassified	2738
s__unclassified	2783
s__unclassified	2896
s__unclassified	2914
s__unclassified	2915
s__unclassified	2972
s__unclassified	3008
s__unclassified	3020
s__unclassified	3025
s__unclassified	3032
s__unclassified	3040
s__unclassified	3045
s__unclassified	3051
s__unclassified	3065
s__unclassified	3158
s__unclassified	3177
s__unclassified	3185
s__unclassified	3205
s__unclassified	3207
s__unclassified	3230
s__unclassified	3234
s__unclassified	3237
s__unclassified	3259
s__unclassified	3299
s__unclassified	2345
s__unclassified	2356

EU221518.1 gg_id:314835 Trachelomonas scabra str. NJ T235 EU221
FM242254.1 gg_id:356042 sequences sediment clone 22 T0h-oil FM242
FJ202937.1 gg_id:334435 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2029
EU369130.1 gg_id:333009 libraries oyster shell clone MBIOS-14 EU369
FN396657.1 gg_id:539488 constant flux thermophilic cold seabed Arctic marine surface sediment clone s5_0_I_ FN396
AM882547.1 gg_id:333792 Structure along hydrocarbon contamination coastal sediment oil polluted water pet AM882
EU050800.1 gg_id:243549 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_03_88 EU050
AJ240989.1 gg_id:7567 Norway:(Svalbard)Hornsund clone Sva0318 AJ2409
FJ545579.1 gg_id:552276 Diveristy Seawater and Sediment Northern North Yel Sea sediment clone S2-59 FJ5455
EF632659.1 gg_id:251374 Unique microbial contrasting aquatic altitude Andean Altiplano (northern Chile) sedir EF6326
FJ712446.1 gg_id:532489 Prokaryotic structure and sediments active submarine mud volcano (Kazan MV Sea) k FJ7124
EU050802.1 gg_id:255117 libraries sediment Kings Bay Svalbard Arctic clone SS1_B_01_06 EU050
EU734980.1 gg_id:327786 assemblages sediment station DBSE Northern Bering Sea clone 074B2 EU734
DQ351809.1 gg_id:146146 Microbial Adherent Sediment Particles Heavy Metal Contaminated North Sea Surfac DQ351
GQ259302.1 gg_id:584388 Microbial activities coastal marine sediments and water column Svalbard surface se GQ259
AM176874.1 gg_id:161459 Recovery mangrove sediment clone SZB41 AM176
DQ015812.1 gg_id:140611 Antarctic lake water clone ELB16-159 DQ015
AM997958.1 gg_id:539642 and biogeography deep-sea surface sediments South Ocean Atlantic Ocean:South-A AM997
AF452606.1 gg_id:63851 hypersaline Mono Lake clone ML1218M-31 AF4526
FJ425594.1 gg_id:369412 communnities healthy and diseased colonies Caribbean coral Montastrea faveolata cl FJ4255
CU467479.1 gg_id:337214 Prokaryotic Tunisian saltern Saltern solar multipond clone CU467
AY536224.1 gg_id:101210 host gut clone LAgut--P12 AY5362
FJ712536.1 gg_id:515895 Prokaryotic structure and sediments active submarine mud volcano (Kazan MV Sea) k FJ7125
AB015252.1 gg_id:7561 deepest cold-seep area Japan Trench clone JTB148 proteobacterium AB015
FM179868.1 gg_id:333458 Biogeochemical processes microbial Gullfaks and Tommeliten methane seeps (Nortl FM179
CU467466.1 gg_id:352266 Prokaryotic Tunisian saltern Saltern solar multipond clone CU467
FJ152643.1 gg_id:310058 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX1A_ FJ1526
DQ351787.1 gg_id:145050 Microbial Adherent Sediment Particles Heavy Metal Contaminated North Sea Surfac DQ351
EU592402.1 gg_id:578072 Seasonal changes Salton Sea hypersaline water clone SSW11Ap EU592
FJ264563.1 gg_id:352025 Manganese and Iron Dependent Anaerobic Oxidation Methane methane seep sedim FJ2645
EU287251.1 gg_id:256806 Pacific arctic surface sediment clone S11-68 EU287
DQ833465.1 gg_id:171373 detected analyses depth sediment Guanting Reservoir clone 5-7 DQ833
FJ152993.1 gg_id:330383 Changes ly soil (Mexico) flooding alkaline saline soils former lake Texcoco clone TX4CI FJ1529
DQ394977.1 gg_id:155915 harbor sediment clone VHS-B4-12 DQ394
FJ205342.1 gg_id:550486 Prokaryotic deep-sea hydrothermal region East Lau Spreading Centre deep marine se FJ2053
FM242255.1 gg_id:311786 sequences sediment clone 12 T0h-oil FM242
DQ330799.1 gg_id:159131 Guerrero Negro hypersaline microbial mat clone 02D2Z21 DQ330
AB294963.1 gg_id:225004 -dependent & analyses hydrothermal system off Taketomi Island Japan microbial ma AB2949
DQ811839.1 gg_id:164052 mangrove soil clone MSB-3C10 DQ811
AJ504486.1 gg_id:62635 sewage sludge clone AJ5044
CU922396.1 gg_id:567904 Towards definition core microorganisms involved digestion mesophilic anaerobic dig CU922

4206.5	8237.3	6087.7	6415.6	6802.4	6787.4	6016.3	6622.4	5384.7	2939.0	5490.0
16432.0	4414.3	4609.2	4873.7	4389.4	4255.7	4480.2	4173.6	6411.0	5333.8	7170.3
52.1	89.9	100.5	94.7	141.5	55.2	99.5	56.7	18.1	15.9	46.8
2987.2	3846.3	3615.6	4184.0	4120.9	3974.5	4856.6	3443.9	3169.5	4577.5	4782.4
19893.0	9209.9	8759.9	10141.4	11936.6	9394.5	13129.3	9134.6	7810.8	5744.6	9736.0
707.6	4153.7	4563.6	4893.4	5368.4	4831.7	5095.4	5149.9	3699.3	3050.1	3957.0
542.4	2912.3	3493.2	4495.2	4950.3	3023.1	4218.7	4059.1	1737.9	705.7	1097.8
8576.2	6066.3	5480.4	6442.9	6716.1	5651.9	7021.6	5879.9	4792.4	4413.6	6692.0
9103.7	8404.3	7476.7	7006.0	5773.8	7311.7	4687.0	7130.2	8811.7	10242.2	7839.7
13109.6	6315.5	6038.1	7439.5	6019.7	4873.5	7370.0	5407.5	8882.3	7104.6	8898.6
7232.6	6691.7	6485.9	6849.2	5554.8	6013.1	5880.5	6315.3	7225.5	6457.1	6867.4
2079.2	3487.2	3997.6	4815.9	3192.2	3541.8	3995.4	3618.0	2699.2	1458.1	3156.6
167.1	927.5	1273.1	1219.4	1643.3	1022.0	1503.2	1687.3	180.2	828.2	1235.6
3412.7	3863.7	4550.8	5190.6	3472.5	3798.0	4789.9	3445.5	3093.5	4010.8	1845.8
1105.6	593.8	530.2	682.7	539.5	700.4	486.6	1034.7	583.6	880.4	587.1
85.3	1239.3	2007.1	2000.5	1518.5	1281.6	1658.4	2176.0	1298.7	431.0	2812.9
3710.8	2464.6	2291.8	2528.8	3077.0	2387.4	2564.2	1839.9	2740.8	2055.8	3404.2
6828.7	4006.6	3795.0	3757.9	3484.7	4499.2	3676.4	3360.7	4605.0	3573.7	5692.7
347.0	1819.7	2599.5	3031.1	2420.6	2294.0	3579.0	2476.9	1699.4	3144.0	2170.8
1093.8	3148.4	3154.9	3189.3	3396.6	3045.1	3383.0	3615.6	2267.6	1828.2	3687.8
1830.8	6809.5	6403.1	5162.0	7868.7	6515.3	7479.4	6106.3	8388.0	6781.9	9195.2
7056.7	4991.8	4646.1	5092.5	5090.9	4776.4	5872.0	5044.6	6846.2	6199.7	6224.2
10090.2	5522.5	5292.7	5010.1	4888.6	4542.8	4482.3	5395.3	4866.6	5010.0	6271.0
1151.4	3285.6	2789.3	2706.1	2703.7	2640.1	3361.5	2361.1	2128.4	2501.5	2684.7
60.9	1672.2	2144.7	1953.1	2724.0	2131.2	3123.5	2115.8	1091.9	2282.5	1895.3
4493.5	4600.1	4293.3	4962.6	6898.5	5001.0	7323.6	4978.3	2957.8	3722.3	3362.6
2844.7	1265.3	1203.2	1111.7	1705.7	1207.8	1786.5	1268.8	1386.4	1826.3	563.5
10936.1	8402.3	7855.4	8670.7	7292.7	8642.5	8163.5	7246.8	8295.5	8431.1	9817.4
3333.1	2161.5	2337.5	2615.9	2399.2	2714.8	2442.3	1809.5	2063.0	1804.8	2848.2
33426.0	10938.2	10541.8	11409.1	10780.7	10589.1	10990.1	9459.1	13525.6	11457.2	15480.0
58.4	966.5	1555.2	1570.7	1200.9	2017.3	1521.8	1813.1	1662.2	4133.6	882.3
3451.5	5905.1	4510.5	6185.0	4808.9	5110.0	5688.2	4569.5	5041.2	3580.0	6940.8
7578.5	5323.8	5329.8	5963.0	6018.2	6042.7	6583.3	4874.2	4122.8	4402.4	5029.5
6321.9	2692.8	2622.6	2586.7	3011.1	2669.6	3175.3	2778.7	4244.9	2663.1	3414.7
4910.0	3925.5	4219.4	5187.0	3666.8	3889.6	5730.1	4633.0	5314.2	2310.2	5036.1
17283.1	11004.7	10137.4	11049.7	8708.6	9701.0	10067.7	9083.8	12919.4	11109.3	14074.4
32.1	45.8	57.6	64.6	90.0	45.4	108.9	73.3	32.1	20.7	39.2
236.5	2394.2	2497.5	2493.0	2700.8	2486.4	3502.0	2407.2	948.7	621.4	1484.6
666.2	2242.3	1903.8	2142.0	1442.6	1273.3	2845.8	1882.0	766.0	388.5	1478.1
49.6	115.2	141.7	231.4	87.4	116.8	209.4	509.7	33.6	19.1	220.2
8273.7	6046.7	5801.7	6937.2	7210.8	6575.0	7714.1	5805.7	5216.2	5678.7	7428.6

6794.0	6513.8	7204.3
4451.8	5016.1	5037.4
50.7	128.4	113.5
2868.4	4820.5	3290.2
10068.2	9473.7	10536.8
5017.8	4596.8	3552.1
4260.6	3000.1	2922.3
6332.5	6602.5	5540.9
7244.8	7686.9	5942.5
5573.9	6210.4	6129.0
5398.7	8295.2	4207.7
3809.9	4279.7	4162.0
1721.1	1092.6	1101.2
4565.9	4444.8	4225.4
834.3	1895.8	608.1
1343.1	1409.9	831.1
1957.4	2658.4	1507.6
3161.6	4350.8	3027.6
2401.1	3289.5	2428.3
3361.5	3937.4	3752.2
5780.8	6451.8	5435.3
4925.8	6376.4	5008.2
5064.3	6163.1	4396.2
2541.7	3110.8	2118.4
2662.2	2405.0	2592.5
5239.8	5155.1	6581.8
1368.7	1793.4	1771.1
6906.9	7949.9	5691.3
1976.3	2943.0	2541.1
9703.1	11070.1	9328.4
2193.7	2187.9	1055.8
4180.5	4409.7	3466.2
6108.3	5835.0	5786.8
2881.0	3363.5	2766.6
3969.3	4457.8	4956.3
9329.3	10397.1	9543.9
54.8	70.1	75.0
2288.7	2051.7	1902.8
1445.4	1362.4	1224.4
100.3	267.1	98.7
6195.9	6841.9	6547.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified

g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfB
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfC
g__sfD
g__sfD
g__sfD
g__sfD
g__sfD
g__sfD
g__sfD
g__sfD
g__sfD
g__sfD
g__sfE
g__sfE
g__sfE

s__unclassified	2471
s__unclassified	2499
s__unclassified	2592
s__unclassified	2599
s__unclassified	2627
s__unclassified	2636
s__unclassified	2638
s__unclassified	2682
s__unclassified	2712
s__unclassified	2799
s__unclassified	2969
s__unclassified	3012
s__unclassified	3151
s__unclassified	3193
s__unclassified	3260
s__unclassified	2309
s__unclassified	2464
s__unclassified	2501
s__unclassified	2600
s__unclassified	2651
s__unclassified	2672
s__unclassified	2769
s__unclassified	2835
s__unclassified	2947
s__unclassified	3143
s__unclassified	3216
s__unclassified	3253
s__unclassified	3277
s__unclassified	6337
s__unclassified	6386
s__unclassified	6784
s__unclassified	6798
s__unclassified	6809
s__unclassified	6944
s__unclassified	6965
s__unclassified	7090
s__unclassified	7167
s__unclassified	7266
s__unclassified	2434
s__unclassified	2629
s__unclassified	2643

FJ623384.1 gg_id:578673 Efficient polyhydroxyalkanoates production waste-activated submitted process seque FJ6233
AM086102.1 gg_id:150497 Abundance and archaea mesotrophic Lake Kinneret lake profundal sediment clone (AM086
FJ623328.1 gg_id:512280 Efficient polyhydroxyalkanoates production waste-activated submitted process seque FJ6233
FJ623281.1 gg_id:580719 Efficient polyhydroxyalkanoates production waste-activated submitted process seque FJ6232
AF314424.1 gg_id:29624 aerobic phosphorus-removal ecosystem clone PHOS-HE54 AF3144
FJ623291.1 gg_id:578684 Efficient polyhydroxyalkanoates production waste-activated submitted process seque FJ6232
FJ356056.1 gg_id:365992 Targeted FACS enrichment groups lab scale systems anaerobic:aerobic lab-scale EBPF FJ3560
FM242366.1 gg_id:343417 sequences sediment clone 87 T9d+oil FM242
FJ623332.1 gg_id:560016 Efficient polyhydroxyalkanoates production waste-activated submitted process seque FJ6233
DQ413125.1 gg_id:155504 Microbial -dependent and Approaches Anaerobic/Aerobic SBR Reactor EBPR sludge DQ413
EU529733.1 gg_id:276817 FACS SBR EBPR system clone H68 EU529
AF361093.1 gg_id:58384 activated sludge clone SBRQ196 AF361
FJ623365.1 gg_id:512667 Efficient polyhydroxyalkanoates production waste-activated submitted process seque FJ6233
FJ437975.1 gg_id:554795 Benthic okenone production Fayetteville New York Green Lake surface sediments 16. FJ4379
EU529718.1 gg_id:274411 FACS SBR EBPR system clone H3 EU529
DQ228657.1 gg_id:144957 Microbial colonizing mineral surfaces within sulfide-microbial incubator clone CH2b5 DQ228
EU236368.1 gg_id:295225 Haliclona gellius: sponge and symbionts 13 m depth Pacific Ocean clone Hg91E8 EU236
FJ197389.1 gg_id:343119 deep Pacific Ocean and Eastern Mediterranean Sea sediment clone ALVIN24a_5F_FL FJ1973
FJ416083.1 gg_id:367767 sediments sediment station NEC5 Northern Bering Sea clone 020K31 FJ4160
EU491472.1 gg_id:274559 Abundance and microbial life ocean crust seafloor lavas Hawai'i South Point X4 clone EU491
EU652542.1 gg_id:278509 Seasonal variation microbial Yel Sea sediment clone C8S-35 EU652
AB250579.1 gg_id:160900 and ecology Grotta Azzurra Palinuro Cape (Salerno Italy) microbial mat clone #6-4 AB250
FJ712512.1 gg_id:529452 Prokaryotic structure and sediments active submarine mud volcano (Kazan MV Sea) k FJ7125
FJ497283.1 gg_id:575773 Microbial Ecology Fe-rich Mats and Basaltic Rock American Samoa Vailulu'u Seamoun FJ4972
EU287240.1 gg_id:236488 Pacific arctic surface sediment clone S11-57 EU287
AB015583.1 gg_id:7578 deep-sea sediment clone BD7-8 AB015
EU491479.1 gg_id:263853 Abundance and microbial life ocean crust seafloor lavas Hawai'i South Point X4 clone EU491
AJ620496.1 gg_id:305646 Olavius 3 endosymbiont O. algarvensis Individual 2 AJ6204
GQ064429.1 gg_id:419799 Topographical and Temporal Human Skin Microbiome skin axillary vault clone nbw7 GQ064
DQ013306.1 gg_id:136353 Manjusharmella aquatica str. GPTSA-6 DQ013
GQ062984.1 gg_id:385334 Topographical and Temporal Human Skin Microbiome skin occiput clone nbw96c02c GQ062
EF679186.1 gg_id:254988 sewage anaerobic sludge mediator-less MFC clone ASP-21 EF6791
GQ060276.1 gg_id:372558 Topographical and Temporal Human Skin Microbiome skin antecubital fossa clone n GQ060
AB286529.1 gg_id:207647 Reducing production and domination comamonadaceae reducing oxygen supply was AB286
GQ060660.1 gg_id:438403 Topographical and Temporal Human Skin Microbiome skin glabella clone nbw03g09 GQ060
GQ062191.1 gg_id:455804 Topographical and Temporal Human Skin Microbiome skin inguinal crease clone nbv GQ062
GQ062255.1 gg_id:374917 Topographical and Temporal Human Skin Microbiome skin inguinal crease clone nbv GQ062
AB286547.1 gg_id:203983 Reducing production and domination comamonadaceae reducing oxygen supply was AB286
AF406529.1 gg_id:60643 bacterioplankton clone AEGEAN_165 AF4065
GQ337214.1 gg_id:552282 Hydrography shapes biogeography deep Arctic Ocean water depth 400m clone CB1 GQ337
GQ350551.1 gg_id:535210 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350

13392.1	11383.6	10618.0	12444.4	14895.0	11193.5	13975.0	11686.8	13066.2	14827.7	12622.5
83.7	241.5	258.2	214.4	388.2	308.4	426.5	348.8	162.4	69.3	157.9
11977.8	6894.1	6392.6	7159.8	7236.4	6559.4	7864.6	6284.7	7055.9	5059.9	8374.4
10775.7	8868.3	7797.0	9153.9	8709.7	8128.9	8576.3	8202.8	9549.6	8101.7	10212.0
47.4	32.3	36.0	32.5	39.5	37.3	42.7	41.6	22.8	16.8	30.6
26052.8	7743.3	7242.4	8673.3	7574.9	7554.1	8418.4	6814.4	9953.5	7593.3	11317.8
8448.6	2530.6	2108.1	2704.1	2423.4	2573.1	2748.8	3031.3	1609.3	756.1	2392.7
3449.4	4299.9	4967.4	5666.6	6463.6	5189.2	6979.4	5377.1	3558.5	3533.9	7031.1
1658.7	3882.0	3784.3	3455.0	4124.2	3696.8	4534.8	4534.2	4564.5	2248.1	2829.0
226.5	448.3	390.7	462.5	736.3	534.3	1097.2	650.7	163.9	274.6	243.8
22309.5	11686.8	10416.3	12800.5	11786.8	11488.9	11753.5	10092.9	12883.4	10567.4	17705.0
115.1	1516.7	1532.6	1300.7	2270.9	1323.4	2286.7	1738.6	963.0	461.2	2885.8
9623.1	7621.6	7769.8	9473.2	8012.9	8748.5	8946.7	8392.6	7490.8	10882.9	10331.6
10307.1	7038.5	6924.3	7151.9	7866.0	6952.6	8309.4	7194.8	9618.0	7431.3	8525.7
10360.5	6962.1	6719.1	7983.4	7408.8	7255.7	8079.4	7096.8	8103.6	7423.5	9238.0
3269.1	4154.3	4246.6	4286.9	3962.5	4030.0	4852.5	4717.9	4392.9	4643.1	4753.9
1754.8	4179.1	4976.9	5348.1	3810.7	4298.8	4375.4	5023.8	3157.1	4928.2	4069.7
305.7	1869.3	2341.6	3141.0	3652.9	2972.1	2404.5	2730.4	1088.2	2078.5	1068.3
7655.7	8109.7	8165.6	9059.9	9786.2	7796.4	10414.7	7743.1	9343.9	7346.7	8564.8
722.6	3523.3	2950.5	3004.8	2813.6	3392.1	2246.0	3166.5	5513.0	2681.1	2552.2
4781.4	3848.5	4634.0	4975.2	4405.5	4963.6	4127.3	5146.5	5727.4	3287.8	5548.4
7873.9	4339.3	4105.1	4178.8	4359.7	4490.3	5286.0	5437.3	5625.6	3948.6	6527.6
908.2	2901.0	2932.3	3408.9	3757.3	2970.3	3317.3	3934.4	1856.8	3334.3	2240.4
5829.6	3935.1	4902.7	4922.5	6147.5	5448.1	7172.0	4436.1	6561.1	3681.2	3832.5
195.0	2329.0	2314.9	2478.4	2199.7	2279.5	3167.5	2985.4	2567.0	867.4	1399.0
14528.0	7968.9	7439.7	6990.4	7627.7	7994.7	7533.5	6934.4	11074.6	10673.9	8829.1
376.2	3161.7	2795.1	2514.1	2189.9	3498.4	2626.5	3283.4	1228.0	1240.3	1732.5
2260.2	3888.4	4058.8	4909.6	5705.3	3892.9	7879.6	5317.5	4057.1	3285.8	3577.4
2772.7	4926.6	5051.5	5823.1	4789.8	5441.2	4355.1	6063.3	7349.6	5477.0	5687.4
94.9	1765.6	2219.9	2615.5	973.4	1904.2	302.5	3406.5	1241.2	2780.1	1177.7
133.6	4440.9	5223.1	5970.8	3581.2	5377.9	2329.4	4677.9	3095.9	5978.2	3624.3
1064.8	5576.0	6263.9	7577.3	6054.5	6046.4	4630.2	8100.5	5002.7	5659.3	6330.7
26064.8	9972.6	10972.0	11561.5	9312.3	11307.6	8541.4	10570.2	13060.6	16509.3	13747.5
1199.9	6345.9	7329.9	8484.9	6236.6	8399.9	5046.0	8119.5	6436.8	10353.0	6749.1
4740.5	8236.6	8066.6	8852.8	7205.0	9357.6	6552.4	8141.9	10879.1	13746.9	10072.8
2925.8	7610.3	8437.1	10377.1	7816.1	11316.2	5177.2	10190.6	9334.8	19105.5	7841.3
3156.9	6084.6	6290.0	7214.8	5996.6	7322.8	5658.3	6591.9	6618.3	10905.1	6747.7
967.5	4072.6	4505.6	5313.4	4611.4	5213.0	3104.4	5313.6	3345.6	6198.2	3541.4
15234.9	7105.4	6873.4	7714.1	7558.2	6623.1	8046.6	6577.7	7948.9	9446.4	8039.5
190.6	2536.9	2344.8	2705.5	2324.8	2372.5	3164.1	2897.7	2275.1	1973.3	1820.1
48.9	384.4	140.7	156.3	227.8	246.3	145.5	230.5	88.8	43.1	95.4

12320.7	12137.4	12261.8
288.5	190.6	667.4
5593.7	5768.1	5989.6
7809.1	8337.2	7249.2
29.4	30.3	54.3
7673.6	9751.6	7947.9
2380.6	3129.5	3177.7
5212.8	4836.7	6499.3
4680.5	4820.2	5499.9
590.2	754.9	452.3
11099.3	11329.6	12384.1
1574.1	1327.6	2188.5
9278.1	10440.0	9510.4
6545.5	8384.3	7182.3
6266.0	7613.5	7363.5
4695.0	5114.5	4636.9
4900.6	4713.8	3606.9
2680.0	2517.0	2481.4
7993.6	8286.1	7347.3
2242.7	2627.3	2223.8
4599.9	5587.3	4945.0
4099.3	5195.2	4284.4
3329.5	3885.4	2821.5
5377.1	5529.4	5022.9
3754.9	2125.2	2205.3
7938.6	7887.6	6654.1
2331.2	3481.9	3464.3
5104.2	5433.2	5136.1
5836.7	5863.0	4852.4
1527.2	1256.3	330.4
5391.2	3819.4	2258.8
7302.6	6321.6	5678.8
10894.4	11755.8	8730.3
8750.7	8630.6	6384.4
9358.4	8788.2	6410.5
10936.4	12031.1	6259.3
6582.6	6995.4	4993.0
5448.0	6284.8	4221.9
6639.5	7571.7	5847.5
3053.8	2913.2	2934.1
194.8	328.2	289.9

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified
o__unclassified f__unclassified

g__sfE
g__sfE
g__sfE
g__sfE
g__sfF
g__sfF
g__sfF
g__sfF
g__sfF
g__sfG
g__sfG
g__sfG
g__sfG
g__sfG
g__sfH
g__sfH
g__sfH
g__sfH
g__sfH
g__sfI
g__sfI
g__sfI
g__sfI
g__sfI
g__sfJ
g__sfJ
g__sfJ
g__sfJ
g__sfK
g__sfK
g__sfK
g__sfL
g__sfL
g__sfL
g__sfM
g__sfM
g__sfM
g__sfN
g__sfN
g__sfN
g__sfO

s__unclassified	2776
s__unclassified	2779
s__unclassified	2854
s__unclassified	2858
s__unclassified	2305
s__unclassified	2405
s__unclassified	2493
s__unclassified	2730
s__unclassified	3062
s__unclassified	2576
s__unclassified	2616
s__unclassified	2649
s__unclassified	2782
s__unclassified	2996
s__unclassified	3467
s__unclassified	3588
s__unclassified	3840
s__unclassified	3944
s__unclassified	4097
s__unclassified	2321
s__unclassified	2506
s__unclassified	2823
s__unclassified	2827
s__unclassified	3034
s__unclassified	1263
s__unclassified	482
s__unclassified	826
s__unclassified	931
s__unclassified	6756
s__unclassified	6762
s__unclassified	7174
s__unclassified	2530
s__unclassified	3046
s__unclassified	3257
s__unclassified	2425
s__unclassified	2483
s__unclassified	2790
s__unclassified	2373
s__unclassified	2652
s__unclassified	2728
s__unclassified	2039

AF257292.2 gg_id:27722 marine clone DHB-2 AF257
DQ300596.1 gg_id:147780 microbial ocean's interior amplicon single fosmid library pool 130m depth HOT static DQ300
AF406536.1 gg_id:60638 bacterioplankton clone AEGEAN_243 AF406
AACY01030334.1 gg_id:99301 Sargasso Sea AACY0
AB186988.1 gg_id:103264 Mariana trough hydrothermal vent water 0.2micro-m filterable fraction clone MT-NE AB186
FJ826243.1 gg_id:510441 Succession during spring diatom bloom Sea filtered surface sea water contrasting nor FJ8262
GQ348876.1 gg_id:581691 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
AY700614.1 gg_id:109443 Australia: Great Barrier Reef clone PDB-OTU7 AY700
EF571905.1 gg_id:230907 Coco's Island site 23 marine clone S23_4 EF571
EU491486.1 gg_id:270695 Abundance and microbial life ocean crust seafloor lavas Hawai'i South Point X4 clone EU491
EU287407.1 gg_id:241556 Pacific arctic surface sediment clone S26-107 EU287
FJ873329.1 gg_id:539933 Vertical and archaea methane-rich cold seep located base sediments Okhotsk Sea clo FJ8733
EU817105.1 gg_id:345886 Biological Haliclona (gellius) sp.: Sponge and Microbial Symbionts Pacific Ocean 13 m EU817
EU652530.1 gg_id:278243 Seasonal variation microbial Yel Sea sediment clone C8S-47 EU652
GQ347341.1 gg_id:592135 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
GQ348494.1 gg_id:541236 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GQ350244.1 gg_id:571396 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
GQ347632.1 gg_id:548782 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
FJ628318.1 gg_id:588621 transition and zone within near-shore basin: brackish water anoxic fjord Nitinat Lake FJ6283
FJ203248.1 gg_id:351002 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2032
FJ203316.1 gg_id:314846 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2033
FJ959819.1 gg_id:558909 bottlenose dolphin upper respiratory tract blowhole clone D8A8_170 FJ9598
FJ203252.1 gg_id:309645 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2032
AB212895.1 gg_id:132694 The Mini plant Run 6 of the Nippon Steel Research and Engineering Center clone nsn AB212
AM935318.1 gg_id:556062 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
DQ337067.1 gg_id:146995 subsurface water clone EV818SWSAP22 DQ337
GU208326.1 gg_id:568293 Study on Sediment Dongping Lake sediment clone Se2-23 GU208
AM935235.1 gg_id:552890 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
EF608532.1 gg_id:231765 predatory Poecilus chalcites their response lab rearing and antibiotic treatment diges EF6085
FJ612598.1 gg_id:511469 Orbus hercynius str. CN3 FJ6125
DQ837611.1 gg_id:173383 structures honeybee intestines and their response insecticidal proteins gut clone HB DQ837
AY942754.1 gg_id:147853 but species richness marine sponge Cymbastela concentrica clone Cc007 AY942
EF076133.1 gg_id:240090 Sponge- microorganisms: ecology and biotechnological potential Bahamas: Little San EF0761
GU118596.1 gg_id:548103 Threatened Corals Provide Microbial Habitats clone Mfav_B05 GU118
EU799507.1 gg_id:339161 It's all ranking aquatic Newport Harbour RI clone 1C227115 EU799
EU799990.1 gg_id:309275 It's all ranking aquatic Newport Harbour RI clone 1C227670 EU799
EU799493.1 gg_id:333893 It's all ranking aquatic Newport Harbour RI clone 1C227099 EU799
GQ441315.1 gg_id:554466 and dynamic mat present vs. active nitrogen-fixing microorganisms marine microbia GQ441
EF632661.1 gg_id:253267 Unique microbial contrasting aquatic altitude Andean Altiplano (northern Chile) sedir EF6326
DQ269079.1 gg_id:199419 marine macro-alga surface clone DPC097 DQ269
CU466822.1 gg_id:328710 Evry wastewater treatment plant anoxic basin clone CU466

40.0	265.2	63.7	67.7	77.9	116.2	29.5	90.4	32.7	16.1	39.7
7282.5	3847.6	3134.0	4475.2	4686.7	3498.2	4738.4	3566.8	1957.8	3916.5	2373.5
31414.7	11267.1	10883.1	12259.3	12321.2	10726.3	13302.5	10163.4	14445.7	17536.1	14989.6
20088.9	8837.6	8019.1	9719.8	9985.5	8538.8	10485.6	8702.1	8652.7	11199.2	10035.9
7690.2	6211.5	6211.2	7004.4	7379.5	6037.1	8540.5	6240.4	6015.1	5743.8	7525.1
21231.9	9948.3	7971.3	8138.6	9753.4	8266.4	10354.9	7949.2	10571.2	7918.9	11301.3
1439.1	5590.3	4580.5	4173.4	5345.0	5380.4	5625.5	4552.8	6825.8	5231.5	3884.6
14399.2	6853.3	6479.3	6942.4	6404.9	6514.5	8081.0	6031.7	9235.7	7018.7	9020.4
3832.4	1996.5	2227.4	2028.4	1788.7	1933.8	2378.0	1640.9	1938.5	1399.3	2286.9
6544.6	6233.1	5709.6	5612.5	5425.3	5856.1	6629.5	5292.5	6530.4	5052.3	6297.1
13703.1	5719.2	5457.0	6541.7	6360.5	6960.1	5888.3	6044.3	7165.7	4565.9	6291.8
84.1	1248.5	1995.6	1459.8	1833.6	1104.9	1188.8	1144.5	839.7	370.7	466.2
239.0	2566.1	2390.8	2497.4	2377.7	2498.2	2159.7	2457.8	1281.3	762.8	1286.8
8162.0	4340.0	4056.2	4111.6	4508.7	4279.2	5010.5	4222.0	6261.2	6139.5	4590.4
2452.2	7583.7	6827.7	8781.1	7687.0	6694.3	8123.3	8311.2	8458.2	4562.5	7813.7
2463.1	3770.8	4082.4	4141.9	4372.4	4479.1	4351.1	4609.5	3280.4	4359.5	3544.6
7180.9	4937.9	4324.1	5444.2	5089.4	4582.2	5858.6	6012.4	6058.5	3417.9	3478.9
2518.8	4346.3	5069.8	5049.0	4486.3	4507.8	5166.1	5004.2	3071.0	2881.4	5118.1
5863.9	5126.5	4691.0	5149.5	4864.6	4866.7	6298.3	4980.2	3935.4	2329.1	4501.4
12830.3	4988.8	6097.6	6980.9	6131.6	5352.0	6543.2	7027.8	9817.0	5283.0	7350.5
14898.6	7109.3	7352.2	7941.3	6001.7	6798.7	6817.4	7039.0	11092.8	9419.3	10978.5
1959.2	5516.6	5160.4	5433.4	5459.3	5188.9	5148.4	6803.5	5940.2	2044.6	4987.4
3215.3	3503.3	6079.3	7432.5	3127.6	3456.4	3943.4	6570.8	4651.5	5825.2	5189.2
183.6	1038.3	863.2	958.2	1402.0	1160.8	91.4	1315.4	657.2	1008.7	577.1
4524.7	6841.9	6483.3	7338.6	6440.5	7496.3	7422.6	7751.9	7362.0	7533.0	7827.8
4159.0	4604.2	5727.1	5443.8	5377.9	4820.7	5473.5	6676.4	4930.6	3129.1	5172.0
1074.7	5467.9	6231.9	5653.6	5249.5	5676.8	5211.8	6408.6	4851.4	5413.2	8300.5
531.3	3542.5	4194.6	3418.0	3040.7	4116.5	3122.9	4788.7	2972.8	2789.9	3941.2
36.8	288.7	392.2	368.3	138.8	160.3	293.7	343.9	90.2	60.6	265.1
14595.9	3241.5	3209.8	4077.1	3498.3	3742.8	3311.1	3655.5	3535.8	3219.2	2901.7
51.3	34.9	40.6	43.6	34.1	34.2	33.4	37.2	28.7	44.1	40.4
59.3	276.9	544.7	476.4	383.2	202.4	479.8	459.7	492.0	37.3	98.7
2298.0	5460.6	5456.9	6162.1	7542.6	6025.6	7378.8	6439.8	6542.4	4326.2	4659.4
5720.5	8113.7	8478.4	8742.4	8656.5	8071.7	11251.1	9882.3	6978.7	6946.4	10028.4
7181.4	5072.7	7151.0	6347.8	4776.8	4887.6	5321.6	3402.3	3628.4	2826.0	4668.8
991.5	2558.4	2345.8	2431.6	3535.7	2648.9	3086.9	2667.4	1985.0	1357.4	2251.7
4257.7	5985.8	5704.4	5842.7	5238.2	5209.8	5587.9	5121.9	5429.2	2659.1	5745.8
1066.5	3143.7	3281.7	3445.1	3570.7	2928.1	4424.1	3192.9	2327.7	1296.0	2063.7
184.4	1979.0	2123.1	1851.0	1440.2	1885.4	1815.1	1511.0	2251.3	494.7	1252.5
44.9	1451.9	1439.9	1350.5	1265.3	1137.5	2232.3	1522.5	268.5	201.5	585.2
312.4	4969.1	4803.0	4619.6	5240.1	5330.8	7095.3	4698.4	3216.7	6354.2	3298.9

88.9	125.3	164.5
3721.2	3633.5	3057.9
10821.2	11383.2	9629.2
9689.2	9277.9	8317.1
6373.5	5644.2	6087.4
7644.3	10064.3	9251.2
5416.3	6906.3	4704.9
6062.5	6803.6	5614.2
1739.8	2401.1	1850.9
5775.4	6477.2	6949.6
6807.8	6842.0	6055.0
1559.0	1687.1	988.0
3059.1	2169.8	2351.2
4302.8	5382.0	4118.1
7349.3	6531.8	7915.3
4595.9	6128.6	6048.2
4419.8	5949.5	5463.5
5001.8	5183.2	5600.7
5231.4	4910.9	4196.0
6643.7	7225.0	6322.2
6531.3	8687.9	6014.6
6256.2	5414.5	4654.7
4938.2	4572.8	3043.4
1038.4	884.8	742.3
7816.2	7107.4	6130.6
6474.9	6539.4	5150.6
5796.3	6314.4	5860.6
3910.9	3798.9	2100.6
200.9	273.7	198.2
4238.7	4691.5	3330.8
38.5	47.1	30.3
292.6	217.8	293.5
5822.6	5802.0	6182.2
9031.5	8524.2	10109.1
4323.2	4934.4	4787.0
2945.6	3383.5	2980.9
5227.3	5822.6	5729.9
2919.8	2795.1	3173.8
1443.1	2077.0	1987.2
1042.2	916.1	1241.6
5234.8	4749.4	4254.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__sfO
g__sfP
g__sfP
g__sfQ
g__sfR
g__sfS
g__sfT
g__sfU
g__sfV
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Aliivibrio
g__Enterovibrio
g__Enterovibrio
g__Enterovibrio
g__Enterovibrio
g__Enterovibrio
g__Grimontia
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium

s__unclassified	689
s__unclassified	2611
s__unclassified	2787
s__unclassified	1876
s__unclassified	6609
s__unclassified	2922
s__unclassified	3558
s__unclassified	7083
s__unclassified	3201
s__Aliivibrio fischeri	6404
s__Aliivibrio fischeri	6713
s__Aliivibrio fischeri	7154
s__Aliivibrio wodanis	6917
s__unclassified	6254
s__unclassified	6351
s__unclassified	6418
s__unclassified	6491
s__unclassified	6530
s__unclassified	6627
s__unclassified	6687
s__unclassified	7000
s__unclassified	7002
s__unclassified	7006
s__unclassified	7036
s__unclassified	7133
s__unclassified	6256
s__unclassified	6954
s__unclassified	7139
s__unclassified	7433
s__unclassified	7554
s__Grimontia hollisae	6786
s__Photobacterium angustum	6420
s__Photobacterium damselae	6466
s__Photobacterium iliopiscarium	6835
s__Photobacterium iliopiscarium	6980
s__Photobacterium leiognathi	6581
s__Photobacterium leiognathi	6708
s__Photobacterium leiognathi	7150
s__Photobacterium rosenbergii	6410
s__Photobacterium rosenbergii	6527
s__Photobacterium rosenbergii	7414

FJ444714.1 gg_id:585507 Cotton Rhizosphere cotton rhizosphere clone 4h-1 FJ4447
EF092261.1 gg_id:268390 Persistent Axinella corrugata clone BH1_G11 EF0922
AJ581350.1 gg_id:92419 Mediterranean sponge clone E01-9C-15 AJ5813
AB286554.1 gg_id:204859 Reducing production and domination comamonadaceae reducing oxygen supply was AB2865
FJ940806.1 gg_id:388951 Aeromonas punctata str. 4pM30 FJ9408
DQ270618.1 gg_id:144237 hydrothermal carbonate chimney clone LC1133B-43 DQ270
FJ497530.1 gg_id:592807 Microbial Ecology Fe-rich Mats and Basaltic Rock American Samoa Vailulu'u Seamoun FJ4975
FJ655515.1 gg_id:583817 symbiont FJ6555
EU735652.1 gg_id:356150 archaeal structures oil contaminated and soils China pristine soil Jidong Oilfield clone EU735
AY292922.1 gg_id:101121 Vibrio fischeri EM17 AY2929
DQ026824.1 gg_id:227498 Vibrio fischeri str. PP3 DQ026
CP000020.1 gg_id:129275 Vibrio fischeri str. ES114 CP000
AY628647.1 gg_id:103863 Vibrio wodanis AY628
DQ146991.1 gg_id:146962 Vibrio sp. str. V776 DQ146
AB497068.1 gg_id:546558 Aliivibrio logei str. 11-2 AB497
EU185820.1 gg_id:398431 Aliivibrio logei str. WHSW1 EU1858
AY292934.1 gg_id:106476 Vibrio logei str. SR181 AY2929
EU862333.1 gg_id:580068 Aliivibrio sp. str. BV040308-21 EU8623
EU257749.1 gg_id:551220 Aliivibrio logei AV05/2007 EU2577
AY292928.1 gg_id:102104 Vibrio logei str. SL101 AY2929
EU091322.1 gg_id:314982 Aliivibrio salmonicida PB3-7rrnB EU0913
DQ642809.1 gg_id:161003 Vibrio sp. 6(2006) DQ642
EU091324.1 gg_id:317079 Aliivibrio salmonicida PB1-8rrnB EU0913
EU091323.1 gg_id:304361 Aliivibrio salmonicida PB1-8rrnA EU0913
AY292929.1 gg_id:102250 Vibrio logei str. Srond101401 AY2929
FJ654064.1 gg_id:511531 Coral Reef Fish Feces and Gut Microbial Assemblages gut contents distal intestine clo FJ6540
Z19105.1 gg_id:9129 Melanocetus johnsoni symbiont Z19105
AY576761.1 gg_id:139186 Photobacterium sp. str. 26III/A02/220 AY5767
AY745814.1 gg_id:108596 Vibrio sp. str. JL-73 AY7458
Z19106.1 gg_id:9131 Cryptosaras couesi symbiont Z19106
NR_025574.1 gg_id:535720 Grimontia hollisae str. 75-80; LMG 17719 NR_025
AY292951.1 gg_id:107197 Photobacterium leiognathi str. SN2B AY2929
EF635307.1 gg_id:246572 Photobacterium subsp. damselae HQ061227-1 EF6353
AY642160.1 gg_id:111666 Photobacterium phosphoreum str. NZ-11D AY6421
AY642161.1 gg_id:111692 Photobacterium phosphoreum str. calba.1.1 AY6421
AY204488.1 gg_id:103923 Photobacterium leiognathi str. gachl1.1 AY2044
D25309.1 gg_id:9154 Photobacterium leiognathi str. ATCC25521 D25309
AY341442.1 gg_id:106555 Photobacterium mandapamensis str. ATCC 33981 AY3414
DQ978988.1 gg_id:183456 Photobacterium sp. S-7 DQ978
DQ219367.1 gg_id:142286 Photobacterium sp. str. 2220 DQ219
DQ534014.1 gg_id:160550 Photobacterium lutimaris str. DF-42 DQ534

347.5	4974.3	5268.7	5738.8	6716.8	6575.6	7351.3	5509.1	4677.1	8049.9	3989.9
1624.9	3273.1	3865.5	4465.9	5213.4	3424.9	6079.8	5148.7	1867.8	5696.0	3006.1
89.8	233.7	234.2	282.8	449.9	351.1	428.4	559.0	74.2	61.4	115.2
65.7	296.9	180.0	235.5	261.6	183.1	346.5	259.2	108.8	65.9	152.8
115.1	2132.6	2185.9	2453.0	2266.6	4409.3	1162.0	2110.7	1642.8	13284.2	1281.4
68.8	1174.0	1060.2	847.5	1055.7	928.5	836.3	827.9	493.3	1697.6	899.9
1906.5	4173.6	4964.6	5833.2	6099.8	4730.5	7056.4	4686.5	4297.4	3865.5	4804.5
167.7	2539.0	2618.3	1459.7	2857.5	2976.3	2266.2	2879.8	2701.3	4100.5	2337.3
2232.1	7531.3	7948.7	8876.1	10015.7	8554.5	10473.6	8667.0	6052.6	3404.2	7825.3
781.6	2711.4	3186.3	2750.6	2546.5	3389.5	3880.5	3016.6	3967.5	2632.5	1894.8
94.9	1931.7	2440.1	2017.3	1553.7	3286.1	1985.8	2395.0	1799.8	3917.9	1173.3
560.4	3022.7	4791.3	4657.2	4209.9	4219.8	5202.1	6370.0	12599.1	5079.2	3191.2
124.2	1595.8	1971.5	1724.2	638.9	1741.5	856.9	2479.2	621.2	1871.7	944.7
114.7	1093.6	1088.4	1161.3	843.1	1139.6	1589.8	1093.5	1519.0	1085.5	752.6
65.4	1211.2	1363.2	1581.5	816.8	1694.0	507.9	1752.5	1542.3	2380.1	940.5
51.3	597.6	700.4	623.8	224.7	854.7	193.3	712.9	465.5	1030.7	315.2
128.3	118.7	125.6	144.6	135.0	116.0	94.3	174.0	70.5	48.1	68.4
150.9	1084.1	1278.7	1466.6	875.6	1139.2	1055.8	1287.8	442.8	984.7	874.7
143.5	601.5	1144.1	993.9	622.6	848.4	665.0	1466.5	419.3	871.3	709.9
72.5	2479.3	2719.5	2773.2	2204.7	3458.5	1372.0	2763.7	2056.1	5923.4	2455.0
214.9	2662.2	5199.9	5111.2	1369.6	5037.8	2116.5	6045.4	5387.4	7468.8	3416.6
7733.6	6160.9	6179.6	6634.5	6491.5	7493.4	4908.8	7418.4	8502.0	7743.9	6254.4
548.0	3748.0	4562.3	5350.6	2831.0	4343.6	2735.8	5091.0	4168.6	4675.9	3346.8
3985.3	6022.6	6503.9	6257.2	5557.2	5987.8	6005.4	4953.6	6503.4	7723.4	6934.0
91.0	936.0	1111.2	1192.2	796.5	1645.5	179.0	1140.0	752.3	2333.4	434.5
538.6	4374.8	5767.0	6107.1	3932.5	5801.1	4348.5	7007.0	6779.4	8664.7	4442.9
247.8	954.4	1161.9	1237.8	1064.1	1295.3	1390.2	1239.4	838.6	1485.2	1054.9
4955.7	3631.6	3806.5	4228.2	3746.9	3586.2	3996.4	3668.5	4289.6	3647.9	4374.1
290.8	1684.1	2329.7	2344.9	2088.3	2436.8	2272.5	2925.0	1401.0	2973.8	1607.8
74.7	389.5	552.2	563.8	375.7	676.2	384.5	592.8	347.1	907.4	311.9
7444.0	4291.4	5121.7	4895.0	3928.3	5657.6	5370.5	5440.4	4545.4	6432.2	4568.3
66.2	1148.4	1031.4	1689.1	1266.1	1614.3	1404.7	1803.2	1512.3	1918.1	904.7
97.1	870.8	941.2	797.5	1336.0	1347.0	520.2	929.2	331.5	546.7	409.2
106.8	1707.4	1788.5	1979.3	1275.0	2051.0	1331.4	2573.0	1879.4	3393.0	1262.7
114.6	2549.8	2486.4	2973.6	1944.9	3185.2	1692.0	3691.0	2586.1	5491.0	2094.9
147.8	1442.6	1690.2	2050.5	2389.6	1852.0	1492.3	1958.3	907.5	2648.3	783.7
105.8	2000.2	1947.2	2187.1	2337.2	2689.0	2042.4	2551.3	2309.7	3533.7	1421.5
126.8	573.6	747.8	596.6	416.8	492.5	549.0	562.3	318.8	668.1	262.6
1921.0	4035.2	3783.1	4124.6	3490.0	3802.2	3456.2	4448.3	4482.4	3975.5	4786.8
11979.2	6049.6	7309.5	7777.8	6449.0	7738.4	6029.4	6959.1	7120.3	10736.1	7497.8
291.4	902.3	850.3	850.0	1378.1	932.9	1102.5	1016.4	499.3	1278.8	527.0

6223.3	4851.7	4336.3
4301.6	3967.6	3591.1
364.0	377.4	415.5
250.7	339.4	239.9
2422.0	2648.1	1893.6
827.7	1009.3	983.8
4107.1	5668.1	4944.6
2592.2	3419.3	2529.0
7797.8	8909.6	9926.4
4542.0	4135.7	2994.0
3838.4	3435.5	1850.3
5127.3	4917.4	3445.8
1926.4	2175.5	886.2
1386.9	1732.8	1071.4
1624.6	1672.8	890.4
643.3	890.0	250.7
158.6	195.7	102.5
1150.8	1257.7	797.9
1082.8	1446.2	546.0
2444.6	3263.9	1534.2
5834.0	6108.6	3014.4
6007.2	8283.5	5603.0
4426.6	4343.0	3437.3
5614.9	5251.1	4932.5
1000.7	2114.6	488.0
6806.8	6991.1	4629.7
1229.5	1597.4	561.4
3800.7	5142.6	3648.1
2556.8	3951.5	2333.0
467.7	1264.9	386.7
5128.5	6593.1	5247.5
1927.6	2209.9	875.8
1005.2	1337.8	867.1
2314.1	3142.2	2002.3
3212.3	3745.0	2704.4
1861.6	2300.7	1155.0
2607.7	2909.3	1948.3
714.8	818.3	379.5
3984.5	5406.5	2881.1
7988.2	6847.4	5442.6
931.6	1644.1	767.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Photobacterium
g__Salinivibrio
g__Salinivibrio
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	6238
s__unclassified	6239
s__unclassified	6278
s__unclassified	6308
s__unclassified	6449
s__unclassified	6509
s__unclassified	6523
s__unclassified	6543
s__unclassified	6614
s__unclassified	6679
s__unclassified	6729
s__unclassified	6843
s__unclassified	7232
s__unclassified	7251
s__unclassified	7267
s__unclassified	7339
s__unclassified	7341
s__unclassified	7432
s__unclassified	7444
s__unclassified	7526
s__Salinivibrio costicola	6372
s__Salinivibrio costicola	7350
s__unclassified	6275
s__unclassified	6316
s__unclassified	6335
s__unclassified	6520
s__unclassified	6593
s__unclassified	6910
s__unclassified	6987
s__unclassified	7005
s__unclassified	7461
s__unclassified	7511
s__unclassified	7565
s__unclassified	6240
s__unclassified	6246
s__unclassified	6251
s__unclassified	6258
s__unclassified	6259
s__unclassified	6261
s__unclassified	6262
s__unclassified	6268

Z19107.1 gg_id:9165 Photobacterium phosphoreum	Z19107
AY345891.1 gg_id:92256 Photobacterium phosphoreum AK6	AY3458
AY888014.1 gg_id:140446 Photobacterium phosphoreum str. FS-4.1	AY888
AY642168.1 gg_id:112325 Photobacterium phosphoreum str. calba.4.2	AY6421
AB003191.1 gg_id:9160 Photobacterium profundum str. SS9	AB0031
AY345892.1 gg_id:92198 Photobacterium phosphoreum AK7	AY3458
NC_006370.1 gg_id:129245 Photobacterium profundum str. SS9	NC_00
AY642169.1 gg_id:111940 Photobacterium phosphoreum str. calba.5.1	AY6421
AB457049.1 gg_id:348164 Vibrio sp. str. SB-D1	AB457
AB166848.1 gg_id:102935 Photobacterium phosphoreum str. 127-1	AB1668
AB000278.1 gg_id:9163 Photobacterium iliopiscarium str. ATCC51760	AB000
EF067913.1 gg_id:245715 endolithic microbes marine basalts aerobic enrichment s innoculated basalt Brown B	EF0679
DQ085397.1 gg_id:131693 Photococcus caeruleum str. BC1	DQ085
FJ467295.1 gg_id:535616 Photobacterium sp. str. QD-1A	FJ4672
DQ317679.1 gg_id:160104 Photobacterium sp. str. OIM3	DQ317
NC_006370.1 gg_id:129232 Photobacterium profundum str. SS9	NC_00
AJ630156.2 gg_id:160207 Photobacterium sp. str. J11	AJ6301
GQ386817.1 gg_id:582886 Photobacterium sp. str. CAIM 1206	GQ386
NC_006370.1 gg_id:129243 Photobacterium profundum str. SS9	NC_00
EU652566.1 gg_id:279374 Seasonal variation microbial Yel Sea sediment clone C8S-173	EU6525
AM279735.1 gg_id:160832 Salinivibrio aegyptiaca subsp. sharmensis str. BbAG	AM279
EF541484.2 gg_id:254905 Vibrio taiwanensis	EF5414
DQ513033.1 gg_id:160210 Microbial life fluids ridge flank crustal fluid clone FS142-3B-02	DQ513
AY551089.1 gg_id:102788 Ferrania halotolerans str. MACL01	AY551
DQ289936.1 gg_id:171395 Microbial Carbon and Nitrogen Cycling Sediments South Atlantic Bight Permeable Sh	DQ289
GU061990.1 gg_id:579828 and function microbial mesoscale eddy perturbations South China Sea clone S-DCM-	GU061
FJ457453.1 gg_id:549933 Photobacterium sp. str. S2545	FJ4574
GU061981.1 gg_id:589490 and function microbial mesoscale eddy perturbations South China Sea clone S-DCM-	GU061
AB470940.1 gg_id:567653 Vibrio sp. str. r42	AB470
DQ146972.1 gg_id:147578 Vibrio sp. str. V031	DQ146
DQ923438.1 gg_id:176420 Vibrio sp. W-4	DQ923
AY960847.1 gg_id:114914 Photobacterium ganghwensis str. FR1311	AY9608
EU153251.1 gg_id:243117 Photobacterium sp. str. P16011A	EU1532
GQ231487.1 gg_id:582132 Vibrio natriegens str. T5	GQ231
DQ097523.1 gg_id:134295 Vibrio litoralis str. mano22D	DQ097
AY911397.1 gg_id:112495 Vibrio harveyi str. SW-4	AY9113
AY292927.1 gg_id:101945 Vibrio lentus str. SI01	AY2929
NC_004603.1 gg_id:128967 Vibrio parahaemolyticus RIMD 2210633	NC_00
AB470928.1 gg_id:559639 Vibrio sp. str. r17	AB470
EU931029.1 gg_id:355127 Vibrio vulnificus str. L1	EU931
AY264923.1 gg_id:105451 Vibrio harveyi str. ACMM 642	AY2649

