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Job Title C1PETase
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Description C1PETase
Molecule type dna
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	Description ▼	Scientific Name ▼	Max Score ▼	Total Score ▼	Query Cover ▼	E value ▼	Per. Ident ▼	Acc. Len ▼	Accession
☒	Piscinibacter gummiphilus strain SBD 7-3 plasmid unnamed1, complete sequence	Piscinibacter gummiphilus	767	767	100%	0.0	94.22%	200976	CP136337.1
☒	Piscinibacter gummiphilus strain SBD 7-3 chromosome, complete genome	Piscinibacter gummiphilus	750	1281	100%	0.0	93.63%	5594180	CP136336.1
☒	Acidovorax delafieldii pbsA gene for PBS(A) depolymerase, complete cds	Acidovorax delafieldii	492	492	100%	8e-134	84.58%	915	AB066349.1
☒	Schlegelella brevitalea strain DSM 7029, complete genome	Caldimonas brevitalea	287	287	100%	4e-72	77.25%	6476147	CP011371.1
☒	Actinophytocola sp. CA-135451 chromosome, complete genome	Actinophytocola sp. CA-135451	78.7	78.7	11%	3e-09	91.23%	10585898	CP191925.1

Supplementary 1. Nucleotides BLAST analyses result for the partial C1PETase gene (<https://blast.ncbi.nlm.nih.gov/Blast.cgi>).

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Job Title Nucleotide Sequence
RID BHKB6TDF014 Search expires on 09-05 07:21 am [Download All ▼](#)
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Database core_nt [See details ▼](#)
Query ID lcl|Query_4099679
Description None
Molecule type dna
Query Length 1812
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	Description ▼	Scientific Name ▼	Max Score ▼	Total Score ▼	Query Cover ▼	E value ▼	Per. Ident ▼	Acc. Len ▼	Accession
☒	Delftia sp. DS1230 chromosome, complete genome	Delftia sp. DS1230	3286	3286	100%	0.0	99.39%	6275976	CP157763.1
☒	Delftia tsuruhatensis strain B7 chromosome, complete genome	Delftia tsuruhatensis	3265	3265	100%	0.0	99.23%	7063573	CP171815.1
☒	Xenophilus aerolatus strain 56729801 chromosome, complete genome	Xenophilus aerolatus	3208	3208	100%	0.0	98.57%	5602785	CP166702.1
☒	Delftia tsuruhatensis strain Ery-6A chromosome, complete genome	Delftia tsuruhatensis	3197	3197	100%	0.0	98.57%	6633560	CP120956.1
☒	Piscinibacter gummiphilus strain SBD 7-3 chromosome, complete genome	Piscinibacter gummiphilus	3197	3197	100%	0.0	98.57%	5594180	CP136336.1
☒	Synthetic construct monohydroxyethyl terephthalate hydrolase gene, complete cds	synthetic construct	1469	1469	100%	0.0	81.33%	1822	OR020854.1
☒	Roseomonas gilardii subsp. gilardii strain ATCC 49956 chromosome, complete genome	Roseomonas gilardii subsp. gilardii	56.5	56.5	3%	0.016	83.08%	4201321	CP095554.1

Supplementary 2. Nucleotides BLAST analyses result for the partial G2MHETase gene (<https://blast.ncbi.nlm.nih.gov/Blast.cgi>).