4765.7	4692.0	4309.7	5140.7	3637.4	5600.8	2704.7	5951.4	4614.4	8562.9	2814.5
196.0	2296.4	2307.0	2452.8	1965.3	3100.1	1318.5	2981.3	2351.3	4788.1	1953.0
147.9	2452.0	2254.3	2606.4	1646.9	3718.7	1017.5	3187.0	2360.8	4519.9	1751.6
86.7	2163.9	2244.8	2471.0	1728.1	2881.8	1703.8	3315.1	2441.7	3594.3	1656.3
2227.0	2284.3	2051.3	2545.6	2056.1	3013.1	2444.3	3457.0	2452.0	1570.1	2417.7
101.1	2049.2	2026.9	2305.8	1584.7	2352.5	1465.5	2808.9	2176.7	3623.5	1450.6
422.6	3701.1	4467.9	5643.7	3081.5	4829.5	2942.6	5257.2	5370.7	6213.1	4284.8
87.3	1799.4	1808.9	2061.4	1368.5	2270.6	1551.8	2630.4	1994.4	3298.4	1359.8
10004.6	2744.8	5243.5	5274.1	614.0	4778.1	5899.6	3253.6	3435.1	7681.9	3119.7
88.4	938.4	1306.6	1408.3	838.0	1145.5	1510.8	1259.2	892.5	1233.2	689.8
1531.5	5713.8	6229.7	6077.4	5331.6	6387.3	4813.3	6788.4	6761.3	9136.3	5577.8
2686.3	3677.5	3493.3	4366.6	4638.0	3421.9	4723.6	3666.6	2681.1	2271.7	2574.5
981.0	3409.6	4346.5	4589.0	4716.5	6560.6	2641.0	4579.6	3209.6	7731.3	2516.6
56.6	651.6	705.4	761.0	627.5	856.6	404.5	1119.4	551.3	772.3	350.2
450.1	1434.3	1231.6	2011.4	2542.4	2609.3	1048.4	2240.9	1143.1	2391.9	1059.4
397.3	1709.4	1730.0	2308.1	1400.1	2759.1	757.4	2640.3	1853.5	5738.6	1599.7
40.9	135.4	196.2	157.7	127.7	181.4	94.9	128.1	93.1	179.4	79.4
266.0	1013.3	1590.0	1491.2	1763.3	1391.1	1723.3	1296.1	1040.3	1056.7	668.8
11706.8	6761.3	6743.0	7366.4	6611.9	6904.1	7199.7	6175.5	9136.7	8248.3	9501.3
4073.9	4249.5	4610.8	5268.4	5173.4	4868.0	5414.5	5484.4	3873.0	5273.8	5060.0
37.1	21.3	31.0	30.4	39.4	25.5	34.3	46.3	23.6	17.0	26.1
230.5	3307.5	3773.5	4003.8	4068.1	2851.6	3779.5	3233.9	2171.8	1289.7	1877.7
27.6	17.8	36.6	28.0	21.8	23.8	17.7	75.0	37.4	13.7	41.6
1458.1	3813.0	3983.4	4054.6	3083.3	5026.0	1986.1	4698.6	3628.2	6499.9	3509.3
2352.5	1875.9	2139.6	2216.0	1952.5	3294.6	1699.8	2011.7	2070.0	3819.7	1515.3
104.3	2603.4	3790.5	2911.2	1785.8	3290.9	2647.3	3475.1	2141.4	3658.1	1950.7
2285.0	4923.3	4826.7	4495.4	4470.4	5215.9	4705.6	4484.9	4494.3	5722.3	4011.4
7189.3	3998.6	3634.4	3976.2	4015.9	4569.8	3162.9	4609.6	4821.0	3491.6	3813.5
3965.5	5184.7	4835.2	5594.4	4997.2	6073.4	3385.0	6183.2	6312.5	9609.9	4927.7
134.4	2594.4	3460.1	3847.3	2345.6	3838.6	2154.6	4056.0	4400.3	3260.0	2583.1
11680.7	7311.8	7438.8	9331.9	7922.0	8246.8	7349.2	7862.8	10898.0	11740.6	9972.6
178.3	2244.4	1709.4	1750.6	2205.0	1717.3	1334.1	2224.2	1289.0	1178.4	802.9
137.0	4211.0	4372.3	4792.8	3193.3	5355.5	2160.2	5956.3	4650.7	9546.1	3584.4
98.8	3693.0	4065.3	4061.8	3522.5	4232.4	2430.4	4811.1	3627.3	7441.4	3497.3
8124.1	4470.3	4461.4	4267.7	5649.2	4636.4	4409.6	4462.3	4084.9	4863.8	7345.4
5546.6	3937.4	3874.7	4591.4	3889.7	4040.4	4301.4	4856.2	5626.7	4018.8	6966.7
81.4	1832.9	2461.3	2719.4	2302.7	3166.9	2765.6	4229.6	3492.3	6860.9	2126.3
34.1	599.1	927.8	684.1	854.1	769.5	575.8	645.3	337.5	986.0	299.1
362.1	3092.8	4143.5	4429.9	4116.1	5425.0	3402.9	3755.2	2989.9	6426.0	4030.5
129.0	1859.8	2627.2	2402.4	2265.1	2481.3	2653.2	2349.9	1426.4	2470.4	1646.2
635.0	1681.7	1658.4	1153.2	1562.9	1572.2	1205.5	1946.8	1602.9	1155.9	731.7

4779.1	7291.7	3308.3
2693.2	3436.1	1743.1
4203.1	2698.3	2995.7
3196.3	3294.1	2879.6
3544.3	3912.2	918.1
2327.5	3358.0	1683.1
5379.3	5467.8	3581.5
2388.2	2669.2	2366.1
5032.6	5886.5	2792.8
1191.1	2134.3	942.3
6395.7	7262.1	5113.5
3675.0	3405.1	3400.5
5508.0	5283.8	2607.3
996.3	1377.8	1221.2
2081.6	2023.8	1087.5
2752.0	3630.8	1239.3
167.5	436.2	133.9
1428.5	1883.6	1637.7
6519.8	8065.0	6294.0
5411.6	4743.6	4564.8
28.3	35.3	35.6
3033.1	3749.4	1843.5
38.1	43.9	19.6
4892.7	4437.0	4527.3
3556.4	3620.6	1007.9
3245.5	4165.3	3274.4
5212.8	6206.9	5802.4
4146.6	4440.3	4107.5
6051.0	6038.6	4513.1
4073.5	4701.5	2868.1
8241.9	8809.7	7171.1
2382.5	1744.4	1793.2
5363.3	5402.7	3464.8
4276.8	4266.0	2834.7
4458.3	5145.3	4634.3
4447.0	4235.6	3429.0
3406.8	3757.7	1958.5
595.1	1165.9	625.0
5171.2	4572.9	3686.5
2462.0	2791.0	2049.5
1377.2	1893.0	2179.0

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	6280
s__unclassified	6284
s__unclassified	6285
s__unclassified	6286
s__unclassified	6289
s__unclassified	6291
s__unclassified	6299
s__unclassified	6306
s__unclassified	6311
s__unclassified	6312
s__unclassified	6314
s__unclassified	6315
s__unclassified	6324
s__unclassified	6329
s__unclassified	6346
s__unclassified	6348
s__unclassified	6354
s__unclassified	6355
s__unclassified	6359
s__unclassified	6366
s__unclassified	6368
s__unclassified	6370
s__unclassified	6371
s__unclassified	6376
s__unclassified	6380
s__unclassified	6383
s__unclassified	6388
s__unclassified	6392
s__unclassified	6396
s__unclassified	6400
s__unclassified	6409
s__unclassified	6417
s__unclassified	6453
s__unclassified	6457
s__unclassified	6458
s__unclassified	6459
s__unclassified	6473
s__unclassified	6474
s__unclassified	6476
s__unclassified	6489
s__unclassified	6493

EU854835.1 gg_id:338030 Vibrio sp. 3C1
GQ203111.1 gg_id:543868 Vibrio harveyi str. 11-6DEP
AM778463.1 gg_id:235347 Vibrio sp. Y524
DQ068938.1 gg_id:128050 Vibrio natriegens str. ATCC 14048
EF584019.1 gg_id:233630 Vibrio sp. str. BISLNTS2
FJ457542.1 gg_id:540493 Vibrio sp. str. S3705
AY373027.1 gg_id:94344 Vibrio alginolyticus
NZ_ACFN01000056.1 gg_id:589213 Vibrio parahaemolyticus str. AQ4037
X56580.1 gg_id:9213 Vibrio parahaemolyticus str. ATCC 17802
EU854949.1 gg_id:327660 Vibrio sp. 7A3
NZ_ACFN01000122.1 gg_id:585208 Vibrio parahaemolyticus str. AQ4037
FJ457344.1 gg_id:543817 Vibrio sp. str. S844
AJ874352.1 gg_id:110401 Vibrio natriegens str. 01/097
AJ560649.1 gg_id:102693 Vibrio pomeroyi
EU660313.1 gg_id:295179 Vibrio parahaemolyticus str. V11
EU022572.1 gg_id:249726 Vibrio sp. str. 09022
EU854919.1 gg_id:325753 Vibrio sp. 6H5
AY770723.1 gg_id:109758 sea urchin Paracentrotus lividus clone PlS52
FJ465010.1 gg_id:553472 Vibrio sp. str. HB-1
FM204864.1 gg_id:362393 Vibrio rotiferianus str. LPD 1-1-86
EU931113.1 gg_id:317447 Vibrio breoganii str. RD 2B2
AJ874353.1 gg_id:110903 Vibrio natriegens str. 01/252
FJ952771.1 gg_id:409574 Vibrio sp. str. 1ta7
GQ180184.1 gg_id:585556 Vibrio harveyi str. LA08007
EF467290.1 gg_id:218679 Vibrio parahaemolyticus str. VF
AM159568.1 gg_id:184396 Vibrio sp. str. F 27
DQ814117.1 gg_id:165805 zebrafish digestive tract clone aab60b01
EU884928.1 gg_id:325564 microbial hindgut chamber Pomacanthus sexstriatus GI tract clone A3B7
DQ079634.1 gg_id:128193 Vibrio alginolyticus str. NA0302
EU854921.1 gg_id:331930 Vibrio sp. 6F1
AY264922.1 gg_id:105294 Vibrio harveyi str. ACMM 131
EU333880.1 gg_id:274586 Vibrio sp. str. K22-41
EF199917.1 gg_id:202707 Vibrio sp. str. DH147
EU854922.1 gg_id:315723 Vibrio sp. 6E11
DQ304558.1 gg_id:143830 Vibrio harveyi str. XVP5
AB257333.2 gg_id:178521 Vibrio fortis str. Do-47
EF542800.1 gg_id:218383 Vibrio alginolyticus str. YJ06167B
EU854917.1 gg_id:305927 Vibrio sp. 6G12
DQ664544.1 gg_id:170529 Vibrio alginolyticus str. RH2
AY911396.1 gg_id:112486 Vibrio harveyi str. SW-3
GQ391944.1 gg_id:517522 Vibrio sp. str. PaH1.39

EU854
GQ203
AM778
DQ068
EF5840
FJ4575
AY3730
NZ_AC
X56580
EU8549
NZ_AC
FJ4573
AJ8743
AJ5606
EU6603
EU0225
EU8549
AY7707
FJ4650
FM204
EU9311
AJ8743
FJ9527
GQ180
EF4672
AM159
DQ814
EU8849
DQ079
EU8549
AY2649
EU3338
EF1999
EU8549
DQ304
AB2573
EF5428
EU8549
DQ664
AY9113
GQ391

218.6	1938.2	2212.1	2575.3	2663.0	3126.6	2113.9	2832.1	2529.6	4927.3	1854.5
40.5	639.1	812.2	854.3	855.5	1039.1	579.3	616.0	345.1	1621.5	355.3
1003.2	4006.1	4844.4	5303.2	4657.9	4939.8	4699.8	5018.8	5359.4	6133.0	4138.1
18227.5	8286.5	8323.7	9464.7	9070.8	8752.2	8929.4	8760.9	9998.2	9585.6	4408.0
1394.9	4405.4	4484.0	5058.9	5307.2	5055.4	4101.3	6044.3	5113.6	7247.1	3922.1
906.9	639.6	660.5	744.0	492.0	776.7	604.5	971.1	478.5	1187.1	263.0
10082.2	4795.3	4634.2	4011.8	4406.4	4580.5	5165.2	4608.8	5326.2	3160.8	5648.9
12445.1	5483.4	4957.5	6035.5	5766.7	5586.5	4484.5	8298.9	7095.5	7711.6	6701.3
89.9	446.8	572.6	608.6	650.2	711.4	368.1	594.1	396.5	688.3	444.2
243.3	1140.0	1553.1	1703.8	2000.4	1831.2	1631.0	1629.8	1400.7	2614.0	976.8
824.0	1159.5	1345.2	1448.7	1783.3	1470.7	1226.9	2873.0	1172.3	1213.1	1130.6
3983.2	2811.4	2654.1	2616.9	2293.4	2752.1	2091.3	3288.0	2130.5	3756.5	2163.9
2068.3	3089.9	3109.1	2820.2	2448.7	3093.4	2469.0	3427.4	4042.4	3194.9	4213.0
55.3	118.9	134.2	136.6	229.6	135.4	96.6	134.7	105.3	66.2	82.4
4931.1	3411.6	3476.9	3604.8	3044.5	4233.2	2919.4	3670.1	3447.4	5268.9	3733.8
218.6	1047.0	1168.7	1530.7	2054.0	1283.3	1919.3	1335.9	630.0	647.8	582.0
147.2	1873.1	2194.4	2148.2	2499.6	2489.6	2296.6	3294.3	2459.5	4086.3	1885.4
44.5	1595.0	2298.5	1955.3	2527.4	3069.0	2607.2	1543.2	887.8	2494.9	1119.1
60.6	2042.1	2084.1	2093.8	1963.2	2629.8	1884.7	2487.4	3221.0	3594.6	2094.5
43.7	596.9	874.3	797.7	948.4	612.4	661.3	918.4	367.7	888.7	339.0
2294.1	2974.1	3362.4	3475.2	2957.5	4739.3	2303.4	3940.5	3082.4	4665.9	2618.2
1888.7	2985.3	2702.9	2775.5	2725.7	2861.0	2132.9	3009.1	2681.3	3212.7	2633.5
66.8	480.8	662.0	741.3	974.8	773.1	877.9	701.2	511.6	893.3	303.5
8938.7	5228.4	5650.1	5937.9	5816.9	5255.7	5256.3	6079.0	8412.0	7470.5	6494.1
59.7	861.3	1086.6	1090.4	865.4	1189.1	531.2	1300.2	855.3	1826.2	713.9
4618.0	4047.6	5099.3	5053.0	5422.0	5094.9	5277.5	5474.0	4885.6	4260.5	4249.1
12028.6	5498.9	5296.6	6172.4	5400.2	4981.1	5725.9	5298.6	3900.0	5857.1	7109.5
7306.9	3348.4	3622.1	4034.3	5168.2	5058.5	4445.1	4712.2	3883.3	3634.0	3980.8
1513.2	4376.6	5207.2	5464.6	5471.0	5476.3	4921.1	5401.1	5309.4	7811.4	4300.0
11667.0	5505.4	5403.5	5893.8	5381.0	6775.3	5816.9	6155.0	8593.3	13382.8	6449.9
4266.9	1857.8	2048.6	2223.2	2204.9	1805.7	2111.3	2128.2	1744.6	1865.1	1971.6
114.0	1705.2	2166.7	2272.6	1679.0	2202.2	2176.7	2238.7	1841.8	2346.3	1249.6
2110.0	5793.8	5568.7	6342.9	6403.9	5723.6	6818.5	6605.8	7442.9	7221.9	7307.7
453.7	1458.2	1407.5	1638.5	1919.9	1658.4	1972.9	1798.4	1882.7	2011.6	1329.7
61.5	2197.8	2518.3	2582.0	2107.5	2589.3	2262.6	3660.8	2438.2	4842.0	1862.2
9184.8	3841.3	3645.2	3997.7	6164.5	4013.5	5625.1	3539.2	3113.4	2441.9	4211.0
62.3	1372.8	1935.9	1707.6	1453.7	1809.8	989.9	1687.6	1058.1	2336.9	1115.3
363.4	4153.1	4782.8	4755.4	4504.9	5309.7	4792.8	6189.2	5244.5	12961.6	5647.0
5331.0	3300.1	3415.4	3524.1	2929.4	4045.4	2766.4	3589.8	3351.7	4897.1	3313.4
6261.4	6823.6	6857.1	6796.5	6495.7	6817.9	4787.9	7060.4	6463.2	9618.8	6648.7
38.8	745.1	924.7	1030.2	1156.7	958.7	1240.0	1296.5	905.8	1169.1	701.5

3345.0	2891.5	2286.7
990.4	878.6	652.1
4272.3	6759.6	5042.4
8706.4	9328.7	8761.5
5571.5	5603.5	4228.4
1052.3	1004.0	558.7
4688.0	5142.9	4295.2
5546.2	8499.7	6378.4
561.8	1050.7	368.0
1721.3	1844.7	1610.3
1172.3	1810.4	1504.7
2450.9	3111.2	2148.9
2819.4	3642.2	3096.8
126.2	197.8	133.1
3648.1	4108.5	3216.4
1276.1	1318.7	1601.8
2741.5	2407.1	2112.4
2433.9	2267.7	1801.2
1895.9	3255.7	2170.6
804.2	1010.7	773.1
5216.7	5624.5	2608.9
2237.3	3371.5	2456.2
729.3	1154.9	1173.2
4979.7	6650.2	4960.0
1007.9	2005.5	816.6
5241.9	6028.6	3891.1
4421.3	4648.9	4877.4
3789.6	3995.8	3927.2
6074.6	5694.3	4397.2
6798.6	6558.0	6878.7
1831.4	2319.1	2135.3
2411.5	2274.1	1744.9
5554.8	6679.3	5987.4
1435.7	1968.4	2193.9
2878.6	3200.4	1560.4
3404.1	3089.6	5111.3
1593.8	2452.2	1181.0
6029.5	5329.2	4379.6
3527.9	4177.2	3045.0
6358.9	6933.6	5456.5
993.8	1014.8	1137.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	6495
s__unclassified	6496
s__unclassified	6499
s__unclassified	6500
s__unclassified	6504
s__unclassified	6508
s__unclassified	6510
s__unclassified	6511
s__unclassified	6526
s__unclassified	6528
s__unclassified	6529
s__unclassified	6534
s__unclassified	6540
s__unclassified	6541
s__unclassified	6547
s__unclassified	6554
s__unclassified	6566
s__unclassified	6569
s__unclassified	6571
s__unclassified	6578
s__unclassified	6588
s__unclassified	6595
s__unclassified	6596
s__unclassified	6599
s__unclassified	6603
s__unclassified	6610
s__unclassified	6613
s__unclassified	6634
s__unclassified	6638
s__unclassified	6639
s__unclassified	6640
s__unclassified	6649
s__unclassified	6652
s__unclassified	6655
s__unclassified	6656
s__unclassified	6662
s__unclassified	6664
s__unclassified	6677
s__unclassified	6686
s__unclassified	6689
s__unclassified	6690

NC_009783.1 gg_id:471501 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120 NC_00
EU854838.1 gg_id:342900 Vibrio sp. 3D7 EU854
FJ227114.1 gg_id:554540 Vibrio harveyi EHP8 FJ2271
FJ200649.1 gg_id:345203 Vibrio lentus str. I 80 FJ2006
EU188117.1 gg_id:318402 Uncultivated oceanic unicellular N2-fixing cyanobacteria are picoplankton unusual 7(EU188
AJ316169.1 gg_id:73534 Vibrio sp. str. LMG 19270 AJ3161
EU854927.1 gg_id:309342 Vibrio sp. 6H6 EU854
FJ952824.1 gg_id:402184 Vibrio sp. str. 2tc2 FJ9528
EU854890.1 gg_id:313041 Vibrio sp. 6A3 EU854
NZ_AAWP01000159.1 gg_id:246627 Vibrio harveyi str. HY01 NZ_AA
AJ874359.1 gg_id:109806 Vibrio splendidus str. 01/100 AJ8743
EU660364.1 gg_id:297368 Vibrio parahaemolyticus str. CT12 EU660
FJ176466.1 gg_id:564291 Vibrio sp. str. T-S2-7 FJ1764
NC_009783.1 gg_id:471499 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120 NC_00
EU517637.1 gg_id:268839 Vibrio sp. str. 4E11 EU517
Z19081.1 gg_id:9246 Anomalops katoptron symbiont Z19081
FJ906747.1 gg_id:537784 Vibrio alginolyticus str. HN07006 FJ9067
FM204869.1 gg_id:367865 Vibrio alginolyticus FM204
DQ005876.1 gg_id:131549 Vibrio sp. str. A356 DQ005
NC_009783.1 gg_id:471503 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120 NC_00
AJ316193.1 gg_id:71896 Vibrio kanaloae str. LMG 20539 AJ3161
AJ440009.1 gg_id:100541 Vibrio gallicus str. LMG 21330 AJ4400
EU854823.1 gg_id:344632 Vibrio sp. 1A1 EU854
EU854827.1 gg_id:308115 Vibrio sp. 3B6 EU854
EU372926.1 gg_id:271355 Vibrio sp. str. S4 EU372
GQ906772.1 gg_id:575876 Pseudomonas fluorescens str. MR-6 GQ906
EU854833.1 gg_id:305431 Vibrio sp. 1E7 EU854
DQ922916.1 gg_id:226196 Vibrio comitatus str. GHG24 DQ922
AY676129.1 gg_id:106027 Vibrio vulnificus str. 1003(O) AY676
FJ171336.1 gg_id:346087 Vibrio natriegens str. WT01 FJ1713
AJ414132.1 gg_id:74395 Vibrio sp. str. SYS6-01 AJ4141
FJ594056.1 gg_id:552960 Vibrio parahaemolyticus str. ASKB-081039 FJ5940
EF584045.1 gg_id:233383 Vibrio sp. str. GAS2 EF5840
DQ235159.1 gg_id:144816 Vibrio sp. str. O2 DQ235
NC_009783.1 gg_id:471505 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120 NC_00
EU854918.1 gg_id:306600 Vibrio sp. 6E4 EU854
EU854945.1 gg_id:327451 Vibrio sp. 7A11(2008) EU854
AJ421444.1 gg_id:68895 Vibrio penaeicida str. DSM 14398T AJ4214
FJ457312.1 gg_id:559091 Vibrio sp. str. S278 FJ4573
FM162398.1 gg_id:297192 Vibrio harveyi str. a91 FM162
AAWP01000248.1 gg_id:256913 Vibrio harveyi str. HY01 AAWP

77.6	1124.1	1193.6	957.2	900.6	1158.0	854.6	1027.9	726.7	1215.2	712.4
14769.2	6341.8	6566.1	6856.3	7349.0	6695.4	8027.0	6653.1	8880.1	9847.3	5928.7
4935.4	3295.6	3519.4	3714.3	3045.5	3819.6	2647.0	3844.9	3444.5	5836.0	3735.9
55.3	258.0	432.3	499.5	399.0	363.7	198.2	379.9	602.7	694.1	188.1
14840.7	7237.0	7006.7	7624.3	10195.5	7346.7	9573.1	7778.6	7899.0	8316.2	8767.8
72.8	1271.5	1642.9	1572.5	1495.5	1682.3	1367.0	2114.0	1181.3	2334.3	1012.3
1760.9	6367.4	7021.9	7127.4	7183.3	6660.5	5934.9	6878.6	5933.2	9444.0	7427.7
69.5	486.0	596.4	647.8	883.7	716.1	793.9	672.4	520.3	871.5	307.3
150.3	895.7	1090.5	1143.3	1616.3	1294.8	1129.3	1486.6	1073.7	1914.0	804.3
533.0	1076.6	1268.3	1428.0	1951.4	1243.2	1499.3	1358.4	792.0	833.5	573.2
55.6	1325.8	1551.4	1596.4	1898.4	1461.6	1947.8	2041.1	2009.2	1417.4	1005.2
1142.4	634.2	817.5	992.5	814.8	973.2	698.6	983.6	570.4	911.8	315.1
35.6	624.8	831.0	788.7	698.4	850.9	504.2	924.3	848.6	938.6	347.4
79.1	1453.4	1523.0	1128.0	1172.9	1326.6	977.7	1202.7	910.9	1481.5	979.9
379.2	2331.4	2817.8	2741.2	3480.8	3269.0	2649.1	3374.1	2704.6	3683.9	2415.7
416.3	638.3	786.3	785.0	889.5	746.8	1196.7	861.5	483.3	998.5	501.0
3343.8	2327.4	2465.7	2607.6	2422.0	2579.6	1976.9	3017.9	2310.4	3536.8	2390.1
115.3	631.0	1890.7	2077.0	2516.4	1926.8	1715.0	3564.1	2070.0	1765.8	2142.0
3894.7	5619.2	6048.6	6083.1	5044.5	5973.3	4334.9	6025.0	5729.3	7340.5	5450.3
575.7	1554.5	1800.1	1425.9	1358.3	1730.7	1121.9	1668.5	1201.4	1906.4	935.9
65.2	412.4	631.9	800.6	622.8	460.1	401.0	724.3	1036.1	870.1	352.4
861.2	3400.1	4230.0	3617.1	3599.4	4085.5	4066.5	5458.9	3785.7	4168.2	3442.1
194.1	2243.3	2859.3	3192.8	2600.3	4217.1	1995.4	2870.3	2653.8	7542.9	2100.2
177.9	3778.7	4128.2	3976.8	4022.4	3953.4	3165.5	4491.5	4400.9	7038.6	6414.5
63.3	1378.7	1702.6	1701.2	2275.6	1811.7	1792.7	1523.0	923.0	813.0	1028.6
3842.9	1896.6	2240.8	2416.5	2260.1	1890.1	2007.1	2170.2	1975.9	2419.4	1874.4
159.5	833.8	1026.7	1196.4	1508.9	1167.1	1191.8	1246.1	994.6	1736.3	774.5
60.9	1365.8	1726.1	2297.5	1474.9	3009.1	1300.9	1860.9	790.4	3583.2	982.4
41.9	21.5	28.2	34.8	42.8	23.8	34.3	36.8	18.2	21.3	27.1
411.3	3356.5	5268.9	5214.3	5306.4	5164.9	4483.4	5066.8	5251.7	7444.5	4130.2
5315.9	6424.4	6777.1	6788.3	5339.5	6307.1	5689.4	6884.0	12326.8	7524.4	7923.7
921.7	2373.0	2870.9	3128.1	3024.5	2940.2	2837.0	4521.5	2601.9	3224.9	2296.9
94.1	3483.4	3595.9	3570.3	2780.0	4248.3	2062.2	4543.6	3569.7	7149.6	2935.5
52.7	1342.6	1865.3	1717.6	1295.8	1865.9	1458.4	2119.7	1360.0	3026.5	962.1
131.1	1154.8	1233.7	1186.2	1766.5	1281.8	1295.1	1217.3	647.9	1150.5	606.7
143.1	2064.9	2475.5	2435.5	2627.1	2779.2	2465.3	3858.7	2726.6	4244.2	2086.4
8402.1	4066.3	3903.9	4004.9	4172.6	4359.8	4138.9	4092.0	5298.3	5199.0	3456.5
53.1	666.0	1201.6	1028.1	760.9	1918.9	425.2	1174.2	597.7	2930.0	466.2
1116.2	2310.5	2509.1	2931.9	2102.4	2641.7	2268.2	2815.1	2754.7	3439.5	2232.9
201.1	1670.2	2080.6	2186.2	2291.8	2083.1	1889.2	2144.4	1472.2	3259.4	1300.4
4902.9	2764.8	2775.5	3197.1	3313.3	3108.7	3347.3	3086.9	2797.1	2605.3	3059.9

1094.2	1610.0	722.4
6839.6	8494.1	6688.6
3928.1	4677.8	3024.1
361.2	843.2	284.0
6994.9	7054.3	8105.9
1706.8	2733.9	1367.6
7005.3	7148.6	6636.2
684.5	1081.9	1043.1
1295.6	1441.5	1361.9
1146.0	1861.1	1382.2
1676.1	1898.0	1496.6
1119.3	1708.5	1187.2
1029.4	1872.4	468.6
1269.1	1877.5	982.5
3056.6	2910.9	3057.4
1285.6	1930.3	1199.0
2371.5	3240.3	2399.6
1476.1	2144.6	2004.6
5810.3	6388.0	5350.0
1664.3	2434.8	958.0
633.0	1322.6	419.2
4544.3	4873.7	1803.1
4414.3	3481.6	2164.4
3587.2	4050.8	3047.9
1489.3	1374.1	2065.8
1923.2	3041.6	2171.8
1148.3	1171.4	1345.1
3663.4	3143.8	1325.8
33.8	25.0	20.4
5426.6	5486.7	4251.6
5972.0	8031.4	5771.1
2828.0	3741.9	3057.7
3889.9	3954.1	2523.7
2054.6	2647.1	1495.4
987.8	2157.9	1416.9
3272.4	2743.3	2037.1
3643.1	5775.7	4185.8
2243.7	2302.3	614.4
2766.6	2639.1	2246.3
1796.6	2664.1	1962.3
3050.7	3298.7	2761.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	6695
s__unclassified	6698
s__unclassified	6700
s__unclassified	6703
s__unclassified	6705
s__unclassified	6714
s__unclassified	6718
s__unclassified	6736
s__unclassified	6737
s__unclassified	6741
s__unclassified	6748
s__unclassified	6757
s__unclassified	6766
s__unclassified	6770
s__unclassified	6780
s__unclassified	6785
s__unclassified	6790
s__unclassified	6792
s__unclassified	6795
s__unclassified	6796
s__unclassified	6806
s__unclassified	6810
s__unclassified	6811
s__unclassified	6815
s__unclassified	6820
s__unclassified	6828
s__unclassified	6855
s__unclassified	6859
s__unclassified	6865
s__unclassified	6868
s__unclassified	6870
s__unclassified	6876
s__unclassified	6880
s__unclassified	6881
s__unclassified	6891
s__unclassified	6900
s__unclassified	6918
s__unclassified	6922
s__unclassified	6924
s__unclassified	6925
s__unclassified	6935

AB457055.1 gg_id:340467 Vibrio sp. str. SB-G3	AB457
AB457057.1 gg_id:342157 Vibrio sp. str. SB-H1	AB457
EU043380.1 gg_id:257742 Vibrio sinaloensis str. CAIM 752	EU043
EU854901.1 gg_id:328904 Vibrio sp. 6A6	EU854
EF584085.1 gg_id:232685 Vibrio sp. str. TUN8	EF584
EU517645.1 gg_id:263861 Vibrio sp. str. 5D9	EU517
AM921804.1 gg_id:253912 Vibrio alginolyticus	AM921
EF645832.1 gg_id:247677 Vibrio parahaemolyticus str. H040823-1	EF6458
EU517643.1 gg_id:258894 Vibrio sp. str. 4C3	EU517
EU854911.1 gg_id:312073 Vibrio sp. 6D1	EU854
EU043382.1 gg_id:254129 Vibrio sinaloensis str. CAIM 636; LMG 21563	EU043
EU419926.1 gg_id:259946 Vibrio fortis str. RW39	EU419
GQ391945.1 gg_id:524646 Vibrio sp. str. PaH2.01a1	GQ391
EU517638.1 gg_id:274062 Vibrio sp. str. 4H2	EU517
FJ176453.1 gg_id:552887 Vibrio pacinii str. S-M2-14-B1	FJ1764
DQ079633.1 gg_id:131667 Vibrio coralliilyticus str. NA0301	DQ079
FJ605240.1 gg_id:561761 Vibrio harveyi str. HS08001	FJ6052
DQ097524.1 gg_id:132459 Vibrio litoralis str. mano22p	DQ097
EU854895.1 gg_id:346295 Vibrio sp. 6B2	EU8548
FJ227110.1 gg_id:559045 Vibrio harveyi UCP9	FJ2271
AF218244.1 gg_id:19456 Vibrio sp	AF2182
DQ269211.1 gg_id:141139 Vibrio alginolyticus str. SR1	DQ269
GQ281380.1 gg_id:579117 Vibrio sp. str. KTW-12	GQ281
AY562192.1 gg_id:113713 Vibrio parahaemolyticus str. Sh06	AY5621
FM204856.1 gg_id:367994 Vibrio campbellii str. R1311	FM204
AB457058.1 gg_id:319566 Vibrio sp. str. SB-I1	AB457
FJ024709.1 gg_id:346035 Copper affects reduction and genetic enriched sulfate reducing coastal sediments exp	FJ0247
EU833997.1 gg_id:568897 Vibrio alginolyticus str. UST981101-032	EU8339
EU854908.1 gg_id:314683 Vibrio sp. 6E2	EU854
EF219054.1 gg_id:214480 Vibrio alginolyticus str. H050815-1	EF2190
EU854929.1 gg_id:344477 Vibrio sp. 6G11	EU854
FJ172044.1 gg_id:512369 Vibrio parahaemolyticus str. RW1	FJ1720
FJ457435.1 gg_id:511250 Vibrio sp. str. S2321	FJ4574
AY928014.1 gg_id:112649 Vibrio harveyi	AY9280
GQ260161.1 gg_id:584728 Vibrio tapetis str. C11.25	GQ260
EU854894.1 gg_id:324980 Vibrio sp. 6B1	EU8548
FJ176462.1 gg_id:508766 Vibrio sp. str. T-C2-3	FJ1764
X97988.1 gg_id:9232 Vibrio sp str. VI966/26	X97988
FJ176451.1 gg_id:563362 Vibrio natriegens str. J-C2-40	FJ1764
AY264921.1 gg_id:105131 Vibrio harveyi str. 47666-1	AY2649
EU854951.1 gg_id:340143 Vibrio sp. 7B4	EU854

12093.3	9720.0	8803.3	9037.3	8004.6	9838.5	8857.1	10392.8	11459.3	14598.7	12128.9
9243.1	5993.9	6656.3	6740.3	6245.0	6397.8	6240.9	6590.7	10748.5	8317.7	6883.2
184.2	1934.3	2576.0	2189.2	3192.4	2230.5	2024.7	3948.9	1955.2	1651.4	2023.9
75.0	1238.3	1693.1	1807.9	1730.4	2581.8	1370.4	1829.2	1261.2	4322.0	946.9
54.0	452.4	309.9	199.8	63.3	60.5	60.7	205.1	280.7	193.5	171.8
18906.8	5939.3	5192.8	6469.4	6093.5	7412.7	6634.2	6674.7	8699.0	12419.3	7307.6
4565.5	3175.3	3706.6	3872.0	3453.3	3383.2	3204.7	3792.3	4179.0	4527.2	3351.7
3872.8	3283.2	3254.4	4088.4	4164.4	3429.4	3880.7	3027.2	3285.0	1990.2	3062.0
73.5	1239.4	1700.7	1930.9	1731.3	2755.7	1470.1	1591.7	1186.1	4631.9	956.0
3374.7	3438.7	3914.4	4766.5	4504.2	3945.4	4525.1	4007.1	4738.2	5885.4	5042.4
110.0	1216.7	1435.0	1375.9	1332.4	1272.4	1072.5	1878.4	1210.1	1949.1	917.5
52.0	1710.8	1985.0	2358.5	2125.9	2309.0	1846.8	1938.7	3237.9	2464.5	1101.2
74.4	1859.6	2142.9	2159.2	2226.1	2556.3	2353.3	3254.6	2395.3	4339.6	1755.8
876.7	3666.6	3776.9	4070.1	3695.0	4033.1	4508.2	5171.2	5133.2	7171.4	3651.5
6241.0	6013.7	6312.5	6451.8	9116.8	6233.0	7085.8	7167.3	6149.5	5134.8	5671.2
503.2	1918.8	1831.5	1939.4	2150.6	3074.8	1939.1	2040.8	2386.5	3816.8	980.2
77.0	1062.7	1284.1	1209.3	1093.0	1420.2	1370.5	1848.0	987.6	1525.6	822.0
51.5	1301.9	1298.5	1038.5	1482.4	1426.0	1389.7	1638.9	1024.1	1871.2	2326.6
679.7	1049.9	1090.9	1304.1	1608.6	1072.4	1388.4	1692.6	1047.5	418.5	651.6
4314.5	2256.8	2435.0	2694.6	2495.5	2593.0	2360.6	3009.4	2446.6	2643.0	2461.5
9268.0	4770.6	4879.9	5044.2	5140.5	6550.6	4174.9	5001.7	5776.9	8395.2	4533.0
512.0	2385.1	2835.9	3172.9	2393.3	3251.4	1918.3	3783.0	2728.9	4886.8	2267.1
53.4	1203.9	1551.4	1788.7	1322.0	2448.4	804.5	1476.1	1188.6	3881.3	1187.1
64.0	1091.6	1325.9	1206.4	1148.4	1422.5	573.4	1732.1	981.5	1712.4	959.7
4974.1	4476.5	3957.1	5235.5	3712.7	4733.2	2778.6	5547.7	5513.1	6764.3	6425.3
27686.8	8898.3	8419.5	9214.8	6795.8	9222.3	8385.8	9059.4	12539.6	12427.7	11669.0
98.4	1491.0	1845.2	1833.7	2789.4	1946.6	2547.6	1536.6	884.5	1446.2	1039.9
76.3	2474.8	4407.7	3882.8	3784.4	3994.8	3566.0	4357.8	3949.7	6024.1	3400.7
481.7	749.4	831.8	1101.0	1328.1	968.0	1234.3	919.0	740.7	697.5	448.9
1153.0	1295.1	1427.9	1954.8	1546.1	1617.2	1222.5	1533.1	1005.1	2624.3	663.4
231.6	2656.7	3118.7	3433.4	3330.5	4394.0	2237.3	3195.3	2655.8	6935.6	2331.0
5324.9	3198.5	3250.6	3365.7	2807.6	3857.0	2703.8	3375.5	3251.1	4668.2	3460.3
4241.6	2561.7	2569.4	2863.0	3340.6	3136.8	3096.9	3095.7	2135.6	3164.2	3512.3
127.0	957.2	1262.1	1464.3	1221.8	1206.5	2184.4	922.1	1837.8	3461.7	2852.3
244.2	2104.3	2281.9	2169.4	4241.5	2739.4	2201.8	2397.3	1813.6	2495.7	1457.3
174.6	662.2	787.5	793.5	1088.2	933.1	793.4	923.0	532.2	866.9	638.8
3645.5	2683.3	3062.3	3433.4	3845.2	3181.9	3553.9	2906.8	2731.1	3642.8	3354.4
3221.4	2905.4	3767.4	3563.4	3377.2	3359.2	3690.2	3654.6	3349.6	4389.2	4074.7
87.7	1489.5	2878.3	2936.9	2605.4	3118.5	1998.1	3228.9	3185.0	4833.4	2625.5
103.9	1595.5	2107.9	1988.3	2224.8	1902.4	2044.8	2600.9	1526.3	2132.5	1438.9
48.9	867.7	1114.4	1206.9	1327.6	1225.0	1436.7	1410.3	1070.1	1582.9	772.1

9945.9	9954.5	8081.9
5595.3	8095.6	5358.7
2215.2	2393.1	1661.2
2988.9	2285.9	1853.0
166.2	439.8	66.7
7240.8	7610.6	7608.4
3357.0	4596.8	3445.6
3341.3	3769.0	3189.2
2804.8	2300.0	1852.2
3808.1	4319.2	3885.2
1513.6	1758.0	897.8
1270.9	2895.1	1197.5
3024.9	2679.4	2103.1
4154.7	4815.9	4417.5
6169.4	6239.7	6050.3
3094.9	3294.2	1397.9
1372.5	2163.3	1137.8
1517.5	1448.8	917.3
1135.1	1626.3	2002.6
2818.8	3574.1	2329.6
7003.7	7896.9	4481.4
3035.9	4779.5	2384.4
2356.6	2769.5	1097.0
1167.3	1995.5	915.7
4372.5	6254.0	4244.0
8293.3	10666.3	7784.0
1568.0	2331.7	1516.4
4160.9	4526.6	2870.1
880.1	1282.3	1497.5
1712.8	2681.5	1295.7
4707.8	3847.8	2812.8
3342.1	3839.4	2973.8
2439.5	2825.2	2387.6
843.8	1538.3	772.8
2105.0	2513.3	2370.0
765.9	1016.2	931.5
2902.6	3383.0	2897.9
3407.8	3624.8	3415.7
2836.5	3645.0	2325.0
2163.0	2536.4	1655.2
1234.3	1342.6	1276.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	6937
s__unclassified	6945
s__unclassified	6950
s__unclassified	6953
s__unclassified	6958
s__unclassified	6967
s__unclassified	6970
s__unclassified	6972
s__unclassified	6976
s__unclassified	6979
s__unclassified	6983
s__unclassified	6984
s__unclassified	6990
s__unclassified	6992
s__unclassified	6998
s__unclassified	7003
s__unclassified	7008
s__unclassified	7015
s__unclassified	7016
s__unclassified	7032
s__unclassified	7042
s__unclassified	7048
s__unclassified	7050
s__unclassified	7053
s__unclassified	7055
s__unclassified	7059
s__unclassified	7064
s__unclassified	7070
s__unclassified	7074
s__unclassified	7084
s__unclassified	7093
s__unclassified	7094
s__unclassified	7097
s__unclassified	7109
s__unclassified	7110
s__unclassified	7117
s__unclassified	7123
s__unclassified	7135
s__unclassified	7137
s__unclassified	7138
s__unclassified	7141

FJ176459.1 gg_id:557146 Vibrio sp. str. J-S2-26	FJ1764
EU660319.1 gg_id:299937 Vibrio parahaemolyticus str. CM2	EU6603
X97989.1 gg_id:9241 Vibrio sp str. VI1067/44	X97989
EU579452.1 gg_id:273618 Vibrio pomeroyi str. 929	EU5794
EU073023.1 gg_id:237745 Vibrio penaeicida HC051105-6	EU0730
GQ203114.1 gg_id:544229 Vibrio alginolyticus str. 23-6PIN	GQ203
EU517646.1 gg_id:263182 Vibrio sp. str. 5E9	EU5176
AB038029.1 gg_id:17434 Vibrio sp. str. OM02	AB0380
NC_009783.1 gg_id:471497 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120	NC_009
U57919.1 gg_id:9278 Vibrio cyclitrophicus str. 2P44	U57919
EU082035.1 gg_id:252648 Vibrio sp. str. cn83	EU0820
AY654760.1 gg_id:99936 Oculina mucus isolate 11	AY6547
AJ316194.1 gg_id:70306 Vibrio pacinii str. LMG 19999	AJ3161
FJ202493.1 gg_id:320634 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k	FJ2024
EU170469.1 gg_id:242658 Vibrio parahaemolyticus str. 070925	EU1704
EF488080.1 gg_id:224355 Vibrio porteresiae str. MSSRF31	EF4880
EU854924.1 gg_id:356007 Vibrio sp. 6E9	EU8549
EU854902.1 gg_id:348515 Vibrio sp. 6B5	EU8549
AM422800.1 gg_id:238361 Vibrio harveyi str. 04101	AM422
EF203212.1 gg_id:214385 Vibrio parahaemolyticus str. R22	EF2032
EF584041.1 gg_id:231968 Vibrio sp. str. DS7	EF5840
DQ856554.1 gg_id:245610 intestinal microflora Chinese mitten crab (Eriocheir sinensis) clone C3S	DQ856
FJ203285.1 gg_id:339560 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c	FJ2032
NC_009783.1 gg_id:471502 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120	NC_009
DQ173157.1 gg_id:139193 Vibrio alginolyticus str. zouA	DQ173
AB038030.1 gg_id:47694 Vibrio splendidus str. ATCC33789	AB0380
EU854912.1 gg_id:353304 Vibrio sp. 6D10	EU8549
EF584056.1 gg_id:232714 Vibrio sp. str. HE3	EF5840
EU854944.1 gg_id:308043 Vibrio sp. 7A10(2008)	EU8549
GU194174.1 gg_id:524536 Vibrio cyclitrophicus str. Col 15	GU194
EU636230.1 gg_id:286820 Vibrio natriegens str. V6	EU6362
GU064378.1 gg_id:544893 Vibrio parahaemolyticus str. 489	GU064
X74701.1 gg_id:9315 Vibrio diazotrophicus str. ATCC 33466T	X74701
FJ866782.1 gg_id:557937 Rhodobacter capsulatus str. PSB-03	FJ8667
NZ_ACFN01000147.1 gg_id:580234 Vibrio parahaemolyticus str. AQ4037	NZ_AC
EU373091.1 gg_id:268687 Vibrio harveyi str. BB170	EU3730
EU854946.1 gg_id:351124 Vibrio sp. 7A12(2008)	EU8549
NC_009783.1 gg_id:471498 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120	NC_009
FJ202872.1 gg_id:308237 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k	FJ2028
AJ874360.1 gg_id:111259 Vibrio splendidus str. 01/104	AJ8743
EU517633.1 gg_id:262574 Vibrio sp. str. 4D5	EU5176

39.1	2186.7	2815.2	2824.2	2723.0	2720.1	3416.1	3156.5	2744.4	3352.2	3057.5
178.5	1784.7	2431.7	2427.6	1840.0	2595.6	1756.1	2741.9	2208.8	4160.0	1732.4
97.1	1860.3	3450.3	2724.1	2375.4	3626.3	2126.2	3856.4	2131.8	6484.8	2992.2
141.7	2373.2	2328.1	3403.7	2422.5	3583.3	2147.0	3609.5	2962.2	7229.3	2226.1
627.4	1606.0	1517.3	1317.1	2248.3	1669.2	1858.3	1879.8	887.6	1151.7	2498.5
131.8	4943.2	4785.1	6338.6	4645.9	5706.2	2552.3	5413.5	4892.1	9637.4	4149.3
6716.4	3785.1	4264.7	5420.3	4621.2	5381.0	4826.3	4943.4	4137.1	9031.9	5207.7
73.0	465.0	641.7	760.4	470.0	749.9	533.5	779.0	879.4	1228.6	553.4
5239.3	2641.8	2856.2	3226.3	3243.4	2706.0	3172.6	2925.0	2754.3	2447.8	2906.4
862.7	5157.8	5399.3	6620.6	4556.6	5130.1	5458.6	4317.1	7304.4	7136.3	7236.4
84.3	1484.3	1505.3	1419.4	1827.6	2041.1	1493.9	1931.7	633.8	1292.7	957.1
198.6	3622.8	3667.1	4752.3	2875.3	4853.8	1709.6	4996.5	4202.1	8118.6	4336.5
67.6	3046.7	2983.4	2973.8	5408.6	4164.5	3568.5	2661.8	1715.8	4179.2	1313.9
19377.6	8667.8	7385.7	8180.7	7374.8	7953.7	7802.3	7524.5	8961.1	8955.5	9506.0
59.6	2548.1	4320.3	4031.9	4060.0	4124.3	3836.7	4889.2	4208.1	5958.3	3582.7
36.8	477.4	695.5	756.9	370.7	1336.5	129.3	848.7	211.9	1186.4	251.0
447.9	2038.9	2524.0	2890.1	3679.9	2927.2	2613.8	3129.0	2731.3	4296.1	1863.1
75.6	1173.5	1650.1	1751.6	1644.1	2705.5	1269.3	1761.7	1210.1	4021.8	925.2
512.0	1078.5	1219.9	1545.7	1737.4	1250.8	1461.2	1350.8	729.1	833.1	568.4
5311.2	3084.3	3226.3	3690.1	2919.3	3538.2	2589.4	3789.7	3366.1	4838.3	3705.3
113.9	340.6	335.2	200.5	132.2	278.5	50.9	311.9	323.4	397.5	166.0
3623.4	1786.3	2046.2	2333.5	2487.2	2342.2	2461.7	2039.9	2086.7	2827.9	2395.5
943.4	4714.6	6839.3	6090.7	5438.6	6878.2	7079.5	6163.7	6376.9	7780.1	4875.0
101.5	751.5	929.3	965.4	895.3	1150.1	476.5	1240.9	770.9	1405.6	536.1
273.4	2054.9	2991.6	2731.9	2606.1	2529.6	2358.7	2589.6	2220.9	3613.3	1927.6
44.3	286.7	399.9	450.1	574.8	363.9	465.8	507.6	183.1	209.4	209.7
2380.1	4159.6	4692.3	4879.9	4472.2	5354.4	4110.0	4824.9	3567.0	7343.1	3836.8
7657.1	4783.3	4419.2	4432.4	4852.8	5275.6	5181.2	4533.5	4795.5	7545.2	1676.0
5175.6	3528.7	3384.0	3759.9	3292.7	3419.5	3953.6	3349.5	4236.9	4845.0	5083.8
1106.5	1137.7	1356.3	1468.9	1230.1	1465.7	1109.6	1216.3	2506.2	962.9	1218.3
4517.9	1709.2	1965.6	2113.9	2002.8	1638.2	1824.0	1816.6	1677.4	1987.1	1887.6
158.0	715.4	898.3	951.3	833.9	898.2	710.6	965.8	575.5	650.3	330.2
59.6	401.8	647.6	456.4	545.6	840.3	653.7	579.8	248.3	680.3	273.6
8242.3	3018.2	2991.0	3435.3	3380.9	3714.3	3088.7	3287.0	2744.4	3516.3	3916.7
5137.0	5439.0	5522.1	6553.5	5681.4	5457.4	6120.5	7665.9	8434.6	7158.2	7493.6
4835.1	2258.7	2379.6	2661.4	2686.2	2280.0	2788.6	2430.6	2435.2	1372.5	2457.0
5706.2	2328.3	1972.1	1993.8	2778.7	2021.0	2481.6	2041.2	3008.9	2417.9	1591.0
494.7	1305.3	1581.1	1576.0	2156.0	1538.5	1738.4	1843.5	1008.1	1012.3	806.7
45.5	743.8	879.1	873.6	1436.8	1316.5	1020.6	1068.6	618.1	1309.2	541.8
1003.4	2410.3	2754.2	3179.9	2601.9	2658.5	3035.8	3292.8	3328.5	2955.7	2516.9
11473.8	4244.0	4365.1	5663.9	5367.2	4464.3	6371.1	4547.2	5418.7	7348.4	5333.2

2929.9	2659.1	1965.1
2460.5	3454.3	2145.2
3462.7	4260.5	2035.4
3839.2	3268.6	2499.3
1885.6	1922.6	1504.2
5114.9	5412.2	3556.1
4875.5	5493.4	4773.0
768.6	1144.6	520.8
2750.6	3297.4	2410.4
4957.8	4572.1	4816.7
1495.1	2740.1	2224.2
4803.6	5527.7	3210.9
2298.5	3414.3	2980.0
7538.5	8864.4	6611.3
4212.0	4385.0	3041.1
1441.8	1152.7	290.6
2894.1	2928.7	3295.5
2927.3	2178.2	1701.7
1143.6	1942.8	1305.2
3523.5	4543.2	3251.7
235.0	906.5	100.5
2324.3	2379.1	2230.4
7226.7	7728.2	5844.7
1109.0	2197.2	615.6
2623.6	3520.4	2343.0
335.8	545.8	334.2
4617.1	5551.4	3854.2
4667.6	6068.9	3922.5
3373.0	3706.4	3168.3
1460.5	2179.6	1106.4
1583.9	2250.4	1894.4
760.7	1127.0	722.7
695.4	756.7	408.3
2705.5	3264.4	2854.1
5366.2	8515.3	6586.6
2392.5	2279.4	1949.3
1679.8	3015.8	2618.9
1728.7	2093.1	1237.0
1569.0	1764.3	795.2
3123.2	3188.4	2433.8
4274.6	5612.8	6697.0