[illegible]

```

CP011371.1 : G      CG GATTCGCT      AAACGACAC GTCGCCCCGA CTCGCGACAT CTCCT CT      A      T TCGA TC : 680
              C ACGCTgaTc TCGCcTGCAGaACGACA CaTCGcCCGgT aac g      GcC g C TCTAC ACAGCaTgTCGcGCaa

C1PETase : ---T TCGAAGCAGTTTCCTTGAGATCAACBGTGGCTCGCATTCCTGCGCCAACAACGGCAACAGCGAACCAGGCCTGTATCGGCAAB : 455
IsPETase : ---T TCGAAGCAGTTTCCTTGAGATCAACBGTGGCTCGCATTCCTGCGCCAACAACGGCAACAGCGAACCAGGCCTGTATCGGCAAB : 756
CP136337.1 : ---T TCGAAGCAGTTTCCTTGAGATCAACBGTGGCTCGCATTCCTGCGCCAACAACGGCAACAGCGAACCAGGCCTGTATCGGCAAB : 756
CP136336.1 : ---T TCGAAGCAGTTTCCTTGAGATCAACBGTGGCTCGCATTCCTGCGCCAACAACGGCAACAGCGAACCAGGCCTGTATCGGCAAB : 756
AB066349.1 : ---CC TCGCGAGTTTCCTTGAGATCAACBGTGGCTCGCATTCCTGCGCCAACAACGGCAACAGCGAACCAGGCCTGTATCGGCAAB : 747
CP011371.1 : GCTCGCAGGCCTATCTTGAGATCAACBGTGGCTCGCATTCCTGCGCCAACAACGGCAACAGCGAACCAGGCCTGTATCGGCAAB : 765
              gCgaag agTtcCT GAGATCAAC GGCTCGCAcCTGCGCCAACA CCGCAACAGCaAcCAGGCgCTGaTcGGCAAg

C1PETase : AAGGGGTGCTGGATTAAGCGCTTCGTGATAACGACACCGCTA : 502
IsPETase : AAGGGGTGCTGGATTAAGCGCTTCGTGATAACGACACCGCTA : 841
CP136337.1 : AAGGGGTGCTGGATTAAGCGCTTCGTGATAACGACACCGCTA : 841
CP136336.1 : AAGGGGTGCTGGATTAAGCGCTTCGTGATAACGACACCGCTA : 841
AB066349.1 : AAGGGGTGCTGGATTAAGCGCTTCGTGATAACGACACCGCTA : 832
CP011371.1 : TACGGTGGGTGGATTAAGCGCTTCGTGATAACGACACCGCTA : 850
              aA GGCgTgGC TGGATgAAGCGCTTC TgGAcAACGACAc CGCTAc c cttc ctgc cc a c c

C1PETase : ----- : -
IsPETase : TGTCCGACTTCCGACCGGAACTGCACTGA----- : 873
CP136337.1 : TGTCCGACTTCCGACCGGAACTGCACTGA----- : 873
CP136336.1 : TGTCCGACTTCCGACCGGAACTGCACTGA----- : 873
AB066349.1 : TGTCCGACTTCCGACCGGAACTGCACTGA----- : 864
CP011371.1 : TGTCCGACTTCCGACCGGAACTGCACTGA----- : 897
              t ccgc c cg t c c

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Supplementary 3 Multiple sequence alignment of nucleotide sequences of detected PETase like enzyme in soil sample of Cipeucang (C1PETase) in comparison to PETase of *I. sakaiensis* (IsPETase, 97%), diene lactone hydrolase family protein of *Piscinibacter gummiphilus* str. SBD 7-3 plasmid (CP136337.1, 92.8%), diene lactone hydrolase family protein of *Piscinibacter gummiphilus* str. SBD 7-3 genome (CP136336.1, 92.8%), PBS(A) depolymerase of *Acidovorax delafieldii* (AB066349.1, 81.4%), and triacylglycerol lipase of *Schlegelella brevitalea* strain DSM 7029 (CP011371.1, 71.6%)

G2MHEase : ATGCAGACAAACAGTCAC : 102
 CP157763.1 : ATGCAGACAAACAGTCAC : 104
 IsMHEase : ATGCAGACAAACAGTCAC : 104
 CP136336.1 : ATGCAGACAAACAGTCAC : 98
 CP120956 : ATGCAGACAAACAGTCAC : 98
 CP166702.1 : ATGCAGACAAACAGTCAC : 110
 ATGCAGACAAACAGTCAC CACGATGCTGCTGGCGTCGGTGGCCCTAGCCGCGTGC T GCGGGGATCCACGCCGCTGCCG AGCAGACGCCGCCGA

G2MHEase : GCAGGAGCCTCCGCGGCCCGCGTTCGCTTGGCTTCGCGGCCGATCGGAGGCTCTGAAGACGGAATATGGCAGCATGGTGTGGCCAAATGCCGCGACGCTCTGGAAG : 214
 CP157763.1 : GCAGGAGCCTCCGCGGCCCGCGTTCGCTTGGCTTCGCGGCCGATCGGAGGCTCTGAAGACGGAATATGGCAGCATGGTGTGGCCAAATGCCGCGACGCTCTGGAAG : 214
 IsMHEase : GCAGGAGCCTCCGCGGCCCGCGTTCGCTTGGCTTCGCGGCCGATCGGAGGCTCTGAAGACGGAATATGGCAGCATGGTGTGGCCAAATGCCGCGACGCTCTGGAAG : 214
 CP136336.1 : GCAGGAGCCTCCGCGGCCCGCGTTCGCTTGGCTTCGCGGCCGATCGGAGGCTCTGAAGACGGAATATGGCAGCATGGTGTGGCCAAATGCCGCGACGCTCTGGAAG : 208
 CP120956 : GCAGGAGCCTCCGCGGCCCGCGTTCGCTTGGCTTCGCGGCCGATCGGAGGCTCTGAAGACGGAATATGGCAGCATGGTGTGGCCAAATGCCGCGACGCTCTGGAAG : 208
 CP166702.1 : GCAGGAGCCTCCGCGGCCCGCGTTCGCTTGGCTTCGCGGCCGATCGGAGGCTCTGAAGACGGAATATGGCAGCATGGTGTGGCCAAATGCCGCGACGCTCTGGAAG : 220
 GCAGGAGCCTCCGCGGCCCGCGTTCGCTTGGCTTCGCGGCCGATCGGAGGCTCTGAAGACGGAATATGGCAGCATGGTGTGGCCAAATGCCGCGACGCTCTGGAAG

G2MHEase : TCGCTGCTTGGCTGACGCGGCCGCCACCGCATCTGCGGC : 324
 CP157763.1 : TCGCTGCTTGGCTGACGCGGCCGCCACCGCATCTGCGGC : 324
 IsMHEase : TCGCTGCTTGGCTGACGCGGCCGCCACCGCATCTGCGGC : 324
 CP136336.1 : TCGCTGCTTGGCTGACGCGGCCGCCACCGCATCTGCGGC : 318
 CP120956 : TCGCTGCTTGGCTGACGCGGCCGCCACCGCATCTGCGGC : 318
 CP166702.1 : TCGCTGCTTGGCTGACGCGGCCGCCACCGCATCTGCGGC : 330
 TCGCTGCTTGGCTGACGCGGCCGCCACCGCATCTGCGGC GCGCTGCCGGAACACTGCGAGGTGTCCGGC CCATCGGAAGCGCACCGGATCGAGCGTATCCC

G2MHEase : TACGAAATCAAAATCCGCTCCGATGCCGCG : 434
 CP157763.1 : TACGAAATCAAAATCCGCTCCGATGCCGCG : 434
 IsMHEase : TACGAAATCAAAATCCGCTCCGATGCCGCG : 434
 CP136336.1 : TACGAAATCAAAATCCGCTCCGATGCCGCG : 428
 CP120956 : TACGAAATCAAAATCCGCTCCGATGCCGCG : 428
 CP166702.1 : TACGAAATCAAAATCCGCTCCGATGCCGCG : 440
 TACGAAATCAAAATCCGCTCCGATGCCGCG GAATGGAACGGTCTTCTCATGGAAGCGCG GCGGAAC AACGGCTCGCTGTCCGCGCTACCGCAGCATTGG

G2MHEase : TGGGGACAGATCGCAAGCGCGTGTCTCGCAATTTCCGCCACCATCGCAACGGATGGAGGTACAGCAACGAGTGAACGACATCCCGACGCGCTCGGCACCGTTGCC : 544