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	7143
s__unclassified	7144
s__unclassified	7146
s__unclassified	7153
s__unclassified	7159
s__unclassified	7163
s__unclassified	7168
s__unclassified	7169
s__unclassified	7181
s__unclassified	7185
s__unclassified	7186
s__unclassified	7189
s__unclassified	7192
s__unclassified	7194
s__unclassified	7199
s__unclassified	7200
s__unclassified	7203
s__unclassified	7204
s__unclassified	7205
s__unclassified	7209
s__unclassified	7218
s__unclassified	7219
s__unclassified	7230
s__unclassified	7239
s__unclassified	7243
s__unclassified	7244
s__unclassified	7250
s__unclassified	7272
s__unclassified	7283
s__unclassified	7286
s__unclassified	7289
s__unclassified	7294
s__unclassified	7299
s__unclassified	7300
s__unclassified	7302
s__unclassified	7304
s__unclassified	7306
s__unclassified	7316
s__unclassified	7317
s__unclassified	7334
s__unclassified	7335

FJ025780.1 gg_id:343704 Vibrio sp. str. SXAKC3	FJ0257
EU419940.1 gg_id:273151 Vibrio natriegens str. RW53	EU4199
AY940169.1 gg_id:114484 Vibrio midae str. SY9	AY9401
EU372922.1 gg_id:272836 Vibrio sp. str. S16	EU3729
EU854947.1 gg_id:316417 Vibrio sp. 7A1	EU8549
AF493803.1 gg_id:93679 Vibrio sp. str. 167	AF4938
EU854829.1 gg_id:332034 Vibrio sp. 1A2	EU8548
AJ316167.1 gg_id:73319 Vibrio coralliilyticus str. LMG 10953	AJ3161
AF513465.1 gg_id:60374 Vibrio sp. str. PH19	AF5134
X74720.1 gg_id:9240 Vibrio parahaemolyticus str. ATCC 17802T	X74720
Z31657.1 gg_id:9268 Vibrio splendidus	Z31657
EU699809.1 gg_id:335968 Vibrio sp. str. F-6	EU6998
AY332566.1 gg_id:91317 Vibrio alginolyticus str. EcGS021001	AY3325
EU854930.1 gg_id:323930 Vibrio sp. 6G7	EU8549
AAWP01000045.1 gg_id:256024 Vibrio harveyi str. HY01	AAWP0
X74698.1 gg_id:9313 Vibrio cincinnatiensis str. ATCC 35912T	X74698
AY911394.1 gg_id:112657 Vibrio parahaemolyticus str. SW-1	AY9113
FJ202676.1 gg_id:344716 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k	FJ2026
AB470933.1 gg_id:556034 Vibrio sp. str. r27	AB4709
AM941185.1 gg_id:286468 Microbes enriched seawater after addition coral mucus and reef waters mixture1-8	AM941
EU854897.1 gg_id:306077 Vibrio sp. 6B3	EU8548
NZ_ACFO01000050.1 gg_id:577439 Vibrio parahaemolyticus str. -5034	NZ_AC
AY863432.1 gg_id:113088 Vibrio qinhuangdaora	AY8634
AF513447.1 gg_id:55336 Vibrio alginolyticus str. LA6	AF5134
DQ146990.1 gg_id:149211 Vibrio sp. str. V759	DQ146
AY785255.1 gg_id:108413 microbial fuel cell anode clone 19	AY7852
EU636231.1 gg_id:284716 Vibrio parahaemolyticus str. V7	EU6362
FJ952769.1 gg_id:410605 Vibrio sp. str. 1ta5	FJ9527
EU854825.1 gg_id:307164 Vibrio sp. 1B10(2008)	EU8548
EF584054.1 gg_id:230635 Vibrio sp. str. HE1	EF5840
EU246793.1 gg_id:243190 polyphasic description Pocillopora meandrina Palmyra Atoll Calcinus obscurus abdon	EU2467
FJ154796.1 gg_id:311946 Vibrio harveyi str. WG1702	FJ1547
NC_009783.1 gg_id:471500 Vibrio harveyi BAA-1116 str. ATCC BAA-1116; BB120	NC_009
EU854926.1 gg_id:322675 Vibrio sp. 6G9	EU8549
AY426982.1 gg_id:101603 Vibrio ezurae str. HDV1-1	AY4269
EU517647.1 gg_id:274949 Vibrio sp. str. 4G11	EU5176
X97990.1 gg_id:9224 Vibrio sp str. VI1964/75	X97990
FM995173.1 gg_id:568021 digestive gland QX infected and naive Sydney rock oysters Saccostrea glomerata Vib	FM995
AY967727.1 gg_id:115357 Vibrio alginolyticus IS3	AY9677
AY785254.1 gg_id:108410 microbial fuel cell anode clone 17	AY7852
EU854824.1 gg_id:318618 Vibrio sp. 1G1	EU8548

140.9	2724.8	2886.0	2923.5	3004.5	2863.5	3157.9	3363.8	3434.1	3150.7	2788.7
284.8	2652.4	3446.7	3239.6	3066.9	3303.6	2625.7	3310.0	2679.1	4992.0	2343.9
61.5	1371.3	1790.1	1828.0	1453.2	1808.6	989.5	1807.0	1130.3	2334.9	1193.6
48.1	569.1	777.1	801.4	811.6	1066.9	648.9	792.8	516.8	1708.3	383.5
166.6	1649.2	1910.5	1868.8	2552.2	2024.6	1709.8	2458.4	1632.3	2668.6	1295.2
318.6	1151.7	1388.5	1347.2	1504.0	1380.6	1231.9	1726.2	1160.6	2876.0	925.0
43.5	800.5	979.5	944.6	863.5	1041.4	1070.1	1305.8	1059.6	1549.7	737.7
3457.0	4106.6	5530.4	5394.1	5806.4	5589.3	5405.1	6944.5	4761.5	6417.8	5018.7
2177.7	3269.9	2648.5	2864.3	2267.4	3589.3	1964.9	3022.2	2414.4	4177.6	2875.3
831.5	1704.5	2223.4	2129.3	2473.5	2187.7	1937.7	3438.9	1564.7	2180.5	1657.7
13818.3	4851.5	4837.1	5038.9	4222.6	4747.5	5164.9	4683.5	7396.4	8235.9	6221.2
14116.2	8980.5	8353.7	9493.4	9139.6	9718.1	8991.7	9055.0	9376.4	12444.8	12283.9
62.1	994.3	1331.8	1268.1	915.7	1415.3	638.1	1550.2	1018.3	2084.5	826.7
166.6	1982.5	2388.2	2327.9	2625.7	2749.3	2411.7	3494.6	2619.4	4207.3	1967.8
494.0	1302.7	1574.4	1678.6	2155.3	1533.7	1737.5	1977.6	1077.0	1010.3	865.9
118.3	821.3	1066.5	707.6	580.4	841.0	687.4	1179.8	735.4	1025.8	496.0
3573.9	1898.2	2239.8	2256.7	2261.1	1891.6	2009.2	2027.6	1837.6	2419.9	1875.6
208.9	768.2	842.3	840.4	1595.1	1370.4	1033.2	1267.9	724.6	2061.4	463.6
85.2	1091.9	1599.8	1489.4	1988.7	1623.5	1284.7	1259.9	1022.2	1272.4	1152.1
526.8	2801.1	3087.9	2890.9	3991.1	3697.1	4546.5	3234.2	2354.2	5029.4	1525.9
195.6	2181.3	2648.3	3060.5	2864.3	4147.7	2073.1	3196.9	2651.5	6717.5	2038.7
111.9	947.2	1127.5	1184.7	1050.8	1195.5	777.0	1345.9	902.7	1459.7	701.8
239.5	1748.7	2338.6	2372.1	2276.9	2348.2	1588.1	2895.7	2142.4	4543.0	1592.6
4937.1	3279.6	3355.6	3505.1	2923.7	4042.6	2764.6	3586.2	3272.8	4883.5	3525.7
172.6	4314.7	4598.0	4894.8	4285.7	5352.5	3498.6	4830.6	4889.3	6003.6	3340.9
334.6	2496.0	2870.9	3091.9	4274.6	3500.1	4283.3	2953.1	1372.2	3126.2	1961.5
457.5	2249.5	2634.2	2980.0	2316.3	2999.1	1838.8	3491.6	2595.4	4720.8	2188.3
73.4	953.6	1315.3	1484.9	1525.1	1545.6	1291.6	1507.7	1173.6	1338.9	684.9
98.1	2144.0	2536.1	2524.4	3156.9	2711.5	2929.4	2819.6	2095.0	2987.7	1947.0
74.6	145.0	145.0	196.0	106.7	124.4	163.9	247.2	144.8	52.2	98.8
11650.7	3421.2	4029.4	4049.2	4540.9	5080.7	4422.9	4315.6	5315.3	6218.9	3999.1
57.7	587.7	796.3	865.2	695.0	734.5	431.4	949.4	478.7	912.0	346.0
3987.8	3207.0	3476.8	3693.3	3457.0	3708.7	3608.1	4960.0	3648.3	4762.2	3762.5
2446.6	4736.5	5319.4	5911.5	4950.9	5786.8	5525.5	7179.2	5934.6	8858.2	7115.8
121.3	1876.4	2195.4	2229.3	2246.6	3543.0	1302.8	1963.2	1207.0	4212.7	1154.8
147.5	897.5	1042.5	1151.7	1480.1	1266.3	1145.2	1462.8	1096.7	1923.0	818.2
225.3	4494.6	5162.2	5475.8	5743.8	6210.2	4295.2	6965.0	4211.8	8233.8	5475.4
2892.1	5772.5	6973.7	7198.7	6560.3	6497.1	6745.1	7274.3	7416.7	8312.3	7233.2
4286.2	3548.2	4185.7	4048.9	3797.1	3529.7	3962.9	3772.7	4523.6	4566.7	3442.6
71.3	148.4	321.4	302.5	264.2	264.1	158.9	338.4	314.1	241.8	112.7
74.8	704.2	864.8	930.7	1515.1	1118.0	1130.9	977.9	653.5	1516.9	535.0

3178.9	3529.1	2625.8
3209.3	3984.0	2685.4
1592.7	2826.0	1270.5
1198.0	1126.3	753.9
2167.8	2560.4	1798.8
1633.4	1487.8	928.4
1120.1	1164.0	729.4
6244.1	7151.7	5812.9
3552.1	3707.0	2172.3
1917.8	2350.3	2042.4
4391.2	6531.9	4328.3
8915.6	9509.9	9407.1
1282.7	2280.8	939.6
2983.7	2707.0	2123.3
1720.6	2378.2	1347.2
1417.4	1367.6	1145.0
1924.2	2633.2	2019.1
1489.0	1693.8	862.3
1234.1	1351.9	1085.5
3708.7	4709.2	2933.3
4549.1	3297.0	2622.4
1058.5	1737.9	973.3
2650.1	2958.6	1795.7
3525.4	4092.9	3042.8
4374.7	5173.3	3985.1
2888.2	3098.4	3633.0
2797.4	4423.6	2335.4
1676.7	2016.7	2151.4
2665.3	2631.1	3363.6
133.9	182.1	90.5
5546.8	6307.3	3907.1
844.8	1867.8	559.1
4167.1	4558.4	3170.5
6006.7	7103.1	7837.5
3265.4	3382.2	1470.5
1267.0	1415.6	1301.3
5580.7	5962.6	4215.9
6978.3	7614.7	6248.0
3703.1	4248.9	3879.3
483.0	213.3	216.9
1081.4	1363.2	1169.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	7337
s__unclassified	7338
s__unclassified	7342
s__unclassified	7349
s__unclassified	7356
s__unclassified	7361
s__unclassified	7363
s__unclassified	7366
s__unclassified	7368
s__unclassified	7372
s__unclassified	7379
s__unclassified	7380
s__unclassified	7392
s__unclassified	7394
s__unclassified	7395
s__unclassified	7415
s__unclassified	7417
s__unclassified	7420
s__unclassified	7421
s__unclassified	7431
s__unclassified	7437
s__unclassified	7440
s__unclassified	7441
s__unclassified	7463
s__unclassified	7465
s__unclassified	7471
s__unclassified	7472
s__unclassified	7473
s__unclassified	7480
s__unclassified	7482
s__unclassified	7488
s__unclassified	7494
s__unclassified	7508
s__unclassified	7512
s__unclassified	7535
s__unclassified	7559
s__unclassified	7560
s__unclassified	7564
s__unclassified	7574
s__unclassified	7577
s__unclassified	7578

DQ026024.1 gg_id:160559 Vibrio parahaemolyticus 2
NR_029222.1 gg_id:585239 Vibrio campbellii str. 40; ATCC 25920
NC_004460.1 gg_id:235488 Vibrio vulnificus str. CMCP6
DQ304557.1 gg_id:144132 Vibrio harveyi str. FA-1
EF584063.1 gg_id:233712 Vibrio sp. str. HE12
EU077545.1 gg_id:245149 Vibrio parahaemolyticus str. HN12
AY911392.1 gg_id:112501 Vibrio shilonii str. MP-3
AY264926.1 gg_id:105905 Vibrio harveyi str. OVL 99-52331-
AY372930.1 gg_id:143887 marine sponge Rhabdastrella globostellata symbiont
Z19003.1 gg_id:9249 Kryptophanaron alfredi symbiont
GQ375456.1 gg_id:583549 Vibrio splendidus str. GHrC13
AY332401.1 gg_id:224717 Vibrio harveyi str. EHR1
GQ205448.1 gg_id:434247 Vibrio parahaemolyticus str. JGB080708-1
EF100710.1 gg_id:191629 Vibrio sp. str. V134
AB239476.1 gg_id:154281 Vibrio campbellii str. LC1-257
EU043379.1 gg_id:246983 Vibrio sinaloensis str. CAIM 798
AB470937.1 gg_id:566097 Vibrio harveyi str. r44
AB297941.1 gg_id:212446 Vibrio nigripulchritudo str. FPC1062
EU541605.1 gg_id:276875 Vibrio sp. str. CECT 7244
AY245190.1 gg_id:86266 Vibrio parahaemolyticus 21
X74714.1 gg_id:9230 Vibrio natriegens str. ATCC 14048T
AM778456.1 gg_id:252007 Vibrio sp. Y310
EU854864.1 gg_id:332457 Vibrio sp. 2F3
DQ995519.1 gg_id:175212 Vibrio alginolyticus str. A3G-2
EF584039.1 gg_id:233082 Vibrio sp. str. DS5
AY911391.1 gg_id:112498 Vibrio parahaemolyticus str. MP-2
X74690.1 gg_id:9234 Vibrio alginolyticus str. ATCC 17749T
Z19085.1 gg_id:9245 Photoblepharon palpebratus symbiont
GQ406675.1 gg_id:531375 Vibrio sp. str. PaD3.34b
EU854950.1 gg_id:319651 Vibrio sp. 7B2
EU660311.1 gg_id:295546 Vibrio parahaemolyticus str. V1
EU854896.1 gg_id:319020 Vibrio sp. 6B10
EU854928.1 gg_id:339400 Vibrio sp. 6H1
EF584020.1 gg_id:229796 Vibrio sp. str. BISLTS1
EF584044.1 gg_id:237322 Vibrio sp. str. DS12
AM778459.1 gg_id:246260 Vibrio sp. Y332
AY785252.1 gg_id:108408 microbial fuel cell anode clone 12
AY876051.1 gg_id:128096 Vibrio sp. HB-8
DQ497399.1 gg_id:159333 Vibrio alginolyticus str. GCSL 29
DQ497398.1 gg_id:159058 Vibrio parahaemolyticus str. 93A-5807
EU854826.1 gg_id:320027 Vibrio sp. 1E8

DQ026
NR_02
NC_00
DQ304
EF5840
EU077
AY9113
AY2649
AY3729
Z19003
GQ375
AY3324
GQ205
EF1007
AB2394
EU0433
AB4709
AB2979
EU5416
AY2451
X74714
AM778
EU8548
DQ995
EF5840
AY9113
X74690
Z19085
GQ406
EU8549
EU6603
EU8548
EU8549
EF5840
EF5840
AM778
AY7852
AY8760
DQ497
DQ497
EU8548

47.1	590.9	859.4	624.7	934.0	676.1	428.2	852.5	524.6	1233.4	381.8
1721.3	4012.7	5074.9	5431.7	4408.0	5212.7	4061.3	6450.2	5581.4	7855.0	6218.3
5769.8	3395.4	3264.8	3860.3	4248.3	3583.4	5315.9	4009.1	4647.1	4052.2	2710.2
17524.9	4660.9	4453.2	4566.6	4817.5	4828.8	4690.9	4489.6	8274.3	6506.1	6157.5
24014.6	6031.7	5457.8	5610.9	4975.2	6695.8	6447.5	6631.4	7342.0	8242.4	7853.2
899.2	1337.3	1474.8	1915.1	2102.3	1721.4	1309.5	4479.5	1598.7	1174.8	1567.3
71.4	1262.7	2689.7	2280.8	1149.1	1883.7	936.2	3454.8	2724.7	3113.3	1313.4
101.4	2199.0	2312.3	2383.6	1821.3	2463.3	868.0	2633.1	2121.8	4543.3	1832.7
3463.8	1601.5	1644.7	1878.6	1738.6	1553.6	1971.6	1714.9	1884.8	1134.5	1800.6
92.0	72.8	85.4	67.0	64.1	58.8	68.2	87.6	55.1	44.1	46.8
11385.2	3578.4	3621.1	4519.4	5289.4	4715.5	3923.7	4591.5	6282.9	4368.5	4976.6
1253.3	2645.1	2459.1	1796.3	2147.7	2173.3	2421.0	955.5	2150.9	541.5	1766.1
314.6	1872.7	2305.4	2259.7	2107.2	2448.7	1447.0	2606.1	1884.2	3952.2	1668.1
42.4	741.5	1288.9	1148.0	873.6	757.7	962.7	1040.4	522.1	1221.7	767.9
106.6	3942.4	4299.4	4224.2	3409.0	5010.7	2418.0	5046.7	3844.5	7379.1	3377.1
794.9	812.2	872.8	970.6	676.2	1044.8	694.5	1249.1	642.1	1672.9	392.5
615.8	3598.9	3549.2	3838.4	3071.9	4135.1	1601.3	4160.2	3262.6	7985.8	3093.5
96.6	1756.9	2354.7	2412.1	2560.5	2715.7	1911.6	2404.7	1386.3	3697.5	1124.0
73.2	712.9	914.3	708.9	1156.1	1411.0	292.6	1355.4	813.9	2415.2	499.9
8314.2	5794.8	7279.0	7369.6	6761.2	7191.7	6985.7	6353.3	11310.4	8143.8	8506.0
59.7	1004.9	1528.0	1385.8	1124.5	1393.0	857.2	1399.8	817.6	1531.6	787.4
974.4	677.9	578.0	808.1	763.5	661.1	683.3	791.4	1007.4	296.2	956.8
5581.3	5773.3	5785.9	6678.3	5068.3	7082.0	4440.2	7894.4	6954.3	12174.8	6450.8
54.3	483.5	542.2	486.9	734.6	464.1	368.2	635.7	371.5	556.0	311.3
56.8	1098.8	1019.6	691.3	834.1	659.9	880.3	983.2	630.6	704.1	806.7
995.5	701.2	846.0	953.8	1043.9	1190.6	544.2	2117.6	489.4	839.8	633.1
435.2	1578.7	2158.3	2032.3	2338.1	2069.8	1715.4	3373.9	1477.0	2244.9	1563.9
135.8	297.1	306.3	296.7	304.8	330.2	399.5	358.7	208.5	166.9	201.1
52.7	367.5	479.8	415.2	357.2	532.3	367.9	528.6	482.0	836.1	251.7
1978.8	3410.8	4403.7	3716.7	2732.2	3698.6	3148.6	3850.2	5591.6	3802.6	4059.2
174.3	1590.8	3153.3	3102.5	2719.5	3099.4	2781.4	3137.8	3533.3	4531.2	2661.9
696.1	3263.0	3968.8	4646.0	4151.4	5973.3	2907.6	4414.6	3608.9	10032.8	2386.9
6929.1	4991.7	4594.4	5066.7	4721.2	4884.4	4823.9	4774.0	6246.7	6912.6	5383.6
4015.5	5018.9	5709.2	5705.6	6657.1	6171.4	5836.8	6473.0	6526.7	8890.4	6094.3
7627.6	2974.6	2737.7	2817.6	2605.8	2898.1	2475.4	2818.8	3895.6	4229.1	2323.9
138.6	2839.7	3229.1	3190.6	4008.8	3606.8	2032.1	4091.4	2721.5	3997.4	2310.1
31271.2	9130.2	8393.5	9693.6	9621.3	9132.7	10239.6	9117.6	12765.5	11393.5	12973.2
31.0	1143.1	1486.2	1352.7	1362.6	1414.3	1372.1	2436.7	1608.4	2048.6	1166.3
3882.6	2948.0	3344.0	3432.1	3258.4	3467.8	3308.4	3179.7	3405.4	3588.4	3333.4
838.3	1197.3	1013.4	1224.1	636.1	1708.3	491.7	1307.2	1080.4	1961.8	561.5
65.5	591.2	702.9	762.2	1328.8	917.2	856.3	870.3	523.7	1271.7	446.8

742.6	1306.3	606.0
5640.8	6878.8	4420.7
3679.0	6133.5	4342.3
4144.1	6420.2	4579.2
5267.1	7064.7	5653.4
1172.9	2494.9	1643.9
2643.1	2449.9	1093.2
2386.3	2482.7	1714.6
667.4	1668.5	601.9
52.3	91.2	49.0
4040.6	4722.6	3750.7
1914.4	2188.3	1964.9
2358.3	3112.8	1731.1
1060.2	1100.2	625.6
4409.9	4746.0	2647.2
1256.5	1457.6	693.0
3892.9	4528.2	2763.2
3197.7	3804.9	1497.5
1495.6	1914.7	1104.0
5950.9	7513.1	6239.7
1328.3	2219.7	866.7
749.7	800.3	626.4
7104.8	8579.6	5394.2
518.6	931.3	463.3
780.2	1102.3	732.8
1038.6	1513.0	934.7
1774.0	2500.4	1901.0
344.2	414.3	276.8
582.1	917.8	490.9
3141.7	4399.7	2926.5
3246.6	3727.5	2806.0
6264.6	5045.1	4903.9
4427.7	6181.3	4589.4
5791.1	7139.5	6484.2
2620.7	4326.2	2233.1
3697.9	3731.5	2647.8
7827.2	9421.3	8667.6
1810.1	1521.6	1144.7
3022.3	4099.9	3375.3
1381.6	2354.2	798.5
875.6	1196.6	1028.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__unclassified	7582
s__unclassified	7583
s__unclassified	7592
s__unclassified	7596
s__unclassified	7597
s__unclassified	7607
s__unclassified	7610
s__unclassified	7626
s__Vibrio aestuarianus	6560
s__Vibrio aestuarianus	6572
s__Vibrio aestuarianus	6882
s__Vibrio aestuarianus	6886
s__Vibrio aestuarianus	6908
s__Vibrio aestuarianus	7357
s__Vibrio aestuarianus	7586
s__Vibrio agarivorans	6856
s__Vibrio campbellii	6647
s__Vibrio campbellii	7080
s__Vibrio campbellii	7131
s__Vibrio campbellii	7516
s__Vibrio cholerae	6648
s__Vibrio cholerae	7258
s__Vibrio cholerae	7274
s__Vibrio ezurae	7438
s__Vibrio fortis	6360
s__Vibrio fortis	6451
s__Vibrio fortis	6747
s__Vibrio fortis	6765
s__Vibrio fortis	6774
s__Vibrio fortis	7533
s__Vibrio gallicus	6929
s__Vibrio halioticoli	6744
s__Vibrio harveyi	6325
s__Vibrio harveyi	6350
s__Vibrio harveyi	6375
s__Vibrio harveyi	6379
s__Vibrio harveyi	6402
s__Vibrio harveyi	6539
s__Vibrio harveyi	6577
s__Vibrio harveyi	6670
s__Vibrio harveyi	6684

EU854852.1 gg_id:346453 Vibrio sp. 1C7
EU340847.1 gg_id:236017 Vibrio sp. DS11
AB512471.1 gg_id:554579 Vibrio harveyi str. AM12
EU854923.1 gg_id:351053 Vibrio sp. 6F8
NZ_AAWP01000198.1 gg_id:237998 Vibrio harveyi str. HY01
EU404191.2 gg_id:334804 Vibrio harveyi str. MCCB 111
DQ530290.1 gg_id:230076 Vibrio fischeri str. EHR3
EF199915.1 gg_id:200870 Vibrio sp. str. DH98
AY530930.1 gg_id:103088 Vibrio ordalii str. 2003/09/511-2063
GQ372983.1 gg_id:580669 Vibrio aestuarianus str. TS1
EF091705.1 gg_id:177990 Listonella anguillarum str. MHK9
EF579965.1 gg_id:230360 Listonella anguillarum str. MN
DQ068759.1 gg_id:128185 Listonella anguillarum str. HF010522-1
AM162655.1 gg_id:142807 Listonella anguillarum str. 610
AM423154.1 gg_id:208406 marine str. MH-160
AJ310647.1 gg_id:32562 Vibrio agarivorans str. 289T CECT 5085T
DQ146937.1 gg_id:139192 Vibrio harveyi str. LB13
AY035896.1 gg_id:31661 Vibrio campbellii str. L61
DQ005911.1 gg_id:133997 Vibrio harveyi str. 642
AY264924.1 gg_id:105604 Vibrio harveyi str. UQM 2849
CP001485.1 gg_id:526736 Vibrio cholerae str. MJ-1236
EF684900.1 gg_id:278039 Vibrio cholerae RC466
AY494842.1 gg_id:100088 Vibrio cholerae str. SIO
AY426981.1 gg_id:101436 Vibrio ezurae str. HDS1-2
NR_025575.1 gg_id:568332 Vibrio fortis str. CAIM 629; LMG 21557
DQ985231.1 gg_id:177824 Vibrio aestuarianus str. Man2
AJ514917.1 gg_id:104831 Vibrio fortis str. LMG 21566
AJ293802.1 gg_id:46271 Listonella pelagia str. CECT 4202T
AB180389.1 gg_id:109221 Vibrio sp. str. No. 58
AJ514915.1 gg_id:104527 Vibrio fortis str. LMG 21562
AY257971.1 gg_id:84052 Vibrio gallicus str. CIP 107864; HT 1-3
AB000390.2 gg_id:9208 Vibrio halioticoli str. IAM14596T
AY245186.1 gg_id:84838 Vibrio parahaemolyticus 17
FJ457478.1 gg_id:552397 Vibrio sp. str. S2757
EU624428.1 gg_id:281266 Vibrio parahaemolyticus str. S6-06
DQ068936.1 gg_id:128101 Vibrio harveyi str. ATCC 33843
FM204841.1 gg_id:364286 Vibrio harveyi str. LPD 1-1-10
AB512467.1 gg_id:540512 Vibrio harveyi str. AM6
EF635306.1 gg_id:254619 Vibrio harveyi HQ050227-1
AB497061.1 gg_id:564525 Vibrio harveyi str. 7-1
EU031646.1 gg_id:235697 Vibrio harveyi str. AK1

EU8548
EU3408
AB5124
EU8549
NZ_AA
EU4041
DQ530
EF1999
AY5309
GQ372
EF0917
EF5799
DQ068
AM162
AM423
AJ3106
DQ146
AY0358
DQ005
AY2649
CP0014
EF6849
AY4948
AY4269
NR_025
DQ985
AJ5149
AJ2938
AB1803
AJ5149
AY2579
AB0003
AY2451
FJ4574
EU6244
DQ068
FM204
AB5124
EF6353
AB4970
EU0316

622.9	5423.6	6723.7	6964.5	5670.4	6238.2	5340.6	6546.6	6288.9	9224.9	6001.0
181.5	2144.9	3354.3	2935.5	1772.9	3009.9	2349.0	2955.2	3147.7	5465.0	2188.0
294.7	2252.2	2465.5	2286.5	2574.8	3610.9	2025.7	2602.1	2765.3	4276.1	1948.2
63.4	601.9	581.2	782.5	879.9	789.7	856.9	942.5	505.2	716.1	372.6
101.5	524.0	729.0	710.4	596.2	706.9	264.9	868.5	623.8	1062.6	330.5
9879.6	5782.0	5597.3	5714.5	5517.0	5733.3	5429.9	6191.7	6017.2	5938.2	7735.0
162.7	2450.6	3110.9	2972.3	2522.1	3223.4	2341.5	2993.4	2025.4	6873.2	1905.8
23989.5	5911.4	5952.9	6828.5	6737.2	6047.6	6503.0	6363.8	7477.3	7090.4	8108.8
164.9	1522.0	1638.3	1915.8	1703.2	2093.0	1162.9	2498.8	1358.9	1486.8	1168.9
64.1	1785.9	1631.2	1296.4	4157.0	2472.6	2780.9	2163.7	882.9	389.7	900.9
503.6	1154.8	2001.3	1836.6	1304.1	1827.7	855.0	2156.4	3859.9	1934.3	1072.8
174.4	1382.2	1688.5	1647.5	1911.4	2220.7	1408.1	1724.8	3730.5	2664.4	1227.2
1812.5	5912.1	6717.8	7369.3	8214.7	7050.0	6853.3	6719.8	11122.5	14807.9	9364.6
88.5	355.7	605.4	428.4	551.8	555.1	234.6	655.7	743.1	869.8	234.0
442.0	2163.6	2544.5	2908.1	3031.4	2979.5	2534.1	2561.8	3072.0	1368.4	2269.2
189.8	1134.5	1917.3	1397.9	1037.3	2048.7	737.0	1367.6	1160.6	3011.8	1072.9
9496.0	4252.1	4571.3	5572.8	4808.0	4334.0	4835.7	4448.3	4467.0	2768.6	4771.4
561.0	1781.9	2134.4	2137.3	2255.8	2129.4	1835.6	2500.0	1486.0	1948.9	1395.5
7078.3	2420.9	2240.9	2978.7	2614.0	2218.6	2728.9	2463.2	2751.5	2316.9	2653.2
95.3	851.1	953.0	931.6	916.4	1184.9	618.2	1297.0	632.1	2010.1	667.2
17023.4	6477.5	6650.0	6909.1	5941.1	7757.6	5816.5	6760.0	9281.4	12129.2	7626.8
48.1	1964.6	2809.2	2998.4	1633.5	4513.5	980.9	3147.4	2002.0	7247.3	1459.3
26328.7	6708.9	6790.5	7619.7	5805.5	7494.8	7089.7	7229.3	9551.5	10867.9	11167.1
67.3	1221.6	1770.7	1276.6	1024.5	2584.1	540.9	1817.4	1119.6	2963.7	995.7
48.8	252.5	276.5	236.7	341.1	321.3	233.2	398.2	296.0	404.5	171.9
51.1	467.2	696.9	610.1	902.9	682.3	596.4	725.0	472.3	808.5	295.5
59.2	325.0	389.8	395.0	737.7	448.0	498.2	473.9	315.3	415.2	212.7
1227.6	3411.5	3344.9	3838.7	4110.4	3338.3	3781.8	3252.9	5353.4	3953.9	3226.6
54.8	656.8	769.1	723.4	857.7	963.7	574.1	882.6	701.4	1546.9	556.6
63.1	1534.8	1977.8	1982.3	2253.3	2146.0	2108.1	2255.8	1662.7	2797.6	1511.4
68.2	425.6	733.4	706.6	527.6	1117.0	251.6	710.1	321.7	1783.0	300.0
85.2	2988.5	3650.1	3825.0	3002.0	5554.1	1831.1	3418.4	2335.5	7656.9	1935.3
91.8	188.5	246.6	300.7	131.2	279.0	164.6	315.7	184.9	381.7	145.9
127.7	1930.0	2583.0	2416.0	1528.1	2519.3	1879.0	2860.5	2323.5	4136.9	1584.6
3291.8	5104.8	5176.9	6041.6	6964.3	5930.2	6678.2	5615.3	6868.5	6058.8	5537.6
79.8	2168.2	2844.8	2511.8	2051.7	2434.4	2374.1	3246.1	2339.7	4391.2	1814.9
75.6	1636.7	2157.0	1887.2	1436.0	1923.1	1746.2	2630.9	1926.1	3354.9	1552.9
109.1	1536.6	2193.9	1900.1	1351.4	1807.4	1801.5	2417.4	1912.5	2965.3	1394.9
503.2	2069.4	2259.2	2578.5	2578.6	2375.2	2717.5	2687.6	2082.1	2658.2	1753.1
165.4	2258.7	2941.5	2590.4	1892.0	2610.0	2606.3	3574.4	2656.5	4352.7	2103.1
83.0	2158.3	2691.7	2524.8	2080.2	2473.4	2241.7	3284.7	2447.1	4652.1	1840.5

6462.2	6935.8	5146.4
3523.1	3152.5	2671.5
2428.3	2913.5	2036.1
673.4	1035.2	965.2
648.2	1589.2	479.1
4775.0	5912.8	5346.1
3255.4	3767.6	2519.2
5246.3	8210.4	5777.4
2907.2	2784.1	3510.8
694.1	1316.9	1844.5
2094.6	2881.1	1001.1
1504.5	2104.2	1043.4
7051.8	7457.3	6122.7
668.8	1225.0	638.7
2582.6	2613.6	2910.3
2055.0	1839.8	915.7
4432.8	5061.4	3777.4
2256.0	3191.3	1603.7
2187.4	2867.1	2984.1
1189.6	2072.0	1035.3
7331.8	7847.7	5862.1
4265.3	3753.8	1253.5
7417.9	8050.9	6843.1
2954.0	3529.3	970.9
344.5	591.0	438.8
705.5	1277.3	1105.7
413.8	696.6	847.3
2818.1	4006.7	3904.2
1138.6	1020.6	747.8
2047.9	2302.5	1802.7
1377.2	1459.0	432.0
5795.2	5253.7	2363.6
391.6	450.4	258.9
2925.5	3107.7	1624.4
5687.9	6805.2	5127.0
2690.4	2867.0	1683.6
2216.3	2281.7	1242.5
2183.6	2472.8	1488.4
2486.0	2840.5	1937.6
3035.1	3103.3	2089.6
2766.7	3033.5	1508.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio

s__Vibrio harveyi	6854
s__Vibrio harveyi	6907
s__Vibrio harveyi	6939
s__Vibrio harveyi	6948
s__Vibrio harveyi	6985
s__Vibrio harveyi	7018
s__Vibrio harveyi	7033
s__Vibrio harveyi	7220
s__Vibrio harveyi	7233
s__Vibrio harveyi	7359
s__Vibrio harveyi	7403
s__Vibrio harveyi	7429
s__Vibrio harveyi	7448
s__Vibrio harveyi	7579
s__Vibrio harveyi	7613
s__Vibrio harveyi	7625
s__Vibrio hispanicus	7087
s__Vibrio ichthyoenteri	6834
s__Vibrio kanaloae	7301
s__Vibrio kanaloae	7450
s__Vibrio metschnikovii	6661
s__Vibrio metschnikovii	7399
s__Vibrio orientalis	6357
s__Vibrio orientalis	6358
s__Vibrio orientalis	6447
s__Vibrio orientalis	6472
s__Vibrio orientalis	6486
s__Vibrio orientalis	6505
s__Vibrio orientalis	6565
s__Vibrio orientalis	6573
s__Vibrio orientalis	6726
s__Vibrio orientalis	6801
s__Vibrio orientalis	6850
s__Vibrio orientalis	6861
s__Vibrio orientalis	6893
s__Vibrio orientalis	6932
s__Vibrio orientalis	7012
s__Vibrio orientalis	7128
s__Vibrio orientalis	7445
s__Vibrio orientalis	7489
s__Vibrio orientalis	7496

X74706.1 gg_id:9243 Vibrio harveyi str. ATCC 14126T
AY046956.1 gg_id:50883 Vibrio harveyi str. M4
AB512477.1 gg_id:533825 Vibrio harveyi str. AM16
FN554612.2 gg_id:555037 Vibrio harveyi str. HG5
AY332564.1 gg_id:91201 Vibrio harveyi str. EcGY020401
DQ995520.1 gg_id:178502 Vibrio harveyi str. B1X-1
GQ901063.1 gg_id:516123 Vibrio harveyi str. BBD-216-1b
GU262992.1 gg_id:587331 Vibrio harveyi str. 090212
AB506811.1 gg_id:429905 Vibrio harveyi str. KO-1
AB506812.1 gg_id:394822 Vibrio harveyi str. KO-2
GQ327950.1 gg_id:544280 Vibrio harveyi str. 090625
AB512473.1 gg_id:573785 Vibrio harveyi str. AM15
FJ937908.1 gg_id:556363 Vibrio harveyi str. LS76
X74693.1 gg_id:9214 Vibrio harveyi str. ATCC 35084T
AF134581.1 gg_id:9215 Vibrio harveyi
GQ406758.1 gg_id:524766 Vibrio sp. str. PaH2.13D1
AY254041.1 gg_id:82765 Vibrio hispanicus str. LMG 13211
U46579.1 gg_id:9286 Vibrio scophthalmi str. CECT 4638; A089
AB257339.2 gg_id:196408 Vibrio kanaloae str. Do-155
AB257330.2 gg_id:175599 Vibrio kanaloae str. Do-40
DQ068937.1 gg_id:128196 Vibrio metschnikovii str. ATCC 7708
AY837747.1 gg_id:141151 Vibrio metschnikovii str. CCUG 49718 E2.5
X97987.1 gg_id:9174 Vibrio sp str. VI737/19
X74719.1 gg_id:9170 Vibrio orientalis str. ATCC 33934T
DQ978991.1 gg_id:198609 Vibrio sp. S-10
DQ978993.1 gg_id:196541 Vibrio sp. S-12
GQ406597.1 gg_id:528119 Vibrio sp. str. PaD1.29
GQ406593.1 gg_id:517204 Vibrio sp. str. PaD1.21b
NR_029344.1 gg_id:559028 Vibrio pectenicida str. Ifremer A365; CIP 105190
AJ514914.1 gg_id:104376 Vibrio fortis str. LMG 21559
AF124055.3 gg_id:202555 Vibrio aerogenes str. FG1; CCRC 17041; ATCC 700797
FJ176463.1 gg_id:553847 Vibrio sp. str. J-S2-8
AF462458.1 gg_id:47306 Vibrio ruber str. VR1; JCM 11486; CCRC 17186
EU854910.1 gg_id:342299 Vibrio sp. 6C7
FJ952776.1 gg_id:421759 Vibrio sp. str. 2ta10
AJ345063.1 gg_id:94006 Vibrio hepatarius str. LMG 20362
GQ889354.1 gg_id:548764 Vibrio sp. str. Mj2
AB470936.1 gg_id:548949 Vibrio sp. str. r11
X99762.2 gg_id:9228 Vibrio diabolicus str. HE800
DQ273663.1 gg_id:141489 Vibrio mangrovensis str. MSSRF10
DQ847123.1 gg_id:161711 Vibrio rhizosphaerae str. MSSRF3

X74706
AY0469
AB5124
FN5546
AY3325
DQ995
GQ901
GU262
AB5068
AB5068
GQ327
AB5124
FJ9379
X74693
AF1345
GQ406
AY2540
U46579
AB2573
AB2573
DQ068
AY8377
X97987
X74719
DQ978
DQ978
GQ406
GQ406
NR_029
AJ5149
AF1240
FJ1764
AF4624
EU8549
FJ9527
AJ3450
GQ889
AB4709
X99762
DQ273
DQ847

71.5	3433.4	3927.4	5267.7	4420.9	4247.4	4445.3	5285.0	5219.2	4258.4	4456.9
78.7	1866.8	2320.9	2154.9	1638.8	2195.4	1994.0	3033.7	2217.7	3830.7	1789.5
79.7	1700.0	2240.1	1960.5	1463.6	2024.3	1765.4	2908.3	1884.6	3535.9	1583.4
8919.9	5481.3	5908.3	5950.4	6158.9	5516.4	5487.8	6047.3	9931.4	8140.0	6212.8
71.6	1906.5	2242.4	1931.7	1359.6	2256.9	1906.7	2722.3	2206.7	3589.1	1752.4
4229.4	1600.4	1646.6	1634.0	1623.2	1613.5	1512.6	1833.8	2372.3	2435.1	1897.3
46.0	552.0	782.0	693.7	886.4	516.6	766.6	650.9	359.6	807.9	302.2
40.4	340.9	559.1	600.6	225.6	355.1	226.3	495.3	373.5	940.3	197.4
244.9	2083.4	2516.1	2432.9	2278.5	3034.4	1810.8	2940.0	2100.5	4613.9	1705.1
108.2	1535.2	2050.4	2027.7	1351.0	1806.1	1801.0	2602.2	2036.9	2963.5	1493.2
88.2	2230.6	2781.3	2608.6	2114.3	2588.9	2263.6	3662.9	2362.4	4858.9	1873.1
147.4	2339.8	3054.0	2729.9	2008.2	2772.4	2663.3	3815.3	2678.2	4568.1	2168.5
44.9	147.2	160.5	166.8	282.8	157.8	304.2	171.9	84.1	93.8	78.9
56.5	2020.5	2557.9	2391.5	1685.9	2698.9	2002.0	3288.4	2256.6	4612.7	1908.2
697.2	2318.4	2607.5	2570.9	2286.6	2693.6	2167.9	2488.7	4477.6	4259.9	2045.9
6039.2	6466.3	6216.9	7353.4	6906.6	7710.0	6620.9	8659.9	10051.4	9803.6	7518.8
4160.6	2762.2	2878.6	2977.6	2847.6	3030.8	3076.2	3305.8	3840.8	2417.3	2710.3
443.2	1664.2	2028.5	1862.5	2237.9	1866.7	2625.8	1725.6	1038.5	1654.8	1341.8
1124.4	3747.4	3956.9	3339.9	3693.8	4385.9	4256.0	4057.2	6852.6	4789.6	4564.1
167.6	3661.0	4075.2	3423.4	4068.0	4792.1	3939.9	4510.4	7934.0	6698.4	3726.8
453.7	3616.1	4606.9	4685.6	3399.2	4402.1	4963.4	4899.6	4392.6	5256.8	2926.2
172.9	1975.5	2282.0	2590.7	1952.9	2716.1	2080.3	2751.5	2201.2	3530.2	1644.1
156.2	1646.4	1809.1	2181.3	1708.2	2687.9	1337.2	2111.6	1377.2	4299.2	1143.7
203.5	694.3	946.7	835.2	1785.0	908.0	1081.2	1505.8	359.0	301.4	399.7
3538.5	3584.2	4077.3	3540.8	4252.8	4035.3	3889.6	4860.8	4416.2	3808.8	4223.0
49.1	1310.7	1584.8	1648.3	2469.6	2097.5	1738.2	2753.6	1658.7	2017.0	1382.3
8355.2	3639.7	3779.9	3901.5	4028.9	3518.2	4558.0	4543.8	3778.3	5506.8	4179.9
5787.2	4452.5	4507.1	4924.2	3941.5	5677.3	3232.1	5422.0	4669.7	7752.2	4010.9
265.8	3017.7	3853.0	4253.9	3245.8	6413.1	1083.2	4442.8	2837.5	10054.4	2185.3
84.7	2179.4	2925.0	2516.9	2692.0	3245.7	2829.6	4381.0	2975.4	4714.6	2610.5
6716.2	3161.1	4317.1	4187.3	4710.0	5630.3	3598.2	5565.1	3952.1	7399.6	3259.0
3095.9	3837.7	4458.9	5036.2	5099.0	4727.6	4930.1	4903.8	3714.1	6873.1	4161.4
9659.5	4537.3	4099.4	4381.4	4196.8	3803.4	4397.6	3890.0	3907.6	5174.6	4733.2
2080.7	6306.9	6478.6	7772.4	6413.5	6998.5	7348.6	7755.3	5509.1	11718.5	8483.7
74.1	1534.4	2304.4	2248.1	2197.9	1612.8	1527.9	2959.7	1733.1	2331.3	1330.2
116.1	646.2	733.0	771.5	732.3	814.3	644.8	988.4	551.4	1071.5	334.1
374.2	5135.9	4602.1	4862.1	4085.1	5180.2	2251.5	6892.9	4225.4	8113.7	3836.3
57.5	1532.9	1652.5	1765.0	1746.4	2030.5	1212.5	1875.1	871.6	1628.9	667.7
35.4	191.4	330.4	324.2	237.4	210.7	128.1	219.7	219.8	305.0	107.0
44.5	716.9	952.8	882.1	920.3	1532.3	776.3	831.3	356.4	1686.7	451.6
10254.0	2521.4	2289.2	2257.3	2920.3	2223.3	4060.7	2325.3	3660.8	2876.5	2577.3

4382.9	6258.4	3081.3
2529.6	2606.0	1431.3
2309.8	2531.3	1280.5
5257.7	6262.0	5106.0
2280.4	2246.6	1172.4
1711.3	2544.6	1527.6
767.0	935.3	721.5
607.1	653.4	232.3
2651.7	3128.7	1790.8
2182.5	2824.4	1593.5
2873.5	3318.8	1549.6
3218.4	3356.8	2158.6
113.3	174.6	237.7
3071.4	2890.8	1427.2
2818.9	3039.8	2597.3
7452.2	7615.1	5489.7
2709.3	3845.6	2572.5
1922.4	2025.3	1743.9
3920.5	4580.8	3142.0
4456.1	5020.8	3023.5
5498.5	5598.5	4792.9
2873.1	2802.6	2147.7
2769.2	2753.3	1426.8
802.6	863.9	999.7
2839.4	4412.5	3604.3
1710.1	1606.1	1449.5
3759.5	4340.7	3623.7
5653.6	6260.3	4280.5
4622.2	6223.2	2499.3
3057.2	3607.9	2057.9
4941.7	6576.4	3180.3
4541.4	5554.5	4546.2
4201.3	5159.4	3849.5
7387.5	7682.5	7447.9
2037.2	2865.9	1559.8
805.7	1340.7	471.1
4873.8	5660.8	3289.1
1805.6	2345.4	1022.2
209.6	485.5	394.8
2232.4	1986.9	665.4
2378.0	3676.9	2917.2

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Vibrionales	f__Vibrionaceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae
o__Xanthomonadales	f__Sinobacteraceae

g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Vibrio
g__Hydrocarboniphaga
g__Hydrocarboniphaga
g__Nevskia
g__Nevskia
g__Nevskia
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__Vibrio orientalis	7514
s__Vibrio orientalis	7534
s__Vibrio ponticus	6605
s__Vibrio ponticus	7171
s__Vibrio ponticus	7573
s__Vibrio proteolyticus	6580
s__Vibrio proteolyticus	6826
s__Vibrio proteolyticus	7468
s__Vibrio rotiferianus	6524
s__Vibrio rotiferianus	7278
s__Vibrio rotiferianus	7507
s__Vibrio rumoiensis	6592
s__Vibrio rumoiensis	6995
s__Vibrio rumoiensis	7452
s__Vibrio shilonii	6265
s__Vibrio shilonii	7509
s__Vibrio sp. AND4	7193
s__Vibrio sp. Ex25	7325
s__Vibrio tapetis	6277
s__Vibrio tapetis	6645
s__Vibrio tapetis	6702
s__Vibrio tapetis	6934
s__Vibrio vulnificus	6301
s__Vibrio vulnificus	6715
s__Vibrio vulnificus	7228
s__Vibrionales bacterium SWAT-3	6550
s__Vibrionales bacterium SWAT-3	6663
s__Vibrionales bacterium SWAT-3	6933
s__Vibrionales bacterium SWAT-3	7145
s__Vibrionales bacterium SWAT-3	7147
s__Hydrocarboniphaga effusa	17330
s__unclassified	16660
s__Nevskia ramosa	16003
s__unclassified	16199
s__unclassified	17403
s__unclassified	16042
s__unclassified	16143
s__unclassified	16233
s__unclassified	16378
s__unclassified	16689
s__unclassified	16788

X99761.1 gg_id:9233 Vibrio mytili	X99761
AF199438.1 gg_id:9197 Vibrio sp. str. DS40M5	AF1994
AY897206.2 gg_id:122102 Vibrio ponticus str. RP30	AY8972
DQ005880.1 gg_id:128085 Vibrio sp. str. A358	DQ005
AJ630102.1 gg_id:109158 Vibrio ponticus str. CECT 5870	AJ6301
AF513463.1 gg_id:60376 Vibrio proteolyticus str. PH8	AF5134
NR_026128.1 gg_id:554644 Vibrio proteolyticus str. ATCC 15338	NR_02
DQ995521.1 gg_id:190831 Vibrio proteolyticus str. A2G-5B	DQ995
FM204861.1 gg_id:368147 Vibrio rotiferianus str. LPD 1-1-11	FM204
FM204862.1 gg_id:357874 Vibrio rotiferianus str. LPD 1-1-24	FM204
FM204858.1 gg_id:357595 Vibrio rotiferianus	FM204
AY332407.1 gg_id:227760 Vibrio rumoiensis str. UDP1	AY3324
EU123937.1 gg_id:342373 Ulcerative enteritis Homarus americanus: case report and intestinal aerobic apparen	EU1239
DQ530292.1 gg_id:234292 Vibrio rumoiensis str. LAR3	DQ530
EF584027.1 gg_id:229162 Vibrio sp. str. BS11	EF5840
AY911395.1 gg_id:112524 Vibrio shilonii str. SW-2	AY9113
NZ_ABGR01000018.1 gg_id:238096 Vibrio campbellii str. AND4	NZ_AB
FJ176450.1 gg_id:570249 Vibrio natriegens str. T-C2-11	FJ1764
AY800101.1 gg_id:255891 Vibrio tapetis str. HH6087	AY8001
FN554604.2 gg_id:548927 Vibrio tapetis str. HJ4	FN5546
AY800099.1 gg_id:255639 Vibrio tapetis str. UK6	AY8000
AY129278.1 gg_id:78597 Vibrio tapetis str. LP2	AY1292
EF546255.1 gg_id:277789 Polymorphisms Vibrio vulnificus clone 03_C01	EF5462
EF546280.1 gg_id:279479 Polymorphisms Vibrio vulnificus clone 05_C08	EF5462
GQ392008.1 gg_id:527025 Vibrio sp. str. PaD2.27	GQ392
AJ515220.1 gg_id:69396 Vibrio splendidus str. LMG 10952	AJ5152
NR_025480.1 gg_id:547832 Vibrio chagasii str. R-3712; DSM 17138	NR_02
AJ515219.1 gg_id:74459 Vibrio splendidus str. TNNIII7	AJ5152
AJ515218.1 gg_id:56555 Vibrio splendidus str. TNEMF6	AJ5152
FJ457370.1 gg_id:545463 Vibrio sp. str. S1132	FJ4573
AY363245.1 gg_id:94021 Hydrocarboniphaga effusa str. AP103; ATCC BAA-332	AY3632
EU313812.1 gg_id:256598 Hydrocarboniphaga sp. str. B2-9	EU3138
AY102326.1 gg_id:65459 heavy metal-contaminated soil clone a13128	AY1023
GU205299.1 gg_id:516554 unusual Microbial Venezuelan Tepui (Orthoquartzite) Cave: Dominance Chloroflexal	GU205
FJ466262.1 gg_id:546919 and carbon monoxide-oxidizing across successional on recent Hawaiian 1959 Kilauea	FJ4662
AB257720.1 gg_id:158622 Panacagrimonas perspica str. Gsoil 142	AB2577
GQ389062.1 gg_id:536669 quality deterioration drinking system during serious red water outbreak clone S18	GQ389
EU328045.1 gg_id:278173 dynamics during bioremediation crude oil contaminated moderate saline soil clone B	EU3280
GQ389123.1 gg_id:575267 quality deterioration drinking system during serious red water outbreak clone S76	GQ389
AJ867659.1 gg_id:109705 melted-ice water clone JFJ-ICE-Bact-31	AJ8676
GQ389067.1 gg_id:538784 quality deterioration drinking system during serious red water outbreak clone S22	GQ389