 CP157763.1 : TGGGGACAGATCGCAAGCGCGTGTCTCGCAATTTCCGCCACCATCGCAACGGATGGAGGTACAGCAACGAGTGAACGACATCCCGACGCGCTCGGCACCGTTGCC : 544
 IsMHEase : TGGGGACAGATCGCAAGCGCGTGTCTCGCAATTTCCGCCACCATCGCAACGGATGGAGGTACAGCAACGAGTGAACGACATCCCGACGCGCTCGGCACCGTTGCC : 544
 CP136336.1 : TGGGGACAGATCGCAAGCGCGTGTCTCGCAATTTCCGCCACCATCGCAACGGATGGAGGTACAGCAACGAGTGAACGACATCCCGACGCGCTCGGCACCGTTGCC : 538
 CP120956 : TGGGGACAGATCGCAAGCGCGTGTCTCGCAATTTCCGCCACCATCGCAACGGATGGAGGTACAGCAACGAGTGAACGACATCCCGACGCGCTCGGCACCGTTGCC : 538
 CP166702.1 : TGGGGACAGATCGCAAGCGCGTGTCTCGCAATTTCCGCCACCATCGCAACGGATGGAGGTACAGCAACGAGTGAACGACATCCCGACGCGCTCGGCACCGTTGCC : 550
 TGGGGACAGATCGCAAGCGCGTGTCTCGCAATTTCCGCCACCATCGCAACGGATGGAGGTACAGCAACGAGTGAACGACATCCCGACGCGCTCGGCACCGTTGCC

G2MHEase : TCGGATTTGGATCCGACGGCCGCTCTCGATATGGGCTACAACCTCGTAGATCAGGTACGACGAGGACGAGGCGCGGTTGCCAGGTTCTACGAGCGCGCTGCCGACAAG : 654
 CP157763.1 : TCGGATTTGGATCCGACGGCCGCTCTCGATATGGGCTACAACCTCGTAGATCAGGTACGACGAGGACGAGGCGCGGTTGCCAGGTTCTACGAGCGCGCTGCCGACAAG : 654
 IsMHEase : TCGGATTTGGATCCGACGGCCGCTCTCGATATGGGCTACAACCTCGTAGATCAGGTACGACGAGGACGAGGCGCGGTTGCCAGGTTCTACGAGCGCGCTGCCGACAAG : 654
 CP136336.1 : TCGGATTTGGATCCGACGGCCGCTCTCGATATGGGCTACAACCTCGTAGATCAGGTACGACGAGGACGAGGCGCGGTTGCCAGGTTCTACGAGCGCGCTGCCGACAAG : 648
 CP120956 : TCGGATTTGGATCCGACGGCCGCTCTCGATATGGGCTACAACCTCGTAGATCAGGTACGACGAGGACGAGGCGCGGTTGCCAGGTTCTACGAGCGCGCTGCCGACAAG : 648
 CP166702.1 : TCGGATTTGGATCCGACGGCCGCTCTCGATATGGGCTACAACCTCGTAGATCAGGTACGACGAGGACGAGGCGCGGTTGCCAGGTTCTACGAGCGCGCTGCCGACAAG : 660
 TCGGATTTGGATCCGACGGCCGCTCTCGATATGGGCTACAACCTCGTAGATCAGGTACGACGAGGACGAGGCGCGGTTGCCAGGTTCTACGAGCGCGCTGCCGACAAG

G2MHEase : TCCTATTTCATCGGCTGTTTCGAGGGCGCGCGGAGGCGATGATGCTCTCGCAGCGCTTCCTTCCCACTACGACGGCATCGTTGCCGTTGACACGGCTACCAAGTTGCC : 764
 CP157763.1 : TCCTATTTCATCGGCTGTTTCGAGGGCGCGCGGAGGCGATGATGCTCTCGCAGCGCTTCCTTCCCACTACGACGGCATCGTTGCCGTTGACACGGCTACCAAGTTGCC : 764
 IsMHEase : TCCTATTTCATCGGCTGTTTCGAGGGCGCGCGGAGGCGATGATGCTCTCGCAGCGCTTCCTTCCCACTACGACGGCATCGTTGCCGTTGACACGGCTACCAAGTTGCC : 764
 CP136336.1 : TCCTATTTCATCGGCTGTTTCGAGGGCGCGCGGAGGCGATGATGCTCTCGCAGCGCTTCCTTCCCACTACGACGGCATCGTTGCCGTTGACACGGCTACCAAGTTGCC : 758
 CP120956 : TCCTATTTCATCGGCTGTTTCGAGGGCGCGCGGAGGCGATGATGCTCTCGCAGCGCTTCCTTCCCACTACGACGGCATCGTTGCCGTTGACACGGCTACCAAGTTGCC : 758
 CP166702.1 : TCCTATTTCATCGGCTGTTTCGAGGGCGCGCGGAGGCGATGATGCTCTCGCAGCGCTTCCTTCCCACTACGACGGCATCGTTGCCGTTGACACGGCTACCAAGTTGCC : 770
 TCCTATTTCATCGGCTGTTTCGAGGGCGCGCGGAGGCGATGATGCTCTCGCAGCGCTTCCTTCCCACTACGACGGCATCGTTGCCGTTGACACGGCTACCAAGTTGCC

G2MHEase : GAAGGCGCGGATCAGCGGTCGCTGGACACACAGTCCCTTGCGCCCGCGCTGTCGTTTGGATGCAACAGGCGTGCCTTTATCAATAAGTCTTTCTGACGCCGACG : 874
 CP157763.1 : GAAGGCGCGGATCAGCGGTCGCTGGACACACAGTCCCTTGCGCCCGCGCTGTCGTTTGGATGCAACAGGCGTGCCTTTATCAATAAGTCTTTCTGACGCCGACG : 874
 IsMHEase : GAAGGCGCGGATCAGCGGTCGCTGGACACACAGTCCCTTGCGCCCGCGCTGTCGTTTGGATGCAACAGGCGTGCCTTTATCAATAAGTCTTTCTGACGCCGACG : 874
 CP136336.1 : GAAGGCGCGGATCAGCGGTCGCTGGACACACAGTCCCTTGCGCCCGCGCTGTCGTTTGGATGCAACAGGCGTGCCTTTATCAATAAGTCTTTCTGACGCCGACG : 868
 CP120956 : GAAGGCGCGGATCAGCGGTCGCTGGACACACAGTCCCTTGCGCCCGCGCTGTCGTTTGGATGCAACAGGCGTGCCTTTATCAATAAGTCTTTCTGACGCCGACG : 868
 CP166702.1 : GAAGGCGCGGATCAGCGGTCGCTGGACACACAGTCCCTTGCGCCCGCGCTGTCGTTTGGATGCAACAGGCGTGCCTTTATCAATAAGTCTTTCTGACGCCGACG : 880
 GAAGGCGCGGATCAGCGGTCGCTGGACACACAGTCCCTTGCGCCCGCGCTGTCGTTTGGATGCAACAGGCGTGCCTTTATCAATAAGTCTTTCTGACGCCGACG

G2MHEase : TGCACCTTCTTTACAGGCAATCTGGGCATGTGACGCCCTCGACGCCCTTGCGGATGGCATCTGTGACAATATCCGGGCTGCGCAGGACGCTTTGACCCGCCACG : 984
 CP157763.1 : TGCACCTTCTTTACAGGCAATCTGGGCATGTGACGCCCTCGACGCCCTTGCGGATGGCATCTGTGACAATATCCGGGCTGCGCAGGACGCTTTGACCCGCCACG : 984
 IsMHEase : TGCACCTTCTTTACAGGCAATCTGGGCATGTGACGCCCTCGACGCCCTTGCGGATGGCATCTGTGACAATATCCGGGCTGCGCAGGACGCTTTGACCCGCCACG : 984
 CP136336.1 : TGCACCTTCTTTACAGGCAATCTGGGCATGTGACGCCCTCGACGCCCTTGCGGATGGCATCTGTGACAATATCCGGGCTGCGCAGGACGCTTTGACCCGCCACG : 978
 CP120956 : TGCACCTTCTTTACAGGCAATCTGGGCATGTGACGCCCTCGACGCCCTTGCGGATGGCATCTGTGACAATATCCGGGCTGCGCAGGACGCTTTGACCCGCCACG : 978
 CP166702.1 : TGCACCTTCTTTACAGGCAATCTGGGCATGTGACGCCCTCGACGCCCTTGCGGATGGCATCTGTGACAATATCCGGGCTGCGCAGGACGCTTTGACCCGCCACG : 990
 TGCACCTTCTTTACAGGCAATCTGGGCATGTGACGCCCTCGACGCCCTTGCGGATGGCATCTGTGACAATATCCGGGCTGCGCAGGACGCTTTGACCCGCCACG

G2MHEase : GCAGCCAAATCTGCAAAACGCGCAGGCGCTCCAGTGCCTTGGCGCCAAGACTCGGATTCGCTGACGCCGCTCCAGGTCACTGCGATCAAGCGCGCATGGCGGGCCGCT : 1094
 CP157763.1 : GCAGCCAAATCTGCAAAACGCGCAGGCGCTCCAGTGCCTTGGCGCCAAGACTCGGATTCGCTGACGCCGCTCCAGGTCACTGCGATCAAGCGCGCATGGCGGGCCGCT : 1094
 IsMHEase : GCAGCCAAATCTGCAAAACGCGCAGGCGCTCCAGTGCCTTGGCGCCAAGACTCGGATTCGCTGACGCCG