1217.1	2592.5	2984.1	3328.0	3082.3	3304.5	3310.4	3292.7	2782.6	5346.2	1594.8
1577.8	1035.1	929.7	993.1	1102.9	1004.2	1209.4	1246.0	646.0	596.2	302.9
198.9	783.7	885.7	890.2	1615.4	1138.1	904.2	960.1	392.0	431.2	396.8
31.5	53.5	48.8	30.7	31.1	46.7	43.1	52.2	33.4	21.5	34.0
276.1	858.7	1420.7	1242.7	1359.0	1129.4	1253.4	1252.0	799.4	1575.3	564.0
39.5	467.3	729.8	805.7	563.1	1294.9	349.0	727.7	346.1	2947.1	366.0
48.9	2707.1	3257.3	3100.6	3000.6	3171.6	3246.9	3475.1	2694.3	3783.9	2481.0
1690.1	2118.0	2585.6	2850.0	2217.6	2594.6	2634.0	3469.8	3580.7	3468.4	2289.1
538.4	2609.1	3047.0	3127.8	3044.8	3539.2	2941.1	4262.5	2951.4	3646.4	2332.1
554.0	1020.0	1264.5	1303.3	1537.5	1409.5	1248.1	1477.9	890.9	858.7	657.3
557.2	1083.8	1339.4	1417.3	1476.9	1516.8	1232.9	1562.1	975.2	1124.2	707.6
46.8	1384.3	1384.2	1081.7	1521.6	1498.0	1490.7	1722.5	1048.9	2051.0	2473.8
246.3	3802.0	4280.6	4249.9	5014.2	4839.7	4395.1	5200.8	4081.1	4470.8	5353.6
137.5	3758.6	4043.5	3503.2	4016.3	4197.0	3957.5	4829.9	3062.6	6452.4	6702.6
108.4	1479.3	1537.6	1485.9	3165.5	1767.0	2579.8	1351.8	1257.5	1369.9	831.1
44.5	1450.5	1705.3	1758.9	2875.8	2070.6	2341.6	1493.9	952.2	1307.8	767.4
87.1	1585.1	2213.4	1885.0	2660.1	1890.2	1261.8	3159.8	1829.2	2120.3	1718.2
538.5	2333.9	2931.1	2910.3	3014.6	2910.2	2753.0	4302.9	2552.5	3583.4	2128.1
16816.9	8412.8	7993.8	8984.1	9122.1	8115.9	9837.6	8594.7	9893.7	11299.8	8975.0
11763.8	4617.6	4620.6	4597.7	7640.4	4669.7	5790.5	3628.4	4164.2	4324.6	4477.5
1772.3	7595.8	8266.3	8712.0	12562.5	7980.3	11368.0	8076.1	6893.0	9762.6	7137.1
122.6	2318.0	3621.0	3433.6	3228.0	3507.5	1959.5	3974.6	3106.0	2702.5	1686.8
3027.1	4070.1	4713.0	5192.5	4453.3	5362.2	4018.6	5373.1	5102.2	8743.0	5149.7
97.0	1083.0	1194.4	1285.9	1005.5	1333.5	949.7	1668.8	916.2	2294.8	620.0
220.7	2992.7	3897.1	3800.0	3454.9	4056.4	4079.2	4922.3	4613.6	2783.9	2673.7
80.3	1950.2	2362.7	2576.6	2253.4	2274.2	2394.1	3349.1	2526.0	2944.8	1673.7
84.2	1958.2	2364.0	2534.7	2309.8	2235.5	2228.8	3082.6	2906.1	2738.6	1661.3
11856.5	3193.2	4659.1	4815.9	4979.4	4230.9	4663.5	4990.4	7740.8	6356.7	5397.9
173.1	1066.8	1055.4	842.5	844.1	1049.9	684.9	1020.0	667.0	802.5	554.4
55.3	1102.2	1607.9	1778.8	3473.4	1805.8	3509.8	2500.3	528.0	1420.0	665.4
48.3	94.7	122.1	118.0	132.2	181.9	97.0	155.9	48.9	359.7	57.5
1221.3	4225.5	5943.9	6192.1	3610.2	5044.6	5947.9	6096.5	6047.2	5096.3	6289.1
5537.8	6401.8	7687.4	8341.0	8047.5	7073.3	7896.8	6963.9	5340.8	7612.3	8793.2
3762.2	5086.4	5349.3	5668.8	6608.9	4788.2	6977.6	5767.1	4222.9	2943.9	5347.7
7261.8	5159.9	5462.8	6291.4	6317.7	5056.0	6473.6	5684.2	4568.4	2941.7	5371.0
124.8	442.0	382.1	421.4	320.6	424.0	360.0	350.8	172.9	200.0	263.8
2864.1	3494.5	3591.3	3626.1	3196.5	3388.0	4140.6	3316.7	4063.6	3311.4	3150.9
947.9	4991.5	4852.2	5080.0	5853.5	4756.3	5680.6	5317.7	2897.3	3746.3	4160.4
2586.7	5642.7	5409.6	7591.5	6668.4	5775.3	7502.4	5641.9	3557.2	4289.3	4433.7
1133.8	2182.0	2752.7	2846.5	3174.3	2467.5	2778.6	3170.1	3356.0	1166.9	1457.1
377.3	2467.9	3336.8	3573.7	3731.1	2991.0	3419.1	3106.8	2093.5	1872.2	2346.8

3543.0	4651.7	2754.1
1056.8	1172.0	1009.3
799.0	1559.5	943.2
37.6	74.2	24.7
1261.5	2120.6	1242.3
1371.2	957.3	570.8
3128.3	3475.9	1896.4
3223.2	3288.9	1877.3
3883.5	4039.0	2732.4
1321.2	1863.7	1302.3
1425.9	2126.8	1259.9
1604.5	1450.9	985.1
5023.5	4829.4	4053.8
4246.2	3881.1	3336.8
1265.1	1939.8	1671.6
1317.4	1423.7	1617.7
1974.3	2521.4	1354.3
2754.7	3515.0	2870.5
7637.8	9369.6	6772.5
3911.2	5200.4	4306.7
8180.6	8222.1	8791.9
3502.8	3589.3	2441.1
5340.3	6142.7	3486.9
1201.8	2137.6	810.7
4342.0	4305.1	3532.5
3117.7	3277.7	2358.6
2871.4	3426.4	2037.0
4342.9	6574.9	4473.9
878.3	1816.4	536.9
1634.3	2775.4	1590.0
172.4	305.0	89.4
5914.9	6597.7	4413.6
8103.2	7863.1	8228.8
6677.9	6122.6	5962.6
4980.1	5238.7	5798.0
343.6	785.6	571.6
2798.9	4577.3	3282.4
5565.4	6161.4	5956.7
5034.3	4994.8	4777.0
3075.0	3330.0	2454.7
2782.2	3003.2	2630.9

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Solimonaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Solimonas
g__Solimonas
g__Solimonas
g__Solimonas
g__Solimonas
g__Solimonas
g__Solimonas
g__Solimonas
g__Aquimonas
g__Arenimonas
g__Arenimonas
g__Arenimonas
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dokdonella
g__Dyella
g__Dyella
g__Dyella
g__Dyella
g__Dyella
g__Dyella
g__Frateuria
g__Frateuria
g__Frateuria
g__Frateuria
g__Frateuria
g__Frateuria
g__Frateuria
g__Frateuria
g__Ignatzschineria
g__Ignatzschineria
g__Ignatzschineria
g__Ignatzschineria
g__Luteibacter

s__Solimonas soli	15913
s__unclassified	15934
s__unclassified	16067
s__unclassified	16158
s__unclassified	16413
s__unclassified	16968
s__unclassified	17110
s__unclassified	17271
s__unclassified	15938
s__unclassified	16487
s__unclassified	16786
s__unclassified	17010
s__Dokdonella koreensis	16704
s__unclassified	16040
s__unclassified	16192
s__unclassified	16255
s__unclassified	16281
s__unclassified	16513
s__unclassified	16667
s__unclassified	16860
s__unclassified	17175
s__unclassified	17392
s__Dyella ginsengisoli	17021
s__Dyella ginsengisoli	17397
s__Dyella japonica	17167
s__unclassified	16382
s__unclassified	17015
s__unclassified	17332
s__Frateuria aurantia	16282
s__Frateuria aurantia	16403
s__Frateuria aurantia	16835
s__Frateuria aurantia	17262
s__unclassified	16226
s__unclassified	16453
s__unclassified	16832
s__unclassified	17350
s__Ignatzschineria larvae	3670
s__unclassified	3546
s__unclassified	3815
s__unclassified	3883
s__Luteibacter rhizovicinus	16393

EF067861.1 gg_id:197220 Solimonas soli str. DCY12 EF0678
AB074648.1 gg_id:78370 pea aphid symbiont clone APe2_11 AB0746
GQ009435.1 gg_id:500228 Topographical and Temporal Human Skin Microbiome skin plantar heel clone nbw77 GQ009
EU542470.1 gg_id:269231 Effects chemical structure concentration on pathways microbial during dechlorinatio EU5424
GQ009794.1 gg_id:499871 Topographical and Temporal Human Skin Microbiome skin plantar heel clone nbw77 GQ009
AJ318170.1 gg_id:37497 waste-gas biofilter clone BIrii5 AJ3181
AM935172.1 gg_id:541995 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
GQ009827.1 gg_id:499839 Topographical and Temporal Human Skin Microbiome skin plantar heel clone nbw77 GQ009
AY544768.1 gg_id:101731 Aquamonas vora str. BPTSA20 AY5447
AF445723.1 gg_id:33015 travertine hot spring clone SM2D10 AF4457
AF445726.1 gg_id:18696 travertine hot spring clone SM2E10 AF4457
DQ239766.1 gg_id:143429 Rhodanobacter sp. str. CC-JY-1 DQ239
EF589679.1 gg_id:233714 Dokdonella koreensis str. NML 01-0233 EF5896
EU276578.1 gg_id:370138 -DGGE and Approaches Analyze Effect Agricultural Practices on Soil agricultural soil c EU2765
CU466843.1 gg_id:354759 Evry wastewater treatment plant anoxic basin clone CU466
EF516860.1 gg_id:223206 grassland soil clone FCPS392 EF5168
EF125947.1 gg_id:571774 Biofilm-reactor Based Enrichment Utilizing Oligotrophic Concentrations Acyl-homose EF1259
EU150285.1 gg_id:279341 acidobacteria and dry meadow soil Niwot Ridge LTER clone Ni_H08_DMDN EU150
EU708508.1 gg_id:293748 and Situ Quantification Arsenite Oxidizing Denitrifying Enrichment anoxic arsenite ox EU7085
AM981201.1 gg_id:266974 Dokdonella sp. str. PYM5-11 AM981
FJ971728.1 gg_id:462787 microbial autrotrophic denitrification granular sludge clone R1-B4 FJ9717
AB245362.1 gg_id:149239 Dokdonella ginsengisoli str. Gsoil 191 AB2453
AB245367.1 gg_id:146494 Dyella ginsengisoli str. Gsoil 3046 AB2453
EF191353.1 gg_id:199169 Dyella ginsengisoli str. LA-3 EF1913
AB110496.1 gg_id:102417 Dyemonas todaii str. XD10 AB1104
DQ451515.1 gg_id:156994 forest soil clone FAC76 DQ451
EU682683.1 gg_id:329236 Frateuria sp. str. VA24 EU6826
DQ378209.1 gg_id:154251 oil-polluted soil clone F47_Pitesti DQ378
AB091195.1 gg_id:105821 Frateuria aurantia str. IFO3247 AB0911
AB091196.1 gg_id:105973 Frateuria aurantia str. IFO3249 AB0911
AB091198.1 gg_id:106286 Frateuria aurantia str. IFO13329 AB0911
AB091194.1 gg_id:105669 Frateuria aurantia str. IFO3245 AB0911
AY792283.1 gg_id:120471 Humic Lake clone CrystalBog571C8 AY7922
GU458291.1 gg_id:522526 Dyella sp. str. ST6D GU458
AY913255.1 gg_id:114384 forest soil clone DUNssu037 (-2A) (OTU#012) AY9132
AY884571.1 gg_id:112345 Dyella soli str. BB4 AY8845
AJ252143.1 gg_id:47724 Schineria larvae str. L1/68 AJ2521
EU008091.1 gg_id:370121 Ignatzschineria sp. str. C2H18 EU0080
DQ337535.1 gg_id:148917 Schineria sp. CHNDP40 DQ337
AM397063.1 gg_id:170943 Schineria sp. str. S5 AM397
AJ580498.1 gg_id:99030 Luteibactor rhizovicina str. LJ96 AJ5804

5275.7	3656.3	3403.9	3816.8	4672.9	3491.0	4488.6	3723.6	4025.8	1439.4	2620.4
1881.6	6489.5	5621.1	5453.6	6159.3	5644.5	5599.9	4866.4	6778.3	6930.3	4649.6
10642.9	6194.2	6302.8	6209.9	5809.8	6421.9	6438.7	5548.9	9388.2	6492.4	8193.5
791.6	2838.4	3536.7	3865.5	3791.6	3618.0	4532.7	3580.4	4135.1	2819.2	2910.3
1451.9	2578.5	2837.2	2661.5	3805.2	2210.8	2513.1	2463.5	4563.7	1926.6	2071.2
7994.6	2743.2	2756.4	3405.2	4376.3	2842.1	3874.0	3701.3	2263.2	969.2	3225.9
3461.2	2799.5	4243.7	3814.9	4659.3	3651.3	4149.2	5249.9	4373.2	1580.7	3319.9
38113.9	10957.1	10275.3	11369.4	11297.8	9898.8	10986.6	9452.4	16715.1	11248.8	13762.3
77.8	735.5	825.2	808.7	1969.1	995.4	772.2	1273.5	471.1	720.6	1292.6
899.4	5531.8	5587.0	5972.4	7786.0	5010.9	6519.9	4917.9	3504.2	5223.1	3096.8
2504.1	8767.5	8194.8	8816.4	10993.2	7564.5	10568.8	7869.5	5967.6	5902.1	5753.3
1807.3	5729.2	5184.9	5914.4	8922.8	4459.8	7253.0	5313.4	3425.6	2707.3	4903.2
2111.4	2056.6	2268.2	2614.7	5102.0	2691.3	2621.6	2537.6	1331.8	1484.1	1823.0
1044.6	1120.5	1570.1	1296.9	1752.6	1219.3	1747.6	2119.4	1144.5	1441.5	1284.0
29.4	1071.6	1220.4	1356.8	6055.8	1432.5	1923.0	1943.1	532.8	414.4	1527.7
32.4	1781.9	1396.7	1821.7	4074.6	1739.8	4699.3	1646.4	701.2	231.0	692.1
132.6	77.9	210.5	170.7	138.4	74.1	56.1	171.2	147.1	55.8	67.9
3234.2	8143.7	8469.1	9339.5	9487.7	7486.0	9263.2	7399.1	6284.5	4166.0	9200.9
4548.4	2604.2	2916.0	3044.9	3480.8	2903.2	2952.5	2742.2	2074.5	2768.5	2657.6
4234.1	4743.3	4327.4	4557.2	5311.7	4295.8	6017.7	4258.7	1659.7	3377.5	3349.2
360.7	2881.3	3082.0	3277.5	3940.5	3132.9	4706.5	3079.9	1697.6	2057.7	2500.3
286.8	2609.2	2449.3	2898.3	5554.5	2598.4	5870.8	3044.5	1599.5	1902.4	1813.4
5223.3	7240.8	6754.5	7545.4	11233.4	6365.9	9679.1	6637.2	6480.2	6719.8	7010.9
13861.2	7595.3	8715.2	9104.2	10606.4	7788.5	10093.0	7719.5	7316.4	6260.8	8447.3
895.3	4220.4	3851.1	4068.3	4624.7	4518.0	3078.5	3798.2	4963.5	5588.5	3605.5
260.4	2934.4	3731.8	4011.7	3945.9	3169.5	3597.4	5000.5	2487.7	1276.9	2714.4
6922.5	5936.3	6997.0	7217.3	7584.7	6649.5	6803.8	6858.1	6904.3	8134.1	6194.0
3682.2	6904.6	7750.4	8606.5	9035.7	7301.4	9192.1	7344.6	7993.5	8582.0	8396.3
36295.7	12194.2	12674.7	14581.4	14243.0	11890.0	17007.9	12341.1	17306.6	15721.8	17732.9
4658.6	5717.0	5095.9	4819.3	4591.6	5504.4	4758.0	4472.4	5125.9	7762.9	5297.3
7157.0	5774.5	4856.4	3795.1	3407.0	4638.1	3366.3	3759.2	7724.5	6278.7	4965.4
22190.9	9293.3	8512.9	7818.7	7884.8	8277.7	9754.4	7134.9	11822.6	10823.4	10248.1
6181.6	8345.8	7538.5	8533.7	9349.9	8054.7	8754.0	8106.1	10439.3	11776.6	9098.9
139.8	3566.4	4252.2	2423.2	2622.8	3460.6	1862.0	2677.9	2784.9	4277.1	1236.1
10703.0	8786.8	8771.6	9168.4	8889.3	8249.3	9383.4	8580.9	9933.9	8786.0	11463.8
2976.3	9426.6	7228.1	4464.2	5464.2	7180.2	5175.5	4256.9	9139.2	7415.0	3301.8
987.0	1639.6	2444.5	2393.5	2024.2	2253.4	1571.3	2780.9	2381.7	2261.3	2040.9
435.9	1702.4	2465.0	2590.9	1876.7	2263.4	2099.1	2849.3	2277.0	1729.5	1733.6
17503.3	6443.1	6634.4	7773.4	8357.1	6744.4	6835.8	6950.3	5652.8	8466.6	8942.6
15635.9	9808.2	10286.1	11407.7	12773.9	10401.2	13179.0	11856.3	12173.4	8617.8	12539.4
11389.4	5436.7	5027.7	6324.3	8623.8	5493.4	7391.2	5638.2	4054.6	2439.6	5103.5

3094.2	4505.4	3600.8
5248.6	4738.5	6401.3
4999.8	7381.3	5627.0
3237.1	3460.1	3093.4
2034.0	3134.7	2055.6
3307.4	3338.6	3389.4
4927.0	4884.2	4786.5
9478.1	11241.1	9370.5
1767.3	959.2	853.9
5253.0	4945.8	4990.6
8418.1	6783.0	6913.1
5373.1	4777.8	4539.9
3011.2	3000.3	2608.5
1507.0	1713.5	1195.4
1365.8	1344.9	1632.3
2078.3	1531.6	2651.2
132.8	445.9	135.0
7147.0	8088.1	7379.8
2581.6	3639.6	2850.2
5264.6	3443.7	2614.3
3059.9	2962.3	3716.7
3285.5	2575.8	3109.0
8010.6	7010.5	8217.7
8457.1	8978.5	9676.0
4348.5	3288.1	5478.1
4321.7	3678.0	3628.3
7043.8	8049.9	7652.7
7578.4	8770.6	7728.1
12013.5	13023.8	12890.7
5036.7	4774.9	4871.3
3397.5	4168.9	3945.1
6753.5	8556.7	8365.8
8564.9	8092.2	7729.1
3141.9	2226.3	4899.3
9338.9	8960.8	8249.6
4267.2	3952.3	4502.3
2802.5	3355.0	1860.0
3212.7	2663.5	1999.3
7265.7	7415.8	6291.7
11160.5	11328.1	11294.2
5900.0	6392.2	6431.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Luteibacter
g__Luteibacter
g__Luteibacter
g__Luteimonas
g__Luteimonas
g__Luteimonas
g__Luteimonas
g__Luteimonas
g__Luteimonas
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Lysobacter
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas

s__unclassified	16544
s__unclassified	16560
s__unclassified	16886
s__Luteimonas mephitis	16261
s__Luteimonas mephitis	16349
s__Luteimonas mephitis	16562
s__unclassified	15984
s__unclassified	16989
s__unclassified	17335
s__Lysobacter taiwanensis	17157
s__unclassified	16030
s__unclassified	16038
s__unclassified	16221
s__unclassified	16234
s__unclassified	16402
s__unclassified	16495
s__unclassified	16606
s__unclassified	16679
s__unclassified	16734
s__unclassified	16764
s__unclassified	16770
s__unclassified	16791
s__unclassified	16802
s__unclassified	16819
s__unclassified	16847
s__unclassified	16861
s__unclassified	16980
s__unclassified	16991
s__unclassified	17037
s__unclassified	17094
s__unclassified	17104
s__unclassified	17154
s__unclassified	17207
s__unclassified	17243
s__unclassified	17305
s__Pseudoxanthomonas mexicana	16241
s__Pseudoxanthomonas mexicana	16907
s__Pseudoxanthomonas mexicana	17143
s__Pseudoxanthomonas taiwanensis	16460
s__Pseudoxanthomonas taiwanensis	17172
s__unclassified	15908

DQ984591.1 gg_id:242890 Mt. Nan-Jen litterfall clone IYF125 DQ984
DQ986460.1 gg_id:192082 Luteibacter sp. str. MDA0897 DQ986
DQ532183.1 gg_id:165763 Geographical Variation Microbial Burden and Spacecraft Assembly Johnson Space Ce DQ532
AB433628.1 gg_id:275651 Luteimonas mephitis AB4336
DQ337599.1 gg_id:146003 Luteimonas sp. CHNTR51 DQ337
AJ012228.1 gg_id:7793 Luteimonas mephitis str. B1953/27.1 AJ0122
AB246805.2 gg_id:150537 Luteimonas sp. str. Q-1 AB2468
AY500144.1 gg_id:104583 Luteimonas sp. H10 str. H10; AS 1.3529 AY5001
FJ750462.1 gg_id:510835 Luteimonas sp. str. EM0590 FJ7504
DQ323663.1 gg_id:146080 Lysobacter taiwanensis str. DD-1133 DQ323
AB299978.2 gg_id:258113 Lysobacter spongicola str. KMM 329 AB2999
AY599704.1 gg_id:101000 fungal ascocarp clone Cl-11-TB4-II AY5997
GQ003601.1 gg_id:506057 Topographical and Temporal Human Skin Microbiome skin alar crease clone nbu54h GQ003
GU361114.1 gg_id:524518 Lysobacter enzymogenes str. T226 GU361
EU440727.1 gg_id:557970 Soil are Changed Agricultural Practices agricultural soil clone Plot17-C01 EU4407
AY642571.1 gg_id:151984 and carbonate precipitation giant microbialites ly alkaline Lake Van Turkey microbiali AY6425
EF173350.1 gg_id:199667 Options situ remediation contaminated mixture chlorinated hydrocarbons hydrocarb EF1733
EU244029.1 gg_id:359969 16SrRNA probes river Leine sediment clone sls1316 EU2440
DQ191178.1 gg_id:140061 Lysobacter sp. str. GH 1-9 DQ191
DQ532277.1 gg_id:163869 Geographical Variation Microbial Burden and Spacecraft Assembly Johnson Space Ce DQ532
AM930380.1 gg_id:245194 Lysobacter enzymogenes str. 3.1T8 AM930
AY557615.1 gg_id:101503 Silanimonas lenta str. 25-4 AY5576
EU908051.1 gg_id:326693 Lysobacter sp. str. ZLD-17 EU9080
FJ674447.1 gg_id:520058 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6744
EU236311.1 gg_id:296150 Haliclona gellius: sponge and symbionts 13 m depth Pacific Ocean clone Hg1bA3 EU2363
DQ129253.1 gg_id:138668 microarray level air two cities Texas urban aerosol clone AKIW751 DQ129
EU800949.1 gg_id:353183 It's all ranking aquatic Delaware Bay NJ clone 2C229208 EU8009
AY599709.1 gg_id:101824 fungal ascocarp clone Cl-106-TB4-II AY5997
EU881196.1 gg_id:333628 Karst region natural restoration land soil clone KNR200711-002 EU8811
AJ534675.1 gg_id:75877 ground water deep-well injection disposal site radioactive wastes Tomsk-7 clone S15A AJ5346
AM111012.1 gg_id:140927 Lysobacter sp. str. 3070 AM111
AJ582198.1 gg_id:93932 soil near uranium mill tailings clone Gitt-GS-126 AJ5821
AB166878.1 gg_id:100144 Lysobacter sp. str. Dae16 AB1668
EU662609.1 gg_id:567662 Productivity- Chemolithoautotrophically Based Sulfidic Karst Systems floating microb EU6626
FN357197.1 gg_id:541979 Lysobacter capsici str. 10.4.5 FN3571
AB008507.1 gg_id:7875 Pseudoxanthomonas japonensis str. 12-3 AB0085
GQ480839.1 gg_id:537693 Pseudoxanthomonas mexicana str. L2 GQ480
AF273082.1 gg_id:41720 Pseudoxanthomonas mexicana str. AMX 26B AF2730
AM932276.1 gg_id:276970 Pseudoxanthomonas taiwanensis str. S22-49 AM932
AF427039.2 gg_id:72795 Pseudoxanthomonas taiwanensis str. CB-226 AF4270
GQ263885.1 gg_id:572981 Structure Simulated Level Waste Site simulated level waste site clone WC2_134 GQ263

564.9	2980.0	2900.3	3091.3	4496.7	2796.2	3329.7	2841.4	1225.8	1199.0	2969.0
4081.8	6458.1	5846.0	4532.7	6509.0	6048.8	5213.9	4300.8	5279.2	6345.3	3335.8
3685.3	4466.3	4345.1	4414.0	5819.3	4398.1	5195.3	4807.3	3700.8	2387.7	4506.6
4214.6	4906.9	4513.9	4667.9	7482.0	3575.9	5494.0	3307.4	3245.2	3077.4	3328.4
586.5	8894.0	7732.1	7579.3	10556.4	6811.8	8507.9	5855.6	7280.5	6169.0	6192.5
871.9	4618.9	4582.7	5995.8	7433.5	4552.6	6249.6	4099.0	2704.8	4275.8	2440.3
820.9	5085.6	4667.2	5857.1	7791.4	5399.9	5590.6	5103.9	3880.2	5321.6	3088.0
2896.3	6231.8	5964.2	6015.0	10987.0	5041.1	6272.1	3953.1	3765.8	2746.4	2880.0
2892.6	7257.8	6551.9	7307.8	10411.3	6519.6	7911.6	5810.5	5518.4	3729.6	4698.3
40.0	331.6	409.5	648.6	2383.5	424.6	519.7	548.7	73.5	157.5	177.9
1352.8	6680.3	6011.8	7051.6	9117.9	5761.4	8018.0	6241.6	4047.7	5502.8	5883.1
4193.9	2279.6	2532.0	2650.6	1951.2	2584.3	1794.0	2422.4	2321.8	1774.1	1647.7
570.0	4687.0	4609.0	5234.2	8390.6	4195.5	6758.5	4845.9	2847.5	3176.5	2947.0
1185.1	8375.4	8172.8	9903.6	12548.0	7924.3	9941.4	6276.1	4752.3	9274.2	6875.3
263.4	5395.7	4589.0	5558.1	9562.7	4196.4	7016.6	4361.9	2468.9	2553.7	2761.7
109.7	1048.3	1307.0	1441.2	1691.7	1039.8	1510.4	1257.0	551.6	340.7	507.2
1453.8	4750.9	3966.4	3692.6	7252.5	5331.5	4238.8	5214.7	1922.2	4226.7	5832.7
61.1	1973.0	2346.1	2710.9	4345.2	3661.1	6836.1	2286.5	962.9	2579.6	1064.9
1833.8	5017.8	5123.2	5519.8	6568.1	4479.9	6273.4	5736.9	3698.4	3293.3	3647.8
1294.3	7025.1	6462.8	7734.1	10790.1	6173.0	9128.5	5461.9	4330.8	6261.6	5595.7
7055.7	10256.4	12059.4	12284.4	12951.6	10740.4	12325.5	10033.2	17567.3	9952.5	11727.0
4211.3	7950.9	6575.4	7944.6	11383.9	6364.5	9425.1	7305.6	5697.0	6910.6	7288.8
2807.3	4675.2	4835.3	5638.5	7219.2	5278.7	6030.9	5383.2	4004.1	6719.1	4361.5
132.3	5244.2	4962.1	5349.9	7467.4	4747.6	6283.0	4314.9	3195.9	4976.5	3312.3
135.9	3850.5	3755.7	4099.0	6052.7	3904.3	4499.6	4112.3	3008.2	3719.7	2297.3
444.4	5083.7	4702.9	5208.4	7189.0	5078.4	5283.7	4306.3	3264.9	5552.1	4037.0
2951.3	3526.6	3592.9	3467.1	5040.0	3736.7	3371.6	4460.0	2427.4	2433.2	4573.1
2822.5	7155.6	6590.1	8005.5	10606.1	7544.2	8439.8	7438.1	6478.0	8106.1	7359.2
2272.2	3260.4	2578.6	3008.8	5515.7	2880.9	5453.4	3440.8	1915.0	2387.5	2177.4
13618.2	5827.1	5866.8	6371.0	8761.0	6613.4	6988.2	6411.1	4841.1	5887.8	6137.0
3205.5	5324.3	4494.8	5456.3	7571.0	4879.2	5604.6	6631.6	3494.8	4462.4	5127.0
293.7	4672.3	4250.7	5790.0	6814.9	4797.1	5948.1	4327.5	2257.4	5426.9	3016.4
98.2	2149.3	2258.2	2384.7	3990.9	3235.1	2990.8	2070.2	545.9	2025.1	1012.3
3060.0	5376.1	5123.9	5025.2	7884.9	5480.9	7185.9	6398.5	3372.9	3500.1	7596.7
57.7	2220.7	2194.3	2520.1	4460.7	2191.5	4226.4	1962.0	319.1	1474.9	576.8
16127.8	10092.1	10625.5	11058.3	12218.4	10295.6	11881.0	9160.8	10400.7	10857.6	9843.5
120.4	3094.2	2599.0	2823.9	5072.5	3432.6	4625.3	2628.1	1308.6	2709.5	1241.3
244.2	4109.9	4397.3	4644.5	8219.3	3719.8	6237.0	3820.0	1781.9	3550.7	2251.4
3348.8	2960.4	2557.5	2908.3	5079.5	4867.1	3842.4	3033.7	2307.9	6434.9	1376.4
35.2	576.6	380.5	510.4	994.7	797.8	407.4	312.9	270.8	1061.0	117.4
2393.9	4575.8	4402.3	4419.0	5869.5	5587.1	6103.4	5032.1	4611.0	8671.4	5281.4

3519.3	3897.2	3771.4
4850.4	3637.4	5282.6
4551.1	4913.0	4490.6
3929.3	4381.1	2770.0
7170.6	6045.8	5919.2
5059.9	3518.3	2758.6
6195.6	4061.9	3070.7
4244.1	3813.5	3459.4
5728.7	4970.9	5389.3
444.7	296.6	695.3
6371.5	5203.0	4007.8
2812.7	2511.3	2058.4
5600.1	5022.3	4539.2
8314.0	5964.9	5219.4
5618.5	3887.1	3656.6
769.6	1625.5	956.1
4812.4	3417.4	3314.1
3726.9	2805.4	2544.4
6836.1	4900.4	4615.3
6636.8	5525.9	4190.8
9269.8	11491.9	11134.4
7039.3	5908.3	5136.7
5806.9	6561.9	4792.5
5269.4	4823.8	3698.7
4620.6	4586.8	4367.8
4636.5	4762.0	3596.3
3615.7	3092.4	2958.2
10390.9	7233.9	6001.2
3477.2	2929.9	3668.4
6186.6	6148.4	6306.3
5543.5	4902.3	3574.9
4085.9	4766.0	3106.3
2892.0	2186.0	2545.3
4583.0	5017.3	5606.0
2331.3	2322.2	1571.6
11616.3	11117.7	10512.0
3965.2	2607.4	1936.5
4703.4	3259.7	2540.8
4454.0	3633.6	3068.8
370.2	269.6	363.8
6062.2	5802.5	5084.5

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Pseudoxanthomonas
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter
g__Rhodanobacter

s__unclassified	15964
s__unclassified	16187
s__unclassified	16573
s__unclassified	16736
s__unclassified	16783
s__unclassified	16807
s__unclassified	16816
s__unclassified	17086
s__unclassified	17108
s__unclassified	17112
s__unclassified	17336
s__Rhodanobacter lindaniclasticus	16053
s__Rhodanobacter lindaniclasticus	16570
s__Rhodanobacter lindaniclasticus	17116
s__Rhodanobacter lindaniclasticus	17192
s__Rhodanobacter lindaniclasticus	17266
s__unclassified	15920
s__unclassified	15940
s__unclassified	15973
s__unclassified	15996
s__unclassified	16076
s__unclassified	16099
s__unclassified	16140
s__unclassified	16340
s__unclassified	16366
s__unclassified	16376
s__unclassified	16404
s__unclassified	16626
s__unclassified	16649
s__unclassified	16772
s__unclassified	16900
s__unclassified	16908
s__unclassified	17004
s__unclassified	17028
s__unclassified	17078
s__unclassified	17150
s__unclassified	17219
s__unclassified	17310
s__unclassified	17327
s__unclassified	17357
s__unclassified	17359

DQ984597.1 gg_id:246060 Mt. Nan-Jen litterfall clone IYF77 DQ984
GQ263865.1 gg_id:554529 Structure Simulated Level Waste Site simulated level waste site clone WC2_11 GQ263
GQ263804.1 gg_id:561211 Structure Simulated Level Waste Site simulated level waste site clone WC1_b45 GQ263
GQ263736.1 gg_id:539166 Structure Simulated Level Waste Site simulated level waste site clone WC1_a52 GQ263
AY686710.1 gg_id:99791 Pseudoxanthomonas johnstonii str. JA40 AY686
AB271140.1 gg_id:165390 Pseudoxanthomonas suwonensis str. MX8-2 AB271
GQ264214.1 gg_id:532909 Structure Simulated Level Waste Site simulated level waste site clone WW1_a91 GQ264
EU589254.1 gg_id:276619 China Ningxia rice paddy field soil clone 1_A10 EU589
AM418384.1 gg_id:191835 Pseudoxanthomonas spadix str. IMMIB AFH-5 AM418
AB245360.1 gg_id:149042 Pseudoxanthomonas ginsengisoli str. Gsoil 175 AB245
AJ581600.1 gg_id:93887 soil near uranium mill tailings clone KCM-B-65 AJ5816
DQ419968.1 gg_id:155699 Frateuria sp. DM-HM DQ419
DQ370020.1 gg_id:154977 Rhodanobacter lindaniclasticus str. czh-131 DQ370
AY495959.1 gg_id:101644 Frateuria sp. str. WJ69 AY495
AF312216.1 gg_id:28808 South Africa: KwaZulu-Natal Province Pietermaritzburg clone Y14-2 bacterium AF312
AY081991.1 gg_id:68655 atrazine-catabolizing microbial absence methanol clone KRA30-20 AY081
GQ047745.1 gg_id:430929 Topographical and Temporal Human Skin Microbiome skin retroauricular crease clor GQ047
EU818793.1 gg_id:354823 Rhodanobacter sp. str. LQ-2 EU818
DQ837296.1 gg_id:256803 Archaeal and pristine National Park Spain Donana coastal aquifer clone 49S1_1B_51 DQ837
EF166075.1 gg_id:196704 Rhodanobacter ginsengisoli str. GR17-7 EF166
FJ167498.1 gg_id:305737 microbiology granular sludge under autotrophic mixotrophic and heterotrophic denit FJ1674
GQ250431.2 gg_id:593647 Rhodanobacter sp. str. MJ01 GQ250
AY218756.1 gg_id:81132 penguin droppings sediments clone KD6-20 AY218
GU134907.1 gg_id:582647 Acid-tolerant microaerophilic oxdizing enhance Fe(III) accumulation Fe(II) oxidizing e GU134
AY218745.1 gg_id:81880 penguin droppings sediments clone KD6-1 AY218
AY218667.1 gg_id:81461 penguin droppings sediments clone KD9-36 AY218
AY188308.1 gg_id:79780 marine? clone KD3-82 AY188
AB286179.1 gg_id:182472 Rhodanobacter thiooxidans str. LCS2 AB286
AB100608.1 gg_id:79383 Swingsiella fulva str. Jip2 AB100
DQ125745.1 gg_id:133703 uranium contaminated soil clone AKAU3857 DQ125
EF166076.1 gg_id:192094 Rhodanobacter terrae str. GP18-1 EF166
EU332829.1 gg_id:256674 Rhodanobacter sp. str. LnR5-47 EU332
DQ125806.1 gg_id:133317 uranium contaminated soil clone AKAU3949 DQ125
AY218740.1 gg_id:82238 penguin droppings sediments clone KD5-73 AY218
FJ538158.1 gg_id:560044 metagenomics study rice treated milk vetch and no-tillage paddy field soil clone MBM FJ5381
FJ405366.1 gg_id:359626 Rhodanobacter terrae str. SPg FJ4053
AY188317.1 gg_id:79298 penguin droppings sediment clone KD5-51 AY188
FJ466329.1 gg_id:511559 and carbon monoxide-oxidizing across successional on recent Hawaiian 1959 Kilauea FJ4663
AY218719.1 gg_id:81363 penguin droppings sediments clone KD7-89 AY218
EU196307.1 gg_id:253030 Rhodanobacter sp. NP47 EU196
AY218723.1 gg_id:81676 penguin droppings sediments clone KD5-100 AY218

1208.8	4615.1	3876.7	4079.9	4669.6	5232.0	4716.0	4246.7	2474.5	4194.3	3103.4
3396.1	4617.5	3895.3	3885.1	6479.6	5263.7	5789.4	4088.2	3905.2	5821.8	2618.6
10459.0	6769.7	6940.4	8037.4	8738.6	6670.2	7840.8	7711.1	9326.6	4873.2	7401.7
914.9	3617.9	3282.2	3529.8	5471.4	4548.8	4589.6	3856.0	3169.6	5245.9	2462.9
144.0	3104.2	2858.7	2951.1	4026.0	2434.5	3517.1	3047.6	2066.2	1642.1	2676.0
6123.1	6548.1	6218.3	7602.4	9349.3	8438.3	7883.8	6623.2	6718.4	11136.7	6217.2
2010.5	5095.4	4263.7	4309.0	7916.7	5701.9	6261.2	4551.2	3718.1	7252.8	2426.4
3228.7	6333.1	5906.9	6426.9	8975.8	6283.8	7713.6	5455.9	4345.1	6509.6	4944.4
2364.2	7623.8	6400.5	6538.2	7235.9	6808.0	7314.7	6880.1	5484.2	6172.1	6140.7
1326.7	7163.7	6104.2	6652.8	8876.2	7695.7	7682.4	6441.5	5099.9	8553.1	6000.3
5945.2	4096.2	3395.5	3621.7	3378.0	3788.3	4558.5	3742.3	3713.9	3405.1	3726.8
1981.4	3700.4	3904.3	3926.1	4891.5	3945.2	4341.8	3778.9	2453.2	4428.1	3153.4
1973.8	3145.6	4176.5	4184.4	4741.8	3582.1	4320.1	4287.4	3878.9	3219.1	3321.6
6725.2	5448.3	5610.1	5745.0	7278.3	6430.5	7623.7	6303.4	5861.4	7760.3	5386.2
102.9	341.2	502.5	386.8	630.8	417.5	393.4	508.3	249.5	143.7	214.2
33297.9	9386.6	10191.7	9879.3	9712.2	8758.5	9910.4	9789.2	15618.5	9994.7	15148.7
3889.0	7767.0	8174.4	7197.3	10299.2	6470.2	9658.3	7881.8	6186.8	6306.2	7660.3
2117.1	4559.6	5028.9	4980.9	6082.4	4781.6	4730.0	5612.9	3077.4	4436.1	4335.5
370.9	3542.8	4138.5	4165.4	5646.0	3695.1	4330.1	4208.4	3247.0	3934.9	3179.0
610.5	4434.0	4764.2	3554.1	4890.0	3598.9	4052.3	3817.2	3914.0	1990.5	2406.7
8545.5	5232.7	5518.4	5633.1	6102.5	4033.0	5589.3	4645.6	4034.3	4423.3	4166.2
1494.7	4611.7	3267.2	3935.7	4995.3	3801.4	5189.0	5009.6	2011.3	4622.1	2733.9
1227.0	3301.7	3272.0	4044.9	4119.6	3609.4	4369.8	3428.1	3656.1	5550.0	2798.7
213.3	2650.0	3978.9	3029.5	5336.0	2060.5	3553.9	3412.8	1497.8	938.3	1167.5
231.5	1087.7	1396.2	1433.5	1779.6	1254.1	1557.6	1400.0	766.6	1323.6	761.7
8418.6	5316.4	5415.2	6011.2	7868.5	4847.9	6173.7	5784.4	4286.7	4538.1	6014.7
5665.9	4587.9	4553.2	4399.0	3790.4	4464.5	3975.9	3945.5	3061.1	3822.2	3305.6
41.7	103.2	91.9	72.8	127.6	108.0	72.0	60.2	48.2	38.9	31.8
3147.6	5735.5	4457.8	5123.9	5756.9	5231.3	6711.5	5405.6	5790.3	6057.5	4914.7
438.4	2580.3	3305.7	3757.9	3687.4	3109.6	2949.9	6344.9	4001.1	2893.7	3309.9
2005.9	4029.1	4618.6	5182.0	6623.7	4855.3	5484.4	5346.2	4028.5	5152.9	3658.1
792.3	6398.3	6069.4	5656.4	8323.8	6092.4	6933.5	5860.5	5708.3	5093.1	3230.5
12713.7	6147.2	6530.2	6465.6	7069.5	5638.6	7705.9	5781.4	8806.8	4823.5	7444.9
423.6	6287.1	5987.0	7367.8	8251.9	5797.9	7783.6	5970.1	3971.4	3618.4	5211.2
373.2	4429.3	3847.5	4403.1	7306.7	3953.2	5844.0	3891.0	3013.7	5195.9	2788.1
59.4	1794.4	1724.5	1502.0	2023.2	1293.3	1570.2	1745.5	1004.7	600.0	1279.7
63.9	725.1	1614.1	2324.8	184.5	914.7	1370.6	2355.0	240.9	74.8	1824.4
470.4	2038.0	2548.6	2593.5	3667.0	2579.6	3026.0	2728.2	1273.1	3349.1	1511.4
8157.6	3397.0	3125.2	3861.5	3598.1	2947.1	3464.7	3116.4	5095.2	2984.6	6177.1
8501.5	5535.3	5791.7	4432.4	5722.1	4155.4	4670.5	5054.2	7181.0	4156.4	3640.8
176.4	2426.1	2467.4	2604.0	3576.4	2198.8	3602.2	3030.9	1925.5	866.2	1974.2

5667.2	4050.3	3647.6
4699.9	4432.3	3517.9
7910.7	8143.8	6529.1
4620.1	3828.9	2933.0
2573.8	2573.2	1685.6
8471.4	7800.5	7058.0
5874.7	5314.4	3590.8
6837.2	6227.0	4754.2
6861.4	6218.1	5529.1
9221.2	7010.5	5759.8
4418.9	4520.7	3769.6
4639.7	3858.1	4554.2
4217.0	3632.6	4204.0
6837.9	7203.1	6556.8
407.1	683.9	720.3
8743.0	11194.2	10073.5
10079.6	6247.8	8100.2
6067.7	5231.2	5385.4
4660.4	4543.1	5763.1
3726.9	3621.5	4643.8
5530.3	5798.8	5510.3
5101.4	4038.1	4465.8
3506.3	4003.8	3553.6
5340.7	2613.1	4055.5
1327.0	2089.5	1537.2
6081.4	5487.6	6418.0
3988.4	4772.2	4651.4
182.5	272.1	1290.0
5386.6	5082.0	4805.6
4804.9	4175.2	3844.5
5420.7	5429.8	6057.8
6243.3	5610.3	6776.6
5898.3	5731.8	6071.5
6688.8	6259.8	6403.4
5450.5	3238.8	5774.4
2391.1	1490.8	3135.2
594.2	315.6	386.3
3153.2	3299.1	4037.8
2759.4	4455.9	3151.8
5279.3	4886.3	5629.9
3006.9	2656.4	3592.6

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Rhodanobacter
g__Rhodanobacter
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas

s__unclassified	17383
s__unclassified	17413
s__Pseudomonas geniculata	16085
s__Pseudomonas geniculata	16121
s__Pseudomonas geniculata	16209
s__Pseudomonas geniculata	16268
s__Pseudomonas geniculata	16397
s__Pseudomonas geniculata	16496
s__Pseudomonas geniculata	16520
s__Pseudomonas geniculata	16522
s__Pseudomonas geniculata	16590
s__Pseudomonas geniculata	16636
s__Pseudomonas geniculata	16674
s__Pseudomonas geniculata	16862
s__Pseudomonas geniculata	16868
s__Pseudomonas geniculata	17056
s__Pseudomonas geniculata	17226
s__Pseudomonas geniculata	17322
s__Pseudomonas geniculata	17338
s__Stenotrophomonas acidaminiphila	17290
s__Stenotrophomonas acidaminiphila	17321
s__Stenotrophomonas koreensis	16049
s__Stenotrophomonas koreensis	16232
s__Stenotrophomonas koreensis	16367
s__Stenotrophomonas koreensis	16390
s__Stenotrophomonas koreensis	16424
s__Stenotrophomonas koreensis	16547
s__Stenotrophomonas koreensis	16936
s__Stenotrophomonas nitritireducens	17063
s__unclassified	15905
s__unclassified	15916
s__unclassified	15926
s__unclassified	15928
s__unclassified	15936
s__unclassified	15941
s__unclassified	15951
s__unclassified	15985
s__unclassified	16016
s__unclassified	16027
s__unclassified	16041
s__unclassified	16046

AF376025.1 gg_id:50262 Frateuria sp. str. NO-16 AF376
AY218606.1 gg_id:82101 penguin droppings sediments clone KD3-139 AY218
DQ230920.1 gg_id:143831 Stenotrophomonas maltophilia str. KB2 DQ230
DQ912806.1 gg_id:242976 Stenotrophomonas maltophilia str. ZX-PKU-003 DQ912
FM213382.2 gg_id:332451 Stenotrophomonas maltophilia str. MN6 FM213
AY641540.1 gg_id:100214 Stenotrophomonas maltophilia str. BK AY641
AY738260.1 gg_id:106659 Stenotrophomonas maltophilia str. TKW1 AY738
AB194323.1 gg_id:138821 Stenotrophomonas maltophilia str. BL-12 AB194
DQ192172.1 gg_id:139973 Stenotrophomonas maltophilia str. flds DQ192
AB299977.1 gg_id:224930 Stenotrophomonas maltophilia str. 26-3 (= KMM 3045) AB299
EU857419.1 gg_id:344187 Stenotrophomonas maltophilia str. BF-S6 EU857
EU239471.1 gg_id:239046 Pseudomonas geniculata str. XJUHX-9 EU239
EF102868.1 gg_id:245040 Stenotrophomonas maltophilia str. G-5-5-1 EF1028
DQ077704.1 gg_id:132159 Stenotrophomonas maltophilia FLX DQ077
DQ327729.1 gg_id:146179 Stenotrophomonas maltophilia str. DHHJ DQ327
EU239465.1 gg_id:243036 Pseudomonas geniculata str. XJUHX-2 EU239
EU239476.1 gg_id:257977 Pseudomonas geniculata str. XJUHX-18 EU239
FM213378.2 gg_id:314300 Stenotrophomonas maltophilia str. KJPB14 FM213
FJ976090.1 gg_id:426140 Stenotrophomonas maltophilia str. ATCC 53510 FJ9760
GU265557.1 gg_id:577388 Stenotrophomonas acidaminiphila str. BTY GU265
DQ864512.1 gg_id:170684 Stenotrophomonas maltophilia DQ864
EF174242.1 gg_id:192384 direct activated 1st maturation stage sludge clone B17-814 EF1742
DQ824702.1 gg_id:174317 human fecal clone RL185_aaj72a04 DQ824
DQ824618.1 gg_id:185994 human fecal clone RL185_aaj70e05 DQ824
FJ268981.1 gg_id:366073 unculturable rhizospheric soil Phragmites cummunis growing wetland ecosystem dist FJ2689
EU434427.1 gg_id:276010 Stenotrophomonas koreensis str. a197 EU434
DQ824602.1 gg_id:175201 human fecal clone RL185_aaj70c07 DQ824
DQ824541.1 gg_id:179102 human fecal clone RL185_aaj69d09 DQ824
AJ012229.1 gg_id:7812 Stenotrophomonas nitritireducens str. L2 AJ0122
FJ950643.1 gg_id:396619 Stenotrophomonas maltophilia str. c199 FJ9506
FJ405360.1 gg_id:360816 Stenotrophomonas maltophilia str. SPa FJ4053
DQ469587.1 gg_id:158226 Stenotrophomonas maltophilia Sm777 DQ469
FM178869.1 gg_id:310433 Acetobacter pasteurianus str. CCM 3606 FM178
AJ131782.1 gg_id:7817 Stenotrophomonas maltophilia str. LMG 10873 AJ1317
GQ268318.1 gg_id:589026 Stenotrophomonas maltophilia str. Y1 GQ268
AF511522.1 gg_id:65384 Stenotrophomonas maltophilia SaO5lg AF511
AJ293466.1 gg_id:39173 Stenotrophomonas maltophilia str. e-p20 AJ2934
AJ293469.1 gg_id:50487 Stenotrophomonas maltophilia str. c20 AJ2934
FJ347998.1 gg_id:334679 Stenotrophomonas sp. str. GGC-D7A FJ3479
EU239472.1 gg_id:253725 Pseudomonas geniculata str. XJUHX-10 EU239
EU779483.1 gg_id:349163 Hartmann's Mountain Zebra feces clone AFZEB_aaj71b07 EU779

5193.4	3903.8	4979.4	4167.2	4880.3	3690.1	4586.1	4508.2	4754.2	3295.9	4163.8
190.1	1759.1	1976.0	2039.5	1902.5	1948.8	1853.8	2003.9	1084.7	1728.9	1520.3
12563.4	6027.2	5289.3	6410.2	6832.7	8895.0	6095.7	5180.2	5228.2	12441.6	6107.1
3133.4	5244.4	6396.8	6545.1	5883.1	6414.2	5576.3	5171.4	7713.9	7376.2	5370.7
8903.4	7011.5	7367.0	9074.1	10314.2	9096.3	9185.9	7646.9	5730.4	10415.3	10135.2
53.4	1242.6	1011.8	1502.7	1821.0	5059.6	806.6	756.2	242.6	8424.4	339.7
3438.9	6363.8	5882.4	6883.3	6679.6	9489.8	6166.5	5718.3	5103.9	14506.9	6100.2
3339.6	4029.1	3669.3	4331.0	4826.5	7414.8	3687.3	3664.0	3405.5	10876.1	3530.9
1230.9	1563.5	1311.1	2157.8	2652.6	6184.7	1322.3	1126.8	628.4	9094.2	763.2
166.6	2427.6	2241.8	3363.9	3198.2	6099.6	2375.8	1739.3	1060.6	8950.7	1710.6
1411.2	3291.1	2998.3	3942.3	3926.1	7121.1	3059.7	2549.9	1933.6	10590.0	2469.3
299.0	3641.3	3118.5	3792.7	3229.6	6040.6	2818.1	3470.7	2446.6	8385.5	2955.4
58.8	3005.2	2827.2	3605.8	3495.5	5611.5	2614.4	2622.6	1656.0	8184.7	2188.6
768.8	4112.0	3347.7	4860.0	4542.5	7635.8	3866.1	3835.1	3386.4	10700.3	3076.4
8043.1	6166.0	6343.3	7834.7	7706.0	10229.2	6364.1	6267.3	8054.1	16498.1	5159.0
1728.6	4207.6	3849.2	5319.0	5021.3	5502.9	3524.8	4125.0	2931.8	7335.1	5164.3
1312.4	4202.5	4046.9	5017.4	4968.8	6495.0	3737.8	3866.4	2634.8	9614.2	3641.8
1617.5	4136.2	3835.0	4457.4	4736.7	7637.7	3827.3	3380.4	2912.0	10854.5	3383.7
4334.5	4845.0	4790.6	5115.5	6228.0	7161.8	5545.4	4665.2	4320.8	8812.4	3689.4
200.0	3965.9	3369.5	3631.9	5394.8	5055.9	3416.0	3003.3	1344.6	8318.7	2113.9
738.4	7802.1	9114.6	10446.5	9478.6	9721.4	8191.1	7829.1	7035.6	13698.1	8445.9
1803.4	6382.0	6931.1	8238.5	7967.7	7682.5	7237.2	6284.3	4245.2	9610.7	5733.6
1971.1	5054.2	5106.5	5970.6	5071.2	6166.0	4375.7	5260.5	5542.2	8480.7	6377.5
210.1	4009.8	3741.8	4908.4	6381.9	6409.1	3374.6	3906.4	3272.0	11990.9	5006.2
13270.1	3986.6	3340.5	3343.1	3457.5	3625.8	3534.9	3294.9	6690.4	5427.9	4281.7
3045.0	5011.7	4924.5	5392.6	5879.1	6363.7	6796.6	4553.2	6680.8	9223.8	4059.3
1963.9	5876.8	5833.0	5915.8	8470.3	5491.0	6128.2	5222.7	3940.6	5790.9	5708.3
2638.0	3118.3	2886.7	3461.4	4135.3	4513.2	3028.3	2636.9	1978.6	6072.8	2369.6
9414.1	8033.5	6863.8	8413.7	8384.2	8024.5	8146.7	6937.2	8278.5	9860.7	7983.2
1875.0	4297.4	4082.8	4617.6	5207.9	5490.2	3764.1	3482.7	3184.5	8634.0	3899.2
36.2	28.5	52.8	27.2	25.3	276.0	26.6	18.4	19.5	280.2	16.5
34.9	899.1	504.9	761.7	1092.7	4279.0	409.3	383.6	123.9	7458.1	208.2
1540.5	3970.2	3966.5	5112.9	4963.3	6661.3	4341.3	4974.9	3857.4	10449.5	3231.5
4168.8	6333.8	6230.7	7006.0	8182.9	8910.8	7435.6	6007.6	5014.9	13147.1	5355.9
1477.9	3377.4	2829.4	3597.7	4511.9	6018.0	2738.3	3467.2	2722.6	9508.8	2474.7
122.8	1594.6	1841.0	1972.7	2022.7	3019.2	1774.7	1922.6	1449.7	5737.7	1701.1
726.9	2815.1	2713.1	3561.6	4414.6	6052.5	3955.0	3098.7	2879.5	9896.6	1464.0
30436.6	7799.3	6892.6	7879.2	8316.4	9859.3	7975.5	7094.9	9369.9	13525.4	9451.6
890.5	4038.9	3796.3	4531.8	4327.4	7531.4	3471.5	3466.5	2882.6	11059.3	3749.5
1309.1	3790.8	3390.9	4032.4	4321.9	6780.3	2951.9	3489.1	2476.1	10206.0	3080.2
126.0	2306.2	2842.8	2714.8	3339.3	3860.2	1304.9	4200.0	2270.3	3460.8	2314.9