```

      *      1120      *      1140      *      1160      *      1180      *      1200      *
G2MHETase : GAATTCGGCGGGGAACGCCGTTGTACAACAGATGGGCTTGGGACGCTGGCATGAGCGGACTGAGTGGCAGCACTATAACAGGGGTGGCGCTCGTGGTGGCTCGGTAGCT : 1204
CP157763.1 : GAATTCGGCGGGGAACGCCGTTGTACAACAGATGGGCTTGGGACGCTGGCATGAGCGGACTGAGTGGCAGCACTATAACAGGGGTGGCGCTCGTGGTGGCTCGGTAGCT : 1204
IsMHETase : GAATTCGGCGGGGAACGCCGTTGTACAACAGATGGGCTTGGGACGCTGGCATGAGCGGACTGAGTGGCAGCACTATAACAGGGGTGGCGCTCGTGGTGGCTCGGTAGCT : 1204
CP136336.1 : GAATTCGGCGGGGAACGCCGTTGTACAACAGATGGGCTTGGGACGCTGGCATGAGCGGACTGAGTGGCAGCACTATAACAGGGGTGGCGCTCGTGGTGGCTCGGTAGCT : 1198
CP120956.1 : GAATTCGGCGGGGAACGCCGTTGTACAACAGATGGGCTTGGGACGCTGGCATGAGCGGACTGAGTGGCAGCACTATAACAGGGGTGGCGCTCGTGGTGGCTCGGTAGCT : 1198
CP166702.1 : GAATTCGGCGGGGAACGCCGTTGTACAACAGATGGGCTTGGGACGCTGGCATGAGCGGACTGAGTGGCAGCACTATAACAGGGGTGGCGCTCGTGGTGGCTCGGTAGCT : 1210
      GAATTCGGCGGGGAACGCCGTTGTACAACAGATGGGCTTGGGACGCTGGCATGAGCGGACTGAGTGGCAGCACTATAACAGGGGTGGCGCTCGTGGTGGCTCGGTAGCT

      *      1220      *      1240      *      1260      *      1280      *      1300      *      1320
G2MHETase : TCAACAGCAGTGGCCAACAACGCCAGCGCGTGGAGCGGCTTCTCGGCGCGCTCGTGGCTGGTGCATTTCGCCACAACCGCCGAACCGATGCCCTGACGCAGGTTGCCGCG : 1314
CP157763.1 : TCAACAGCAGTGGCCAACAACGCCAGCGCGTGGAGCGGCTTCTCGGCGCGCTCGTGGCTGGTGCATTTCGCCACAACCGCCGAACCGATGCCCTGACGCAGGTTGCCGCG : 1314
IsMHETase : TCAACAGCAGTGGCCAACAACGCCAGCGCGTGGAGCGGCTTCTCGGCGCGCTCGTGGCTGGTGCATTTCGCCACAACCGCCGAACCGATGCCCTGACGCAGGTTGCCGCG : 1314
CP136336.1 : TCAACAGCAGTGGCCAACAACGCCAGCGCGTGGAGCGGCTTCTCGGCGCGCTCGTGGCTGGTGCATTTCGCCACAACCGCCGAACCGATGCCCTGACGCAGGTTGCCGCG : 1308
CP120956.1 : TCAACAGCAGTGGCCAACAACGCCAGCGCGTGGAGCGGCTTCTCGGCGCGCTCGTGGCTGGTGCATTTCGCCACAACCGCCGAACCGATGCCCTGACGCAGGTTGCCGCG : 1308
CP166702.1 : TCAACAGCAGTGGCCAACAACGCCAGCGCGTGGAGCGGCTTCTCGGCGCGCTCGTGGCTGGTGCATTTCGCCACAACCGCCGAACCGATGCCCTGACGCAGGTTGCCGCG : 1320
      TCAACAGCAGTGGCCAACAACGCCAGCGCGTGGAGCGGCTTCTCGGCGCGCTCGTGGCTGGTGCATTTCGCCACAACCGCCGAACCGATGCCCTGACGCAGGTTGCCGCG