4333.8	4900.8	5358.5
2012.3	2475.9	3444.0
6571.2	6124.8	4836.2
5180.4	8070.9	5644.9
8849.1	8305.0	7108.4
4021.1	1098.4	548.2
8409.4	6019.1	4449.1
5405.3	4184.6	2824.0
3879.0	1391.5	836.4
4357.0	1760.7	1190.4
5478.3	2997.7	1831.4
4873.9	3897.5	1965.8
4421.1	3444.8	1525.4
6132.7	3704.0	3034.5
9401.2	7100.2	4598.6
4874.0	4598.1	2725.9
5810.7	4756.4	2503.9
6199.6	3960.9	2525.0
7306.7	4889.1	4028.4
5649.5	3147.7	1600.8
9753.8	9348.0	6699.0
8996.2	6176.3	4708.7
5746.2	5469.2	4460.2
5232.1	3516.1	2974.0
2947.2	5044.6	3066.7
6220.9	6223.0	4896.2
5623.6	4921.0	4715.6
4535.0	3320.8	2096.7
7291.5	7336.1	6683.2
6140.6	4029.7	4087.2
138.2	55.4	64.2
2558.5	576.5	158.4
7997.8	4739.7	3841.6
7847.4	5825.3	4476.4
6346.7	4519.6	3091.1
3687.5	2988.7	1808.3
6837.7	3757.5	2884.6
7925.0	8298.7	6263.6
6610.1	3162.4	2332.1
5699.3	4501.4	2379.0
3990.2	2611.4	2073.7

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas

s__unclassified	16057
s__unclassified	16060
s__unclassified	16064
s__unclassified	16069
s__unclassified	16083
s__unclassified	16086
s__unclassified	16094
s__unclassified	16102
s__unclassified	16112
s__unclassified	16162
s__unclassified	16171
s__unclassified	16196
s__unclassified	16205
s__unclassified	16206
s__unclassified	16223
s__unclassified	16229
s__unclassified	16244
s__unclassified	16250
s__unclassified	16258
s__unclassified	16266
s__unclassified	16278
s__unclassified	16299
s__unclassified	16333
s__unclassified	16352
s__unclassified	16360
s__unclassified	16372
s__unclassified	16381
s__unclassified	16392
s__unclassified	16414
s__unclassified	16452
s__unclassified	16456
s__unclassified	16458
s__unclassified	16503
s__unclassified	16529
s__unclassified	16535
s__unclassified	16551
s__unclassified	16571
s__unclassified	16582
s__unclassified	16584
s__unclassified	16587
s__unclassified	16594

EU434498.1 gg_id:263531 Stenotrophomonas maltophilia str. b314
FJ554664.1 gg_id:550358 Pseudomonas hibiscicola str. PB2
EF620464.1 gg_id:246737 Stenotrophomonas maltophilia str. ISSDS-774
AY484506.1 gg_id:106950 Stenotrophomonas maltophilia
DQ424865.1 gg_id:213325 Stenotrophomonas maltophilia str. KNUC163
AF390081.1 gg_id:53734 Stenotrophomonas maltophilia str. Sea-11
EU564819.1 gg_id:271361 Stenotrophomonas maltophilia str. HB
AB547226.1 gg_id:514890 Stenotrophomonas maltophilia str. NCCP-45
EU934076.1 gg_id:344292 Stenotrophomonas maltophilia str. FR2_1con
AY738614.1 gg_id:105623 Stenotrophomonas maltophilia str. nj1
AB299975.1 gg_id:219684 Stenotrophomonas maltophilia str. KMM 339
FJ493060.1 gg_id:586234 Stenotrophomonas chelatiphaga str. G-7
EU263112.1 gg_id:257886 Stenotrophomonas maltophilia str. TPID9
EF221779.1 gg_id:200228 Stenotrophomonas sp. str. tap-11
EU442189.1 gg_id:300964 Stenotrophomonas maltophilia str. IdR
AF100731.1 gg_id:25594 Stenotrophomonas maltophilia VUN10001
X95924.1 gg_id:7814 Stenotrophomonas maltophilia str. LMG 11087
AB547227.1 gg_id:519787 Stenotrophomonas maltophilia str. NCCP-47
AB294557.1 gg_id:206457 Stenotrophomonas maltophilia str. NCB0306-284
AJ560626.1 gg_id:100999 Achromobacter xylosoxidans wp22
Y13836.1 gg_id:7806 Stenotrophomonas sp
AJ293464.1 gg_id:43807 Stenotrophomonas maltophilia str. e-p3
FJ859699.1 gg_id:575987 Stenotrophomonas maltophilia str. BIHB 357
AB194708.1 gg_id:138533 Stenotrophomonas maltophilia str. S-1
EU927145.1 gg_id:350559 Stenotrophomonas maltophilia str. G2
AF100733.1 gg_id:70857 Stenotrophomonas maltophilia VUN10003
AJ293474.1 gg_id:23220 Stenotrophomonas maltophilia str. e-a22
EU239466.1 gg_id:247577 Pseudomonas geniculata str. XJUHX-3
EF221775.1 gg_id:202238 Stenotrophomonas sp. str. tap-7
EF221776.1 gg_id:201486 Stenotrophomonas sp. str. tap-8
X95925.1 gg_id:7815 Stenotrophomonas maltophilia str. LMG 11114
AJ293471.1 gg_id:52247 Stenotrophomonas maltophilia str. e-a1
GU549434.1 gg_id:518084 Stenotrophomonas maltophilia str. 2JW6
DQ141193.1 gg_id:138419 Stenotrophomonas maltophilia
AY277550.1 gg_id:88987 Stenotrophomonas maltophilia str. CSC13-6
EF620455.1 gg_id:249332 Stenotrophomonas maltophilia str. ISSDS-585
EF620466.1 gg_id:248993 Stenotrophomonas maltophilia str. ISSDS-782
FJ527557.1 gg_id:555593 Stenotrophomonas maltophilia str. YMG-3
DQ424870.2 gg_id:209104 Stenotrophomonas maltophilia str. KNUC171
EF620444.1 gg_id:242386 Stenotrophomonas maltophilia str. ISSDS-424
AJ131903.1 gg_id:7819 Stenotrophomonas maltophilia str. LMG 10879

EU4344
FJ5546
EF6204
AY4845
DQ424
AF3900
EU5648
AB5472
EU9340
AY7386
AB2999
FJ4930
EU2631
EF2217
EU4421
AF1007
X95924
AB5472
AB2945
AJ5606
Y13836
AJ2934
FJ8596
AB1947
EU9271
AF1007
AJ2934
EU2394
EF2217
EF2217
X95925
AJ2934
GU549
DQ141
AY2775
EF6204
EF6204
FJ5275
DQ424
EF6204
AJ1319

1824.9	3925.7	3201.0	4137.6	4092.4	7252.5	3460.9	3150.9	2477.6	10817.0	3107.6
691.2	4450.1	4267.1	4861.5	5558.0	7307.6	4763.2	3921.2	2530.9	11337.3	3513.9
1729.3	5915.4	5552.9	6904.1	5801.8	8778.8	4439.5	6091.2	6212.2	11703.8	7142.2
1674.0	2334.7	1981.3	3158.1	3483.1	6320.6	2033.0	1960.8	1320.0	9997.0	1411.0
2214.5	4554.5	5772.7	5161.2	4217.9	6495.2	3936.0	4781.3	4920.7	11495.0	5549.9
1326.5	2883.8	2722.1	3154.7	3319.4	5968.6	2949.7	2364.3	1800.5	9429.1	2290.5
1524.0	3840.2	3124.3	4897.4	4572.6	8276.0	2493.7	3508.9	2477.1	13168.3	3770.9
1839.2	3988.4	3220.1	4240.2	4231.3	7483.7	3409.5	3229.6	2346.0	11014.7	3097.9
1028.7	5914.1	5655.0	5817.5	6778.7	8460.3	6489.5	5463.9	3842.1	12718.3	5656.5
16795.6	7536.4	7602.3	8278.6	8247.3	9185.9	8336.1	7403.4	12115.9	12475.0	11200.5
40.6	711.1	813.0	846.7	1793.0	5884.1	701.1	872.8	81.9	11049.9	293.5
63.5	1119.5	921.4	1259.1	1297.0	2728.2	500.4	1299.5	1030.4	4868.9	669.3
2899.6	4580.4	4754.8	5662.3	6207.3	6979.8	5545.1	4322.2	3339.8	10096.0	4133.3
6005.4	7092.2	6581.9	7324.9	8286.6	8412.3	6341.6	6136.6	8418.4	9713.8	7680.9
140.1	1308.8	1341.9	1797.2	1722.3	4110.5	1096.4	1136.6	738.0	6684.3	695.3
403.7	4187.2	3811.1	4680.0	4951.4	7281.1	4519.8	3643.9	2341.5	12063.5	3207.7
821.3	3357.1	3034.4	3946.9	3731.4	7265.9	3042.4	3374.8	3121.3	11559.1	3608.8
3598.7	4931.4	4253.7	5275.2	5282.9	8133.0	4609.0	4337.7	4233.9	11835.7	4446.2
2037.5	4048.6	3689.0	4474.6	4741.4	6721.6	4132.5	4005.8	4228.8	9076.4	2787.3
7316.8	5181.7	4969.3	5146.0	5261.3	6567.3	4610.3	4449.4	4919.9	11162.2	5125.5
2438.5	4449.9	4109.4	4765.8	6800.7	5810.7	4716.1	3550.8	3614.2	9377.8	2944.9
327.7	2493.4	2493.1	3524.0	3539.6	6025.3	2969.1	2331.4	1425.6	10067.0	1506.5
6111.4	6041.2	5808.3	6838.7	7346.0	8585.8	6162.2	6247.6	6609.8	13568.8	6591.0
3320.3	3382.4	3557.5	4030.9	4707.9	6390.5	4043.0	3150.7	2988.9	9382.1	2723.8
4197.5	6798.2	6095.4	8022.8	6883.2	9858.3	6064.7	6436.0	5763.9	15230.9	6980.6
1149.1	5259.5	4718.6	5048.5	5983.5	7901.4	5831.5	4600.9	3238.3	12103.8	3983.9
1635.3	4831.4	4671.5	5249.6	5493.7	7178.0	5603.4	5005.1	5272.8	9915.3	4407.2
271.9	3544.4	3113.7	3721.7	3762.9	6023.8	2927.1	3311.2	2441.0	8987.7	2817.4
1248.3	1535.0	1883.6	2085.7	2256.7	1939.5	2175.6	673.6	1264.0	2064.4	1551.1
840.9	3832.2	3216.2	3854.0	3829.0	7684.1	4004.4	3083.6	2251.1	12723.9	2489.9
2655.0	4785.1	4317.6	4722.7	6042.8	5489.1	5177.0	3539.9	3522.1	8703.5	3030.0
629.7	3584.1	2709.3	4268.6	4303.3	7360.4	2784.2	4122.1	3037.9	11697.2	3063.4
5562.5	6147.6	5395.8	6832.4	7709.7	8639.3	6022.1	6569.0	6262.3	13826.5	7063.3
3308.9	4140.8	3569.8	4522.3	4988.2	8056.0	3483.1	3673.3	3543.5	12364.1	3671.2
4099.0	6609.5	6170.3	6970.9	8869.4	7322.7	8037.2	5976.4	4495.6	10005.0	6753.3
6743.0	7661.3	6356.8	7651.4	7202.4	9168.3	6503.4	7648.9	11533.7	14640.8	8386.4
54.5	2415.8	2234.5	2839.5	2996.7	4550.8	1859.9	1898.6	1480.9	6088.9	1799.6
46.5	1110.5	530.1	835.5	1265.0	4492.9	346.0	436.7	180.6	8045.6	242.5
1769.0	5736.9	5534.6	6468.2	8089.0	8344.9	6598.4	5073.4	3384.4	12640.8	4409.8
5938.1	3255.1	3434.2	3983.3	3406.3	4660.8	3332.6	3281.3	4957.5	6413.0	4012.7
69.0	2683.9	2381.5	2993.9	3323.4	5295.0	2145.1	2071.9	1408.4	8232.7	1815.8

5123.2	3097.1	2109.4
6088.9	3913.3	2941.4
7713.8	5514.6	4614.5
4749.1	3143.0	1760.0
5777.1	5829.4	4532.5
4153.2	2961.5	1925.4
6549.7	3618.5	2421.4
5091.5	3038.8	2075.0
7192.7	4993.4	4097.3
7378.8	8817.7	6819.6
6325.5	954.0	160.7
3840.2	1129.2	802.0
6994.7	4219.6	2881.6
7191.5	7366.9	6311.2
3263.8	2211.4	795.3
5898.9	3642.1	2423.4
6345.1	3210.0	2226.1
6480.4	4383.8	3155.6
5519.3	4612.6	4116.8
7004.6	4612.0	4519.2
6058.9	3869.3	4186.2
5758.0	2484.3	1320.2
8496.6	6379.5	5358.6
5933.0	4159.6	2911.3
8822.3	6266.4	4563.3
6747.5	4394.5	3378.8
6337.1	4754.3	3945.6
4766.5	3937.9	1914.7
1694.3	1870.9	1584.2
5707.3	3034.8	1922.4
6159.5	3932.0	3925.6
6921.3	4167.7	2508.4
7736.0	7129.8	4707.6
6299.8	3921.4	2620.5
7069.6	5370.9	3351.9
8148.4	7584.0	7249.4
3715.3	2093.8	1088.2
2537.3	868.5	286.6
8149.3	4947.4	3890.5
3680.3	3822.3	3161.7
4914.0	2337.0	1210.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas

s__unclassified	16610
s__unclassified	16629
s__unclassified	16669
s__unclassified	16676
s__unclassified	16686
s__unclassified	16701
s__unclassified	16718
s__unclassified	16722
s__unclassified	16728
s__unclassified	16733
s__unclassified	16740
s__unclassified	16754
s__unclassified	16782
s__unclassified	16790
s__unclassified	16806
s__unclassified	16870
s__unclassified	16876
s__unclassified	16878
s__unclassified	16911
s__unclassified	16912
s__unclassified	16935
s__unclassified	16971
s__unclassified	16972
s__unclassified	16978
s__unclassified	16992
s__unclassified	17000
s__unclassified	17057
s__unclassified	17069
s__unclassified	17072
s__unclassified	17097
s__unclassified	17115
s__unclassified	17121
s__unclassified	17123
s__unclassified	17124
s__unclassified	17125
s__unclassified	17127
s__unclassified	17135
s__unclassified	17173
s__unclassified	17174
s__unclassified	17191
s__unclassified	17198

EU622536.1 gg_id:278643 Stenotrophomonas maltophilia str. NPQ01 EU622
DQ227785.1 gg_id:141976 Stenotrophomonas sp. PIC-C18 DQ227
AB294554.1 gg_id:210322 Stenotrophomonas maltophilia str. JCM 1976 AB294
AM159126.2 gg_id:144942 Stenotrophomonas maltophilia str. HCU1 AM159
AJ293472.1 gg_id:46966 Stenotrophomonas maltophilia str. e-a23 AJ2934
AJ293470.1 gg_id:20877 Stenotrophomonas maltophilia str. e-a21 AJ2934
GQ267816.1 gg_id:540690 Stenotrophomonas maltophilia str. PSM-5 GQ267
AJ306833.1 gg_id:71314 Stenotrophomonas maltophilia ON2 AJ3068
EU627172.1 gg_id:278738 Stenotrophomonas maltophilia str. NH.300 EU627
DQ223428.2 gg_id:143204 Stenotrophomonas maltophilia str. ZJUB-041 DQ223
U62646.1 gg_id:7795 Stenotrophomonas maltophilia str. MGB U6264
AJ243605.1 gg_id:74547 Stenotrophomonas sp AJ2436
EF102866.1 gg_id:247514 Stenotrophomonas maltophilia str. P-2-13 EF1028
FN395263.1 gg_id:392327 Stenotrophomonas maltophilia str. FR-W4Ba FN395
FJ184334.1 gg_id:316000 structure and physiology pyrene-degrading consortia growing biofilms model trickle c FJ1843
AJ293465.1 gg_id:45548 Stenotrophomonas maltophilia str. e-p19 AJ2934
FJ950659.1 gg_id:388170 Stenotrophomonas maltophilia str. d402 FJ9506
AJ973277.1 gg_id:129907 Pseudomonas sp. NN84 AJ9732
EU708603.1 gg_id:331219 Stenotrophomonas maltophilia str. SWCH-9 EU708
AB308443.1 gg_id:248982 Stenotrophomonas maltophilia str. TUT1392 AB308
FJ418173.1 gg_id:357672 Stenotrophomonas maltophilia str. JY-1 FJ4181
EU834246.1 gg_id:347257 Stenotrophomonas maltophilia str. DS17 EU834
DQ777866.1 gg_id:162978 Stenotrophomonas maltophilia DQ777
AF137357.1 gg_id:7828 Stenotrophomonas maltophilia str. VUN10075 AF1373
AJ131909.1 gg_id:7832 Stenotrophomonas maltophilia str. LMG 11003 AJ1319
DQ530084.1 gg_id:160828 Stenotrophomonas maltophilia CI13 DQ530
AY512625.1 gg_id:103604 Stenotrophomonas maltophilia str. A1w2 AY5126
FN395260.1 gg_id:401337 Stenotrophomonas maltophilia str. FR-W3Ba FN395
FJ950567.1 gg_id:418822 Stenotrophomonas maltophilia str. c27 FJ9505
DQ079059.1 gg_id:128053 Stenotrophomonas maltophilia SA Ant15 DQ079
EF690418.1 gg_id:242975 Stenotrophomonas maltophilia M17-5 EF6904
EU434458.1 gg_id:274410 Stenotrophomonas maltophilia str. a231 EU4344
AJ293473.1 gg_id:74521 Stenotrophomonas maltophilia str. e-p13 AJ2934
AF361024.1 gg_id:41278 Stenotrophomonas sp. str. NAP6 AF3610
GU186115.1 gg_id:552717 Stenotrophomonas maltophilia str. IHB B 1365 GU186
FM213389.1 gg_id:317467 Stenotrophomonas maltophilia str. MN38 FM213
AJ131115.1 gg_id:7808 Stenotrophomonas maltophilia str. LMG 10991 AJ1311
DQ186643.2 gg_id:168391 Stenotrophomonas maltophilia str. KNUC161 DQ186
GQ130134.1 gg_id:438487 Stenotrophomonas sp. str. AJK-9 GQ130
AF100735.1 gg_id:34396 Stenotrophomonas maltophilia VUN10035 AF1007
AB194324.1 gg_id:139059 Stenotrophomonas maltophilia str. BL-13 AB1943

13478.3	4943.5	4736.9	5159.5	4652.0	6805.4	4772.3	4223.7	5855.0	9662.3	6303.1
1217.5	3095.3	3270.2	4177.2	4058.8	5454.8	3321.5	3247.8	1907.2	8615.7	3616.8
37.3	2888.7	2547.5	3243.2	4542.4	5362.3	3152.1	2072.8	1418.5	6299.5	1482.4
54.2	2179.1	1720.4	2296.0	2573.1	4524.9	1468.3	1843.6	1364.4	7283.7	1486.5
3367.0	5087.5	4646.7	5233.3	5623.1	8440.4	5029.0	4839.2	4360.8	13780.1	5454.9
3138.0	6318.7	5870.8	7433.5	6741.4	9304.6	6241.7	5687.9	4887.4	14174.9	6377.1
1254.3	4646.3	4040.0	4696.8	5120.7	5806.0	5109.5	4495.5	5149.5	8475.1	3725.8
3625.4	4259.6	3894.4	4781.1	5087.0	7270.3	4189.8	4112.5	3763.4	10052.2	3775.4
19382.0	9678.7	9446.6	10275.6	10432.2	9952.8	10336.7	8152.0	9698.8	14832.2	12051.4
289.0	4398.8	3603.6	4951.5	5137.4	6743.6	3710.0	3513.6	2342.6	9438.7	2654.9
1532.7	3078.7	3010.1	3618.0	4114.1	5021.8	4306.6	3809.6	2931.1	6427.4	3902.1
36.6	1534.9	1446.6	1714.9	1698.8	4635.3	928.6	1219.0	621.0	7561.8	1111.7
2867.0	7255.1	6624.4	7639.0	9015.6	8973.2	8350.4	6677.6	4785.3	13246.2	5764.6
4274.0	7394.6	7231.9	7825.8	10067.9	9137.8	9233.9	7982.4	6359.4	12878.9	6221.2
972.7	1219.3	1653.4	1827.6	1689.9	3759.9	1048.3	1247.1	783.0	6832.8	541.5
325.3	2093.7	2231.9	3139.3	3089.1	5293.5	2426.0	2065.8	1338.8	8368.3	1388.4
1118.9	6800.1	6088.9	7059.2	7437.9	9232.9	7123.8	5791.0	4649.2	12863.0	5676.3
12591.0	5521.0	5708.2	6141.4	6405.3	6315.2	5539.2	5835.1	5017.2	7735.3	6545.8
1368.3	4063.2	3708.2	4108.3	4540.6	7110.8	4586.3	4525.8	3971.6	10319.8	4785.0
2241.9	2738.7	2336.8	2916.9	4379.0	5183.4	2993.8	2287.3	1692.3	7791.6	2045.1
2616.2	1733.3	1409.0	2121.4	2673.3	4902.5	1667.7	1480.8	1127.2	6454.6	1275.3
4593.9	3738.4	3503.0	4604.5	4354.5	6263.5	3548.1	3400.0	2762.7	9468.6	4471.5
5339.7	6289.0	5536.1	7088.5	7363.2	10548.6	5324.9	6314.3	6074.1	16857.9	6766.5
572.6	2105.3	2157.1	2425.4	3013.8	5181.6	2212.2	1838.2	1063.6	8443.0	964.7
4136.0	7522.0	7429.7	8364.5	10161.9	9061.0	9456.6	7982.8	6050.5	12663.9	6320.9
1147.3	3020.6	3046.1	3405.3	3696.2	6023.5	3020.5	2690.3	1825.3	9692.6	2484.9
3042.5	5122.3	5213.5	6280.4	6718.9	7775.1	6408.2	4580.2	3842.1	11226.6	4645.2
3340.1	4570.1	4829.2	6460.8	6077.8	8433.4	5402.6	5155.1	3863.4	14600.1	4700.2
266.3	2922.9	2736.8	3375.7	3821.4	6424.7	3340.7	2685.2	1196.3	10831.4	1743.3
67.8	436.7	604.2	686.9	830.6	440.5	902.8	668.4	370.0	358.2	349.1
35.7	971.5	495.9	726.4	1118.1	4304.3	418.6	417.6	193.5	7086.9	206.5
9018.1	5388.1	4960.1	5395.9	6077.8	5961.4	5998.8	5020.4	5226.1	8254.4	5600.4
74.6	1802.0	1362.7	1667.3	2075.9	4566.6	1399.9	1396.3	1106.6	6717.3	966.0
253.7	2731.6	2350.9	2473.6	3682.9	3579.5	2836.4	2343.5	1548.8	5378.6	1313.1
2329.0	2974.9	3056.1	3432.7	4002.2	6047.1	3453.4	2906.6	2519.3	8806.3	2290.4
1813.4	5091.8	4485.8	5931.5	5339.0	8408.6	4699.4	4431.6	4000.0	12424.5	4481.6
4883.3	5291.9	5418.0	6194.1	7466.1	8667.4	6400.8	5875.9	4977.0	11900.3	4831.8
859.7	4511.5	4538.6	5681.6	5324.0	7191.0	5048.4	5371.2	4107.2	11302.8	4798.5
1457.9	2723.8	2564.7	3052.6	2366.0	3356.1	2742.5	2619.0	1357.3	5796.7	2799.3
10626.2	5025.8	4724.2	5387.9	5442.7	6721.2	5812.1	4543.5	4876.1	11244.2	6339.0
2084.4	4687.6	4350.3	4914.8	5350.8	7429.0	4057.0	4215.1	3693.6	11231.8	4317.2

6925.2	6094.4	4626.0
5866.8	2820.2	1760.9
4544.8	2458.9	1334.5
3854.8	1769.9	1007.9
6362.0	4848.1	3554.2
8222.9	5581.8	4314.4
4410.7	4765.0	4085.8
6145.9	5272.4	3454.3
9213.5	10208.2	7619.2
5903.3	3217.6	2192.5
4286.1	4541.4	2399.6
5176.7	1333.1	449.8
8636.8	6099.1	4881.2
8825.5	7314.7	6258.9
3931.2	1462.8	1020.1
4765.9	2266.3	1249.4
8276.7	5109.6	4059.4
6120.4	6426.8	4889.9
5079.1	4962.3	3021.8
4288.4	2607.2	2066.5
2815.4	1977.2	1542.5
5972.6	3818.0	2578.0
9590.3	6568.5	4594.5
4863.1	2262.4	1347.6
8947.5	6956.0	5775.7
5257.0	3279.4	2074.2
7808.5	4589.3	3300.8
7745.8	5435.6	5103.9
6932.6	2936.3	1992.8
382.1	713.4	747.2
2281.2	547.7	216.4
6409.5	5960.3	4183.4
2793.2	2730.2	996.7
3207.8	2659.9	1341.8
5549.0	3093.8	2236.7
6948.2	4880.6	3606.7
7985.8	6579.4	5610.3
6311.7	5696.8	5906.1
4205.8	2889.2	1745.3
6929.0	5629.0	3273.1
5990.1	5013.1	2998.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Stenotrophomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas
g__Thermomonas

s__unclassified	17215
s__unclassified	17225
s__unclassified	17229
s__unclassified	17247
s__unclassified	17254
s__unclassified	17259
s__unclassified	17278
s__unclassified	17304
s__unclassified	17328
s__unclassified	17370
s__unclassified	17380
s__unclassified	17381
s__unclassified	17382
s__unclassified	17385
s__unclassified	17400
s__unclassified	17406
s__unclassified	17408
s__unclassified	17415
s__Xanthomonas retroflexus	16317
s__Xanthomonas retroflexus	16361
s__Xanthomonas retroflexus	17029
s__Xanthomonas retroflexus	17155
s__Thermomonas fusca	16156
s__Thermomonas fusca	16214
s__Thermomonas fusca	16318
s__Thermomonas fusca	17066
s__Thermomonas haemolytica	16678
s__Thermomonas haemolytica	16844
s__unclassified	15917
s__unclassified	15987
s__unclassified	16077
s__unclassified	16108
s__unclassified	16344
s__unclassified	16433
s__unclassified	16445
s__unclassified	16524
s__unclassified	16568
s__unclassified	16730
s__unclassified	16940
s__unclassified	16956
s__unclassified	16998

AY748889.1 gg_id:100468 Stenotrophomonas maltophilia N6.8 AY748
AY970826.1 gg_id:115298 Stenotrophomonas maltophilia str. CCF00024 AY970
AY943389.2 gg_id:132966 Stenotrophomonas maltophilia str. c6 AY943
DQ466570.1 gg_id:156954 Stenotrophomonas maltophilia str. B8R DQ466
EU056836.1 gg_id:255845 Stenotrophomonas maltophilia str. NK-ST EU056
DQ067559.1 gg_id:136180 Stenotrophomonas maltophilia str. Cgmcc 1.1788 DQ067
AF390080.1 gg_id:17139 Stenotrophomonas maltophilia str. Sea-8 AF390
GQ889255.1 gg_id:573375 Stenotrophomonas maltophilia str. S17 GQ889
FJ481929.1 gg_id:572456 Stenotrophomonas maltophilia str. AF-222 FJ4819
AJ131116.1 gg_id:7809 Stenotrophomonas maltophilia str. LMG 981 AJ1311
AY880273.1 gg_id:111725 Stenotrophomonas maltophilia str. M5-2 AY880
EU834257.1 gg_id:343623 Stenotrophomonas maltophilia str. DS34 EU834
GQ861456.1 gg_id:581534 Stenotrophomonas maltophilia str. LZC3 GQ861
AY748888.1 gg_id:100312 Stenotrophomonas maltophilia N5.18 AY748
EU373409.1 gg_id:266618 Stenotrophomonas maltophilia str. YRL04 EU373
AJ293467.1 gg_id:43218 Stenotrophomonas maltophilia str. c5 AJ2934
GU202014.1 gg_id:593848 Stenotrophomonas sp. str. JSG1 GU202
EF102867.1 gg_id:244364 Stenotrophomonas maltophilia str. P-5-22 EF1028
DQ337602.1 gg_id:149673 Xanthomonas retroflexus BBTR24 DQ337
EU429452.1 gg_id:258517 Stenotrophomonas maltophilia Algi-7 EU429
AM495257.1 gg_id:240513 Xanthomonas retroflexus str. INBB4 AM495
AB294555.1 gg_id:214045 Stenotrophomonas maltophilia str. IAM 1566 AB294
AJ519987.1 gg_id:76350 Thermomonas fusca str. LMG 21738 AJ5199
AJ519985.1 gg_id:75052 Thermomonas fusca str. LMG 21736 AJ5199
AB101446.1 gg_id:79280 Xanthomonas axonopodis str. S54 AB101
AJ786786.1 gg_id:108063 Xanthomonas sp. R-20819 AJ7867
AF508111.1 gg_id:66233 Thermomonas haemolytica TJ7 AF508
AF508105.1 gg_id:66237 Thermomonas haemolytica N22 AF508
EU665168.1 gg_id:562931 Soil are Changed Agricultural Practices agricultural soil clone Plot22-2B06 EU665
EU834276.1 gg_id:316695 Thermomonas brevis str. DS60 EU834
AJ576411.1 gg_id:101026 midgut homogenate Pachnoda ephippiata larva clone PeM51 AJ5764
NR_025265.1 gg_id:572324 Thermomonas hydrothermalis str. SGM-6; DSM 14834 NR_02
EF219023.1 gg_id:261814 structure and significance Rhizobiales biofouling biofilms on reverse osmosis membra EF2190
CU919621.1 gg_id:555897 Towards definition core microorganisms involved digestion mesophilic anaerobic dig CU919
AY218573.1 gg_id:81039 penguin droppings sediments clone KD2-14 AY2185
EU104238.1 gg_id:341846 Evidence Comamonadaceae determinants settling performance activated sludge clo EU104
EU202907.1 gg_id:342175 -DGGE and Approach Analyze Effect Agricultural Practices on Soil agricultural soil clo EU2029
EU202899.1 gg_id:345071 -DGGE and Approach Analyze Effect Agricultural Practices on Soil agricultural soil clo EU2028
AB355702.1 gg_id:245102 Thermomonas brevis str. S47 AB355
EU662613.1 gg_id:539739 Productivity- Chemolithoautotrophically Based Sulfidic Karst Systems floating microb EU662
EF633616.1 gg_id:250370 Thermomonas sp. str. lyso-lm521 EF6336

520.3	3611.7	3171.8	3947.8	4220.8	7503.0	3754.6	3450.8	2525.9	12532.5	2989.7
1510.6	5407.6	5125.8	6629.0	7684.6	8243.3	6405.5	5103.8	3343.4	12983.9	3965.5
15965.3	8694.7	8350.0	9265.3	9229.9	10191.9	8880.4	7314.9	9074.9	15083.8	11229.8
1113.9	3491.5	2864.0	3736.2	4315.1	7842.3	3574.5	3511.7	2937.6	11651.1	2085.2
5890.3	5718.6	5210.4	6378.0	7133.9	9134.7	6145.1	5757.7	5760.1	13495.0	5210.0
12406.9	7361.3	6780.5	8210.4	7546.7	8243.4	8161.4	6545.5	9812.9	11139.3	11383.7
3624.4	3742.6	3535.1	4187.3	4335.5	6420.2	3847.4	3399.6	3013.3	9714.2	3518.8
4237.5	6918.6	6885.1	7688.1	9217.4	8747.4	8438.1	7000.5	5463.0	12457.3	5810.2
6763.7	8225.5	8017.2	8723.4	8546.6	9970.5	7438.8	8246.6	12051.1	14103.0	10490.2
4957.6	6697.2	6966.8	8085.0	7537.4	7050.8	8547.1	7205.0	12154.4	9974.2	8176.4
7053.6	3475.6	3079.9	4545.4	4274.6	4776.2	3947.4	3175.8	3907.7	5518.3	3502.1
107.5	2205.1	2008.6	2413.6	2942.9	5120.4	1885.5	2167.4	1146.1	9363.7	1122.3
78.8	2085.6	1879.8	2680.6	2244.6	6282.2	1357.5	1848.4	1195.8	10417.4	2106.9
660.8	4740.7	4199.5	5593.7	5646.4	6525.2	4786.9	4515.3	3507.6	10891.3	4491.8
1667.7	1995.1	1714.7	2608.9	2941.9	4710.4	1867.2	1809.4	1281.7	7346.8	1429.9
2554.6	4733.2	4288.8	5074.4	6041.7	8405.9	6276.4	5380.5	4142.2	11784.1	4193.6
2540.6	5689.8	5311.7	5675.2	6728.0	8580.5	5917.2	5403.9	3864.2	13545.4	5027.4
24.9	1344.4	951.2	1563.0	1733.5	5322.6	1115.2	746.3	213.6	9360.0	384.6
2775.5	5783.2	5441.3	6333.6	7217.3	7644.5	5080.0	5074.1	4401.2	10852.7	5095.4
30823.0	9467.6	8548.6	9893.5	9556.8	10856.5	8648.4	8650.5	12524.0	15459.3	12509.3
46.4	2323.9	2384.0	3259.8	3630.0	4943.8	2867.5	1718.4	834.3	7162.5	1464.7
51.9	3043.1	2915.2	3898.1	3852.7	5417.9	2880.2	2297.9	1502.8	8050.1	2310.4
43.2	1738.8	1359.8	1565.0	4859.4	2134.4	2262.6	1984.9	850.6	2345.3	704.9
2108.9	4154.1	4243.8	4328.5	6858.0	5230.3	5069.3	4014.9	2886.5	6153.4	2822.5
759.6	3643.2	3820.9	4233.3	7973.3	3154.3	5404.9	3854.5	1875.6	2559.8	1347.7
137.1	4914.5	4627.9	5040.9	10058.4	3467.3	6747.5	3646.5	1693.9	2448.4	2568.4
306.5	3445.5	3223.6	3745.6	8084.6	2840.2	5515.0	1953.1	1143.9	2019.5	1087.9
21716.9	6859.0	6509.9	6895.5	6888.7	5873.3	5924.3	5172.3	11012.6	7527.3	9291.7
692.0	6273.4	5153.7	6301.4	10147.3	4284.2	8374.7	3811.9	2346.2	2441.5	2515.2
5559.3	5201.5	4365.8	5277.3	9067.9	3633.1	8207.4	3458.6	2953.8	3257.4	3274.5
11564.6	7244.0	6671.4	7212.7	10337.1	7075.7	8442.2	6684.6	6436.3	6696.0	7411.8
496.9	5306.4	4744.5	5485.6	8134.2	4624.5	7482.1	4947.2	3392.5	3331.4	2950.7
1039.6	4874.1	4673.5	5379.6	7175.2	4478.1	9054.0	6050.1	3215.4	2667.2	3897.1
2416.6	7877.1	6572.5	8034.3	14281.4	6391.1	10342.2	5532.0	3293.4	6898.1	3537.8
255.8	4935.8	4147.6	5166.3	6335.8	3974.8	4792.4	3957.3	3037.0	2799.6	2409.0
2209.9	6108.5	5544.7	6646.5	10702.1	5514.5	8729.1	6385.5	4352.8	5120.9	3579.7
7041.9	8653.6	7587.6	8403.2	12021.1	8287.4	9599.9	6875.2	6894.2	3279.8	6407.8
41.6	3559.1	4049.4	5450.1	5892.6	2000.0	4878.1	2130.6	731.2	508.7	858.2
560.2	6789.6	5834.6	6649.3	11847.1	5227.5	9204.4	5339.8	2903.9	3888.5	2901.3
10471.6	7163.9	7280.6	8407.8	8726.0	6562.4	8674.9	7524.0	7069.2	4443.3	7676.1
3211.0	3611.9	3455.1	4244.5	6538.4	3622.5	6145.3	4006.2	3258.6	1876.4	2120.6

5567.6	3341.1	2044.7
7962.9	5234.0	4202.3
9302.4	9571.4	7022.2
5562.2	3363.6	2607.2
7380.2	5897.8	4373.8
7036.7	8128.2	6668.4
4475.1	3795.4	2654.9
8166.3	6528.4	5286.5
8521.8	8574.6	6471.8
8482.7	8624.7	6753.8
3446.8	3587.2	3149.7
4945.2	2810.7	1483.8
5181.2	1717.5	883.8
4374.5	4377.8	3656.8
3568.1	2968.9	1636.1
7248.9	5729.6	3287.1
7193.7	5069.1	3855.3
4107.6	1106.1	499.8
6982.5	5649.9	3863.0
9833.0	10373.8	8861.4
4334.3	2034.4	997.9
4820.2	2294.5	1215.1
2690.9	1770.5	1299.6
6050.2	4113.2	3837.6
4714.4	3737.5	2766.5
4158.0	3160.9	2083.4
2138.9	1874.8	2644.9
5596.9	6051.0	7154.3
4568.8	4198.1	3008.1
4651.1	4260.7	2605.1
6645.1	6891.3	4946.2
4885.5	4104.8	4159.3
5912.8	4949.2	4415.0
6682.5	5460.8	4088.6
4265.4	3940.5	4003.2
6667.0	5525.9	5284.2
7794.3	5173.9	4949.5
1379.1	1074.9	1980.1
6073.5	4476.4	3517.9
7701.0	7519.9	6002.7
3926.8	4820.3	4422.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__Thermomonas
g__Thermomonas
g__Thermomonas
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	17005
s__unclassified	17006
s__unclassified	17122
s__unclassified	15906
s__unclassified	15921
s__unclassified	15922
s__unclassified	15963
s__unclassified	15971
s__unclassified	15997
s__unclassified	16000
s__unclassified	16004
s__unclassified	16009
s__unclassified	16010
s__unclassified	16015
s__unclassified	16021
s__unclassified	16028
s__unclassified	16037
s__unclassified	16071
s__unclassified	16095
s__unclassified	16096
s__unclassified	16103
s__unclassified	16107
s__unclassified	16113
s__unclassified	16133
s__unclassified	16166
s__unclassified	16167
s__unclassified	16179
s__unclassified	16216
s__unclassified	16220
s__unclassified	16225
s__unclassified	16236
s__unclassified	16247
s__unclassified	16249
s__unclassified	16256
s__unclassified	16257
s__unclassified	16269
s__unclassified	16277
s__unclassified	16286
s__unclassified	16288
s__unclassified	16304
s__unclassified	16313

AJ863416.1 gg_id:124055 poplar tree microcosm rhizosphere flooded clone 17RHF39 AJ8634
AJ519989.1 gg_id:76525 Thermomonas brevis str. LMG 21746 AJ5199
EF682964.1 gg_id:244345 Eastern Mediterranean atmosphere clone F15_3C_FL EF6829
DQ659212.1 gg_id:218635 acid mine drainage clone DBS-Clone37 DQ659
DQ833483.1 gg_id:172808 detected analyses depth sediment Guanting Reservoir clone 35-10 DQ833
GQ181039.1 gg_id:569287 Dyella marensis str. LNP9 GQ181
AJ536871.1 gg_id:150596 s wastes primer pairs uranium mining waste pile soil clone JG30a-KF-75 AJ5368
GQ016481.1 gg_id:493186 Topographical and Temporal Human Skin Microbiome skin interdigital web space clc GQ016
FJ675586.1 gg_id:529819 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6755
CU926385.1 gg_id:556012 Towards definition core microorganisms involved digestion mesophilic anaerobic dig CU926
EU151438.1 gg_id:265662 oligonucleotide prokaryotic acidophile microarray: validation its use monitor seasona EU151
FJ670842.1 gg_id:521246 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6708
AY546512.1 gg_id:105121 soda lake sediment clone 5H_90 AY5465
EU340183.1 gg_id:238503 on Aquatic Macrophytes Geothermally Active Area Sedge Bay Yellowstone Lake WY EU340
AB240487.1 gg_id:145000 microbial structure rhizosphere biofilm Sapporo root-tip (0 40 mm) Phragmites Sosei AB240
AM934875.1 gg_id:541193 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM934
EF018572.1 gg_id:203659 aspen rhizosphere clone Amb_16S_839 EF0185
FM873350.1 gg_id:357693 occupant source house floor dust clone FD02B06 FM873
CU926903.1 gg_id:562146 Towards definition core microorganisms involved digestion mesophilic anaerobic dig CU926
AM400231.1 gg_id:170471 Stenotrophomonas sp. str. KC-5 AM400
AM697474.1 gg_id:226122 sequencing libraries indoor dust clone BF0001D089 AM697
DQ984619.1 gg_id:254845 YK oil-contaminated soil clone YK_20 DQ984
EF688352.1 gg_id:239403 soil clone F4-100 EF6883
EU665174.1 gg_id:538171 Soil are Changed Agricultural Practices agricultural soil clone Plot22-G05 EU665
GQ062403.1 gg_id:450601 Topographical and Temporal Human Skin Microbiome skin inguinal crease clone nbv GQ062
EU735671.1 gg_id:324704 archaeal structures oil contaminated and soils China pristine soil Jidong Oilfield clone EU735
EU250249.1 gg_id:252154 acid mine drainage clone GXDC-35 EU250
AM934797.1 gg_id:544247 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM934
AM934946.1 gg_id:563489 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM934
AY218736.1 gg_id:81928 penguin droppings sediments clone KD5-27 AY218
EU104136.1 gg_id:340602 Evidence Comamonadaceae determinants settling performance activated sludge clo EU104
AM936180.1 gg_id:537205 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM936
DQ450791.1 gg_id:160992 Microbial Alpine Tundra Wet Meadow Soil: Chloroflexi Cold Water-Saturated saturat DQ450
DQ984639.1 gg_id:236708 YK oil-contaminated soil clone YK_159 DQ984
AF139997.1 gg_id:7792 Xanthomonas sp. str. ML-122 AF1399
EU131040.1 gg_id:237966 alkaline China coal mine soil clone SIP CM35 EU1310
CU466816.1 gg_id:339285 Evry wastewater treatment plant anoxic basin clone CU466
GU332843.1 gg_id:593908 Arenimonas sp. str. NA-09 GU332
AJ619045.1 gg_id:102209 Brewery bottling plant clone MTAC25 AJ6190
EU449635.1 gg_id:535385 Soil are Changed Agricultural Practices agricultural soil clone Plot4-2E09 EU449
GU180157.1 gg_id:579953 Impact coplanar PCBs on microbial activity anaerobic estuarine sediments sediment GU180

522.9	4335.7	3723.5	3842.2	6780.0	3377.9	3869.3	3572.6	2854.5	1739.9	1846.5
508.7	4171.0	3262.0	4086.7	6444.2	3454.3	6805.2	3703.6	1812.2	2277.8	1521.2
3717.9	8004.6	7273.5	8475.3	13292.0	7162.7	9494.7	6115.9	5923.4	6801.2	5682.2
13391.4	6970.1	7175.5	7132.9	7943.7	6354.1	8044.4	6943.1	7314.7	5920.7	8487.2
38.3	2515.8	2130.2	2146.0	9472.4	1956.6	2578.7	349.4	249.4	97.3	340.7
311.8	3682.7	2612.6	1423.9	1952.2	2569.4	1558.2	1419.3	3693.8	2433.4	730.0
3190.9	5956.4	6420.8	7353.1	8658.4	7082.1	8627.8	7676.1	5492.2	4617.6	6556.8
6006.1	5199.7	5032.6	5487.9	7449.6	4661.1	7277.5	4116.8	4043.1	5716.2	4836.3
1137.8	2970.6	2711.2	3269.3	3159.3	2901.9	3550.1	3029.3	3017.0	2123.7	2925.1
21718.2	13526.3	12398.0	14567.8	17245.3	12402.0	15432.8	12222.3	11975.3	12408.6	14129.0
42612.5	11814.7	10732.7	12303.4	11635.5	11058.0	13001.4	11351.9	16233.6	14015.7	19124.2
57.4	1407.9	1517.7	1784.2	3164.3	889.3	2187.4	1058.3	428.6	562.8	706.0
1267.7	1178.8	1273.1	1438.9	1803.6	1258.6	1704.6	1279.1	1166.9	1157.4	932.3
1356.4	5038.5	5629.8	5511.5	5853.4	5101.5	5516.8	5232.2	5429.5	4043.2	4628.3
51.3	314.5	331.0	230.3	2271.8	357.1	408.8	703.6	63.0	57.0	126.8
9480.8	6120.4	5731.7	6162.4	7586.7	5824.4	7288.2	5900.7	5608.0	7682.9	5935.8
985.9	2811.9	3101.6	3000.5	3598.2	2425.1	3883.7	3576.9	1113.1	1603.2	1651.2
4756.4	7850.6	6677.3	8779.8	10472.1	7477.2	8763.4	6801.7	6038.4	6928.6	9466.0
1409.5	3336.1	3542.5	4012.2	5545.9	3322.1	5398.1	3703.2	2452.8	1945.8	2645.9
268.0	6128.6	5220.9	6204.0	6174.2	5992.5	5243.0	5044.4	2948.6	6896.0	3811.4
390.9	3373.7	3125.8	3471.1	5835.9	3987.9	4208.4	2295.7	1222.7	1264.5	1232.9
681.6	6448.0	7124.3	8472.4	9503.4	6893.1	6939.9	6769.8	5539.0	5508.5	4938.0
3777.1	5515.6	5279.6	6018.8	9357.7	5147.1	5968.7	4308.9	4959.8	4871.1	3889.4
219.0	5591.8	5469.1	5936.5	9490.0	4671.1	5970.9	4391.1	3220.2	3315.8	3038.0
14691.7	8887.7	6405.2	8280.7	12204.2	9178.8	8834.2	7633.2	9704.5	9921.5	8061.1
1576.0	2593.1	3167.7	3430.9	3754.5	3180.1	4113.6	3855.3	2164.7	1476.7	2325.4
305.3	2290.9	2749.9	3651.9	3540.4	2386.0	2947.5	2501.9	1983.5	783.3	2507.0
10283.0	5688.1	5780.9	6682.7	8175.3	6222.7	7886.6	6464.9	5074.2	7974.7	5958.6
5802.9	6511.0	6574.3	7078.3	9279.3	6761.5	8465.5	6720.6	5251.4	10025.0	6373.5
39.1	31.1	21.6	20.6	15.6	14.8	22.0	13.6	17.0	14.1	13.3
6764.2	5717.9	5792.7	6727.2	7380.6	5511.4	7548.6	5695.3	4635.2	3162.7	5378.0
1916.7	4244.6	4085.7	5089.9	6790.1	3801.3	8265.6	4805.9	2712.1	2421.7	4015.9
216.3	3664.0	3482.4	3780.9	5007.2	3012.8	3340.5	4499.9	1636.6	2487.0	3045.8
9242.9	5883.2	5991.3	7009.3	9451.9	6003.2	7092.2	6668.8	6701.9	4557.1	6602.7
1860.6	3616.2	3588.1	4245.9	4928.5	4010.6	6390.6	4448.1	2634.4	2886.2	2519.1
689.0	6195.6	5856.1	6312.3	8706.6	5179.5	7981.2	6076.5	3211.4	4551.0	4425.1
58.4	3680.9	2457.9	2940.0	5560.6	2018.0	6557.6	1816.3	743.2	238.0	1132.4
139.6	3136.7	2913.6	3307.1	4356.5	3454.7	5253.4	3063.5	1430.7	4265.6	1471.8
1549.3	4121.3	3856.3	4390.5	6480.8	4612.7	4567.3	4466.0	3688.8	4453.5	2822.7
1120.9	7780.9	7302.7	8202.6	12551.5	6738.2	9829.9	7317.6	6138.8	5609.9	5374.2
3079.9	4753.9	4749.9	5870.8	6294.9	5138.0	6173.1	5986.8	3735.2	4011.4	5910.2

4580.8	4122.2	3290.6
4451.6	3079.4	3282.8
6623.3	7051.3	4676.5
6781.5	7297.5	6028.9
1089.4	345.5	381.1
1828.5	950.7	2374.3
7823.6	6471.6	6526.7
6388.9	4624.7	3899.0
2578.2	3204.0	2889.9
13521.9	11595.6	11914.7
10698.1	11650.0	11547.5
1580.0	1375.0	2101.0
1345.5	2203.1	1788.6
5345.8	4571.6	6171.1
1215.7	546.3	212.9
5661.3	5858.1	5248.6
2536.4	1981.4	1715.2
8410.7	5757.6	4864.1
3506.6	4026.5	4991.2
7478.1	4474.5	3633.0
2838.2	3420.7	2222.3
6221.0	5608.7	7402.4
4775.4	5585.8	5342.7
4844.5	4754.3	4279.6
8493.9	8464.3	6757.8
3178.7	3423.0	3075.4
2467.8	2637.2	2547.1
6430.7	6699.1	6092.4
7474.9	6405.0	5233.8
18.9	15.2	14.3
5925.5	5271.7	6067.8
5746.1	3664.9	4271.0
3723.2	4142.1	2548.2
5724.7	6359.2	4760.0
4711.5	5044.0	4550.8
7130.0	4421.9	5144.6
2259.5	971.7	1393.9
3622.1	3391.1	2522.8
5026.5	4454.1	3982.1
6780.4	6784.4	4997.0
5309.7	4948.6	4446.1

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	16327
s__unclassified	16388
s__unclassified	16395
s__unclassified	16398
s__unclassified	16401
s__unclassified	16405
s__unclassified	16432
s__unclassified	16454
s__unclassified	16472
s__unclassified	16505
s__unclassified	16531
s__unclassified	16553
s__unclassified	16574
s__unclassified	16578
s__unclassified	16581
s__unclassified	16583
s__unclassified	16585
s__unclassified	16593
s__unclassified	16602
s__unclassified	16619
s__unclassified	16639
s__unclassified	16662
s__unclassified	16666
s__unclassified	16692
s__unclassified	16717
s__unclassified	16727
s__unclassified	16745
s__unclassified	16749
s__unclassified	16759
s__unclassified	16784
s__unclassified	16793
s__unclassified	16812
s__unclassified	16813
s__unclassified	16815
s__unclassified	16818
s__unclassified	16821
s__unclassified	16824
s__unclassified	16838
s__unclassified	16841
s__unclassified	16842
s__unclassified	16849

EU662620.1 gg_id:580798 Productivity- Chemolithoautotrophically Based Sulfidic Karst Systems floating microb EU662
AF140004.1 gg_id:50378 Xanthomonas sp. str. ML-168b AF140
DQ984626.1 gg_id:251179 YK oil-contaminated soil clone YK_62 DQ984
AB240283.1 gg_id:143176 microbial structure Phragmites rhizosphere biofilm reed bed reactor laboratory clone AB240
GQ354936.1 gg_id:566599 structure between two geochemically distinct springs Alum Rock Park spring clone M GQ354
AY922114.1 gg_id:113915 farm soil clone AKYH1464 AY922
DQ856527.1 gg_id:240149 intestinal microflora Chinese mitten crab (Eriocheir sinensis) clone C2G DQ856
FJ538122.1 gg_id:555549 metagenomics study rice treated milk vetch and no-tillage paddy field soil clone MBT FJ5381
AY218741.1 gg_id:82032 penguin droppings sediments clone KD5-86 AY218
AM932272.1 gg_id:275388 Luteimonas sp. str. S22-40 AM932
FJ671430.1 gg_id:524537 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6714
DQ846687.1 gg_id:168681 Cibimonas vasta str. CC-YY255 DQ846
AM939778.1 gg_id:263341 Dyella marensis str. CS5-B2 AM939
DQ125662.1 gg_id:130301 uranium contaminated soil clone AKAU3728 DQ125
AM229325.1 gg_id:151541 Xanthomonas sp. str. T7-07 AM229
AF159581.1 gg_id:7897 Xanthomonas pv. campestris str. L2 AF159
EF018705.1 gg_id:209670 aspen rhizosphere clone Amb_16S_1156 EF0187
AY328765.1 gg_id:88178 drinking water system simulator clone DSSD67 AY328
AM936392.1 gg_id:563988 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM936
AM935846.1 gg_id:566333 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
AB240508.1 gg_id:141461 microbial structure rhizosphere biofilm Sapporo root-base (80 160 mm) Phragmites S AB240
EU202908.1 gg_id:331342 -DGGE and Approach Analyze Effect Agricultural Practices on Soil agricultural soil clo EU202
AB161360.1 gg_id:99159 Lysobacter brunescens str. KCTC 12130 AB161
GU250851.1 gg_id:571730 Anaerobic biodegradation branched hydrocarbon biomarker analog pristane waste GU250
GQ039397.1 gg_id:430138 Topographical and Temporal Human Skin Microbiome skin popliteal fossa clone nbu GQ039
EU276577.1 gg_id:362681 -DGGE and Approaches Analyze Effect Agricultural Practices on Soil agricultural soil c EU276
AM934790.1 gg_id:572655 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM934
AM980880.1 gg_id:272797 Aspromonas sp. UK-29 AM980
FJ612198.1 gg_id:550784 and Biogeochemistry Dongping Lake Ecosystems lake water clone DP3.5.36 FJ6121
GQ264123.1 gg_id:585780 Structure Simulated Level Waste Site simulated level waste site clone WC3_60 GQ264
EF174287.1 gg_id:177737 direct activated sludge last compost maturation stage clone J56-814 EF1742
EU015100.1 gg_id:244451 Investigation estrogen-degrading bioreactors membrane bioreactor suspension and EU015
EF540404.1 gg_id:222135 oil-shale semi-coke solid waste clone 3_16MK EF5404
EU421886.1 gg_id:260668 Un-culturable Indian Himalayas soil under glacier Lahaul-Spiti Valley clone KC-84 EU421
AB008508.1 gg_id:7884 ultramicrobacterium str. DY01 AB008
AY963358.1 gg_id:156208 structures and correlated ecological factors soils two evergreen broad-leaved forests AY963
EF660758.1 gg_id:256944 Luteimonas aestuarii str. B9 EF6607
DQ984608.1 gg_id:253110 LY oil-contaminated soil clone LYC172 DQ984
AY218631.1 gg_id:203227 Penguin Droppings Sediments Ardley Island Antarctica clone KD4-32 AY218
EU150258.1 gg_id:278696 acidobacteria and soil Niwot Ridge LTER clone Ni_D2P1 EU150
AJ604540.1 gg_id:102773 Collembola-associated clone za04 AJ6045

3722.9	6876.7	7608.9	7269.5	6631.0	6278.4	7434.8	6757.7	7264.3	8098.6	8471.5
4180.0	3029.5	2911.2	3374.8	3492.2	3344.0	3897.7	3768.9	3606.7	3883.0	3638.3
370.3	6607.4	5495.4	7463.5	9815.9	6098.5	8462.6	6070.4	5495.8	4410.8	4692.9
41.1	1854.3	1806.0	1994.3	2712.8	935.8	2241.3	901.4	168.5	294.8	332.9
551.9	2495.3	2747.7	2871.9	4229.2	3371.6	5032.4	4400.8	1964.2	2345.2	2073.5
2138.0	4466.8	4357.5	5319.3	8025.1	4045.1	5319.1	4757.5	3437.0	2366.1	3830.3
1923.7	6980.4	7162.4	8712.0	9146.8	5207.8	6346.4	5763.4	4016.6	4817.2	8123.1
173.5	3773.6	3570.7	4144.3	12393.0	3557.7	4253.3	2453.1	1365.8	641.0	1197.3
16324.8	3646.2	3891.9	4515.1	5838.1	3808.3	4472.5	3459.3	3561.7	3672.4	4579.0
43.5	1353.7	847.4	949.4	1830.1	1112.9	1772.0	2767.1	870.9	1065.2	531.3
602.2	4516.8	4501.8	4705.7	5303.3	5235.2	5432.3	5346.3	4507.0	6203.7	3804.8
1027.3	4153.6	3835.2	5058.9	6969.5	5301.3	6816.3	3779.6	2381.7	5758.6	2852.9
6045.8	9479.5	7870.1	6483.9	9616.2	7663.7	8216.1	5341.1	10021.4	7683.4	6697.0
7261.2	6416.8	6262.0	8090.2	10093.5	6845.8	9227.6	7386.4	5461.5	5190.4	6583.2
166.3	5633.4	4933.9	5370.7	7865.7	4884.0	6078.1	4682.1	3002.3	4387.7	3383.1
1454.7	1713.0	2543.8	2292.6	2126.7	2579.4	1982.1	3182.8	2561.3	3318.2	2489.4
292.5	197.7	206.0	235.0	350.9	188.0	357.4	361.0	70.2	130.1	352.4
3814.1	3811.7	2920.1	3648.9	3777.6	3746.8	4590.6	3764.5	4012.1	3042.5	3629.0
2350.8	3544.5	3902.0	4352.3	6140.4	4984.7	5221.7	4748.9	2681.8	6363.4	2752.2
1895.0	3890.7	3665.1	4032.8	6040.5	3757.4	6540.9	4570.1	2038.5	3322.7	1932.1
131.4	6550.7	7440.6	8116.0	8646.7	3725.1	5247.5	4731.5	1773.2	1452.7	7448.5
2879.4	5378.4	5365.1	6270.4	7209.6	4893.2	5679.3	4315.0	4468.5	4019.9	3706.6
236.0	3030.2	2293.2	3310.8	6424.8	2447.4	4877.1	3965.5	2094.5	1364.8	1404.4
987.9	2699.3	2574.2	3114.1	3235.2	2538.7	2997.8	2822.0	2790.3	2117.7	3345.9
3299.8	4587.5	4127.3	4797.7	4894.9	4451.4	6489.0	4912.8	4406.9	5267.5	4191.6
2146.1	2465.7	2878.8	2950.5	4252.3	2685.9	2676.6	3037.7	1726.4	1899.1	2500.2
2548.2	7088.6	6392.3	6956.9	7925.0	7865.5	7494.4	6411.1	8292.9	9594.2	6411.7
3776.9	4132.5	4618.1	5627.7	7652.9	4610.9	6712.2	6424.0	2809.2	2711.5	4823.2
256.6	3789.9	3245.7	3415.0	4483.8	2994.8	6854.7	3654.1	1678.8	1030.3	2552.7
1437.5	8762.2	7132.3	4177.1	6171.7	7393.5	7627.7	4354.4	8643.2	6119.7	2848.8
40.3	108.9	94.3	87.3	148.8	97.4	125.0	110.4	53.9	73.7	64.9
83.5	867.5	989.6	909.8	1102.4	778.4	784.2	757.3	515.1	443.9	733.5
2772.3	7128.1	6232.7	7181.0	9024.1	6886.6	7599.6	7021.4	5320.7	8520.5	4438.3
14942.2	8214.3	7428.7	8268.1	9176.0	7502.1	7557.7	7614.7	9226.1	8063.1	10134.0
547.8	1685.5	2608.8	2564.6	1907.0	2795.6	1767.0	2208.2	1037.3	3577.7	1220.1
1216.3	3523.0	2740.2	3328.0	3711.4	3288.0	4945.9	3471.0	2362.0	3812.5	1978.3
153.0	5251.3	4581.2	5108.9	8335.3	3855.7	6831.7	3469.3	1733.3	2972.4	2058.0
5386.6	5326.2	4894.4	5461.3	8333.7	4342.4	6472.5	4459.9	3812.1	3649.4	3845.1
2961.8	2985.3	2424.0	2551.7	4142.3	2306.2	2035.5	1690.3	2291.2	1141.2	3389.8
52.2	169.6	64.2	53.3	569.9	33.6	47.2	50.1	49.3	30.9	45.9
49.5	71.8	78.4	96.3	123.7	106.5	73.3	77.0	48.1	136.2	38.7

5845.8	6176.6	6331.7
3571.3	4296.9	3467.4
6602.6	5661.3	6066.8
927.0	1053.5	811.9
4111.4	3284.4	3246.0
3602.1	3793.6	5243.6
4897.7	4670.0	3340.7
3009.6	2176.5	2135.3
3468.3	4442.3	3147.6
1491.8	1053.6	910.1
6062.6	6280.2	5692.5
5686.8	3734.7	3251.4
6003.9	5878.0	6469.8
8135.7	8312.0	7451.2
5144.6	4665.3	4722.5
2540.1	3065.7	1613.7
242.4	230.0	268.8
3766.8	4976.4	3201.0
4919.0	4647.1	4438.3
4594.1	3300.5	4637.0
2966.9	2939.3	2766.5
4811.2	5269.6	3733.3
3394.5	3211.2	3307.9
3819.7	3308.1	2754.1
5259.1	4982.0	4101.2
2999.4	3067.5	3595.4
6209.4	7073.9	6024.1
5069.2	4469.2	4351.0
4444.2	2298.6	2612.7
4326.6	2888.2	4305.2
145.7	132.9	122.7
618.7	1126.6	819.3
8931.0	5976.4	6291.1
7748.9	8472.5	6695.1
2256.4	2092.4	1727.6
3470.3	3534.8	2611.3
6612.6	3516.3	2550.3
5009.0	4381.9	4330.4
2072.7	1961.4	2364.9
40.2	76.1	91.7
156.5	246.8	52.3

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	16851
s__unclassified	16856
s__unclassified	16858
s__unclassified	16885
s__unclassified	16887
s__unclassified	16909
s__unclassified	16926
s__unclassified	16929
s__unclassified	16931
s__unclassified	16962
s__unclassified	16963
s__unclassified	17014
s__unclassified	17027
s__unclassified	17030
s__unclassified	17083
s__unclassified	17084
s__unclassified	17090
s__unclassified	17092
s__unclassified	17098
s__unclassified	17128
s__unclassified	17142
s__unclassified	17165
s__unclassified	17189
s__unclassified	17193
s__unclassified	17200
s__unclassified	17201
s__unclassified	17209
s__unclassified	17210
s__unclassified	17223
s__unclassified	17244
s__unclassified	17252
s__unclassified	17253
s__unclassified	17288
s__unclassified	17297
s__unclassified	17312
s__unclassified	17314
s__unclassified	17317
s__unclassified	17318
s__unclassified	17325
s__unclassified	17343
s__unclassified	17345

AJ318204.1 gg_id:74443 Waste-gas biofilter clone BIyi3 AJ3182
AY294012.1 gg_id:136003 activated sludge enriched nonylphenol ethoxylates clone S3A1 AY294(
FJ380131.1 gg_id:369488 ornithogenic Ross Sea region Antarctica AB1 soil clone 1/2/2D FJ3801
AY372931.1 gg_id:142723 marine sponge Pseudoceratina clavata symbiont AY372!
GQ396926.1 gg_id:592861 Functional unvegetated perhumid recently-deglaciated soils do not correlate shifts s GQ396
AB274846.1 gg_id:163937 Variation predominant microbial consortium N.22 d on medium containg aromatic a AB274!
FN563156.1 gg_id:590307 Impact changing HRT OLR on prokaryotes involved biomethanizitaion and fuzzy logic FN563
FJ380132.1 gg_id:367350 ornithogenic Ross Sea region Antarctica AB1 soil clone 1/2/4D FJ3801
EU236277.1 gg_id:297307 Haliclona gellius: sponge and symbionts 13 m depth Pacific Ocean clone HgCo4 EU236
GU208439.1 gg_id:559226 Study on Sediment Dongping Lake sediment clone Fr3-6 GU208
GU444064.1 gg_id:514899 Effects amendments on fertility and microbial structure cucumber Cucumis sativus L GU444
AM490086.1 gg_id:202402 Xanthomonas sp. str. P2-12-1 AM490
GQ009333.1 gg_id:500330 Topographical and Temporal Human Skin Microbiome skin interdigital web space clc GQ009
DQ228359.1 gg_id:142243 microbial compositions two subglacial possible role microbes chemical weathering p DQ228
AJ311653.1 gg_id:71415 Fulvimonas soli str. LMG 19981T AJ3116
X95919.1 gg_id:7871 Xanthomonas axonopodis str. LMG 538-T X95919
AM991237.1 gg_id:279266 Microbial groundwater and their potential use biomonitoring karst spring water clo AM991
AF523890.1 gg_id:63325 forested wetland clone RCP1-10 AF5238
GU250856.1 gg_id:580658 Anaerobic biodegradation branched hydrocarbon biomarker analog pristane waste GU250
EU237492.1 gg_id:241713 Lysobacter sp. str. XM415 EU2374
GQ250435.1 gg_id:585059 Xanthomonas sp. str. MJ09 GQ250
EU662625.1 gg_id:583425 Productivity- Chemolithoautotrophically Based Sulfidic Karst Systems floating microb EU662
EU134744.1 gg_id:253642 tallgrass prarie soil clone FFCH13468 EU134
DQ458014.1 gg_id:158419 acid mine drainage clone DX17 DQ458
AB288902.1 gg_id:202916 termite gut homogenate clone BOf5-13 AB288
DQ001634.1 gg_id:157598 Microbial seeps asphalt seep clone E91-46 DQ001
DQ660840.1 gg_id:238846 DongChuan copper pyrites PRC determined acid mine drainage (AMD) clone DCN-I-1 DQ660
AM934799.1 gg_id:539344 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM934
AB245363.1 gg_id:147794 Lysobacter ginsengisoli str. Gsoil 357 AB2453
EU104170.1 gg_id:351052 Evidence Comamonadaceae determinants settling performance activated sludge clo EU104
FJ674765.1 gg_id:516410 Synecology primary and secondary habitats Escherichia coli O157:H7 feedlot surface I FJ6747
EU834776.1 gg_id:513843 methods extraction nucleic acid activated lab scale EBPR-activated sludge clone L68 EU834
EU449638.1 gg_id:575082 Soil are Changed Agricultural Practices agricultural soil clone Plot4-2H07 EU449
AJ307936.1 gg_id:50142 derived microbial 'pearl'- community clone sipK9 AJ3079
EF157085.1 gg_id:237178 Microbial natural asphalts rancho la brea heavy oil seeps Rancho La Brea tar pits clon EF157
EF492981.1 gg_id:235704 Iron-manganese Nodule and Its Surrounding Soil soil around iron-manganese nodule EF4929
GU208447.1 gg_id:580506 Study on Sediment Dongping Lake sediment clone Fr2-6 GU208
GU208400.1 gg_id:539242 Study on Sediment Dongping Lake sediment clone Fh2-4 GU208
EF648150.1 gg_id:257386 dynamics during produced water treatment aerobic activated sludge clone XJ100 EF6481
EU134776.1 gg_id:244985 tallgrass prarie soil clone FFCH9956 EU134
GU169062.1 gg_id:584355 Biofilms formed on substances: response f conditions and carbon concentrations syr GU169

313.8	4277.7	4123.1	4690.0	5820.1	3866.4	7456.0	3531.8	3610.3	3754.1	3398.7
88.8	2110.7	1796.7	2095.3	3447.7	1713.8	3295.8	2129.5	1020.7	1392.6	1082.4
84.2	96.3	87.5	104.0	589.1	195.8	296.4	141.7	88.2	76.3	52.9
434.9	5736.7	5083.6	6207.2	9030.0	5621.9	8086.0	4183.1	2724.2	7599.6	3188.9
9767.6	9489.0	8840.8	10284.0	12680.1	9384.1	11733.1	8935.0	7806.5	11280.0	10076.5
48.2	188.7	284.5	163.8	197.3	140.7	454.5	179.8	63.4	80.4	125.8
792.5	2888.5	3824.5	3422.3	4041.1	3270.9	3576.0	4488.0	2574.2	2241.0	3234.6
46.4	449.7	434.1	375.9	484.0	302.2	100.2	337.6	50.5	139.8	54.7
186.1	3704.9	3919.2	4500.6	6991.6	4110.8	5988.9	3998.2	1790.0	3186.6	2041.0
1049.4	6189.6	6443.7	7376.6	11837.4	6246.0	5896.0	5903.7	3884.3	6201.4	4246.9
2194.0	6386.7	6182.9	7178.7	10258.9	6683.0	9723.0	7282.5	4433.3	9342.8	4739.0
103.1	4766.1	3766.1	4679.4	7569.8	3570.8	5839.4	4354.2	2829.8	2526.2	2740.1
11737.7	6871.8	5907.1	6786.4	8107.8	5904.2	8017.1	5811.4	4633.8	6162.3	4891.3
136.2	811.9	759.4	1097.7	6071.4	799.0	3364.6	452.7	137.9	120.9	233.5
1703.5	4967.5	4729.4	5180.1	7696.7	5263.9	6143.6	5996.2	3850.1	3327.6	4010.6
374.8	1864.3	1761.2	1866.8	3177.1	1708.5	1848.1	1480.3	1330.7	2124.7	1424.0
3698.3	6276.9	7091.9	8642.5	7594.8	6659.4	9182.1	7556.1	5299.7	5531.5	7286.0
308.5	987.5	1139.2	1342.0	2284.1	1562.4	1674.5	1276.0	626.1	714.8	670.9
671.5	2208.2	1930.7	2816.0	3125.4	2011.4	2700.3	2599.5	1506.9	1399.8	2219.1
3599.3	7011.6	7069.7	8016.7	9551.6	7240.3	8170.8	7237.7	5924.2	4954.7	6283.3
203.8	4156.6	3898.4	4339.6	8490.6	4505.3	6626.4	3376.6	1716.4	4106.6	1861.4
518.3	2508.1	2551.1	2496.7	3400.1	2621.7	3229.2	2668.7	1564.2	2824.9	2222.0
9232.9	10665.9	9554.5	10967.8	11904.0	9125.8	12527.0	9312.4	9526.1	8273.2	11729.8
7412.6	6449.8	6909.1	7134.6	8845.2	7137.3	7862.8	6926.2	4751.1	4921.0	7984.1
17625.8	6916.9	6447.0	7183.3	8937.3	6702.0	7731.7	5579.3	7517.6	7558.6	7435.9
33.1	72.7	282.0	167.0	101.8	100.4	34.3	278.6	71.4	302.0	51.1
583.3	2330.4	2526.5	2596.4	2223.9	2874.2	2254.3	3835.6	1227.7	3629.7	3109.6
6748.6	5986.7	5745.3	6605.8	9135.5	6605.6	8188.4	6692.4	5340.5	9981.3	2754.1
393.2	6201.4	5395.7	5631.9	9072.2	4062.8	6925.7	4754.1	3355.7	4467.1	5041.4
4353.2	7490.0	7246.5	8135.6	8991.8	7110.3	9967.0	7588.9	5885.0	5414.6	8237.6
3217.7	3598.7	4198.7	2867.3	4372.3	4300.0	4065.6	4610.8	4181.0	7092.7	3757.0
1712.6	5166.1	4982.2	5667.5	9740.0	5822.9	7147.2	5599.1	3197.8	3844.9	3750.7
9211.5	5846.5	5986.2	6789.8	7679.2	6528.2	7179.3	7912.9	7604.2	4360.3	8225.7
420.4	243.1	245.9	215.0	401.2	206.2	254.6	180.0	120.9	106.1	142.8
1689.0	4897.5	5315.4	5824.1	8199.1	5314.6	8600.3	6034.8	3786.8	6038.1	4221.0
11292.9	6769.9	5370.7	7419.6	8061.8	7163.4	6429.7	7151.8	6855.6	4882.6	8581.4
2496.1	7387.7	7076.5	8161.1	10791.8	6331.7	9750.7	6683.8	5364.6	4186.4	4913.6
7569.0	8546.3	9528.3	9820.7	12264.0	8015.3	11796.1	8737.7	7076.6	8570.9	8949.0
770.0	5645.0	4735.8	5684.3	8397.8	4963.9	9226.9	4813.7	3926.9	3936.0	3038.8
4220.6	8788.4	8227.2	9430.4	14928.9	7611.2	10418.4	6743.8	5918.1	7134.9	6695.6
1138.0	3186.9	2998.9	3151.9	5589.8	3794.9	4256.5	3212.4	2195.4	1908.8	2701.4

4247.8	3187.3	2509.3
1751.0	1201.3	1741.8
177.0	163.0	167.5
7315.0	4277.2	3080.5
10694.4	9467.2	8696.0
140.5	185.5	115.6
4140.9	4705.9	3576.9
1023.7	556.9	2688.9
4307.1	4231.8	4681.2
6122.0	6293.1	5835.0
8307.7	5918.0	6174.0
3819.9	2963.5	3556.4
7729.6	6647.0	6196.0
666.6	832.3	153.9
6912.9	5625.9	6514.9
1773.1	2097.4	1738.2
6885.2	6893.2	6426.1
1626.5	1691.8	1385.4
4289.3	2185.6	2459.3
7068.1	7527.0	7099.8
4020.2	3522.3	1748.2
4045.1	2994.2	2962.1
10118.2	9721.6	9083.5
6540.8	7022.3	7290.4
5744.6	7266.5	5517.6
94.9	111.6	131.4
4069.4	4217.0	4217.2
7155.8	6822.1	5463.3
4924.7	3456.3	2815.4
7948.2	6845.1	7236.5
4905.2	4628.9	5082.6
5707.1	4677.0	4463.0
6595.3	7574.2	6311.2
172.2	338.3	219.9
5456.6	4945.1	3606.5
7097.0	6939.1	6385.8
6529.2	6326.7	5979.4
9239.9	8314.7	8827.7
4958.8	4237.8	4992.6
7351.1	5857.2	5573.3
3656.0	3614.0	3089.9

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas

s__unclassified	17354
s__unclassified	17358
s__unclassified	17361
s__unclassified	17377
s__unclassified	17412
s__unclassified	2474
s__unclassified	2547
s__unclassified	2656
s__unclassified	15933
s__unclassified	16134
s__unclassified	16309
s__unclassified	16319
s__unclassified	16332
s__unclassified	16342
s__unclassified	16371
s__unclassified	16407
s__unclassified	16459
s__unclassified	16504
s__unclassified	16537
s__unclassified	16546
s__unclassified	16572
s__unclassified	16710
s__unclassified	16763
s__unclassified	16826
s__unclassified	16888
s__unclassified	16939
s__unclassified	17019
s__unclassified	17105
s__unclassified	17109
s__unclassified	17120
s__unclassified	17151
s__unclassified	17169
s__unclassified	17265
s__unclassified	17414
s__Xanthomonas axonopodis	15910
s__Xanthomonas axonopodis	15943
s__Xanthomonas axonopodis	15980
s__Xanthomonas axonopodis	16008
s__Xanthomonas axonopodis	16024
s__Xanthomonas axonopodis	16146
s__Xanthomonas axonopodis	16161

EU775768.1 gg_id:323292 Horse feces clone horsem_aai94g01 EU775
AY102313.1 gg_id:65469 clone a13106 AY1023
EU134748.1 gg_id:249305 tallgrass prarie soil clone FFCH14140 EU134
GQ129910.1 gg_id:457990 Genetic inventory 'JPL-SAF' during MSL mission spacecraft assembly clean room floc GQ129
GQ396811.1 gg_id:511988 Functional unvegetated perhumid recently-deglaciated soils do not correlate shifts s GQ396
FJ598363.1 gg_id:512980 Study Prokaryotic Some Selected Niches Western Ghats India water clone BCWCWP1 FJ5983
AB118236.1 gg_id:100967 Halothiobacillus sp. str. SO07 AB118
FJ947035.1 gg_id:542102 Study Prokaryotic Some Selected Niches Western Ghats India sediment clone BCWCS FJ9470
GU144259.1 gg_id:542178 Xanthomonas arboricola pv. poinsettiicola str. LMG 8675 GU144
Y10754.1 gg_id:7889 Xanthomonas hyacinthi str. LMG 739 T Y10754
AY247064.1 gg_id:83056 Xanthomonas translucens pv. graminis AY247
AF000946.1 gg_id:7876 Xanthomonas pv. campestris str. Xc17 AF000
Y10766.1 gg_id:7862 Xanthomonas sacchari str. LMG 471 T Y10766
Y10756.1 gg_id:7878 Xanthomonas melonis str. LMG 8670 T Y10756
NR_029332.1 gg_id:587741 Xanthomonas theicola str. TC1; LMG 8684 NR_02
EF101975.1 gg_id:186642 Xanthomonas campestris str. EUS14 EF1019
X99298.1 gg_id:7880 Xanthomonas campestris str. LMG 726 X99298
GU086451.1 gg_id:544600 Xanthomonas campestris str. N5 GU086
AY253329.1 gg_id:85823 Xanthomonas translucens pv. poae AY2533
AF290420.1 gg_id:73182 Xanthomonas campestris 19316a AF2904
NZ_ACHS01000481.1 gg_id:531786 Xanthomonas campestris pv. vasculorum str. NCPPB702 NZ_AC
AY994101.1 gg_id:156291 Xanthomonas translucens str. P25 AY9941
NR_026387.1 gg_id:572380 Xanthomonas cucurbitae str. LMG 690 NR_02
AY572961.1 gg_id:99262 Xanthomonas translucens pv. poae str. ATCC 33804 AY5729
EU723184.1 gg_id:344976 Xanthomonas sp. str. kmd_489 EU7231
GU373652.1 gg_id:527773 Xanthomonas pv. campestris str. XCC10 GU373
X95918.1 gg_id:7894 Xanthomonas albilineans str. LMG 494-T X95918
FJ606765.1 gg_id:539828 Xanthomonas arboricola pv. pruni str. LMG852 FJ6067
Y10761.1 gg_id:7857 Xanthomonas vesicatoria str. LMG 911 T Y10761
Y10764.1 gg_id:7856 Xanthomonas bromi str. LMG 947 T Y10764
X95922.1 gg_id:7861 Xanthomonas populi str. LMG 5743-T X95922
NC_007705.1 gg_id:152746 Xanthomonas pv. oryzae str. MAFF 311018 NC_00
EU364838.1 gg_id:564962 Xanthomonas pv. campestris Xcc-H9 EU3648
EU741037.1 gg_id:338929 Xanthomonas sp. str. FeL06 EU741
AY576651.1 gg_id:105820 Xanthomonas axonopodis pv. syngonii str. X191 AY5766
AY576639.1 gg_id:105873 Xanthomonas axonopodis pv. dieffenbachiae str. LMG8664 AY5766
AY576652.1 gg_id:105970 Xanthomonas axonopodis pv. syngonii str. LMG9055 AY5766
AF442744.1 gg_id:68801 Xanthomonas axonopodis pv. citri str. Lw AF4427
EF101979.1 gg_id:191402 Xanthomonas axonopodis str. MSF EF1019
Y10765.1 gg_id:7883 Xanthomonas codiaei str. LMG 8678 T Y10765
AF442739.1 gg_id:68804 Xanthomonas axonopodis pv. aurantifolii str. X84 pv. AF4427

1231.2	6411.6	5504.0	5061.5	6519.2	5962.9	6457.4	4775.3	5014.7	5091.7	3681.0
77.5	50.8	50.2	53.9	62.8	110.5	57.2	96.2	43.2	73.3	240.0
1510.6	8738.6	7495.7	8765.8	9560.2	7393.4	9087.6	7746.8	8098.3	7813.7	8109.8
377.2	1402.0	1457.2	1510.2	2349.5	1465.4	1951.5	1819.4	491.4	1660.2	805.1
5101.7	7413.2	7043.2	7351.6	11978.8	6302.4	7312.1	5788.8	7947.0	7057.6	5658.9
255.9	3951.7	4142.5	4851.5	3184.0	3550.0	2443.9	2925.7	2481.7	4587.4	2206.9
415.3	4010.2	4454.9	5326.3	3407.8	2518.4	2997.1	3334.6	1965.0	2375.4	2524.0
7977.3	6033.6	6077.1	7277.3	5715.1	4739.1	4765.0	6189.6	6152.8	5684.4	6526.0
1420.5	2942.2	2911.4	3488.2	4196.1	5078.4	3610.1	3048.8	1717.8	7941.0	3075.5
1319.5	3248.5	3374.5	3416.5	3915.0	3306.1	4082.1	4026.4	2242.0	3112.3	2917.3
5581.4	6361.5	6915.7	7896.3	8044.4	6946.4	9384.8	6565.0	4000.4	8439.4	7005.8
1631.4	4272.1	4132.4	4883.2	5768.9	5606.8	5225.7	4024.7	2756.4	7906.4	4194.8
4140.8	3454.9	3618.0	4154.8	5970.3	4449.2	4236.5	3891.6	1961.6	4687.7	3367.3
1752.4	2033.9	2363.4	2974.9	2805.3	2115.5	2769.2	3024.0	1190.2	804.4	1800.9
642.7	3248.1	2721.1	2477.8	2851.2	3212.8	2581.0	2303.6	2738.3	2639.6	1873.9
4235.4	5155.7	6422.4	7299.0	6541.9	6872.0	6363.7	6631.1	5087.7	10979.2	6877.5
13157.8	5612.0	6197.0	7365.2	7443.3	6435.2	8025.2	6915.8	4410.1	5604.8	8507.0
1527.3	4532.9	4276.5	5163.8	6186.7	6449.7	5687.1	4167.4	2756.8	9653.5	4251.7
8432.3	3759.8	4390.7	4838.4	5678.5	5105.4	6301.8	5257.8	2302.4	5678.3	5163.9
20775.7	6654.5	6754.7	8383.2	7543.0	6514.0	8059.4	6465.0	6805.8	7124.9	9266.7
181.5	1679.2	1759.7	1876.4	2623.7	2809.6	1785.1	1749.9	986.7	3412.8	2272.9
8427.6	4375.7	4875.0	5519.5	6396.5	5550.4	6692.1	5880.7	2731.6	6018.3	6056.6
2373.9	5160.8	4807.9	5626.3	7109.0	6931.3	6327.1	4744.0	3631.0	9911.0	4719.0
8353.9	3840.8	4395.0	4958.8	5561.7	5176.1	6278.0	5326.0	2567.6	5270.3	5417.1
286.1	3747.6	3723.0	3874.4	5839.3	5132.0	5206.8	5258.2	2185.8	5430.6	3524.3
15393.5	5788.7	4306.9	6338.9	6085.1	7463.9	7152.7	4915.7	6879.7	11726.6	7171.5
1630.7	4211.4	4683.5	5503.1	6096.8	4334.3	5534.6	4942.8	1925.8	4085.7	3627.1
285.3	3244.6	3071.4	3651.3	4460.9	5134.3	3560.3	2814.1	1678.4	7720.5	3241.7
1367.2	4386.8	4355.8	5460.8	6493.4	6245.5	5643.8	4187.4	2586.4	9011.5	4003.7
231.8	1937.6	2097.5	2223.7	2751.4	3479.6	1818.8	1860.0	1026.7	4969.3	2264.5
2460.9	5412.7	5174.6	6168.0	7795.6	7148.8	7089.6	5016.4	3506.4	10350.0	3997.5
203.1	1903.2	1979.3	2194.6	2977.3	3310.1	1772.6	1964.7	1110.0	5030.8	2590.0
8314.8	5564.8	5791.1	6617.5	6872.4	6750.8	7754.9	6059.1	5897.9	8821.1	5294.5
13465.6	5018.6	5213.9	6157.2	7587.7	6585.6	6427.1	5428.1	3386.5	7686.1	6008.3
537.4	1877.4	2291.4	2235.9	2399.3	2724.6	2364.1	1673.1	837.7	3566.9	1176.1
218.2	3285.5	3477.7	3902.3	5307.6	4826.2	4419.9	3403.9	1862.6	6981.9	2003.4
857.6	3627.2	4235.3	4110.8	4690.2	3528.9	4407.7	3240.8	2797.1	3934.5	4412.1
200.1	3104.7	3382.6	3754.5	5038.5	4585.3	4517.6	3250.0	1798.9	6414.0	1892.4
45286.0	12255.3	10708.3	12348.0	11823.0	11418.4	12829.0	9800.0	15509.6	14366.1	15204.5
201.2	3074.4	3320.0	3743.0	5073.2	4649.8	4275.7	3226.9	1785.5	6572.1	1890.9
1238.7	5332.9	5443.2	6004.9	8221.0	7024.7	6593.5	5383.1	3477.3	9903.6	3667.2

4862.1	3775.5	6442.3
38.3	54.1	99.6
6662.3	7144.3	6011.2
2509.3	1619.3	919.1
6332.1	6269.5	5804.2
3520.5	3043.5	2901.9
2613.5	2733.9	2044.1
5548.7	5768.4	4395.0
6108.5	3299.4	2327.2
3475.5	4805.6	2358.7
7133.1	5767.1	3465.8
6628.6	4097.0	2967.5
5531.3	5008.5	1456.9
2882.8	3758.4	1656.1
3824.2	2956.6	2683.1
7323.9	7544.9	6833.1
7155.6	6723.9	4453.5
7268.5	4360.0	3069.0
5296.3	5067.5	2117.5
7344.3	7303.5	5143.7
4393.5	2351.0	1297.5
5629.7	5573.1	2855.9
7695.0	4827.9	3698.3
5218.7	5400.7	2294.2
4255.4	5108.3	3109.9
8079.0	6778.8	4545.6
4482.8	4532.9	2545.3
6079.1	3234.1	1831.5
7138.1	4368.0	3332.1
4953.8	2031.0	1213.5
8118.1	5766.6	4843.6
5035.2	2218.1	1370.6
6827.3	7401.2	5812.2
6525.3	6126.9	2713.0
4747.3	2564.2	1747.5
6745.6	3990.2	2991.3
4327.1	4427.3	3751.0
6551.5	3674.6	2799.1
11332.8	10902.1	10090.3
6525.3	3642.1	2795.6
8528.2	5844.1	4827.4

k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified

o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__Xanthomonadales	f__Xanthomonadaceae
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified

g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xanthomonas
g__Xylella
g__Xylella
g__Xylella
g__Xylella
g__Xylella
g__Xylella
g__Xylella
g__Xylella
g__Xylella
g__Xylella
g__sfA
g__sfA
g__sfA
g__sfA
g__sfB

s__Xanthomonas axonopodis	16163
s__Xanthomonas axonopodis	16425
s__Xanthomonas axonopodis	16429
s__Xanthomonas axonopodis	16501
s__Xanthomonas axonopodis	16894
s__Xanthomonas axonopodis	16916
s__Xanthomonas axonopodis	17016
s__Xanthomonas axonopodis	17017
s__Xanthomonas axonopodis	17194
s__Xanthomonas axonopodis	17217
s__Xanthomonas axonopodis	17221
s__Xanthomonas axonopodis	17270
s__Xanthomonas axonopodis	17348
s__Xanthomonas axonopodis	17360
s__Xanthomonas axonopodis	17384
s__Xanthomonas oryzae	15986
s__Xanthomonas translucens	16052
s__Xanthomonas translucens	16137
s__Xanthomonas translucens	16664
s__Xanthomonas translucens	16944
s__Xanthomonas translucens	17093
s__Xanthomonas translucens	17118
s__Xanthomonas translucens	17171
s__Xanthomonas translucens	17237
s__Xanthomonas translucens	17295
s__Xanthomonas translucens	17352
s__Pseudomonas boreopolis	15998
s__Pseudomonas boreopolis	16320
s__unclassified	16002
s__unclassified	17033
s__Xylella fastidiosa	16475
s__Xylella fastidiosa	16479
s__Xylella fastidiosa	16539
s__Xylella fastidiosa	16755
s__Xylella fastidiosa	16773
s__Xylella fastidiosa	17313
s__unclassified	2549
s__unclassified	2556
s__unclassified	2570
s__unclassified	2902
s__unclassified	70875

AY576650.1 gg_id:105665 Xanthomonas axonopodis pv. syngonii str. X430 AY576
X99297.1 gg_id:7901 Xanthomonas campestris str. LMG 682 X99297
AY576648.1 gg_id:101916 Xanthomonas axonopodis pv. dieffenbachiae str. X195 AY576
EF989734.1 gg_id:258137 Xanthomonas axonopodis pv. spondiae str. CFBP 2547 EF9897
EF101977.1 gg_id:174832 Xanthomonas axonopodis str. IP1-36 EF1019
AY576642.1 gg_id:100921 Xanthomonas axonopodis pv. dieffenbachiae str. ATCC 23379; LMG 7399 AY576
X95920.1 gg_id:7869 Xanthomonas fragariae str. LMG 708-T X95920
AY576640.1 gg_id:100609 Xanthomonas axonopodis pv. dieffenbachiae str. LMG7400 AY576
GU144258.1 gg_id:578397 Xanthomonas axonopodis pv. poinsettiicola str. LMG 849 GU144
AY576645.1 gg_id:101405 Xanthomonas axonopodis pv. dieffenbachiae str. X1688 AY576
AF442743.1 gg_id:68800 Xanthomonas axonopodis pv. citri str. MA AF4427
AF442740.1 gg_id:68803 Xanthomonas axonopodis pv. aurantifolii str. X341 AF4427
AY576641.1 gg_id:100760 Xanthomonas axonopodis pv. dieffenbachiae str. LMG695 AY576
GU112762.1 gg_id:572972 Xanthomonas campestris pv. mangiferaeindicae str. Xcm3 GU112
AF442742.1 gg_id:68799 Xanthomonas axonopodis pv. citri str. MI AF4427
AE013598.1 gg_id:112369 Xanthomonas pv. oryzae str. KACC10331 AE0135
AY855845.1 gg_id:154990 Xanthomonas translucens pv. poae str. LMG 728 AY8558
AY855874.1 gg_id:154350 Xanthomonas translucens pv. graminis Xtg31 AY8558
AY855844.1 gg_id:156167 Xanthomonas translucens pv. arrhenatheri str. LMG 727 AY8558
AY855848.1 gg_id:153580 Xanthomonas translucens pv. graminis Xtg03 AY8558
AY855846.1 gg_id:153182 Xanthomonas translucens pv. graminis Xtg01 AY8558
AY855872.1 gg_id:152764 Xanthomonas translucens pv. graminis Xtg29 AY8558
AY855857.1 gg_id:155672 Xanthomonas translucens pv. graminis Xtg12 AY8558
AY855871.1 gg_id:151132 Xanthomonas translucens pv. graminis Xtg28 AY8558
AY855869.1 gg_id:153002 Xanthomonas translucens pv. graminis Xtg25 AY8558
AY855862.1 gg_id:151559 Xanthomonas translucens pv. graminis Xtg18 AY8558
AB246809.1 gg_id:149852 Pseudomonas boreopolis str. Q-5 AB2468
AJ864722.1 gg_id:199736 Pseudomonas boreopolis str. S2-s-PMWA-6 AJ8647
AF203388.1 gg_id:21170 Xylella fastidiosa str. PL.788; ATCC35871 AF2033
AF203392.1 gg_id:25098 Xylella fastidiosa str. PE.PLS AF2033
EU526732.1 gg_id:259129 Xylella fastidiosa str. EO EU5267
AF159572.1 gg_id:7844 Xylella fastidiosa str. PCE-FG; ATCC35881 AF1595
EF433940.1 gg_id:214495 Xylella fastidiosa CaVc3 EF4339
EF433931.1 gg_id:208471 Xylella fastidiosa VvIIc2 EF4339
DQ991191.1 gg_id:197140 Xylella fastidiosa str. 4BD7 DQ991
AF159576.1 gg_id:7848 Xylella fastidiosa str. Mul-2 AF1595
EF157080.1 gg_id:243037 Microbial natural asphalts rancho la brea heavy oil seeps Rancho La Brea tar pits clon EF1570
EF095437.1 gg_id:579168 Application and DGGE fingerprinting detection microbial Malaysian sweet crude oil cl EF0954
EF095417.1 gg_id:581718 Application and DGGE fingerprinting detection microbial Malaysian sweet crude oil cl EF0954
EF095420.1 gg_id:571046 Application and DGGE fingerprinting detection microbial Malaysian sweet crude oil cl EF0954
AY770703.1 gg_id:111106 sea urchin Paracentrotus lividus clone PlS55 AY7707

611.9	2674.2	3135.8	3122.7	3791.1	3462.0	3667.9	2476.7	1332.4	4371.0	2140.3
796.8	5316.0	5454.5	6090.0	8468.3	6859.8	6810.2	5583.7	3411.9	9241.8	3484.7
2226.8	4626.6	5214.7	5297.9	7269.5	6913.0	6637.2	5235.2	2777.5	8966.2	3294.7
9183.8	4346.7	4149.0	4574.7	4338.2	5354.8	4417.7	4160.0	5347.2	7343.0	4933.5
21342.1	12103.9	11131.2	12688.4	12877.6	10274.8	12309.5	9721.6	14661.3	11554.2	13692.5
1522.4	5189.7	5521.6	5879.2	8711.6	7155.7	6976.3	5552.0	3012.2	10003.5	3482.8
2884.1	3469.8	3717.2	3863.9	5316.9	5346.8	4663.3	3618.8	1888.4	6866.9	3228.9
21956.9	7522.5	7815.9	8564.6	9039.5	8628.2	9615.6	7535.4	8647.7	10227.8	10199.9
1691.5	5131.4	5142.2	5856.0	8226.8	6623.1	6671.8	5272.4	3499.9	9438.7	2958.4
360.6	2884.0	3032.5	3153.9	2982.2	3480.7	3224.6	3477.9	2533.3	6407.4	3089.8
200.3	2963.2	3276.9	3623.2	5042.1	4326.0	4509.7	3125.4	1693.3	5755.2	1843.1
7102.2	4529.9	5477.7	6551.9	6028.4	5750.4	5814.9	5891.4	4404.0	6719.9	6268.7
1615.3	4373.6	4661.9	4919.2	7131.4	6287.2	5717.2	4647.7	2556.5	8779.8	2944.2
766.8	3481.8	3625.0	4221.9	5835.2	4687.4	4928.7	3740.7	2281.5	6805.9	1709.6
720.5	4688.5	4899.8	5388.7	7290.3	6401.0	6281.2	4771.9	3017.2	8954.5	3063.2
204.1	2375.0	2434.6	2754.5	3358.0	4170.1	2228.5	2422.9	1427.7	6667.1	2932.8
8388.1	3965.0	4435.4	4669.7	5859.4	5283.6	6531.5	5765.9	3153.4	5161.3	5779.4
9426.8	5999.0	6210.0	6843.1	8366.1	7048.6	8524.7	7402.4	4616.9	7215.5	7525.9
19553.3	8571.7	9101.2	10534.7	9092.8	9426.7	10287.9	9138.9	11713.2	7967.2	12139.1
12230.0	6328.2	6684.9	7256.9	8551.0	7269.3	9020.3	8073.2	5029.2	6783.8	8926.7
13159.5	6190.0	6156.7	6991.2	7685.3	6762.0	8168.4	6333.6	7002.6	7854.3	8677.0
1876.9	3855.9	3903.4	4296.0	5528.1	7038.0	5392.2	4633.3	2274.6	9587.6	3462.1
11600.1	5341.3	5644.9	6172.1	7497.4	6532.2	7778.0	6930.2	3898.5	6634.2	7471.4
13163.4	5409.2	5859.0	6411.5	7189.0	6438.9	8190.8	7362.4	4563.2	5826.9	8463.2
4233.7	7488.4	7646.4	8514.7	11143.0	8188.9	10575.0	7872.2	7577.4	9297.0	6455.5
5006.2	4748.9	4743.9	5230.1	7133.0	6490.9	6681.1	5767.5	2715.2	8333.7	4686.4
2854.3	4837.9	5476.5	5871.8	6339.5	6123.4	6048.3	5610.3	6047.6	8110.6	5632.1
1263.6	2932.1	2633.0	3178.5	5607.3	3900.4	4127.5	2277.9	1537.1	3652.1	1534.6
1255.2	5500.7	4344.2	4436.3	6067.6	4654.5	5918.9	4283.4	4574.7	5804.5	3785.4
18783.9	8993.0	7877.6	7449.5	11263.7	8331.2	9440.0	7048.1	12238.4	9463.9	9845.0
692.8	3639.8	3006.4	3752.3	4477.2	4272.6	5006.5	3193.2	1824.9	6715.1	2381.1
4466.6	5010.5	4419.8	4977.7	4657.4	4505.2	5047.5	4084.3	5839.5	4738.2	4979.2
1139.7	3455.8	3046.9	3454.9	3743.0	5055.3	4157.5	2861.1	2641.0	8706.1	2123.3
274.8	2773.6	3092.4	3129.0	2943.8	3634.1	3564.8	3608.1	1756.4	2834.8	3076.3
10430.0	5622.9	4985.5	5725.4	5277.9	5962.9	5583.9	4425.0	6840.2	8023.1	6209.7
3743.5	3284.8	2834.6	3405.7	3473.5	3827.5	3813.7	3502.4	3047.0	4882.1	2391.7
9682.3	6887.3	7798.7	9301.1	8639.7	7711.2	9123.2	7278.6	6129.9	6022.3	7296.3
2032.3	8261.6	8055.8	6108.3	6112.4	7087.9	7356.5	6352.6	7905.0	9909.3	6302.1
10126.8	5184.7	5532.8	5912.4	6656.8	5592.9	6994.3	5419.9	3948.2	3045.4	5625.2
13501.9	6718.1	5753.3	6142.9	5681.8	6083.6	6870.3	5185.3	6491.7	4590.6	8937.2
3400.9	3464.2	4074.6	5238.7	3046.1	3848.2	2918.8	4723.6	4947.4	5152.4	4404.6

5458.3	3287.0	2755.4
8285.8	5606.8	4826.1
8065.3	5092.9	4907.6
5993.9	5505.6	3634.0
10226.7	11846.1	10887.6
8480.2	5535.8	4783.2
5854.4	3892.9	2609.2
8894.2	8249.7	7459.3
8311.3	5115.7	4045.9
4127.2	4340.6	2788.9
6367.0	3552.9	2744.0
7488.8	6409.7	5567.2
7779.2	4781.5	3858.7
6811.6	3852.7	2879.4
8025.8	4948.8	3970.9
5606.1	2552.6	1645.5
5446.6	6031.0	3149.9
7670.6	6945.6	5392.1
8746.6	11377.2	8004.3
7584.8	7163.6	5405.4
7755.2	7282.1	6124.5
7051.9	5010.3	2765.6
7029.1	6485.8	4044.0
6903.1	6729.1	4594.5
8924.3	8230.8	7697.2
6862.2	5875.9	3577.2
5344.0	7002.6	5467.1
4028.9	2647.5	1967.3
4283.1	4278.7	3674.1
7415.3	8271.0	7570.0
4712.2	3363.8	2894.1
3771.2	6114.8	3919.5
5386.8	3801.8	2754.0
3820.2	2810.8	2730.6
5818.2	5195.3	4164.7
4046.0	4617.9	3428.3
7710.2	7558.7	9996.7
6580.7	6563.9	5680.5
5047.3	6341.2	8083.7
5295.0	6951.7	6378.7
5378.1	5220.0	3742.8

k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__unclassified
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__Proteobacteria	c__Zetaproteobacteria
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16

o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Mariprofundales	f__Mariprofundaceae
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017

g__sfB
g__sfC
g__sfC
g__sfD
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Mariprofundus
g__Arctic95A-2
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SargSea-WGS
g__SGSH944
g__SGSH944
g__SGSH944
g__SGSH944
g__SGSH944
g__SGSH944
g__SGSH944
g__SGSH944
g__SGSH944
g__SGSH944

s__unclassified	71210
s__unclassified	2532
s__unclassified	3104
s__unclassified	2661
s__Mariprofundus ferrooxydans	53443
s__unclassified	53119
s__unclassified	53224
s__unclassified	53237
s__unclassified	53250
s__unclassified	53319
s__unclassified	53358
s__unclassified	53414
s__unclassified	53525
s__unclassified	53543
s__unclassified	53604
s__unclassified	53822
s__unclassified	53840
s__unclassified	53921
s__unclassified	53931
s__unclassified	54597
s__unclassified	54086
s__unclassified	54167
s__unclassified	54289
s__unclassified	54338
s__unclassified	54495
s__unclassified	54632
s__unclassified	54740
s__unclassified	54769
s__unclassified	54780
s__unclassified	54805
s__unclassified	54882
s__unclassified	54069
s__unclassified	54080
s__unclassified	54198
s__unclassified	54294
s__unclassified	54368
s__unclassified	54410
s__unclassified	54581
s__unclassified	54641
s__unclassified	54670
s__unclassified	54680

DQ917864.1 gg_id:222711 Microbial profiles bleached and wild-type Muricea elongata Epulopiscium clone ME4 DQ917
AJ581837.1 gg_id:93549 Methylohalobium crimeensis str. 10Ki AJ5818
EF644793.1 gg_id:293272 genes and citrate lyase deep-sea microbial MAR Logatchev hydrothermal vent syster EF6447
AY829009.1 gg_id:131064 Methylothermus thermalis str. MYHT AY829(
AATS01000005.1 gg_id:164411 Mariprofundus ferrooxydans str. PV-1 AATS0
FJ205309.1 gg_id:536608 Prokaryotic deep-sea region East Lau Spreading Centre active hydrothermal field sedi FJ2053
FJ905694.1 gg_id:556057 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F7b FJ9056
FJ497659.1 gg_id:594030 Microbial Ecology Fe-rich Mats and Basaltic Rock American Samoa Vailulu'u Seamoun FJ4976
FJ905704.1 gg_id:569688 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F25b FJ9057
AJ309526.1 gg_id:18643 Red Sea bacterium KT-2K34 AJ3095
FJ497570.1 gg_id:583098 Microbial Ecology Fe-rich Mats and Basaltic Rock American Samoa Vailulu'u Seamoun FJ4975
FJ905748.1 gg_id:558597 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F125b FJ9057
U15116.1 gg_id:11286 hydrothermal vent clone PVB_OTU_4 U1511(
FJ497401.1 gg_id:572046 Microbial Ecology Fe-rich Mats and Basaltic Rock American Samoa Vailulu'u Seamoun FJ4974
FJ905756.1 gg_id:543325 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F151b FJ9057
FJ497362.1 gg_id:564694 Microbial Ecology Fe-rich Mats and Basaltic Rock American Samoa Vailulu'u Seamoun FJ4973
FJ905712.1 gg_id:550922 s Tonga-Kermadec iron oxide sediments Volcano 1 Tonga Arc clone V1F48b FJ9057
FJ535254.1 gg_id:510570 within iron-containing flocculent mats submarine volcanoes along Kermadec Arc iron FJ5352
FJ905673.1 gg_id:544778 s Tonga-Kermadec iron oxide chimney-like structure on Volcano 19 Tonga Arc clone V FJ9056
AY458631.1 gg_id:101443 marine waters clone EBAC750-03B02 AY458(
GQ348897.1 gg_id:574017 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GQ337243.1 gg_id:541564 Hydrography shapes biogeography deep Arctic Ocean water depth 1000m clone CB: GQ337
EF645961.1 gg_id:253216 Potential interactions particle- anammox and archaeal partners namibian Namibian u EF6459
GQ337084.1 gg_id:554277 Hydrography shapes biogeography deep Arctic Ocean water depth 1191m clone NB: GQ337
AF355047.1 gg_id:35861 marine clone Arctic96B-7 AF355(
GQ346885.1 gg_id:549072 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ346
EU035866.2 gg_id:343475 Insight microbial structure Norwegian deep-water water deep-sea coral reef off Nor EU0358
EF572490.1 gg_id:232479 Coco's Island site 23 marine clone S23_589 EF5724
EF573580.1 gg_id:228552 Coco's Island site 23 marine clone S23_1679 EF5735
DQ009427.1 gg_id:118018 bacterioplankton clone SPOTSFEB02_70m8 DQ009
DQ009458.1 gg_id:121667 bacterioplankton clone SPOTSMAY03_500m4 DQ009
EF645950.1 gg_id:240496 Potential interactions particle- anammox and archaeal partners namibian Namibian u EF6459
AY033318.1 gg_id:68979 marine bacterioplankton clone MB13C05 AY0333
GQ347860.1 gg_id:556451 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
U34043.1 gg_id:3654 marine clone SAR406 U34043
GQ348729.1 gg_id:583805 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GQ348673.1 gg_id:589064 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GQ349752.1 gg_id:579963 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
EF571979.1 gg_id:230588 Coco's Island site 23 marine clone S23_78 EF5719
GQ259226.1 gg_id:570167 Microbial activities coastal marine sediments and column Svalbard deep water clone GQ259
EF574641.1 gg_id:228712 site S25 near Coco's Island marine clone S25_985 EF5746