      *      1340      *      1360      *      1380      *      1400      *      1420      *
G2MHETase : CGGATGATGAAATTCGATTTTCGACATCGATCCGTTGAAGATTGGGGCAACCGCGGACAGTTCACCCAAATCCAGCATGGACTGGCAGGTTGCAACTTCTACTGACCTTGC : 1424
CP157763.1 : CGGATGATGAAATTCGATTTTCGACATCGATCCGTTGAAGATTGGGGCAACCGCGGACAGTTCACCCAAATCCAGCATGGACTGGCAGGTTGCAACTTCTACTGACCTTGC : 1424
IsMHETase : CGGATGATGAAATTCGATTTTCGACATCGATCCGTTGAAGATTGGGGCAACCGCGGACAGTTCACCCAAATCCAGCATGGACTGGCAGGTTGCAACTTCTACTGACCTTGC : 1424
CP136336.1 : CGGATGATGAAATTCGATTTTCGACATCGATCCGTTGAAGATTGGGGCAACCGCGGACAGTTCACCCAAATCCAGCATGGACTGGCAGGTTGCAACTTCTACTGACCTTGC : 1418
CP120956.1 : CGGATGATGAAATTCGATTTTCGACATCGATCCGTTGAAGATTGGGGCAACCGCGGACAGTTCACCCAAATCCAGCATGGACTGGCAGGTTGCAACTTCTACTGACCTTGC : 1418
CP166702.1 : CGGATGATGAAATTCGATTTTCGACATCGATCCGTTGAAGATTGGGGCAACCGCGGACAGTTCACCCAAATCCAGCATGGACTGGCAGGTTGCAACTTCTACTGACCTTGC : 1430
      CGGATGATGAAATTCGATTTTCGACATCGATCCGTTGAAGATTGGGGCAACCGCGGACAGTTCACCCAAATCCAGCATGGACTGGCAGGTTGCAACTTCTACTGACCTTGC

      *      1440      *      1460      *      1480      *      1500      *      1520      *      1540
G2MHETase : TGCCTTCCCGGATCGCGCGGCAAGATGATCCTGTACACCGGCATGTCCGACGCGCGCTTCTCAGCCCTGGACACGCGCGCACTATTACGAGAGACTTGCGCAGCGATGC : 1534
CP157763.1 : TGCCTTCCCGGATCGCGCGGCAAGATGATCCTGTACACCGGCATGTCCGACGCGCGCTTCTCAGCCCTGGACACGCGCGCACTATTACGAGAGACTTGCGCAGCGATGC : 1534
IsMHETase : TGCCTTCCCGGATCGCGCGGCAAGATGATCCTGTACACCGGCATGTCCGACGCGCGCTTCTCAGCCCTGGACACGCGCGCACTATTACGAGAGACTTGCGCAGCGATGC : 1534
CP136336.1 : TGCCTTCCCGGATCGCGCGGCAAGATGATCCTGTACACCGGCATGTCCGACGCGCGCTTCTCAGCCCTGGACACGCGCGCACTATTACGAGAGACTTGCGCAGCGATGC : 1528
CP120956.1 : TGCCTTCCCGGATCGCGCGGCAAGATGATCCTGTACACCGGCATGTCCGACGCGCGCTTCTCAGCCCTGGACACGCGCGCACTATTACGAGAGACTTGCGCAGCGATGC : 1528
CP166702.1 : TGCCTTCCCGGATCGCGCGGCAAGATGATCCTGTACACCGGCATGTCCGACGCGCGCTTCTCAGCCCTGGACACGCGCGCACTATTACGAGAGACTTGCGCAGCGATGC : 1540
      TGCCTTCCCGGATCGCGCGGCAAGATGATCCTGTACACCGGCATGTCCGACGCGCGCTTCTCAGCCCTGGACACGCGCGCACTATTACGAGAGACTTGCGCAGCGATGC

      *      1560      *      1580      *      1600      *      1620      *      1640      *
G2MHETase : CAGGTGCTGCTGGATTTCGCGCGCCTTTTCTGGTGCGGGGTATGAATCATTGCAGCGCGGTCCTCCGGGACCGACCGGTTTCGACATGCTGACGCCCTTGGTCGCTGGGTC : 1644
CP157763.1 : CAGGTGCTGCTGGATTTCGCGCGCCTTTTCTGGTGCGGGGTATGAATCATTGCAGCGCGGTCCTCCGGGACCGACCGGTTTCGACATGCTGACGCCCTTGGTCGCTGGGTC : 1644
IsMHETase : CAGGTGCTGCTGGATTTCGCGCGCCTTTTCTGGTGCGGGGTATGAATCATTGCAGCGCGGTCCTCCGGGACCGACCGGTTTCGACATGCTGACGCCCTTGGTCGCTGGGTC : 1644
CP136336.1 : CAGGTGCTGCTGGATTTCGCGCGCCTTTTCTGGTGCGGGGTATGAATCATTGCAGCGCGGTCCTCCGGGACCGACCGGTTTCGACATGCTGACGCCCTTGGTCGCTGGGTC : 1638
CP120956.1 : CAGGTGCTGCTGGATTTCGCGCGCCTTTTCTGGTGCGGGGTATGAATCATTGCAGCGCGGTCCTCCGGGACCGACCGGTTTCGACATGCTGACGCCCTTGGTCGCTGGGTC : 1638
CP166702.1 : CAGGTGCTGCTGGATTTCGCGCGCCTTTTCTGGTGCGGGGTATGAATCATTGCAGCGCGGTCCTCCGGGACCGACCGGTTTCGACATGCTGACGCCCTTGGTCGCTGGGTC : 1650
      CAGGTGCTGCTGGATTTCGCGCGCCTTTTCTGGTGCGGGGTATGAATCATTGCAGCGCGGTCCTCCGGGACCGACCGGTTTCGACATGCTGACGCCCTTGGTCGCTGGGTC

      *      1660      *      1680      *      1700      *      1720      *      1740      *      1760
G2MHETase : GAGCGCGGCGAGGCGCGGATCAGATCTCCGCGCTGGTCCGGGCACGCCAGGGTACTTCGGGGTGGCGGCACGCACGCGGCCACTTTGCCCGTATCCCCAAATCGCCCGCTA : 1754
CP157763.1 : GAGCGCGGCGAGGCGCGGATCAGATCTCCGCGCTGGTCCGGGCACGCCAGGGTACTTCGGGGTGGCGGCACGCACGCGGCCACTTTGCCCGTATCCCCAAATCGCCCGCTA : 1754
IsMHETase : GAGCGCGGCGAGGCGCGGATCAGATCTCCGCGCTGGTCCGGGCACGCCAGGGTACTTCGGGGTGGCGGCACGCACGCGGCCACTTTGCCCGTATCCCCAAATCGCCCGCTA : 1754
CP136336.1 : GAGCGCGGCGAGGCGCGGATCAGATCTCCGCGCTGGTCCGGGCACGCCAGGGTACTTCGGGGTGGCGGCACGCACGCGGCCACTTTGCCCGTATCCCCAAATCGCCCGCTA : 1748
CP120956.1 : GAGCGCGGCGAGGCGCGGATCAGATCTCCGCGCTGGTCCGGGCACGCCAGGGTACTTCGGGGTGGCGGCACGCACGCGGCCACTTTGCCCGTATCCCCAAATCGCCCGCTA : 1748
CP166702.1 : GAGCGCGGCGAGGCGCGGATCAGATCTCCGCGCTGGTCCGGGCACGCCAGGGTACTTCGGGGTGGCGGCACGCACGCGGCCACTTTGCCCGTATCCCCAAATCGCCCGCTA : 1760
      GAGCGCGGCGAGGCGCGGATCAGATCTCCGCGCTGGTCCGGGCACGCCAGGGTACTTCGGGGTGGCGGCACGCACGCGGCCACTTTGCCCGTATCCCCAAATCGCCCGCTA

      *      1780      *      1800      *
G2MHETase : CAAGGGTAGTGGAGACATCAACACCGAAGCGAACTTCGCGCTGCGCGGCGCCCTCTCTGA : 1812
CP157763.1 : CAAGGGTAGTGGAGACATCAACACCGAAGCGAACTTCGCGCTGCGCGGCGCCCTCTGA : 1812
IsMHETase : CAAGGGTAGTGGAGACATCAACACCGAAGCGAACTTCGCGCTGCGCGGCGCCCTCTGA : 1812
CP136336.1 : CAAGGGTAGTGGAGACATCAACACCGAAGCGAACTTCGCGCTGCGCGGCGCCCTCTGA : 1806
CP120956.1 : CAAGGGTAGTGGAGACATCAACACCGAAGCGAACTTCGCGCTGCGCGGCGCCCTCTGA : 1806
CP166702.1 : CAAGGGTAGTGGAGACATCAACACCGAAGCGAACTTCGCGCTGCGCGGCGCCCTCTGA : 1818
      CAAGGGTAGTGGAGACATCAACACCGAAGCGAACTTCGCGCTGCGCGGCGCCCTCTGA

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Supplementary 4. Multiple sequence alignment of nucleotide sequences of detected MHETase in soil sample of Galuga (G2MHETase) in comparison to MHETase from *I. sakaiensis* (IsMHETase, 99.4%), *Delftia* sp (CP157763.1, 99.3%), *Xenophilus aerolatus* (CP166702.1, 98.5%), *Piscinibacter gummiphilus* strain SBD 7-3 (CP136336.1, 98.5%), and *Delftia tsuruhatensis* strain Ery-6A (CP120956.1, 98.6%)

Supplementary 5. Bacterial diversity on enriched Cipeucang sample based on the abundance of species.

Genus	Species	Abundance
Achromobacter		3627
Achromobacter	aegrifaciens	114
Achromobacter	aestuarii	1
Achromobacter	agilis	37
Achromobacter	aloeverae	78
Achromobacter	animicus	109
Achromobacter	deleyi	816
Achromobacter	denitrificans	662
Achromobacter	dolens	4
Achromobacter	insolitus	4543
Achromobacter	insuavis	30
Achromobacter	kerstersii	31
Achromobacter	marplatensis	59
Achromobacter	mucicolens	27
Achromobacter	pestifer	615
Achromobacter	piechaudii	35
Achromobacter	pulmonis	22
Achromobacter	ruhlandii	7
Achromobacter	spanius	3
Achromobacter	veterisilvae	39
Achromobacter	xylooxidans	352
Acidovorax		1
Acinetobacter		305
Acinetobacter	albensis	4
Acinetobacter	antiviralis	1
Acinetobacter	baumannii	1986
Acinetobacter	baylyi	1
Acinetobacter	bereziniae	1
Acinetobacter	calcoaceticus/baumannii complex	2010
Acinetobacter	equi	3
Acinetobacter	guillouiae	1
Acinetobacter	haemolyticus	1
Acinetobacter	ihumii	1
Acinetobacter	junii	4
Acinetobacter	kanungonis	8
Acinetobacter	kookii	2
Acinetobacter	lwoffii	1
Acinetobacter	nosocomialis	21
Acinetobacter	oleivorans	4

Acinetobacter	oryzae	1
Acinetobacter	pittii	2
Acinetobacter	plantarum	1
Acinetobacter	populi	2
Acinetobacter	radioresistens	2
Acinetobacter	seifertii	1
Acinetobacter	sichuanensis	3
Acinetobacter	tandoii	5
Acinetobacter	venetianus	2
Advenella		1
Advenella	mandrilli	1
Advenella	mimigardefordensis	1
Agrobacterium		56
Agrobacterium	cavarae	1
Agrobacterium	fabrum	18
Agrobacterium	leguminum	1
Agrobacterium	pusense	6
Agrobacterium	radiobacter	6
Agrobacterium	salinitolerans	4
Agrobacterium	tumefaciens complex	24
Agromyces	mediolanus	1
Alcaligenes	parafaecalis	2
Alkalihalobacterium	alkalinitrilicum	1
Alkanindiges		1
Allisonella	histaminiformans	1
Allospseudospirillum	japonicum	1
Allopusillimonas	solii	7
Aminobacter		1
Aminobacter	carboxidus group	1
Aminobacter	lissarensis	1
Ancylobacter	aquaticus	1
Ancylobacter	vacuolatus	1
Arsenicococcus	piscis	1
Arthrobacter	nanjingensis	7
Arthrobacter	oryzae	1
Arthrobacter	ramosus	1
Arthrobacter	woluwensis	31
Atlantibacter	hermannii	1
Azomonas	macrocytogenes	1
Azotobacter	chroococcum	1
Bacillus		92

Bacillus	alkalisoli	1
Bacillus	anderaoultii	1
Bacillus	anthracis	4
Bacillus	cereus	2
Bacillus	cereus group	24
Bacillus	cytotoxicus	2
Bacillus	fungorum	2
Bacillus	paramycoides	16
Bacillus	solimangrovi	2
Bordetella		16
Bordetella	ansorpii	5
Bordetella	avium	18
Bordetella	bronchiseptica	19
Bordetella	flabilis	3
Bordetella	hinzii	3
Bordetella	holmesii	7
Bordetella	parapertussis	4
Bordetella	petrii	16
Bordetella	trematum	5
Bordetella	tumulicola	2
Bosea		25
Bosea	lupini	9
Bosea	massiliensis	6
Bosea	minatitlanensis	17
Bosea	psychrotolerans	1
Bosea	robiniae	23
Bosea	thiooxidans	83
Bosea	vaviloviae	2
Bosea	vestrisii	7
Brachymonas	denitrificans	1
Bradyrhizobium		37
Bradyrhizobium	americanum	2
Bradyrhizobium	cenepequi	3
Bradyrhizobium	centrolobii	2
Bradyrhizobium	centroseomatis	4
Bradyrhizobium	erythrophlei	1
Bradyrhizobium	frederickii	3
Bradyrhizobium	ganzhouense	2
Bradyrhizobium	hipponense	2
Bradyrhizobium	ingae	3
Bradyrhizobium	iriomotense	2