2251.2	4217.9	4552.9	5460.0	2930.6	4482.0	3757.8	4649.6	4945.4	5432.8	5637.7
50.9	633.5	905.2	1069.1	1979.6	953.9	2216.7	701.5	361.7	232.6	545.3
3401.7	5639.0	5674.2	5734.9	9611.4	5586.7	8761.1	5688.4	3778.9	4266.3	3178.2
11823.8	10383.0	9243.4	9036.9	9677.9	8641.4	10207.8	8728.8	9857.6	8413.6	10687.1
5016.6	5314.2	5475.4	5040.2	6194.8	6039.0	5299.6	4759.5	3909.9	6911.2	3224.6
4324.1	3559.6	3728.7	4203.5	4752.9	3435.0	4304.6	3477.1	2906.8	2729.2	5069.9
26027.0	9495.5	8218.3	8977.7	9169.7	8202.0	11050.9	7679.6	8500.2	5352.8	9425.6
14376.0	6840.2	7027.6	6934.9	6137.5	6429.4	7749.8	6398.4	6949.9	3218.6	7722.4
1772.2	4677.1	5488.3	5925.6	6258.2	5361.4	7249.2	5296.5	3916.8	4317.9	4286.7
200.1	2671.3	3342.8	3437.7	2488.4	2356.9	3104.6	4198.9	1701.2	2256.0	2294.9
125.7	1974.6	1973.3	1874.8	997.4	2174.6	1496.3	2212.0	1239.4	1750.0	2086.5
565.5	3397.2	4039.2	4808.5	5255.9	4048.2	4012.7	3723.1	2669.1	3399.6	1897.6
437.0	2992.2	2283.9	2486.5	2629.7	2877.2	2193.6	3124.3	2129.0	3651.9	1684.7
1141.7	4367.0	6092.5	6149.1	4883.3	5034.1	3777.2	4435.5	3206.7	4357.2	4035.7
299.6	1641.2	1519.4	2010.9	2621.7	1647.0	2873.7	1567.7	577.7	1346.2	900.9
942.6	6192.6	6369.0	8222.5	4771.4	6231.1	5841.0	6143.9	9375.4	1857.1	7055.6
203.8	1282.6	1684.4	1902.3	2335.6	1756.8	2632.4	2372.8	1040.8	722.7	1247.7
2182.0	6751.4	6732.0	6542.6	8224.2	6691.3	7491.1	6710.3	6295.3	6590.2	5037.4
27037.8	8457.1	7887.4	8388.1	8809.8	8539.4	10189.0	8640.4	10007.2	7750.9	10117.5
53.5	688.1	1040.3	1135.2	518.8	662.5	655.3	1368.8	494.8	201.1	846.9
11579.7	4959.1	4969.4	4829.6	4450.4	4834.8	5834.1	5534.8	4631.0	5064.8	7479.0
40.6	14.7	26.3	17.3	25.4	16.4	15.3	14.7	19.2	12.4	18.1
66.8	1991.2	1816.9	1787.6	1932.8	1907.5	2535.6	2435.7	2328.7	3126.7	1848.9
3288.9	6106.6	6258.8	5843.0	6148.5	5776.9	6183.6	6516.3	6946.9	7669.2	6467.2
20646.9	4554.3	5216.7	5521.5	6723.7	4822.5	7736.3	5040.1	3492.0	1766.9	5447.2
24617.5	8562.7	8246.7	9010.0	8521.7	8296.4	10102.7	8179.8	12075.5	11110.2	11667.9
8396.4	3344.0	3119.8	2807.0	2680.8	1361.8	2835.5	2425.2	3479.6	2948.5	1494.8
112.8	1132.4	1241.1	1520.0	2083.4	1221.4	1406.3	1496.8	658.7	242.3	984.9
54.3	231.4	281.0	339.0	244.5	278.0	291.6	470.6	199.0	230.2	188.4
46.4	695.5	758.6	809.8	1282.7	785.7	1147.8	1018.0	727.1	839.8	385.1
37.0	36.2	37.1	20.1	18.3	25.6	26.3	25.3	18.0	20.4	25.9
65.5	177.9	215.3	232.2	175.6	293.2	169.2	300.6	76.0	48.7	177.2
37.8	16.3	17.8	18.1	16.5	13.0	16.7	19.0	18.2	16.0	17.9
1655.4	3618.9	4287.9	4841.2	4056.0	4264.4	5770.5	4866.9	3560.6	3369.7	3434.1
57.7	38.4	50.5	53.1	58.0	37.3	42.0	45.2	32.9	34.6	50.8
729.3	3769.7	4394.3	4490.8	4491.9	3873.2	4765.4	4073.8	2963.2	1779.5	3818.6
514.9	3434.2	3460.9	3948.6	4161.8	3696.6	4395.0	4236.1	2839.2	3076.6	3990.0
14012.3	5076.9	5203.5	5659.8	5724.5	5755.2	6348.7	5675.3	5945.1	4896.1	4322.3
224.9	1567.3	1716.2	1836.5	1442.0	1330.1	1591.2	1715.9	674.6	573.6	1249.5
5353.4	3052.8	2712.0	3139.4	3350.5	2819.3	3461.8	2749.7	3078.7	2079.9	3894.5
35.5	289.8	274.0	341.2	350.0	205.2	442.9	356.8	127.1	40.7	172.7

4706.2	5601.0	4688.5
639.5	858.5	957.3
6917.3	5846.9	6919.1
9211.8	9262.6	9899.7
5042.2	4819.5	4399.7
2956.7	4298.5	3626.3
8223.4	8172.5	8685.4
5790.8	7161.5	5472.0
5056.6	5172.8	4986.6
2841.2	2985.1	1728.8
1787.4	2423.3	2568.7
4934.7	3613.4	3216.7
2904.1	3412.3	1727.4
4694.8	4494.1	3167.1
1451.7	1986.3	2697.7
4351.5	5939.6	3429.7
1759.3	2718.9	1868.7
7477.5	6744.9	5679.2
8416.7	9223.1	8724.3
662.0	822.9	498.1
4828.6	5786.6	5403.4
13.9	22.3	21.1
1978.3	2663.2	2526.6
4965.2	5787.1	6717.7
5091.2	5312.6	7046.1
8168.7	9307.8	8825.0
2496.5	3398.6	2473.6
1093.1	1311.9	1752.8
215.1	366.2	233.9
718.9	1007.5	2043.7
22.1	31.0	30.5
197.6	395.9	238.0
11.9	17.4	14.6
4584.3	5556.5	5598.8
40.5	58.6	46.5
3685.2	3770.3	5207.3
4296.9	3958.4	4847.7
5321.2	7272.6	8175.4
1319.2	1830.7	2070.4
2198.3	4057.2	3086.5
179.0	265.8	349.6

k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16

o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__A714017
o__Arctic96B-7	f__so4B24
o__Arctic96B-7	f__so4B24
o__Arctic96B-7	f__so4B24
o__Arctic96B-7	f__unclassified
o__Arctic96B-7	f__unclassified
o__Arctic96B-7	f__unclassified
o__SSW63Au	f__SHAS460
o__SSW63Au	f__SHAS460
o__SSW63Au	f__SHAS460
o__SSW63Au	f__SHAS460
o__SSW63Au	f__SHAS460
o__SSW63Au	f__SHAS460
o__SSW63Au	f__unclassified
o__SSW63Au	f__unclassified
o__ZA3648c	f__5bav_B4
o__ZA3648c	f__5bav_B4
o__ZA3648c	f__5bav_B4
o__ZA3648c	f__5bav_B4
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185

g__SGSH944
g__SGSH944
g__SHAG537
g__SHAG537
g__SHAG537
g__SHAG537
g__SHAG537
g__SHAG537
g__unclassified
g__unclassified
g__ZA3312c
g__ZA3312c
g__ZA3312c
g__ZA3312c
g__ZA3312c
g__unclassified
g__unclassified
g__unclassified
g__sfA
g__sfA
g__sfB
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__sfA
g__sfA
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__unclassified

s__unclassified	54681
s__unclassified	54913
s__unclassified	54312
s__unclassified	54344
s__unclassified	54350
s__unclassified	54537
s__unclassified	54742
s__unclassified	54766
s__unclassified	54483
s__unclassified	54858
s__unclassified	54135
s__unclassified	54712
s__unclassified	54814
s__unclassified	54820
s__unclassified	54885
s__unclassified	54138
s__unclassified	54364
s__unclassified	54409
s__unclassified	54346
s__unclassified	54635
s__unclassified	54686
s__unclassified	54147
s__unclassified	54428
s__unclassified	54490
s__unclassified	54684
s__unclassified	54773
s__unclassified	54853
s__unclassified	57914
s__unclassified	58612
s__unclassified	54056
s__unclassified	54280
s__unclassified	54497
s__unclassified	54741
s__unclassified	53997
s__unclassified	54009
s__unclassified	54053
s__unclassified	54101
s__unclassified	54224
s__unclassified	54661
s__unclassified	54764
s__unclassified	54779

AB292141.1 gg_id:200579 Microbial Subseafloor Suiyo Seamount hydrothermal fluid clone SSmAB08-64 AB292
AF406544.1 gg_id:60631 bacterioplankton clone AEGEAN_225 AF406
GQ348843.1 gg_id:583337 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ348
GQ347305.1 gg_id:592130 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
GQ347277.1 gg_id:538806 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
GQ350783.1 gg_id:584685 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
GQ350921.1 gg_id:566050 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
GQ347000.1 gg_id:583074 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
EU491156.1 gg_id:272826 Abundance and microbial life ocean crust seafloor lavas Loi'hi Seamount Pisces Peak EU491
GQ337151.1 gg_id:542779 Hydrography shapes biogeography deep Arctic Ocean water depth 1000m clone CB GQ337
GQ375269.1 gg_id:527667 Hydrography shapes biogeography deep Arctic Ocean water depth 1000 m clone CB GQ375
AY907734.1 gg_id:137390 identification picoplankton contrasting waters Arabian Sea water clone A313015 AY907
FJ745056.1 gg_id:557852 Transporter genes expressed coastal response dissolved organic carbon surface wate FJ7450
AY907788.1 gg_id:137418 identification picoplankton contrasting waters Arabian Sea water clone A713003 AY907
AY907769.1 gg_id:137410 identification picoplankton contrasting waters Arabian Sea water clone A712021 AY907
FJ264782.1 gg_id:347223 Manganese and Iron Dependent Anaerobic Oxidation Methane methane seep sedim FJ2647
DQ351751.1 gg_id:146140 Microbial Adherent Sediment Particles Heavy Metal Contaminated North Sea Surfac DQ351
GQ259264.1 gg_id:576577 Microbial activities coastal marine sediments and water column Svalbard deep sedi GQ259
FJ716273.1 gg_id:568134 Chlorobi dominate shal chemocline Bahamas Sawmill Sink column 10.3 m water dept FJ7162
AY344400.1 gg_id:91672 Lake Kauhako 30 m clone K2-30-7 AY344
AB193918.1 gg_id:108876 deep-sea vent clone Sc-NB04 AB193
GQ350808.1 gg_id:562101 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
GQ349373.1 gg_id:546851 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
GQ350951.1 gg_id:590939 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ350
GQ349359.1 gg_id:573931 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
GQ347432.1 gg_id:550150 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ347
GQ349016.1 gg_id:568455 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Saanich GQ349
AF275926.2 gg_id:102419 anaerobic digester clone AB16 AF275
EU592362.1 gg_id:590482 Seasonal changes Salton Sea hypersaline water clone SSW63Au EU592
EU385747.1 gg_id:259814 Stratified microbes sediments Core MD05-2896 subseafloor sediment South China S EU385
EU385761.1 gg_id:276241 Stratified microbes sediments Core MD05-2896 subseafloor sediment South China S EU385
FJ746183.1 gg_id:563570 Microbial oligotrophic marine sediments: South Pacific Gyre ocean sediment 5306 m FJ7461
EU181491.1 gg_id:255266 Prokaryotic enhanced organic matter remineralization continental margin marine se EU181
DQ513074.1 gg_id:161026 Microbial life fluids ridge flank crustal fluid clone FS266-18B-03 DQ513
DQ513039.1 gg_id:159771 Microbial life fluids ridge flank crustal fluid clone FS142-62B-02 DQ513
AY907781.1 gg_id:137211 identification picoplankton contrasting waters Arabian Sea water clone A712049 AY907
GQ351198.1 gg_id:579754 Metagenome versatile chemolithoautotroph expanding oceanic dead zones Eastern GQ351
DQ009452.1 gg_id:127630 bacterioplankton clone SPOTSMAY03_150m11 DQ009
AF406551.1 gg_id:103827 complex marine community d at depth 200 m North Aegean Sea (Station 3) clone AE AF406
GQ337246.1 gg_id:568401 Hydrography shapes biogeography deep Arctic Ocean water depth 1000m clone CB GQ337
GQ375271.1 gg_id:515331 Hydrography shapes biogeography deep Arctic Ocean water depth 1000 m clone CB GQ375

41.9	48.0	84.7	70.4	54.8	55.0	29.2	62.4	64.9	24.0	50.5
1532.3	1808.7	1842.0	2260.6	2579.4	2011.5	2117.1	1981.5	1448.2	831.8	1795.2
15994.2	6123.7	6402.3	6228.9	6911.6	6002.2	8246.3	6422.7	5689.8	4843.0	5851.9
28496.6	10538.4	10361.8	11719.4	11825.5	10319.5	12281.6	11264.8	13292.5	9064.3	13469.2
3300.6	3587.6	4113.0	4339.2	4699.6	3909.8	6551.9	5324.9	2883.8	1559.2	2884.3
7856.7	4534.8	4909.4	5070.8	5361.5	4788.3	6853.2	4801.4	3005.8	3272.0	3709.3
12692.5	6358.8	6885.0	7198.8	7509.6	6253.0	8619.7	6187.0	5886.7	4226.4	6508.6
18913.9	6534.6	7427.0	7280.7	7673.2	6865.6	9069.1	7574.9	6474.4	5832.2	7320.1
7879.8	5242.5	4965.6	5311.4	5971.2	4879.7	6285.6	5379.9	4413.2	2590.2	5042.9
454.7	4615.3	3171.4	2730.2	2807.2	2583.2	1771.0	3102.8	3720.6	2684.7	2750.2
9007.0	14699.2	12522.6	11451.5	10307.7	12498.9	12108.9	10615.9	17834.4	12966.8	14565.2
15392.1	7431.6	7307.3	8017.7	8761.6	7447.7	8686.7	7905.6	9533.8	8754.7	8077.6
7506.4	6423.0	7053.4	7643.7	7578.7	6605.7	7997.5	6952.4	9414.3	6806.0	8231.1
494.0	5965.4	6398.7	5944.2	5966.3	5837.3	5882.1	5658.6	6604.8	6458.9	6350.2
771.8	5729.0	5635.7	5833.3	6115.9	5542.9	5429.5	5236.9	6410.8	7194.6	5722.6
1433.6	7268.1	7118.7	7262.6	5538.2	6574.7	5465.3	7520.3	5962.9	3334.3	5450.6
693.2	1558.7	2674.4	2235.0	2362.4	1751.8	2352.1	2498.3	1630.1	1090.6	1423.3
367.8	1743.6	2030.1	1459.9	1751.0	2013.6	2365.3	1444.8	2355.0	1519.5	1139.5
1350.5	4639.3	4435.1	4727.3	4663.1	4730.3	4892.9	5003.6	4687.1	2446.8	3689.6
1063.6	6015.6	5471.6	5949.5	5809.6	5442.1	7435.7	6639.6	3644.9	3120.7	4979.9
48.9	56.4	54.5	75.4	76.2	47.5	62.4	58.0	30.1	41.6	40.3
19214.5	9904.8	9584.5	10755.2	10277.4	9209.1	11890.4	8893.0	10235.3	10271.5	12245.2
8853.4	7093.8	7240.0	8038.6	8173.5	7112.8	8888.3	7374.1	7139.5	6566.4	6738.1
8580.4	6306.8	6382.7	7341.4	7240.9	6106.0	8845.8	6078.0	5485.3	4564.8	6255.8
13348.9	5458.1	5614.8	6152.9	5399.9	5277.9	6555.0	5566.5	6333.5	4561.7	6733.6
11674.2	5410.4	5902.3	6844.3	7654.7	5206.3	8133.0	5294.2	3846.6	3160.3	4942.4
14102.7	8993.8	9166.2	10208.7	9276.0	8850.1	10873.1	8940.4	9768.3	7022.4	10124.3
34.9	155.1	204.4	164.1	167.0	154.5	238.0	244.9	101.6	43.4	85.8
11158.0	6211.5	6536.8	7206.5	6445.2	6172.9	7163.7	6257.7	7262.3	7317.3	7990.8
2045.2	5713.0	4253.0	4232.5	5548.8	4491.7	4922.3	4312.9	6281.9	3766.2	3522.4
2693.8	5494.8	4572.1	5852.8	5896.5	4107.8	6561.3	4733.1	3919.9	2025.4	4360.6
3880.7	9804.8	8529.5	8707.2	9564.1	8554.3	10106.6	8065.0	13721.8	7970.2	9650.6
3981.1	8184.7	6744.1	6837.4	8054.6	6787.8	8017.1	6897.7	8972.3	6911.0	6946.8
7921.8	6094.4	6078.4	7745.1	7528.2	7139.2	8217.7	7182.7	6052.3	6599.2	6517.1
3427.3	4225.1	4705.7	4490.1	4962.4	4376.3	5328.2	4819.9	4902.0	4251.4	6192.1
53.2	235.0	459.4	465.9	351.7	336.5	452.8	433.1	171.5	107.8	273.0
2678.3	1390.1	1298.9	1514.3	1566.9	1533.3	1817.5	1487.7	922.6	438.5	1179.0
45.8	254.1	435.8	480.3	861.0	314.3	962.0	363.1	91.0	56.4	167.6
5525.4	5697.6	5928.7	7316.6	6704.8	6546.9	7843.7	6601.6	6148.1	6241.3	5763.6
2154.6	801.3	816.0	904.9	836.7	797.5	962.7	812.2	583.5	236.2	740.2
1013.8	3073.5	5049.0	4740.6	4341.9	4010.2	4206.6	3920.9	4779.2	3529.3	3547.1

43.7	76.3	45.6
2298.3	2074.9	2998.2
5377.4	7546.0	6930.7
10193.9	11146.0	11763.1
3846.7	5493.7	7105.5
3795.7	5272.1	6696.8
5983.9	7009.4	8666.3
6469.4	8590.1	8380.0
5137.7	5939.3	7000.7
2839.2	3145.0	2760.1
9652.4	10453.7	10986.2
8392.3	8122.4	9919.5
7372.1	7037.4	8359.9
5178.4	5658.7	7977.6
5011.1	5885.6	6977.6
6390.9	7081.1	6484.1
1587.6	2235.6	2385.8
1215.6	2778.7	1983.6
4286.5	5447.6	5389.9
5571.1	5985.4	7391.0
52.5	71.8	69.9
9574.1	11193.1	8618.0
7821.4	8536.4	8001.8
6476.5	7509.5	7503.2
5018.3	7152.9	5751.0
5592.6	6233.6	7107.2
9096.1	9372.4	9872.9
135.9	234.4	269.9
5891.1	6705.6	6292.8
4119.2	4624.4	5407.3
4338.0	4954.7	6678.9
7555.0	8816.4	9228.6
6416.7	7669.8	8271.3
7996.8	7324.0	7560.6
4336.7	5830.6	4746.5
433.8	566.5	841.5
1590.2	1611.2	2092.2
389.9	148.4	370.9
6480.3	7533.8	7760.7
866.0	930.7	1092.8
3851.2	4351.5	4601.8

k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__AB16
k__Bacteria	k__Bacteria	p__SAR406	c__Ulr1583
k__Bacteria	k__Bacteria	p__SBR1093	c__A712011
k__Bacteria	k__Bacteria	p__SBR1093	c__EC214
k__Bacteria	k__Bacteria	p__SBR1093	c__EC214
k__Bacteria	k__Bacteria	p__SBR1093	c__unclassified
k__Bacteria	k__Bacteria	p__SBR1093	c__unclassified
k__Bacteria	k__Bacteria	p__SBR1093	c__unclassified
k__Bacteria	k__Bacteria	p__SBR1093	c__unclassified
k__Bacteria	k__Bacteria	p__SBR1093	c__unclassified
k__Bacteria	k__Bacteria	p__SBR1093	c__unclassified
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SBR1093	c__VHS-B5-50
k__Bacteria	k__Bacteria	p__SC3	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__KD3-113
k__Bacteria	k__Bacteria	p__SC4	c__KD3-113
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SC4	c__unclassified
k__Bacteria	k__Bacteria	p__SM2F11	c__unclassified
k__Bacteria	k__Bacteria	p__SM2F11	c__unclassified
k__Bacteria	k__Bacteria	p__SM2F11	c__unclassified
k__Bacteria	k__Bacteria	p__SM2F11	c__unclassified
k__Bacteria	k__Bacteria	p__SM2F11	c__unclassified
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9

o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__ZA3648c	f__AEGEAN_185
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified

g__unclassified
g__unclassified
g__unclassified
g__unclassified
g__sfA
g__sfA
g__sfA
g__sfB
g__sfA
g__sfA
g__sfB
g__sfB
g__sfC
g__sfC
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfB
g__sfA
g__sfA
g__sfA
g__sfA
g__sfB
g__sfB
g__sfC
g__sfD
g__sfE
g__sfA
g__sfA
g__sfB
g__sfB
g__sfC
g__sfA
g__sfA

s__unclassified	54850
s__unclassified	54872
s__unclassified	54901
s__unclassified	54906
s__unclassified	58512
s__unclassified	52093
s__unclassified	52864
s__unclassified	51817
s__unclassified	52058
s__unclassified	52583
s__unclassified	51941
s__unclassified	51964
s__unclassified	52110
s__unclassified	52364
s__unclassified	51888
s__unclassified	51902
s__unclassified	52077
s__unclassified	52253
s__unclassified	52650
s__unclassified	52681
s__unclassified	52762
s__unclassified	52907
s__unclassified	76592
s__unclassified	51187
s__unclassified	51179
s__unclassified	50976
s__unclassified	51388
s__unclassified	51571
s__unclassified	51599
s__unclassified	51295
s__unclassified	51612
s__unclassified	51149
s__unclassified	51709
s__unclassified	51189
s__unclassified	74735
s__unclassified	75710
s__unclassified	74893
s__unclassified	75827
s__unclassified	75276
s__unclassified	55122
s__unclassified	55169

AB193937.1 gg_id:108899 deep-sea vent clone Sd-NB05 AB193
GQ337265.1 gg_id:590436 Hydrography shapes biogeography deep Arctic Ocean water depth 428m clone CB1 GQ337
AB187008.1 gg_id:106295 Suiyo seamount hydrothermal vent water 0.2micro-m filterable fraction clone SSM-N AB187
AB187006.1 gg_id:105980 Suiyo seamount hydrothermal vent water 0.2micro-m filterable fraction clone SSM-N AB187
FJ746090.1 gg_id:567620 Microbial oligotrophic marine sediments: South Pacific Gyre ocean sediment 5306 m FJ7460
EF573230.1 gg_id:231910 Coco's Island site 23 marine clone S23_1329 EF5732
DQ889875.1 gg_id:171291 natural product producing octocoral Erythropodium caribaeorum clone EC214 DQ889
EU491524.1 gg_id:270326 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR4C EU491
EF018452.1 gg_id:206024 aspen rhizosphere clone Amb_16S_1077 EF0184
EF494370.1 gg_id:222885 Nunnock River granitic landscape clone NR.1.116 EF4943
AM997686.1 gg_id:571356 and biogeography deep-sea surface sediments South Ocean Atlantic Ocean:South-A AM997
FJ205353.1 gg_id:510135 Prokaryotic deep-sea hydrothermal region East Lau Spreading Centre deep marine se FJ2053
EU374029.1 gg_id:263284 southern Cretan margin (eastern Mediterranean Sea) canyon and slope sediment clc EU374
EU048632.1 gg_id:245214 Microbial surface marine sediment Xisha Trough South China Sea clone MD2902-B28 EU048
EU491675.1 gg_id:260885 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU491
AB530197.1 gg_id:537501 Monitoring Suez and Tokyo bays based on analyses marine sediment clone Suez..Ba AB530
EU491531.1 gg_id:267736 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR4C EU491
DQ988317.1 gg_id:189693 Microbial lab-scale A1-A2-O fixed biofilm system coking wastewater treatment with DQ988
AM935293.1 gg_id:564786 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
EU491632.1 gg_id:272860 Abundance and microbial life ocean crust seafloor lavas East Pacific Rise clone EPR39 EU491
AM935547.1 gg_id:545441 Dynamics during identified and SSU libraries pilot-scale bioremediation process hyd AM935
DQ395515.1 gg_id:151247 deep-sea octacoral clone ctg_CGOCA20 DQ395
EU135311.1 gg_id:246322 tallgrass prarie soil clone FFCH7260 EU1353
GU454958.1 gg_id:530796 Understanding short-chain fatty acids accumulation enhanced alkaline digestion: kir GU454
AY218601.1 gg_id:81510 penguin droppings sediments clone KD3-113 AY2186
AJ863240.1 gg_id:120514 poplar tree microcosm bulk soil flooded clone 26BSF3 AJ8632
DQ248296.1 gg_id:143458 carbon tetrachloride contaminated soil clone TF2 DQ248
GQ116329.1 gg_id:384169 Topographical and Temporal Human Skin Microbiome skin occiput clone nbw691e0 GQ116
GQ002367.1 gg_id:507292 Topographical and Temporal Human Skin Microbiome skin buttock clone nbu176f02 GQ002
FJ455888.1 gg_id:512694 Variations archaeal and sulfate-methane transition zone continental margin sediment FJ4558
EU048664.1 gg_id:246357 and archaeal surface marine sediment Slope South China Sea clone MD2896-B3 EU048
AF254404.1 gg_id:41280 4MB-degrading consortium clone UASB_TL26 AF2544
EU344940.1 gg_id:262115 Hepialus gonggaensis guts equalized library larval gut clone Hg5-30 EU3449
DQ990931.2 gg_id:184899 Microbial Rock Varnish Yungay Atacama Desert Chile rock varnish clone AYRV1-033 DQ990
EF516747.1 gg_id:225432 grassland soil clone FCPS434 EF5167
EF018189.1 gg_id:206828 aspen rhizosphere clone Amb_16S_532 EF0181
EF018382.1 gg_id:205209 aspen rhizosphere clone Amb_16S_760 EF0183
AB179676.1 gg_id:200752 Clones Deep-Groundwater Microorganisms That Pass through 0.2-Micrometer-Pore- AB1796
EU246293.1 gg_id:250492 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-P6-E01 EU2462
EF018234.1 gg_id:213599 aspen rhizosphere clone Amb_16S_585 EF0182
EU335431.1 gg_id:250861 Changes microbial metabolic and along hydrogeochemically variable profile unsatura EU3354

3100.3	8864.3	8915.1	8612.3	8002.9	7869.9	9010.3	8144.4	7310.5	7727.9	9113.0
2689.4	1314.9	2226.9	1628.4	956.3	1737.7	1980.1	1869.1	2198.3	1168.1	2173.4
41.1	71.6	63.9	66.0	102.9	64.5	100.6	63.2	52.1	29.9	54.7
5703.3	3394.1	4836.8	4569.4	4293.8	4189.4	4591.4	4442.6	4705.2	4126.8	5847.6
1392.6	6662.8	6648.7	6951.2	7882.0	6432.7	8742.6	7541.1	6122.7	5069.1	6415.1
1069.4	2063.3	2286.9	2707.8	2549.4	2341.7	3353.1	2695.6	1466.8	854.1	2023.9
43.0	301.2	251.7	344.6	369.7	393.2	356.8	539.9	160.5	45.8	225.5
46.7	375.4	261.4	326.1	397.2	692.0	387.1	95.1	127.1	61.9	210.9
3934.7	6793.0	7704.8	7503.6	6922.5	6292.9	8793.9	6140.6	8459.4	5567.9	7465.2
8516.2	5820.8	6466.3	7458.7	8453.6	6111.6	10767.8	5393.8	6933.5	4314.9	6580.4
8142.1	8654.2	9215.2	8936.8	9623.7	8695.0	9425.3	8809.4	7912.3	5474.6	6571.8
847.2	5988.4	6545.9	7441.2	8064.6	6373.3	9049.2	5629.1	4426.5	4798.0	5813.9
1096.4	4051.6	3640.2	3744.7	3885.8	4208.9	8313.8	4079.3	6067.0	4305.9	2932.8
5198.2	4385.4	5095.5	5182.9	4931.8	4937.2	5540.4	5732.2	5569.2	2813.1	4210.5
5579.3	4272.9	4114.7	4337.6	4669.0	4255.6	4550.2	3924.5	4247.8	2197.7	4790.9
79.2	714.3	409.9	220.6	443.1	1164.4	515.8	376.4	70.8	37.7	128.7
256.5	1116.6	1698.2	2139.0	1898.5	2099.9	1620.0	1724.1	506.4	214.8	1073.0
64.3	757.3	656.9	818.2	922.0	1105.1	840.8	423.8	235.1	197.3	499.8
44.4	1194.4	483.1	167.1	713.3	2158.0	663.3	205.3	31.6	29.0	126.8
186.9	2735.2	3177.1	3598.8	3838.0	2745.8	4792.9	2793.9	1168.3	608.5	2250.3
1793.9	6592.0	6347.9	7415.8	7812.4	6789.3	11239.6	7546.9	6829.8	4874.1	5412.1
28116.6	9468.2	9477.4	10475.9	10469.4	9631.0	11508.6	9616.6	12324.9	11661.4	13757.2
64.1	289.1	91.1	156.0	59.7	157.7	102.3	210.0	38.6	34.3	79.2
10731.8	6243.2	7007.3	7010.8	8095.8	6975.0	8576.6	7062.1	11341.1	4055.4	6198.3
189.7	553.6	798.2	555.1	246.6	665.1	456.1	611.7	158.3	62.3	321.1
42.0	192.4	233.8	90.9	179.5	124.3	48.5	185.3	78.1	29.0	52.3
43.6	64.8	105.8	47.0	61.6	96.1	53.4	42.9	40.9	40.0	42.2
186.0	1041.8	1154.2	992.7	1341.7	1402.5	1051.7	1082.4	1249.2	1230.1	988.2
442.2	2336.5	2776.9	2765.9	3596.7	2774.9	3082.1	2484.4	3208.2	3237.7	1980.4
3309.1	9068.3	8741.9	9221.8	9052.7	8512.9	9748.0	7858.2	11493.9	9644.3	9881.6
1960.3	7371.3	6792.8	7530.5	7643.0	6840.2	8126.8	7590.2	7584.2	6434.8	7857.3
51.8	718.7	1126.8	984.3	1104.4	1029.4	1316.7	861.8	585.7	387.0	425.2
172.4	664.8	899.0	711.7	1411.6	969.6	1086.4	682.1	608.7	346.9	519.5
2054.8	3237.8	3414.0	3671.2	3866.0	3757.3	4397.9	3634.8	5153.9	2018.9	3687.5
50.9	2982.7	1182.7	901.6	600.1	2091.3	1347.8	3406.6	205.9	762.1	1703.3
475.3	7968.0	5088.1	5325.5	3484.4	5752.2	5100.1	5702.7	1978.8	1915.1	5327.5
728.1	7613.9	5311.4	6486.4	3948.1	5745.6	4274.0	5781.3	1908.4	2118.1	5083.0
573.0	8464.9	6264.9	6383.7	4309.4	6362.0	4730.1	6007.4	1753.2	2847.3	5640.5
99.2	1795.9	1485.9	1445.1	833.9	1420.4	744.8	1938.1	740.1	470.4	1342.8
1374.6	2368.4	2352.7	2199.2	3478.8	2993.1	3024.0	1815.6	1465.0	988.6	2148.9
12531.9	7476.4	6552.5	7686.4	9463.3	8207.9	8314.5	6582.1	6052.6	3460.5	6137.5

7423.2	7821.8	9072.1
1418.4	2506.0	1283.6
75.0	83.0	44.8
4587.1	5128.2	5153.9
6273.6	6817.7	7945.5
2088.6	2702.7	2655.0
1367.8	500.1	983.4
181.5	307.4	383.9
5684.2	6326.7	6447.6
5572.1	7078.4	8157.8
8717.0	10031.8	10794.6
5218.5	6459.4	7940.9
5350.2	4983.8	5217.3
7068.0	6206.0	6542.3
3672.0	4258.8	4603.6
207.0	288.4	427.1
1555.6	1729.3	2275.1
284.6	816.9	796.5
205.5	287.4	479.7
1734.4	3693.3	4994.7
7058.9	7997.9	8766.9
9336.0	10407.1	10156.8
139.3	121.7	75.5
5878.4	9511.6	9238.4
374.6	450.7	966.4
164.9	96.4	163.0
48.7	50.2	79.2
1573.2	1504.2	1315.3
2925.6	3763.1	3046.4
7763.8	9185.0	9447.3
6803.9	8243.2	8434.3
792.5	1407.0	1375.7
1180.2	1061.0	1193.6
2901.5	4605.7	3729.9
3759.6	1380.2	2334.4
4364.1	5270.5	6579.7
4334.3	4976.1	6818.8
4604.3	5419.8	6915.9
874.4	1620.0	1397.0
1846.0	3051.1	5350.3
7088.6	7859.1	11731.0

k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__0319-6G9
k__Bacteria	k__Bacteria	p__SPAM	c__FFCH6980
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae

o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae

g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__sfA
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira

s__unclassified	55306
s__unclassified	55336
s__unclassified	55378
s__unclassified	55418
s__unclassified	55623
s__unclassified	55643
s__unclassified	55672
s__unclassified	55717
s__unclassified	55955
s__unclassified	56023
s__unclassified	56114
s__unclassified	56175
s__unclassified	56369
s__unclassified	56380
s__unclassified	55632
s__Brachyspira aalborgi	76255
s__Brachyspira aalborgi	76315
s__Brachyspira alvinipulli	76710
s__Brachyspira canis	76855
s__Brachyspira corvi	76422
s__Brachyspira corvi	76672
s__Brachyspira pilosicoli	76254
s__Brachyspira pilosicoli	76384
s__Brachyspira suanatina	76814
s__unclassified	75931
s__unclassified	75975
s__unclassified	75977
s__unclassified	75979
s__unclassified	76036
s__unclassified	76069
s__unclassified	76127
s__unclassified	76141
s__unclassified	76178
s__unclassified	76194
s__unclassified	76222
s__unclassified	76319
s__unclassified	76390
s__unclassified	76474
s__unclassified	76481
s__unclassified	76557
s__unclassified	76681

EU335181.1 gg_id:255269 Changes microbial metabolic and along hydrogeochemically variable profile saturate EU335
EF018239.1 gg_id:204896 aspen rhizosphere clone Amb_16S_590 EF0182
FJ479051.1 gg_id:590993 species richness estimates obtained nearly and simulated pyrosequencing-generated FJ4790
AJ519639.1 gg_id:77042 uranium tailings soil clone Sh765B-AG-45 AJ5196
EF516922.1 gg_id:220959 grassland soil clone FCPO411 EF5169
AM991193.1 gg_id:279508 Microbial groundwater and their potential use biomonitoring karst spring water clo AM991
FJ478673.1 gg_id:534321 species richness estimates obtained nearly and simulated pyrosequencing-generated FJ4786
FJ478543.1 gg_id:578866 species richness estimates obtained nearly and simulated pyrosequencing-generated FJ4785
FJ479426.1 gg_id:570387 species richness estimates obtained nearly and simulated pyrosequencing-generated FJ4794
EU881156.1 gg_id:306708 Karst region primary forest soil clone KPF200711-139 EU881
DQ298285.1 gg_id:152331 studies on and nifH Lasiurus sindicus Sewan grass Thar Desert Rajasthan India rhizos DQ298
GU444065.1 gg_id:525151 Effects amendments on fertility and microbial structure cucumber Cucumis sativus L GU444
AB487162.1 gg_id:592058 Microbial responsive denitrification-inducing conditions rice paddy soil clone TSNIR0 AB487
AF234126.1 gg_id:44346 arid soil clone #0319-6A21 AF2341
EU135321.1 gg_id:249043 tallgrass prarie soil clone FFCH6980 EU1353
AB120010.1 gg_id:100441 Brachyspira aalborgi str. HISM16/5/02 AB1200
FM178385.1 gg_id:350706 Brachyspira aalborgi str. HIS1 Human intestinal spirochaetosis patient 1 FM178
EF455559.1 gg_id:206262 Brachyspira alvinipulli str. C1; ATCC 51933 EF4555
AY349941.1 gg_id:93018 Brachyspira canis str. CN 129 AY3499
EU819059.1 gg_id:369616 Brachyspira corvi str. AN968/4/04 EU8190
EU819065.1 gg_id:369752 Brachyspira corvi str. AN1876/1/04 EU8190
AY349944.1 gg_id:92367 Brachyspira pilosicoli str. Dog 17 AY3499
AB120007.1 gg_id:105392 Brachyspira pilosicoli str. CD2S AB1200
DQ473575.1 gg_id:209655 Brachyspira suanatina str. 4859/03 DQ473
AB093305.1 gg_id:84017 Brachyspira innocens D3D/6/15 AB0933
AB093307.1 gg_id:83843 Brachyspira innocens D7D/6/15 AB0933
AY349949.1 gg_id:92347 Brachyspira aalborgi str. W3b AY3499
AY514024.1 gg_id:100496 Brachyspira pilosicoli Br1622 AY5140
AY312492.1 gg_id:88867 Brachyspira murdochii str. 56-150 AY3124
AB092969.1 gg_id:86423 Brachyspira innocens D1D/6/15 AB0929
EF517541.1 gg_id:257834 Brachyspira hyodysenteriae P134/99 EF5175
U14933.1 gg_id:3783 Brachyspira innocens str. 983-90 (group II) U14933
DQ922565.1 gg_id:171642 Brachyspira hyodysenteriae str. 91507-8x/01 (T21) DQ922
U14930.1 gg_id:3768 Brachyspira hyodysenteriae str. B78 U14930
U14915.1 gg_id:3753 Brachyspira innocens str. 1023-90 (group III) U14915
EF164984.1 gg_id:235829 Brachyspira pulli AN2929/1/03 EF1649
EF164966.1 gg_id:254733 Brachyspira intermedia AN3536/03 EF1649
AB093323.1 gg_id:84667 Brachyspira innocens D1A/11/9 AB0933
AB093308.1 gg_id:82681 Brachyspira innocens D9D/6/15 AB0933
AB093314.1 gg_id:83734 Brachyspira innocens D1A/10/5 AB0933
AB093304.1 gg_id:84263 Brachyspira innocens D2A/6/15 AB0933

4167.5	8854.9	8367.2	9315.1	8769.7	9044.5	8781.7	7997.2	8354.6	5844.9	11462.2
366.7	2210.0	2163.5	2010.3	3205.0	2926.5	2520.7	1816.6	924.1	652.9	1393.5
108.0	948.4	1158.0	1565.5	1963.4	1819.4	2649.0	1107.4	349.1	317.8	593.7
38.9	267.2	205.5	349.5	91.6	718.4	123.8	417.3	31.4	21.1	168.7
5028.2	2596.1	2336.8	2400.9	4112.2	2366.9	2877.3	3272.3	1236.9	1452.7	1975.6
691.5	2524.2	2742.4	3135.6	2883.3	3170.8	3011.7	3271.9	1030.9	493.0	2060.4
257.0	6611.9	7677.2	6806.3	8078.0	7283.0	8832.2	6831.6	4650.5	3253.6	6099.3
14163.1	8685.5	9481.9	8608.4	9032.7	8992.4	9054.2	7366.5	10747.1	6899.0	11403.8
5887.8	8769.8	8076.8	8729.2	7832.8	8240.5	8928.9	6504.6	9214.1	6912.4	9794.7
98.3	3816.1	3828.3	4303.1	4525.4	5051.6	4446.8	3722.4	2330.5	919.2	3394.8
142.2	917.8	1018.5	1437.5	1738.8	1665.8	1453.8	1474.0	468.9	423.6	477.3
25681.2	10199.2	10284.1	11219.6	11450.0	10687.5	12388.4	9353.3	12892.0	8910.8	13114.4
3570.3	6351.1	6706.6	6846.5	7072.4	6927.2	7770.1	6654.6	6451.4	6383.1	7213.5
40.2	264.7	356.2	439.3	476.4	685.9	393.1	293.2	57.9	40.0	183.8
406.5	5685.9	6749.5	7011.7	7557.0	6603.4	8114.2	5874.9	3429.4	2155.1	4688.9
7119.3	6737.7	6228.5	6533.3	5681.0	5956.4	6733.0	5845.4	6266.2	4941.0	6709.4
7651.0	5988.4	6310.4	6828.7	5941.7	5644.9	7317.1	5734.5	5828.0	5186.0	7099.6
4874.5	4612.4	4610.3	5032.5	5454.3	4408.0	5819.0	4170.5	4422.5	3648.7	5387.3
4861.0	3933.9	3746.4	3967.2	4301.9	3578.2	4528.8	3189.2	4269.0	3265.8	4322.1
11922.4	7830.6	7279.7	8430.8	8489.9	7573.0	8940.0	7468.7	7510.9	6740.4	8303.0
9271.9	5793.9	5395.0	5948.2	6392.4	5466.8	6690.2	4757.2	6452.7	4997.7	6208.0
680.7	4238.2	4108.0	3618.1	3285.9	3618.3	3733.7	3578.5	3578.7	3561.6	2779.6
5719.9	5784.6	5206.4	4778.7	4952.4	5026.9	5191.0	4236.2	5926.7	4601.3	4946.2
5270.0	4531.5	4642.7	4799.0	5221.1	4301.7	5491.9	4312.3	4108.1	3543.6	5138.8
434.1	3200.1	3345.8	3264.8	4037.6	3093.8	2278.4	2954.9	3581.1	2070.0	2373.4
4522.8	4608.3	4262.2	4178.8	4804.1	4153.5	4781.4	3561.8	5747.4	3649.6	4650.0
7765.9	6951.1	6490.4	6926.8	6019.4	6142.9	7127.3	6058.2	6293.6	5602.2	6986.1
29740.2	13080.5	11046.0	10529.7	10200.3	10614.1	11095.1	9217.2	17451.0	13298.2	13408.6
18942.9	5938.7	6089.1	6597.2	5082.4	5545.8	7039.3	5293.1	7712.7	8442.8	8368.4
4888.3	5008.0	4871.0	4931.1	5658.4	4702.8	5654.9	4306.3	5438.2	4099.2	5392.0
14515.8	5539.2	6270.3	6696.3	6917.4	5919.7	7818.7	6507.5	5486.8	6571.9	7660.8
4860.2	3893.2	3819.2	3828.3	4168.8	3520.1	4341.7	3380.5	3936.9	2957.4	4151.2
19891.1	7615.4	7408.7	8015.1	8000.9	7120.8	8511.0	7207.3	8866.7	7672.7	9674.8
12744.5	9421.9	9262.9	10272.8	10422.1	9389.4	11458.3	9801.8	11002.2	9290.3	12729.4
19168.1	7796.0	8101.7	9178.3	8637.0	7507.3	10102.8	7709.2	8437.0	9026.2	10920.3
3097.2	3862.1	3862.1	4278.6	4644.7	3840.9	4886.2	3591.2	3676.6	3270.8	4439.4
4953.9	5106.8	4236.9	4630.9	4849.3	4330.5	5038.3	3823.2	6854.6	5660.7	5111.8
2440.3	4510.7	3661.4	3848.1	4418.5	3920.1	4258.8	3574.2	3809.2	2806.6	3910.1
4339.7	3295.3	3096.1	3149.4	3663.6	3005.1	3670.6	2595.1	3769.4	2276.8	3619.6
4875.2	5303.7	5151.4	5222.4	5934.2	4993.5	6020.6	4570.4	5813.7	4319.7	5711.4
892.9	2714.7	2696.6	2356.1	3129.8	2526.5	2985.8	2215.0	3197.4	2043.3	1983.0

7332.5	8419.5	9950.9
2052.7	2979.2	5394.7
792.9	2049.4	6693.5
227.8	607.9	2698.8
2502.4	3800.6	4381.2
1909.3	3098.2	5047.8
5524.8	6515.4	9334.8
7048.8	7852.0	10629.8
7253.8	8627.6	9622.2
3137.2	4728.5	8329.1
967.6	1524.0	4337.5
9013.7	11933.3	12463.2
5243.2	9727.2	9593.0
164.5	672.6	1337.3
4942.0	6009.2	10490.6
5944.2	6591.9	7348.8
5561.9	6712.9	7218.3
3872.7	4669.6	5501.0
3059.9	3857.7	4498.7
6567.6	7771.2	8199.0
4854.5	5576.8	6191.6
2711.7	3279.8	3894.3
3785.5	4515.6	5407.9
3868.1	4460.4	5671.9
2564.2	3255.8	4381.3
3519.4	4161.2	5116.7
6064.3	6872.8	7482.4
8662.0	10898.1	9184.9
5202.4	6359.3	6218.3
4086.0	4737.2	5731.3
5139.9	6249.5	7024.5
3084.1	3685.4	4712.6
6688.0	7355.4	8491.4
8928.3	9732.1	11104.2
7496.1	8187.8	8897.2
3372.4	4073.7	4511.6
3771.8	4332.3	4004.6
3687.3	3724.4	4550.3
2535.9	3183.7	3892.2
4355.6	4987.9	6087.5
2041.1	2533.8	3622.9

k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Brachyspirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__GN05
k__Bacteria	k__Bacteria	p__Spirochaetes	c__GN05
k__Bacteria	k__Bacteria	p__Spirochaetes	c__GN05
k__Bacteria	k__Bacteria	p__Spirochaetes	c__GN05
k__Bacteria	k__Bacteria	p__Spirochaetes	c__GN05
k__Bacteria	k__Bacteria	p__Spirochaetes	c__GN05
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae

o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__Brachyspirales	f__Brachyspiraceae
o__IF025	f__unclassified
o__IF025	f__unclassified
o__IF025	f__unclassified
o__IF025	f__unclassified
o__IF025	f__unclassified
o__unclassified	f__unclassified
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae

g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__Brachyspira
g__unclassified
g__sfA
g__sfA
g__sfA
g__sfA
g__sfB
g__sfA
g__Leptonema
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira

s__unclassified	76748
s__unclassified	76798
s__unclassified	76968
s__unclassified	77008
s__unclassified	77029
s__unclassified	76295
s__unclassified	76289
s__unclassified	76655
s__unclassified	76779
s__unclassified	77087
s__unclassified	76082
s__unclassified	76848
s__Leptonema illini	76617
s__Leptospira alexanderi	76297
s__Leptospira biflexa	76467
s__Leptospira biflexa	76602
s__Leptospira biflexa	77020
s__Leptospira borgpetersenii	76904
s__Leptospira borgpetersenii	77063
s__Leptospira borgpetersenii	77126
s__Leptospira inadai	77107
s__Leptospira interrogans	76236
s__Leptospira kirschneri	75973
s__Leptospira kirschneri	76243
s__Leptospira kirschneri	76403
s__Leptospira kirschneri	76724
s__Leptospira licerasiae	76569
s__Leptospira licerasiae	76716
s__Leptospira noguchii	76018
s__Leptospira santarosai	76164
s__Leptospira weilii	76785
s__unclassified	76034
s__unclassified	76146
s__unclassified	76203
s__unclassified	76227
s__unclassified	76340
s__unclassified	76404
s__unclassified	76469
s__unclassified	76500
s__unclassified	76502
s__unclassified	76509

AB093320.1 gg_id:85067 Brachyspira innocens D6B/10/25 AB093
U14920.1 gg_id:3770 Brachyspira innocens str. B256 (group III) U1492
EF164976.1 gg_id:240387 Brachyspira innocens AN4113/03 EF1649
AB079583.1 gg_id:77935 Brachyspira ibaraki str. HIS24/11/99 AB0795
EF164969.1 gg_id:257537 Brachyspira intermedia AN5112/03 EF1649
FJ461892.1 gg_id:569032 Microbial ecology industrial digestor mesophilic anaerobic reactor fed effluent chemi FJ4618
EU245543.1 gg_id:249265 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M2-H0 EU2455
AY605147.1 gg_id:104927 microbial mat clone IF004 AY6051
AY605151.1 gg_id:100106 microbial mat clone IF025 AY6051
AY605148.1 gg_id:105069 microbial mat clone IF007 AY6051
EU245476.1 gg_id:250068 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M2-A0 EU2454
DQ329632.1 gg_id:159296 Guerrero Negro hypersaline microbial mat clone 05D2Z42 DQ329
Z21632.1 gg_id:4396 Leptonema illini str. 3055 Z21632
DQ991481.1 gg_id:186857 Leptospira alexanderi serovar Mengla str. A85 DQ991
NC_010842.1 gg_id:304981 Leptospira biflexa serovar strain 'Patoc (Ames)' str. Patoc 1 (Ames) NC_01
Z12821.1 gg_id:4383 Leptospira biflexa serovar str. patoc Patoc 1 Z12821
Z21638.1 gg_id:4384 Leptospira wolbachii str. BIFLEXA CDC Z21638
EF537007.1 gg_id:229607 Leptospira borgpetersenii serovar Javanica 969 EF5370
FJ154592.1 gg_id:343791 Leptospira borgpetersenii serovar Mini str. Sari FJ1545
Z21630.1 gg_id:4348 Leptospira borgpetersenii str. JAVANICA VELDRAT BATAVIA 46 Z21630
AY631891.1 gg_id:107131 Leptospira inadai serovar Aguarana str. MW-4 AY6318
AM050566.1 gg_id:138386 Leptospira interrogans serovar Canicola str. Utrecht V AM050
FJ154562.1 gg_id:343537 Leptospira kirschneri serovar str. Kambale FJ1545
FJ154560.2 gg_id:330258 Leptospira kirschneri serovar Erinaceiauriti str. Erinaceus Auritus 670 FJ1545
EF596782.1 gg_id:231150 Leptospira interrogans L1207 EF5967
FJ154570.1 gg_id:350766 Leptospira kirschneri serovar Grippotyphosa str. Mandemarkers FJ1545
EF612285.1 gg_id:233710 Leptospira licerasiae serovar Varillal str. CEH010 EF6122
EF612287.1 gg_id:233288 Leptospira licerasiae serovar Varillal str. MMD835 EF6122
Z21635.1 gg_id:4347 Leptospira noguchii str. PANAMA CZ 214 Z21635
DQ991493.1 gg_id:195575 Leptospira santarosai serovar str. Alice DQ991
U12673.1 gg_id:4307 Leptospira weilii str. serogroup Icterohaemorrhagiae s WB46 U12673
Z21631.1 gg_id:4382 Leptospira biflexa serovar Canela str. CANELA Z21631
EF025496.1 gg_id:190457 Leptospira wolffi str. Korat-H2 EF0254
U12670.2 gg_id:4306 Leptospira borgpetersenii str. serovar hardjo strain Hardjo bo BD50 U12670
EF205465.1 gg_id:211824 among geographically regions central Tibet geothermal spring mat clone YCB65 EF2054
FJ660552.1 gg_id:562022 Correlation functional stability and dynamics full-scale wastewater treatment plant a FJ6605
AY631880.1 gg_id:101978 Leptospira alexanderi serovar Manhao 3 str. L 60 AY6318
Z21633.1 gg_id:4381 Leptospira biflexa serovar Jequitaia str. JEQUITAIA Z21633
Z26969.1 gg_id:4372 Leptospira biflexa str. tororo TORORO MUTANT STRAIN PARENT Z26969
DQ066980.1 gg_id:134767 Lake Washington sediment clone pLW-94 DQ066
Z21649.1 gg_id:4305 Leptospira santarosai str. SHERMANI 1342 K Z21649

4510.9	4654.2	4605.1	4855.4	5266.8	4439.5	5432.6	4206.7	5445.3	4083.7	5493.3
23376.4	7988.7	7415.1	8109.6	7958.4	7179.6	8474.0	6688.6	10408.4	8902.1	10242.5
8897.3	7111.9	6599.5	7310.8	7412.0	6326.2	8470.3	5927.9	6650.2	6320.6	8072.7
1137.1	6572.4	5230.0	5734.8	4975.5	5247.8	5515.2	5145.0	5010.1	4899.5	5656.1
8395.6	5427.5	5022.2	5923.6	5516.1	5041.1	6111.7	4436.8	5933.1	6159.3	7445.0
54.8	153.6	234.8	273.8	249.2	188.9	212.7	265.2	106.6	37.1	197.0
4000.2	7098.9	5767.8	5985.6	6916.7	5693.1	6421.5	6632.3	5626.4	3397.9	4703.5
105.8	108.2	255.0	217.2	618.0	147.9	227.7	88.1	139.8	64.3	178.2
90.3	306.2	317.4	333.8	257.7	250.1	237.1	377.9	113.9	60.9	156.4
131.8	1235.2	1644.1	2250.3	1841.7	1349.3	2708.9	1634.7	895.0	750.0	1112.4
67.4	576.3	629.2	592.4	378.7	609.0	493.9	868.1	166.1	107.2	492.4
292.1	965.7	1753.8	1364.6	1079.7	938.6	1324.2	2219.5	1920.1	422.5	915.5
44.2	44.2	53.6	85.5	59.1	84.9	167.9	104.6	52.6	21.7	47.9
18002.9	9433.8	8719.2	9742.4	7415.2	8814.8	9654.7	7983.9	12180.6	9981.9	11035.4
259.8	2579.2	2309.9	3095.8	2327.6	1760.1	2507.2	3292.6	1655.3	837.5	2407.7
216.8	960.6	972.4	1895.0	1058.9	790.6	867.8	2282.4	748.2	242.6	965.3
217.9	1321.4	1393.4	2268.7	1264.1	1009.3	1424.8	2631.3	995.4	407.2	1432.4
1391.7	4272.1	4737.5	4712.5	5372.6	4738.8	5562.5	4813.0	3015.9	2173.4	4910.6
1343.6	3992.1	4807.3	5199.7	5174.1	4184.0	6045.3	5051.7	3070.6	2124.6	4937.1
1289.8	4097.3	4641.9	4565.9	5314.9	4615.1	5467.9	4627.3	3022.2	2143.2	4765.4
364.4	3993.4	4918.4	5128.2	4874.7	4226.9	6765.0	4797.0	2493.7	1609.5	3979.5
2640.8	4132.1	4827.2	5116.5	6130.8	4544.4	6495.3	5071.1	3400.2	2055.6	5109.2
1517.1	2580.6	3293.2	4226.8	4283.2	2779.9	5682.3	3635.5	2010.5	1024.7	2913.0
913.1	2115.7	3068.9	3145.0	3190.0	2586.1	3717.3	3569.8	1921.6	1263.6	3003.1
2804.5	3225.0	3850.5	4311.9	5337.8	4013.4	5606.4	4340.1	2680.5	1537.8	3169.9
863.9	2443.1	3322.0	3419.1	3314.6	2858.9	4034.8	3876.9	2115.7	1692.7	3381.3
492.3	4828.6	5778.3	5247.6	5847.4	4582.6	5869.7	5505.2	3681.5	1939.7	4384.8
16242.7	9869.1	9843.8	10611.4	12207.6	9484.3	13692.9	9653.5	9050.2	7625.7	10688.8
4243.0	5008.5	5937.1	6047.4	6381.3	5687.2	7792.6	5731.2	4192.4	3496.3	7043.3
261.7	2651.2	3773.2	4539.4	3614.6	2792.3	4876.2	4383.2	2303.4	1206.4	3991.8
1110.7	1973.6	2494.7	3155.1	3232.1	1858.5	3975.6	3306.8	1385.1	375.7	1793.5
523.9	1954.5	1602.8	2398.3	1450.3	1477.5	1610.5	2866.8	1484.0	786.6	2001.4
612.4	5389.2	4104.5	4243.4	4694.4	3914.5	5132.2	4261.9	3856.3	2710.6	3386.3
961.1	2477.4	3261.6	3980.0	3693.0	2418.2	4403.0	3930.7	1823.4	878.1	2325.8
50.2	416.7	719.0	381.7	595.7	605.3	679.2	607.5	125.7	165.8	335.9
153.9	1429.4	2011.2	2301.5	3211.4	1934.4	2800.9	1788.7	1099.9	382.2	1285.0
1286.4	4730.9	5384.2	6057.4	5959.7	5026.3	6892.5	5419.2	3503.0	2228.9	5663.8
3050.1	5735.3	5679.7	6273.9	6625.3	5214.7	5663.5	5345.9	5146.5	2120.6	6494.1
26179.2	10234.6	9272.6	9446.4	9469.9	8959.0	10034.7	8559.0	11983.0	8345.7	14470.0
11660.7	6193.4	7818.5	7418.5	9542.8	7870.4	10240.7	7372.7	6305.5	4645.3	6879.4
1839.0	7410.3	7674.4	8091.9	8781.4	7549.0	8401.9	7239.9	5807.4	3554.1	9017.5

4019.2	4567.3	5251.4
6761.6	7618.3	8033.1
5740.2	6753.6	7211.3
5293.1	4757.6	5724.0
4884.5	5785.8	4978.3
153.8	359.5	259.6
5704.6	6944.8	6789.4
142.8	188.7	211.0
230.1	310.9	452.2
2027.9	1743.0	3040.7
256.3	708.6	477.4
988.7	1282.6	806.1
119.9	94.9	54.2
8025.9	9457.7	8693.4
4434.3	2034.6	1954.8
3882.4	1185.8	843.0
3873.6	1221.3	1123.1
4272.6	5049.8	5588.4
4358.5	4435.0	4630.5
4161.6	4950.8	5252.6
4279.5	4258.2	5667.5
4044.6	4762.4	4939.0
3231.4	2682.1	3304.6
2254.7	2741.7	2497.5
3591.5	3943.2	4447.3
2445.2	2877.4	2993.4
5372.4	5617.6	5867.6
10012.3	8906.4	12307.3
5095.2	6178.9	6133.6
3599.3	2934.4	2992.8
2543.1	2079.4	2549.2
4033.5	2156.5	1449.3
3687.0	4729.8	4381.3
3001.8	2582.4	3375.9
569.0	615.4	804.1
1225.5	1991.3	2020.5
5375.6	4937.6	5828.5
5729.1	5737.3	6550.4
8925.5	9361.8	8456.9
8552.3	7482.2	7985.8
6779.6	7534.8	8494.9

k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Leptospirae
k__Bacteria	k__Bacteria	p__Spirochaetes	c__M1NP2-04
k__Bacteria	k__Bacteria	p__Spirochaetes	c__M1NP2-04
k__Bacteria	k__Bacteria	p__Spirochaetes	c__M1NP2-04
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes

o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__Leptospirales	f__Leptospiraceae
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__unclassified	f__unclassified
o__Sphaerochaetales	f__Sphaerochaetaceae
o__Sphaerochaetales	f__Sphaerochaetaceae
o__Sphaerochaetales	f__Sphaerochaetaceae
o__Sphaerochaetales	f__Sphaerochaetaceae
o__Sphaerochaetales	f__Sphaerochaetaceae
o__Sphaerochaetales	f__Sphaerochaetaceae
o__Sphaerochaetales	f__Sphaerochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae

g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__Leptospira
g__SJA-88
g__SJA-88
g__SJA-88
g__SJA-88
g__SJA-88
g__SJA-88
g__unclassified
g__sfA
g__sfA
g__sfA
g__Sphaerochaeta
g__Sphaerochaeta
g__Sphaerochaeta
g__Sphaerochaeta
g__Sphaerochaeta
g__Sphaerochaeta
g__Sphaerochaeta
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia

s__unclassified	76514
s__unclassified	76551
s__unclassified	76552
s__unclassified	76587
s__unclassified	76651
s__unclassified	76792
s__unclassified	76796
s__unclassified	77079
s__unclassified	77094
s__unclassified	77148
s__unclassified	75939
s__unclassified	76727
s__unclassified	76823
s__unclassified	76943
s__unclassified	77009
s__unclassified	77022
s__unclassified	76846
s__unclassified	75965
s__unclassified	76347
s__unclassified	76893
s__unclassified	76395
s__unclassified	76438
s__unclassified	76635
s__unclassified	76679
s__unclassified	76736
s__unclassified	76802
s__unclassified	76874
s__Borrelia afzelii	76040
s__Borrelia burgdorferi	76339
s__Borrelia carolinensis	76524
s__Borrelia coriaceae	76160
s__Borrelia garinii	76027
s__Borrelia garinii	76982
s__Borrelia hermsii	76475
s__Borrelia japonica	77067
s__Borrelia lonestari	76875
s__Borrelia lonestari	77142
s__Borrelia sinica	77077
s__Borrelia turdi	76098
s__unclassified	75941
s__unclassified	75978

FJ154588.1 gg_id:311421 Leptospira noguchii serovar Orleans str. LSU 2580 FJ1545
CP000348.1 gg_id:176749 Leptospira borgpetersenii serovar Hardjo-bovis str. L550 CP0003
Z21634.1 gg_id:4346 Leptospira inadai str. LYME Z21634
Z21629.1 gg_id:4370 Leptospira biflexa serovar Ancona str. ANCONA PORTO Z21629
AY631885.1 gg_id:102755 Leptospira fainei serovar Hurstbridge str. BUT 6 AY6318
AB279549.1 gg_id:181283 Leptospira kmetyi serovar Malaysia str. Bejo-Iso9 AB2795
U60594.1 gg_id:4349 Leptospira fainei str. Hurstbridge U60594
X17547.1 gg_id:4333 Leptospira interrogans str. serovar canicola strain Moulton X17547
GQ441345.1 gg_id:584418 and dynamic mat present vs. active nitrogen-fixing microorganisms marine microbia GQ441
AE016823.1 gg_id:149405 Leptospira interrogans serovar Copenhageni str. Fiocruz L1-130 AE0168
EU358706.1 gg_id:334061 structure archaeal denaturing gel electrophoresis and sequencing mesophilic biogas EU3587
EU887797.1 gg_id:317015 and RFLP anaerobes Nisargruna biogas plant anaerobic digester clone 48IVSN EU8877
AB447738.1 gg_id:550451 Microbial Structure and Dynamics Granules Expanded Granular Sludge Bed (EGSB) R AB4477
AB089124.1 gg_id:77837 termite gut homogenate clone Rs-H88 AB0891
AB244313.1 gg_id:143845 Microbial mesophilic chemostat cultivation long-chain fatty acids-degrading methan AB2443
AB191983.1 gg_id:143791 termite gut homogenate clone M1PT4-10 AB1919
AY293856.1 gg_id:88155 Leptospira parva str. H; NCTC 11395 AY2938
AB191844.1 gg_id:141715 termite gut homogenate clone M1NP2-04 AB1918
EF454943.2 gg_id:217661 termite hindgut clone 290cost002-P3L-731 EF4549
AB191843.1 gg_id:141819 termite gut homogenate clone M2PT2-76 AB1918
EF586003.1 gg_id:243633 Methanol-assimilating anaerobic solid waste digester fed methanol clone M35_D8_L EF5860
EU358680.1 gg_id:352774 structure archaeal denaturing gel electrophoresis and sequencing mesophilic biogas EU3586
EU462396.1 gg_id:288748 Sumatran orangutan feces clone orang1_aai53g01 EU4623
AF357916.2 gg_id:28706 Spirochaeta sp. str. Buddy AF3579
AJ698092.1 gg_id:105838 Spirochaeta sp. str. SPN1 AJ6980
AM982634.1 gg_id:277877 microbial and slurry pig saw dust spent bedding clone PISD-AJA01 AM982
DQ833400.1 gg_id:172254 Sphaerochaeta sp. str. TQ1 DQ833
X85194.1 gg_id:4173 Borrelia afzelii str. DK4 X85194
NZ_ABGJ01000002.1 gg_id:270217 Borrelia burgdorferi str. 72a NZ_AB
EU085407.1 gg_id:560956 Borrelia carolinensis SCW-22 EU0854
AF210136.1 gg_id:38090 Borrelia coriaceae CA435 AF2101
AY342029.1 gg_id:99035 Borrelia garinii str. SIKA1 AY3420
AY342031.1 gg_id:102963 Borrelia garinii str. PD89 AY3420
U42292.1 gg_id:4241 Borrelia hermsii U42292
L40598.1 gg_id:4269 Borrelia japonica str. IKA2 L40598
AY166715.1 gg_id:76818 Borrelia lonestari AY1667
U23211.1 gg_id:4172 Borrelia lonestari str. Texas 20 U23211
AB022101.2 gg_id:4288 Borrelia sinica str. CMN3 AB0221
D67024.1 gg_id:4215 Borrelia turdi str. Ac502 D67024
AB113315.1 gg_id:104671 Borrelia duttonii VS4 AB1133
X85189.1 gg_id:4157 Borrelia burgdorferi str. 272 X85189

3923.4	5276.4	6105.6	6489.9	6513.0	6051.1	8301.9	6464.5	6739.2	5694.4	6100.3
1273.1	3131.2	3713.6	4361.0	4294.6	3230.9	5181.1	4334.9	2281.9	1340.3	3038.7
8922.2	7041.8	7259.7	7319.3	8047.4	6767.0	8525.6	5958.1	6586.2	4059.1	8697.6
22809.3	10928.2	9897.2	10398.8	10453.0	9679.2	11211.1	9009.8	11801.1	7795.8	15614.2
258.6	2181.7	3287.8	2642.4	2439.0	2035.8	2339.7	3015.4	1293.9	711.7	2251.2
2530.3	4460.4	5307.6	6324.6	6294.6	4583.6	7708.3	5695.2	3636.8	2120.8	5661.1
225.6	2393.9	3647.0	3222.7	2981.5	2178.6	3105.4	3193.9	1509.0	977.3	2611.2
909.8	1505.7	2268.8	3134.1	2725.3	1637.8	3740.8	3318.4	1389.7	531.9	1749.2
79.0	1793.1	1889.6	3124.1	3232.4	1794.3	5376.1	3191.3	1349.8	1089.9	1860.4
994.5	2366.6	3362.5	3972.9	3604.7	2590.9	4662.7	4083.0	2178.5	1316.1	3417.8
970.1	7051.2	6499.3	6083.3	5974.7	6862.2	6115.4	6292.0	8597.0	6764.4	5829.6
1457.0	4434.9	3904.0	3613.3	3295.9	4141.9	3647.7	4241.6	5077.9	2459.0	3822.1
593.5	4776.8	5999.0	5378.3	5295.4	5184.4	4687.9	5163.1	5380.3	4752.6	5912.1
641.2	3981.5	4490.1	5044.5	4142.2	3942.3	4885.0	4995.9	2902.9	1905.6	4279.8
30.7	349.6	1410.2	1558.9	849.3	1193.4	1165.6	1816.1	703.4	465.8	1527.8
2058.0	2898.6	2889.8	3389.2	2865.9	2528.5	3548.6	5624.4	1934.2	609.8	6513.4
725.2	5352.7	5588.4	5702.2	6946.5	5859.8	6774.6	5668.7	4964.6	3998.4	4505.7
55.8	1522.4	1994.8	1996.9	2976.1	1127.2	3658.6	1000.1	341.0	414.4	931.8
56.0	65.6	165.2	143.0	56.4	54.3	163.3	103.0	105.5	25.1	49.0
4675.0	2267.0	2888.1	2586.6	4175.4	2129.8	3525.7	2507.8	3852.0	2205.7	2533.7
2304.8	5936.5	6014.4	8058.3	7327.6	5987.1	9013.8	7309.1	4397.2	4264.3	5560.2
904.7	6012.2	5754.7	6146.7	5851.9	5522.4	7106.3	5693.7	4125.5	4248.0	5680.4
1063.7	2865.4	3073.9	3313.7	3187.8	3081.7	3314.3	2821.6	1792.5	2031.4	3803.4
1718.5	8228.7	8207.8	9320.2	7997.0	8607.9	9671.6	8505.5	6260.1	5496.7	7083.3
248.0	292.2	459.6	484.8	672.6	373.5	596.8	499.9	148.3	123.7	294.7
1034.3	5531.3	5478.1	7189.3	7317.2	5563.2	6335.8	5201.1	5543.6	4706.9	6492.0
700.6	6616.9	5985.4	5479.2	4526.7	6094.9	6747.9	4960.4	4948.0	3555.7	5379.3
1917.1	4979.2	5182.4	5515.6	4826.4	5100.9	5869.0	5227.5	5288.1	3842.1	5634.6
5903.8	6236.9	6410.4	6827.2	5864.6	6308.9	7097.2	6011.1	7208.9	5491.4	7230.6
882.6	3613.9	3786.8	3961.8	3933.9	3769.2	4545.1	4009.8	3267.8	2186.0	3973.0
2006.7	4016.4	3981.5	4454.0	3362.9	3828.2	5521.5	3969.8	3863.7	2447.2	4028.3
1769.5	8002.2	8539.5	8601.4	6740.4	7491.4	8677.3	7757.4	10518.9	8733.1	10443.6
1423.5	4063.1	4058.2	4605.5	3614.8	4295.5	4702.1	4459.7	4616.3	3422.1	4584.2
127.0	1985.6	2631.2	2469.9	2004.0	2294.0	2436.9	2306.1	2633.7	1948.7	2532.6
2688.1	3179.9	3596.3	3537.2	3589.9	3734.0	3998.1	3646.3	3959.4	2386.0	3531.8
20765.0	12263.3	11088.9	11489.3	11489.3	11139.2	11514.8	10686.8	18150.7	13396.1	16150.8
2636.4	3591.8	4083.9	3850.3	3743.2	3227.8	4476.8	3298.7	4089.1	2935.6	4321.4
5484.9	6031.8	6185.5	6565.9	5887.1	6034.0	6721.6	6219.1	7181.0	5483.2	7076.7
1921.0	5181.6	5342.2	5686.2	4700.2	5290.0	6024.9	5218.2	5496.2	3965.6	5795.0
107.7	1601.4	1839.3	1915.5	1498.9	1498.4	1861.3	1711.6	1542.5	1070.2	1973.2
4790.2	5574.9	5800.2	6144.7	5573.3	5696.5	6146.9	5650.7	6537.1	5125.8	6590.1

5722.5	7220.7	6017.8
3680.7	3673.7	3781.1
6081.5	6750.4	7738.2
9647.6	9861.4	9307.0
2336.4	3089.3	2636.2
5151.2	4261.4	5331.5
2832.6	3126.4	2819.7
2368.0	1689.5	1905.8
3000.0	2106.8	3018.6
3045.8	2450.8	2755.2
5900.9	6444.8	7223.7
3552.9	3525.1	4001.8
5094.4	5048.8	7381.8
4604.1	4438.6	5743.0
1433.2	1252.2	696.6
2658.2	3198.9	3971.0
5991.9	5724.7	6845.0
802.0	1104.1	1989.8
527.8	85.1	85.9
2204.1	2945.9	2432.7
5995.6	6878.7	8361.9
5270.0	6387.2	7669.9
2342.5	2610.4	3256.9
7565.6	7556.8	9845.9
381.7	530.0	799.9
5177.6	5262.2	7806.1
4672.4	5920.0	5455.4
4547.8	5007.1	4963.3
5670.3	6588.5	6270.4
3274.0	3612.2	3829.7
3503.4	4673.4	4492.8
7670.3	8921.8	8220.3
3839.9	4238.8	4500.4
2080.8	2232.9	2595.8
3369.7	4260.6	3790.3
10679.1	11396.1	9524.4
3152.1	3993.6	2918.1
5595.5	6477.2	6040.0
4793.0	5273.6	5304.6
1445.4	1626.2	1832.6
5066.9	5784.2	5519.1

k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes

o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae

g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__Borrelia
g__IE043
g__IE043
g__IE043
g__IE043
g__IE043
g__IE043
g__IE043
g__IE043
g__IF058
g__IF058
g__IF058
g__KSA2
g__KSA2
g__KSA2
g__P30-6
g__P30-6
g__P30-6
g__P30-6
g__SA-8
g__SA-8
g__SA-8
g__SA-8
g__SA-8
g__SA-8
g__SA-8
g__SA-8

s__unclassified	76204
s__unclassified	76215
s__unclassified	76246
s__unclassified	76280
s__unclassified	76287
s__unclassified	76431
s__unclassified	76526
s__unclassified	76620
s__unclassified	76647
s__unclassified	76732
s__unclassified	76817
s__unclassified	76834
s__unclassified	76842
s__unclassified	77011
s__unclassified	77046
s__unclassified	76152
s__unclassified	76155
s__unclassified	76163
s__unclassified	76323
s__unclassified	76503
s__unclassified	76755
s__unclassified	76807
s__unclassified	76945
s__unclassified	76577
s__unclassified	77006
s__unclassified	77051
s__unclassified	76257
s__unclassified	76321
s__unclassified	76623
s__unclassified	76044
s__unclassified	76183
s__unclassified	76298
s__unclassified	77130
s__unclassified	75950
s__unclassified	76005
s__unclassified	76021
s__unclassified	76238
s__unclassified	76367
s__unclassified	76596
s__unclassified	76745
s__unclassified	76750

U42299.1 gg_id:4235 Borrelia turicatae str. M2007 U4229
DQ147793.1 gg_id:149799 Borrelia garinii str. G115 DQ147
AB022142.1 gg_id:4218 Borrelia valaisiana str. CKA2a AB022
U42297.1 gg_id:4155 Borrelia persica str. UESV/340 U4229
EU135597.1 gg_id:324021 Borrelia valaisiana str. QTMP2 EU135
D45192.1 gg_id:4240 Borrelia miyamotoi str. HT31 D4519
D67023.1 gg_id:4170 Borrelia tanukii str. Hk501 D6702
EF570073.1 gg_id:279638 Borrelia burgdorferi str. SCW-42a EF570
L40596.1 gg_id:4283 Borrelia sp str. DN127 L40596
EU081286.1 gg_id:508944 Borrelia americana str. SCW-33 EU081
X85201.1 gg_id:4280 Borrelia burgdorferi str. DUNKIRK X8520
U28503.1 gg_id:4205 Borrelia duttonii U2850
AY626138.1 gg_id:99408 Borrelia sp. R57 AY626
U42284.1 gg_id:4182 Borrelia anserina str. ES-1 U4228
EU135596.1 gg_id:318700 Borrelia valaisiana str. QSYSP4 EU135
DQ103657.1 gg_id:132946 hypersaline endoevaporitic microbial mat clone E2aA10 DQ103
DQ154846.1 gg_id:139275 Diel Migration Restructures Hypersaline Microbial Mat hypersaline microbial mat cl DQ154
DQ329736.1 gg_id:159199 Guerrero Negro hypersaline microbial mat clone 05D2Z74 DQ329
DQ103658.1 gg_id:134251 hypersaline endoevaporitic microbial mat clone E2aH12 DQ103
GU118739.1 gg_id:594444 Threatened Corals Provide Microbial Habitats clone Mfra_O15 GU118
AY605135.1 gg_id:99534 microbial mat clone IE043 AY605
EU246240.1 gg_id:255595 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-P5-F11 EU246
GU118767.1 gg_id:545372 Threatened Corals Provide Microbial Habitats clone Mfra_M16 GU118
AY605154.1 gg_id:100580 microbial mat clone IF058 AY605
EU246071.1 gg_id:240820 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-P2-G11 EU246
AY605174.1 gg_id:101818 microbial mat clone LH071 AY605
FM242277.1 gg_id:320359 sequences sediment clone 6bis T0h-oil FM242
DQ154805.1 gg_id:138982 Diel Migration Restructures Hypersaline Microbial Mat hypersaline microbial mat cl DQ154
AY605171.1 gg_id:101310 microbial mat clone LH042 AY605
FJ202296.1 gg_id:326880 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata k FJ2022
AF104475.1 gg_id:3806 Olavius loisae endosymbiont 4 AF1044
AM493256.1 gg_id:348409 Multiple symbionts two species co-occurring gutless oligochaete worms Mediterrar AM493
AJ431239.1 gg_id:79373 Cytophaga sp. str. BHI80-86 AJ4312
AB186802.1 gg_id:100628 polychlorinated dioxin dechlorinating microcosm clone TSBW25 AB1868
EF515721.1 gg_id:219079 Electricigen Enrichment MFC full-scale anaerobic bioreactor sludge treating brewery EF5157
AB244312.1 gg_id:143685 Microbial mesophilic chemostat cultivation long-chain fatty acids-degrading methan AB2443
EU073764.1 gg_id:256394 Microbial subsurface beds and methanogenic s coal enrichment clone ObedB-2A EU0737
AF050549.1 gg_id:3966 contaminated aquifer clone WCHB1-40 AF0505
AY426468.1 gg_id:107508 full-scale anaerobic UASB bioreactor treating paper mill wastewater clone E3 AY4264
EF515259.1 gg_id:219657 Electricigen Enrichment MFC upf microbial fuel cell anode clone 22a12 EF5152
CU922644.1 gg_id:559340 Towards definition core microorganisms involved digestion mesophilic anaerobic dig CU922

244.7	1922.3	2121.6	2223.7	1853.2	1786.1	2252.5	1927.1	1874.2	1358.1	2223.8
1730.1	3547.1	3751.2	3833.7	3276.6	3712.7	4237.8	3838.0	3105.3	1902.3	3666.3
1216.3	4119.6	4279.8	4437.4	4315.5	4213.8	4858.1	4230.7	4108.3	2608.1	4818.1
945.3	5294.1	5421.5	5883.6	4599.1	5067.8	6253.1	5651.3	4799.9	3345.9	5518.7
2293.0	6047.5	5670.8	5892.3	5615.6	5295.1	6285.3	5208.6	7858.3	6149.7	7782.1
6201.7	7405.4	7187.4	7652.3	7242.8	6518.4	8336.6	6760.4	9787.1	8296.9	8310.5
2404.9	3140.3	3137.5	3431.6	2668.8	3400.1	3762.6	3493.7	2842.5	2538.7	3695.2
2480.2	3413.5	3394.4	3651.2	2917.2	3596.2	3944.9	3791.2	3635.2	2938.1	4396.2
2768.0	6526.6	7086.6	7108.3	6898.4	6582.5	6810.9	6773.5	7724.6	6746.1	7823.5
2903.0	3805.5	4093.1	4008.1	3366.2	4019.8	4549.1	3901.4	4139.6	3348.8	4867.4
5722.1	6696.0	6878.1	7295.5	6434.0	6356.0	7637.4	6446.9	8024.5	5531.8	8026.9
7984.5	5103.0	5886.4	5858.5	4521.6	5044.8	4850.1	5472.8	6598.4	5407.2	6007.8
3857.6	8431.6	9321.3	10353.3	8441.5	8057.0	8920.4	8415.0	9182.5	8562.2	10872.7
435.8	7327.7	6281.1	5793.4	5081.6	6255.1	5539.5	5778.2	7915.6	6663.8	6545.0
3957.0	4696.6	4866.2	5097.5	5165.8	4761.8	5372.6	4868.3	4816.6	3726.3	5442.6
44.4	422.7	725.8	490.9	361.9	474.9	554.6	625.1	302.2	89.4	610.5
34.2	39.8	145.1	131.2	89.7	66.7	161.9	68.7	106.6	20.5	59.5
1719.1	5401.5	6033.0	5797.6	5464.0	5598.5	5921.7	4800.3	5258.6	2670.9	4162.9
33.4	27.4	29.7	30.7	30.1	24.1	37.1	21.3	19.8	12.9	21.9
136.5	1533.3	2895.7	2683.4	1925.2	1724.5	2798.7	2152.2	763.0	338.5	1401.4
1901.5	6525.3	6109.1	5879.8	4223.4	7125.2	5816.7	5459.8	5729.8	2912.1	6789.1
1644.9	3802.0	3777.9	4429.6	4302.8	3538.7	4658.2	4219.9	3866.9	4141.8	4542.0
162.6	1216.1	1610.2	1887.2	1315.8	1622.5	1826.7	1696.1	927.1	156.4	898.7
47.5	111.6	176.1	173.3	88.3	115.8	121.2	177.2	98.6	50.3	132.4
4165.9	4025.9	4951.7	5184.7	4732.2	4194.6	5217.6	4118.3	4581.5	3803.7	4499.4
23.1	28.2	37.8	46.9	31.9	27.5	39.6	35.0	24.8	14.6	26.1
52.7	620.1	1304.7	1465.3	802.6	556.9	845.0	1170.2	276.4	99.0	670.3
33.6	84.1	160.2	176.1	140.3	127.8	95.2	250.9	105.5	52.3	86.3
37.2	224.1	375.2	395.9	224.5	430.5	183.3	586.2	294.9	77.9	326.9
51.2	1059.6	1614.9	2194.3	1816.5	1097.7	2460.2	1337.4	695.1	356.8	1243.1
58.2	159.3	176.6	166.1	250.3	155.8	206.0	230.1	127.6	77.2	122.4
2462.3	3480.5	4838.0	7345.2	3995.6	3730.4	5014.7	4367.4	2795.7	1465.0	3618.7
37.7	20.2	24.9	27.9	22.1	21.1	22.8	20.9	22.9	21.3	20.4
3974.0	4299.9	4286.1	4399.1	4687.7	4660.3	4752.4	5107.0	3748.3	2055.3	3943.1
49.0	76.0	172.8	192.9	53.3	37.4	83.8	95.2	22.3	11.3	42.6
2301.4	1690.3	2901.0	3242.7	1750.6	1178.8	1602.7	1911.2	4626.6	1950.3	1680.8
1705.1	4150.8	5188.5	7325.3	3192.4	3371.6	5398.3	4025.9	3535.7	1934.4	4038.0
135.0	3214.5	3532.2	3983.8	6214.1	3892.8	5729.6	4329.0	4351.6	1054.2	3157.0
61.6	218.4	277.1	614.5	150.7	255.8	914.6	153.1	112.9	27.2	145.9
43.9	90.9	303.7	534.6	142.2	62.0	233.5	119.7	102.0	17.7	76.0
4462.7	1978.8	2381.4	2262.0	2207.2	2148.4	2406.2	1829.5	4115.8	3001.9	2877.1

1729.5	1938.9	2365.3
3128.5	3639.6	3563.4
3768.2	4236.3	4197.1
4756.5	5704.6	6364.5
5043.0	6676.6	5577.2
6859.3	8203.6	7474.5
2840.4	3311.7	3578.4
3247.0	3806.6	3894.9
6374.7	7453.5	6619.4
3626.7	4312.5	4171.0
6139.0	7180.4	6813.5
4682.3	6558.7	5847.0
7889.6	8461.5	9374.0
5500.5	5635.7	6713.7
4164.1	4901.6	4451.5
408.6	422.9	675.0
39.3	90.2	55.0
5031.7	5221.2	5259.1
18.8	22.6	38.3
2199.3	1955.7	1918.4
4406.4	7019.2	5909.9
3398.7	3969.9	4606.6
1121.6	1559.2	1570.8
125.9	89.6	175.8
4006.6	4771.8	5210.5
26.2	36.9	35.0
524.4	693.6	711.5
152.5	482.4	522.8
207.3	563.9	208.4
1399.0	969.6	1870.8
163.7	250.0	177.2
4715.7	3636.3	5683.5
21.2	39.6	17.3
5088.0	5125.0	5994.1
49.9	47.9	62.9
1369.9	1685.3	1385.0
3669.1	3231.9	3604.1
3186.6	3711.0	4887.5
62.7	119.0	103.1
52.0	60.8	64.7
1750.2	2840.0	2150.4

k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes

o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae

g__SA-8
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__Spirochaeta
g__TM3
g__TM3
g__TM3
g__TM3
g__TM3

s__unclassified	76972
s__Spirochaeta aurantia	76601
s__Spirochaeta thermophila	76235
s__Spirochaeta thermophila	76396
s__Spirochaeta thermophila	76441
s__Spirochaeta thermophila	76511
s__Spirochaeta thermophila	76706
s__Spirochaeta thermophila	77108
s__unclassified	75949
s__unclassified	75996
s__unclassified	75997
s__unclassified	76072
s__unclassified	76117
s__unclassified	76220
s__unclassified	76252
s__unclassified	76260
s__unclassified	76282
s__unclassified	76383
s__unclassified	76402
s__unclassified	76439
s__unclassified	76444
s__unclassified	76448
s__unclassified	76480
s__unclassified	76506
s__unclassified	76572
s__unclassified	76585
s__unclassified	76729
s__unclassified	76826
s__unclassified	76830
s__unclassified	76854
s__unclassified	76925
s__unclassified	76933
s__unclassified	77014
s__unclassified	77053
s__unclassified	77054
s__unclassified	77078
s__unclassified	76037
s__unclassified	76086
s__unclassified	76101
s__unclassified	76148
s__unclassified	76169

CU918048.1 gg_id:572172 Towards definition core microorganisms involved digestion mesophilic anaerobic dig CU918
AB240336.1 gg_id:141219 microbial structure Phragmites rhizosphere biofilm reed bed reactor laboratory clon AB240
AY605178.1 gg_id:102429 microbial mat clone LL026 AY605
EU246179.1 gg_id:237552 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-P4-G12 EU246
EU245523.1 gg_id:249436 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M2-F0 EU245
AY605126.1 gg_id:103618 microbial mat clone IE015 AY605
EU245802.1 gg_id:256467 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M6-E1 EU245
AY605169.1 gg_id:106409 microbial mat clone LH032 AY605
AJ431240.1 gg_id:79117 Spirochaeta sp. str. BHI80-158 AJ4312
DQ154820.1 gg_id:139224 Diel Migration Restructures Hypersaline Microbial Mat hypersaline microbial mat cl DQ154
GU118646.1 gg_id:570244 Threatened Corals Provide Microbial Habitats clone Mfav_L02 GU118
AB121100.1 gg_id:99658 cold seep sediment clone JS624-4 AB121
EU245482.1 gg_id:255522 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M2-B0 EU245
AB177323.1 gg_id:128374 seafloor methane hydrate clone ODP1251B20.23 AB177
FJ516894.1 gg_id:548153 semiarid 'Tablas de Daimiel National Park' wetland (Central Spain) unravelled upper s FJ5168
AY605142.1 gg_id:104169 microbial mat clone IE071 AY605
NR_027585.1 gg_id:560417 Spirochaeta smaragdinae str. SEBR 4228; DSM 11293 NR_02
FJ203346.1 gg_id:320773 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata h FJ2033
AB088873.1 gg_id:77729 termite gut homogenate clone Rs-D16 sp. AB088
EU245577.1 gg_id:237886 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M3-C0 EU245
EU245839.1 gg_id:242567 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M7-A1 EU245
AY605137.1 gg_id:99854 microbial mat clone IE046 AY605
AY605176.1 gg_id:102131 microbial mat clone LH079 AY605
AY605141.1 gg_id:104007 microbial mat clone IE070 AY605
GU117988.1 gg_id:577654 Threatened Corals Provide Microbial Habitats clone Acer_D05 GU117
FM242378.1 gg_id:306448 sequences sediment clone 78 T9d+oil FM242
EU245233.1 gg_id:251576 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-H4-E05 EU245
AM236337.1 gg_id:168305 Evidence chemoautotrophic symbiosis Mediterranean cold seep clam (Bivalvia: Luci AM236
DQ329738.1 gg_id:159150 Guerrero Negro hypersaline microbial mat clone 05D2Z88 DQ329
AF507855.1 gg_id:62701 Mono Lake at depth 23 m station 6 July 2000 clone ML623J-23 bacterium AF507
FJ462030.1 gg_id:570445 Microbial ecology industrial digestor mesophilic anaerobic reactor fed effluent chemi FJ4620
EF031095.1 gg_id:182638 Prokaryotic Tirez La Macha Spain endorheic hypersaline atalasohaline lake clone SalB EF031
AY605165.1 gg_id:105791 microbial mat clone LG016 AY605
EU245551.1 gg_id:244538 Miniprimer new lens viewing world hypersaline microbial mat clone MAT-CR-M3-A0 EU245
AY922180.1 gg_id:112885 whalefall clone 131573 AY922
FJ203063.1 gg_id:347941 and White Plague Disease-Induced Changes Caribbean Coral Montastraea faveolata c FJ2030
AY605131.1 gg_id:98915 microbial mat clone IE024 AY605
X97096.1 gg_id:3801 peat bog clone TM3 X97096
EU385698.1 gg_id:262150 Stratified microbes sediments Core MD05-2896 subseafloor sediment South China S EU385
EF203193.1 gg_id:212910 phylotypes sediments Lake Kastoria Greece sediment clone Kas148B EF2031
EU488038.1 gg_id:540607 lucinid bivalve- symbiotic system: significance geochemical habitat on symbiont and EU488

70.8	2771.1	3032.3	2348.8	2442.0	2443.6	2973.0	2622.3	2097.0	500.3	2657.5
46.6	1633.1	2766.4	4872.9	1787.0	2234.4	2152.6	3625.0	1126.5	131.4	1963.7
50.3	37.3	46.0	56.0	84.9	35.8	77.6	114.1	45.3	40.7	53.5
40.4	55.9	75.6	45.8	84.8	58.1	95.6	81.1	45.0	34.7	34.9
6151.2	4654.2	4937.8	4697.6	4933.6	4626.5	5242.9	4190.9	5818.8	5145.2	4919.0
44.0	161.5	255.4	402.1	198.8	198.8	260.7	200.1	183.0	44.5	139.7
1628.3	2606.1	3271.6	3676.3	2954.9	2787.0	3291.6	3028.3	2292.9	1322.8	2727.0
40.1	27.4	27.7	32.3	25.3	14.7	22.3	34.0	19.4	17.4	24.1
763.1	2731.6	2940.7	2811.4	3024.4	2679.6	2736.8	2785.9	2886.7	2400.2	2681.2
8818.3	4070.1	4357.8	4603.6	4097.7	3712.3	4589.9	4011.6	7446.8	5765.6	4841.2
2748.6	7797.0	9044.4	9566.5	8791.7	7989.7	9388.6	9138.4	7951.3	5424.0	9647.8
44.6	104.6	145.1	141.1	142.4	69.0	170.1	109.1	57.9	28.8	88.5
976.5	1654.0	2126.9	2790.1	2920.7	1213.6	3361.4	2348.3	724.1	721.8	1880.6
8727.0	3505.2	3764.8	3509.4	3758.1	3805.6	4262.1	3457.3	3386.1	3841.2	4197.5
499.5	2853.8	3536.2	4224.2	3592.7	3585.7	3947.1	3949.5	2101.9	1133.7	1994.5
97.7	195.4	400.0	314.0	292.9	226.5	346.2	284.9	142.3	143.7	36.4
41.4	37.2	59.5	57.3	77.8	53.9	54.4	60.6	62.1	19.8	30.4
14079.1	9119.0	8891.3	9280.4	8747.4	8248.3	9637.5	8501.8	11538.3	8578.4	9778.7
3602.3	1916.4	3925.1	3882.9	2968.3	2755.9	3008.3	3654.0	2147.9	1608.9	2882.5
101.2	758.7	837.2	865.7	1021.2	613.9	762.6	849.7	468.4	600.9	400.0
3263.3	7186.2	7551.6	8378.4	6293.1	6716.0	8058.0	7381.3	5770.9	3733.3	7109.0
29404.5	5823.3	7894.6	9144.4	7339.2	7645.0	9524.1	7768.1	9960.5	11419.4	10872.6
55.1	81.3	161.6	201.3	100.6	110.5	141.8	140.6	55.1	18.3	78.9
10224.7	2267.2	2499.3	2935.4	2564.1	2402.0	2860.9	2529.1	4340.9	3784.9	3403.5
11622.5	9728.3	9842.7	10312.0	9778.9	9484.7	10071.9	9440.0	13166.3	10089.9	10875.7
46.9	81.2	202.0	104.8	159.0	247.1	145.1	68.6	33.5	32.4	38.4
413.9	5527.5	5924.9	5949.0	5600.0	5807.7	6692.2	6018.5	7114.2	8152.1	8052.6
59.5	118.0	226.0	198.2	175.1	149.7	188.3	203.5	78.1	61.4	100.2
47.5	277.6	585.9	456.0	189.9	386.9	603.6	506.3	176.7	254.7	226.5
32.7	33.3	49.6	53.4	33.0	24.2	30.5	29.7	27.3	16.2	21.8
65.2	1011.8	1263.6	1350.7	1043.7	976.7	1265.3	784.4	552.3	493.4	717.0
44.8	35.8	43.3	48.9	29.4	30.4	54.6	36.1	18.9	18.9	17.4
66.0	44.5	47.0	69.6	42.1	44.7	53.7	37.6	48.3	21.9	47.1
487.4	2535.4	3577.1	3668.9	2931.4	3420.0	2913.7	3565.6	3053.8	2733.7	2742.4
45.7	39.7	56.7	65.1	49.7	41.3	43.5	43.9	25.1	24.8	39.7
19264.9	10521.3	10551.0	10945.3	10235.5	9512.6	11520.0	9859.4	12470.2	10412.0	13320.7
108.5	327.6	673.7	802.7	552.3	488.0	654.3	596.0	181.7	206.6	344.9
42.0	189.4	222.7	310.7	517.5	295.2	739.8	208.8	37.1	25.4	86.5
405.0	4331.3	6552.8	8981.4	5388.0	4868.5	6991.3	5875.0	3027.9	2638.1	5453.4
349.9	3242.6	3239.0	4109.0	5175.3	3661.1	5005.4	3718.7	2055.8	1728.6	2468.4
456.0	2869.0	4158.8	5538.0	4313.4	3547.1	4861.7	4020.2	2318.7	1493.4	3538.9

2871.2	3388.2	4626.8
4274.7	2423.3	2775.8
32.5	38.7	42.3
78.0	66.2	47.1
3875.9	4907.9	5289.1
196.3	367.2	229.5
2404.3	2635.4	3766.3
23.8	46.6	30.0
4438.3	2751.3	2387.8
3585.4	5273.6	3248.4
7638.3	8303.1	9094.3
77.2	86.4	134.8
1761.3	1907.3	2453.3
2811.6	3766.3	3868.7
2955.6	3952.8	4754.6
280.5	358.7	297.2
109.1	44.2	58.9
7726.9	8726.3	8331.1
2954.3	3914.8	4600.8
693.2	917.3	877.2
6104.2	6788.0	8278.3
6532.7	7203.6	7226.5
151.2	132.8	162.3
2005.8	2662.0	2180.1
9113.5	10227.5	9717.7
122.6	92.2	98.5
5034.5	4883.8	4906.1
142.8	198.3	164.5
495.5	756.5	826.2
23.9	28.8	26.7
1258.7	1668.2	1388.0
27.5	37.1	49.6
36.6	48.2	37.3
3177.4	3889.4	2163.2
35.7	48.5	47.4
8752.8	10571.1	10137.9
389.4	510.3	746.3
125.4	129.4	347.2
6651.2	4081.2	7103.8
3362.0	4007.5	4108.9
4111.8	3420.6	4435.7

k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes

o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae
o__Spirochaetales	f__Spirochaetaceae

g__TM3
g__TM3
g__TM3
g__TM3
g__TM3
g__TM3
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema
g__Treponema

s__unclassified	76228
s__unclassified	76305
s__unclassified	76493
s__unclassified	76616
s__unclassified	76776
s__unclassified	77065
s__sp5	76540
s__sp5	76705
s__sp5	76738
s__sp5	76918
s__sp5	76980
s__Treponema amylovorum	76138
s__Treponema amylovorum	76432
s__Treponema amylovorum	76628
s__Treponema amylovorum	77125
s__Treponema azotonutricium	76026
s__Treponema azotonutricium	76788
s__Treponema azotonutricium	77007
s__Treponema denticola	76611
s__Treponema lecithinolyticum	76120
s__Treponema medium	75971
s__Treponema pallidum	76410
s__Treponema parvum	76332
s__Treponema pedis	76586
s__Treponema phagedenis	76024
s__Treponema primitia	75934
s__Treponema primitia	76452
s__Treponema primitia	76488
s__Treponema primitia	76633
s__Treponema primitia	76687
s__Treponema primitia	76695
s__Treponema primitia	76831
s__Treponema primitia	76900
s__Treponema primitia	77039
s__Treponema socranskii	76971
s__unclassified	75915
s__unclassified	75920
s__unclassified	75924
s__unclassified	75930
s__unclassified	75932
s__unclassified	75935

DQ676428.1 gg_id:221514 Archaeal and plankton freshwater pond suboxic freshwater-pond sediment clone M DQ676
EU734981.1 gg_id:347105 assemblages sediment station DBSE Northern Bering Sea clone 075B7 EU7349
EU048676.1 gg_id:250799 and archaeal surface marine sediment Slope South China Sea clone MD2896-B17 EU0486
AY605145.1 gg_id:104643 microbial mat clone IE094 AY6051
DQ329747.1 gg_id:159087 Guerrero Negro hypersaline microbial mat clone 072DZ15 DQ329
FJ748821.1 gg_id:582122 Vertical and sulfate-reducing prokaryotes estuarine Southern China Pearl River Estuar FJ7488
X89050.1 gg_id:4043 termite hindgut clone mpsp2 X89050
AJ458944.1 gg_id:83652 Mixotricha paradoxa is flagellate hindgut Mastotermes darwiniensis clone mp1 of AJ4589
AJ458945.1 gg_id:83413 Mixotricha paradoxa is flagellate hindgut Mastotermes darwiniensis clone mp3 of AJ4589
X89052.1 gg_id:4082 termite hindgut clone mpsp16 X89052
X89044.1 gg_id:4038 termite hindgut clone sp5_18 X89044
GU432215.1 gg_id:573932 Human Oral Microbiome oral cavity GU432
FJ976389.1 gg_id:573319 Interindividual healthy human oral microbiota mouth clone 24B016 FJ9763
GU408851.1 gg_id:574066 Human Oral Microbiome oral cavity GU408
AF385536.1 gg_id:29328 swab advanced noma lesion clone BZ013 AF3855
NR_025141.1 gg_id:570521 Treponema azotonutricium str. ZAS-9; DSM 13862 NR_025
AB088874.1 gg_id:77582 termite gut homogenate clone Rs-D40 sp. AB0888
AB088888.1 gg_id:77749 termite gut homogenate clone Rs-E64 sp. AB0888
D85438.1 gg_id:3915 Treponema denticola str. ATCC33520 D85438
X87139.1 gg_id:63015 Treponema lecithinolyticum periodontitis patient PFB4G X87139
FJ204241.1 gg_id:317194 Treponema medium subsp. bovis str. T52B FJ2042
M88726.1 gg_id:3964 Treponema pallidum M8872
AF302938.1 gg_id:30574 Treponema parvum str. OMZ842 AF3029
EF061267.1 gg_id:199343 Treponema pedis str. T354A EF0612
EF061263.1 gg_id:197926 Treponema bovis str. T323C EF0612
AB088896.1 gg_id:78075 termite gut homogenate clone Rs-B05 sp. AB0888
AY571472.1 gg_id:114451 termite gut clone RsaP136 AY5714
AB231032.1 gg_id:147653 termite gut wall clone HsW01-016 AB2310
AB231029.1 gg_id:146387 termite gut wall clone HsW01-003 AB2310
AF068334.1 gg_id:4047 termite gut homogenate clone RFS11 AF0683
AF068420.1 gg_id:4099 termite gut homogenate clone RFS7 AF0684
AF093251.1 gg_id:4009 Treponema primitia str. ZAS-1 AF0932
AB088916.1 gg_id:78032 termite gut homogenate clone Rs-Q68 AB0889
DQ009704.2 gg_id:141895 termite gut homogenate clone R38A5 DQ009
AB015889.1 gg_id:3841 Treponema subsp. socranskii 128B AB0158
AB191946.1 gg_id:143013 termite gut homogenate clone M2PT2-10 AB1919
AB085159.1 gg_id:72109 termite gut clone NkS-Dev14 AB0851
EF454259.2 gg_id:222608 termite hindgut clone 290cost002-P3L-1859 EF4542
X79548.1 gg_id:4015 Spirochaeta species X79548
AJ458946.1 gg_id:86557 Mixotricha paradoxa is flagellate hindgut Mastotermes darwiniensis clone mp4 of AJ4589
EU773678.1 gg_id:342601 Capybara feces clone CAP_aai00b06 EU7736

53.8	52.0	62.5	96.1	69.2	54.0	67.7	66.9	42.8	37.2	52.7
10926.6	3908.0	4087.7	4316.7	4401.0	4069.5	4907.8	3992.8	5105.5	4322.3	5243.9
1093.0	4090.8	4620.4	4914.9	5148.5	4384.2	6529.4	5421.0	3384.4	2748.4	3796.7
45.3	50.5	49.4	67.1	166.2	51.5	199.9	61.6	23.2	14.9	32.4
56.2	274.6	390.6	280.6	617.5	347.3	474.1	672.0	166.3	112.9	218.5
9618.8	10709.9	11371.1	12688.1	10940.6	11115.3	12423.4	10236.9	12569.8	11228.2	12803.4
45.2	24.4	28.6	27.2	30.7	24.2	31.1	24.6	23.8	24.8	31.3
229.8	356.8	527.0	579.7	552.6	434.2	687.6	482.6	309.9	281.2	431.1
50.6	67.3	140.7	102.0	74.2	74.8	87.4	89.5	45.9	35.7	46.9
48.6	136.6	247.7	290.1	683.1	255.9	250.2	219.1	71.9	44.4	97.0
39.5	62.8	71.2	85.8	77.8	59.0	75.7	63.1	35.6	26.4	40.0
7070.1	4844.8	5156.5	6783.6	5940.1	4649.0	5929.3	5012.9	4608.8	4003.6	6227.9
134.1	641.6	726.4	631.9	469.2	852.3	527.1	647.5	626.4	186.1	1580.9
108.0	1422.8	1733.6	1150.5	1514.9	1194.9	1569.8	1188.5	523.6	341.5	815.6
60.7	67.9	95.7	130.1	61.7	44.7	108.3	84.9	59.6	29.3	75.8
40.3	620.3	912.4	915.9	881.0	475.0	1114.2	943.9	456.2	170.1	322.5
26.0	129.7	438.5	339.0	109.1	130.0	326.6	176.9	77.7	48.5	112.5
1111.2	1926.6	2256.7	2907.1	2894.1	2024.6	2970.0	2049.6	1594.7	1760.7	1652.3
40.5	938.7	2284.1	2819.8	1415.7	892.2	1651.1	2005.4	885.8	113.7	1537.9
57.7	53.4	67.8	80.9	76.5	45.8	67.6	52.3	49.3	37.9	62.0
252.4	816.8	1623.2	1954.6	1148.8	974.4	1606.4	1245.5	736.9	428.8	1261.0
36.8	202.0	251.0	292.8	199.4	222.2	317.0	243.2	112.7	44.7	128.3
46.4	22.6	20.8	19.6	18.8	17.5	15.0	21.1	15.6	16.2	17.6
51.7	153.5	368.0	292.8	33.0	242.0	138.5	237.8	270.5	97.3	178.3
38.5	199.5	299.3	399.5	79.9	144.8	194.4	201.1	84.6	27.0	118.3
64.9	224.5	449.4	429.8	502.8	284.1	660.5	335.7	113.1	122.3	170.7
37.1	171.9	431.4	464.0	435.7	208.0	430.4	155.1	135.3	44.5	305.2
1550.1	1057.8	1310.3	1407.4	1335.7	948.2	1206.1	1613.9	512.5	327.4	654.6
213.2	1692.1	1479.0	1639.9	233.7	1450.5	2198.7	1934.7	1599.8	915.9	2013.9
233.1	690.3	1071.9	1305.4	1303.2	941.1	1170.0	826.8	406.5	537.3	613.2
3234.3	1563.6	2222.5	1414.0	1466.9	1611.6	717.3	1542.1	1512.7	2123.8	1167.9
1151.4	2583.3	3105.4	3932.8	3260.4	2532.3	4219.3	2595.6	2034.2	3134.2	2378.9
31.6	12.3	22.0	24.1	16.0	10.9	12.9	11.5	10.0	8.5	13.6
2533.5	2112.4	2689.2	2292.7	3088.2	1987.5	2499.9	1863.9	3438.0	1302.1	2877.3
425.3	983.6	1378.6	2014.7	1331.3	1003.6	1500.1	983.5	996.7	998.4	1138.8
40.5	60.8	115.0	127.7	33.8	47.5	77.4	65.3	29.3	14.9	81.5
4913.7	1801.5	1931.0	1831.2	1746.2	1958.3	1939.0	1605.1	3220.3	3202.8	1895.4
1407.6	5343.9	5057.1	5599.2	4993.4	5745.8	6398.2	5070.5	5366.6	5430.6	4973.5
55.9	100.4	143.8	152.7	114.9	57.5	139.7	69.5	40.4	17.3	66.8
32.2	26.1	29.7	36.5	51.2	24.4	27.5	20.2	20.4	22.1	18.6
1363.3	5534.5	4057.7	3541.3	3641.2	3637.3	4057.5	4064.3	4494.4	2643.3	3176.3

58.1	54.7	94.4
3716.7	4250.9	4080.5
4743.1	5428.7	5546.1
38.0	82.0	70.0
437.2	509.7	672.8
10011.5	11642.2	12613.9
25.6	32.7	32.8
404.7	556.4	500.8
77.0	115.8	91.0
175.8	261.7	569.6
69.9	104.1	124.9
3956.4	5488.5	5121.0
593.6	641.6	426.7
807.1	1358.2	1001.0
54.6	69.6	61.2
649.3	359.8	727.4
141.1	156.9	653.0
1901.0	2173.7	2889.1
2276.9	1130.0	2012.6
53.0	76.4	53.0
1131.4	1105.8	2241.8
137.2	289.9	285.5
19.3	23.9	17.3
343.6	435.3	341.3
164.7	200.3	640.1
349.9	296.3	427.0
114.6	156.4	254.0
1466.8	1453.6	1919.7
1664.8	1737.5	1963.5
845.1	1229.6	1040.4
1357.0	1957.6	2419.3
2615.2	3004.6	3821.5
17.1	20.3	11.4
1960.3	2403.3	2127.7
1116.9	1137.4	846.2
23.5	46.5	33.4
1494.3	2636.3	1833.4
4929.9	5791.1	6081.3
76.9	94.6	138.9
24.3	36.7	24.7
3414.2	4259.3	5901.2

k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes
k__Bacteria	k__Bacteria	p__Spirochaetes	c__Spirochaetes