Bradyrhizobium	jicamae	2
Bradyrhizobium	liaoningense	1
Bradyrhizobium	macuxiense	2
Bradyrhizobium	neotropicale	1
Bradyrhizobium	yuanmingense	1
Brevundimonas		28
Brevundimonas	diminuta	187
Brevundimonas	faecalis	3
Brevundimonas	humi	1
Brevundimonas	naejangsanensis	39
Brevundimonas	olei	2
Brevundimonas	terrae	2
Brevundimonas	vitisensis	1
Brucella		545
Brucella	[Ochrobactrum] quorumnocens	1
Brucella	[Ochrobactrum] soli	2
Brucella	[Ochrobactrum] teleogrylli	332
Brucella	anthropi	11
Brucella	ciceri	2
Brucella	daejeonensis	32
Brucella	endophytica	7
Brucella	gallinifaecis	1
Brucella	haematophila	81
Brucella	inopinata	4
Brucella	intermedia	31
Brucella	lupini	9
Brucella	oryzae	35
Brucella	ovis	8
Brucella	papionis	1
Brucella	pecoris	5
Brucella	puitosa	3
Brucella	pseudintermedia	175
Brucella	pseudogrignoneensis	2
Brucella	thiophenivorans	2
Brucella	vulpis	5
Burkholderia		1
Buttiauxella	ferrugutiae	2
Caenimicrobium	hargitense	6
Candidimonas	nitroreducens	1
Cedecea	colo	1
Cedecea	lapagei	2

Cedecea	neteri	1
Cellulomonas		1
Chania	multitudinisentens	1
Chromobacterium	paludis	1
Chryseobacterium		108
Chryseobacterium	arthrosphaerae	9
Chryseobacterium	artocarpi	2
Chryseobacterium	aurantiacum	5
Chryseobacterium	aureum	1
Chryseobacterium	chungangensis	1
Chryseobacterium	contaminans	16
Chryseobacterium	culicis	5
Chryseobacterium	endalhagicum	3
Chryseobacterium	flavum	12
Chryseobacterium	formosense	5
Chryseobacterium	gallinarum	350
Chryseobacterium	gleum	10
Chryseobacterium	gregarium	2
Chryseobacterium	gwangjuense	1
Chryseobacterium	indologenes	4
Chryseobacterium	joostei	2
Chryseobacterium	koreense	1
Chryseobacterium	lacus	1
Chryseobacterium	phocaeense	1
Chryseobacterium	phosphatilyticum	1
Chryseobacterium	piperi	1
Chryseobacterium	potabilaquae	2
Chryseobacterium	salipaludis	1
Chryseobacterium	timonianum	3
Chryseobacterium	vaccae	1
Chryseobacterium	vietnamense	4
Chryseobacterium	vrystaatense	17
Chryseobacterium	zhengzhouense	1
Chryseomicrobium	aureum	1
Citrobacter		73
Citrobacter	arsenatis	1
Citrobacter	braakii	8
Citrobacter	cronae	4
Citrobacter	europaeus	28
Citrobacter	freundii	5
Citrobacter	freundii complex	23

Citrobacter	gillenii	5
Citrobacter	pasteurii	3
Citrobacter	tructae	1
Citrobacter	werkmanii	1
Citrobacter	youngae	4
Cloacibacterium		2
Cloacibacterium	normanense	8
Cloacibacterium	rupense	1
Comamonas		128
Comamonas	aquatica	45
Comamonas	aquatis	2
Comamonas	composti	1
Comamonas	faecalis	25
Comamonas	fluminis	2
Comamonas	granuli	8
Comamonas	guangdongensis	1
Comamonas	jiangduensis	39
Comamonas	kerstersii	138
Comamonas	koreensis	3
Comamonas	nitratorans	1
Comamonas	odontotermis	24
Comamonas	phosphati	600
Comamonas	sediminis	28
Comamonas	terrae	170
Comamonas	terrigena	3
Corticimicrobacter	populi	15
Cronobacter	condimenti	1
Cronobacter	malonaticus	2
Cruoricaptor	ignavus	2
Cupriavidus		10
Cupriavidus	basilensis	2
Cupriavidus	cauae	1
Cupriavidus	laharis	4
Cupriavidus	metallidurans	2
Cupriavidus	necator	5
Cupriavidus	oxalaticus	10
Cupriavidus	taiwanensis	2
Cupriavidus	yeoncheonensis	1
Cytobacillus		1
Daeguia	caeni	4
Delftia		4

Derxia	gummosa	1
Diaphorobacter	caeni	1
Diaphorobacter	nitroreducens	1
Dickeya	chrysanthemi	1
Dokdonella	koreensis	1
Dryocola	clanedunensis	1
Dyella	flagellata	1
Elizabethkingia		1877
Elizabethkingia	anophelis	31972
Elizabethkingia	argenteiflava	11
Elizabethkingia	bruuniana	3
Elizabethkingia	meningoseptica	81
Elizabethkingia	miricola	8
Elizabethkingia	occulta	17
Elizabethkingia	ursingii	168
Empedobacter		1
Empedobacter	brevis	1
Empedobacter	falsenii	17
Empedobacter	tilapiae	4
Ensifer	adhaerens	1
Enterobacter		310
Enterobacter	asburiae	138
Enterobacter	cancerogenus	1
Enterobacter	chengduensis	3
Enterobacter	chuandaensis	38
Enterobacter	cloacae	9
Enterobacter	cloacae complex	196
Enterobacter	hormaechei	1
Enterobacter	huaxiensis	10
Enterobacter	kobei	3
Enterobacter	ludwigii	3
Enterobacter	mori	10
Enterobacter	oligotrophicus	14
Enterobacter	quasihormaechei	2
Enterobacter	quasirogerkampii	12
Enterobacter	solis	7
Enterobacter	wuhouensis	11
Enterococcus		57
Enterococcus	alcedinis	3
Enterococcus	aquimarinus	3
Enterococcus	asini	1

Enterococcus	canintestini	1
Enterococcus	casseliflavus	3
Enterococcus	cecorum	1
Enterococcus	durans	1
Enterococcus	faecalis	125
Enterococcus	faecium	9
Enterococcus	gallinarum	9
Enterococcus	haemoperoxidus	1
Enterococcus	innesii	14
Enterococcus	larvae	1
Enterococcus	pseudoavium	1
Enterococcus	saccharolyticus	1
Enterococcus	saigonensis	1
Enterococcus	thailandicus	1
Eoetvoesiella	caeni	2
Epilithonimonas		4
Epilithonimonas	caeni	1
Epilithonimonas	hungarica	1
Epilithonimonas	tenax	1
Erwinia	amylovora	1
Erwinia	billingiae	1
Erwinia	piriflorinigrans	1
Erwinia	rhapontici	1
Escherichia	albertii	1
Faecalibacter	rhinopithecii	1
Falsochrobactrum	ovis	3
Falsochrobactrum	shanghaiense	3
Ferrimonas	marina	1
Flavisolibacter	ginsengisoli	1
Franconibacter	helveticus	1
Frateuria	aurantia	2
Gaiella	occulta	3
Gandjariella	thermophila	1
Giesbergeria		3
Glutamicibacter		1
Glutamicibacter	protophormiae	1
Gottfriedia	acidiceleris	1
Gottfriedia	luciferensis	1
Govania	unica	1
Halalkalibacterium (ex Joshi et al. 2022)	Halalkalibacterium halodurans	1
Halopseudomonas	phragmitis	1

Halopseudomonas	sabulinigri	1
Halopseudomonas	salina	1
Huaxiibacter	chinensis	1
Hydrogenophaga	flava	3
Ideonella	dechloratans	1
Intestinirhabdus	alba	2
Kaistella		1
Kaistella	anthropi	2
Kaistella	chaponensis	5
Kaistia	algarum	1
Klebsiella		15
Klebsiella	aerogenes	1
Klebsiella	grimontii	5
Klebsiella	huaxiensis	1
Klebsiella	oxytoca	4
Klebsiella	pasteurii	5
Klebsiella	pneumoniae	8
Klebsiella	quasipneumoniae	1
Klebsiella	quasivariicola	2
Klebsiella	variicola	1
Kluyvera		2
Kluyvera	cryocrescens	1
Kosakonia		7
Kosakonia	sacchari	14
Kurthia		1
Kurthia	gibsonii	1
Labilithrix	luteola	1
Labrys		1
Laceyella		1
Lactococcus		2
Lactococcus	formosensis	1
Lactococcus	garvieae	2
Leclercia	adecarboxylata	3
Leclercia	pneumoniae	1
Leclercia	tamurae	6
Leifsonia	aquatica	1
Lelliottia		3
Lelliottia	aquatilis	1
Lelliottia	nimipressuralis	3
Leucobacter		48
Leucobacter	alluvii	1

Leucobacter	chironomi	2
Leucobacter	chromiireducens	91
Leucobacter	humi	130
Leucobacter	iarius	28
Leucobacter	komagatae	7
Leucobacter	luti	14
Leucobacter	massiliensis	2
Leucobacter	muris	1
Leucobacter	solis	1
Leucothrix		1
Limnobaculum	xujianqingii	1
Listeria	innocua	1
Listeria	welshimeri	1
Loigolactobacillus		1
Lonsdalea		2
Lonsdalea	quercina	2
Luteimonas		1
Luteimonas	[Pseudomonas] boreopolis	4
Luteimonas	abyssi	1
Luteimonas	chenhongjianii	3
Lysinibacillus		1344
Lysinibacillus	alkalisoli	2
Lysinibacillus	antri	2
Lysinibacillus	boronitolerans	1023
Lysinibacillus	capsici	3
Lysinibacillus	cavernae	3
Lysinibacillus	contaminans	14
Lysinibacillus	fusiformis	93
Lysinibacillus	halotolerans	1
Lysinibacillus	louembei	1
Lysinibacillus	macroides	142
Lysinibacillus	mangiferihumi	2
Lysinibacillus	odysseyi	656
Lysinibacillus	pakistanensis	13
Lysinibacillus	parviboronicapiens	8
Lysinibacillus	sphaericus	222
Lysinibacillus	tabacifolii	1
Lysinibacillus	telephonicus	3
Lysinibacillus	varians	11
Lysinibacillus	xylanilyticus	7176
Lysinibacillus	yapensis	3

Lysobacter		6
Lysobacter	dokdonensis	1
Lysobacter	oculi	1
Lysobacter	ruipuenis	1
Lysobacter	silvisoli	22
Lysobacter	solis	1
Lysobacter	solisilvae	2
Lysobacter	spongiicola	1
Lysobacter	tolerans	2
Macromonas	bipunctata	2
Malikia	granosa	2
Mammaliococcus	sciuri	1
Mangrovibacillus	cuniculi	2
Mariluticola	halotolerans	1
Marinomonas	aquimarina	1
Marteella		1
Marteella	caricis	1
Mesorhizobium	thiogangeticum	2
Mesorhizobium	tianshanense	3
Mesorhizobium	xinjiangense	1
Metalysinibacillus		2
Metasolibacillus	fluoroglycofenilyticus	3
Metasolibacillus	meyeri	4
Methylobacterium		11
Methylobacterium	radiotolerans	25
Methylobacterium	tardum	2
Methylobacterium		1
Methylobacterium	aminovorans	2
Methylobacterium	rhodesianum	2
Microbacterium		118
Microbacterium	aerolatum	2
Microbacterium	album	1
Microbacterium	aquimaris	2
Microbacterium	arabinogalactanolyticum	6
Microbacterium	arthrosphaerae	5
Microbacterium	azadirachtae	6
Microbacterium	bovistercoris	48
Microbacterium	caowuchunii	27
Microbacterium	enclense	3
Microbacterium	foliorum	4
Microbacterium	gilvum	1

Microbacterium	ginsengiterrae	7
Microbacterium	gorillae	1
Microbacterium	hatanonis	1
Microbacterium	hibisci	4
Microbacterium	hydrocarbonoxydans	1
Microbacterium	hydrothermale	1
Microbacterium	imperiale	1
Microbacterium	jejuense	1
Microbacterium	keratanolyticum	3
Microbacterium	kyunghense	1
Microbacterium	lacticum	2
Microbacterium	lacusdiani	1
Microbacterium	luteolum	1
Microbacterium	marinilacus	2
Microbacterium	mitrae	19
Microbacterium	murale	1
Microbacterium	natoriense	11
Microbacterium	neimengense	1
Microbacterium	oleivorans	2
Microbacterium	oxydans	3
Microbacterium	paraoxydans	63
Microbacterium	petrolearium	5
Microbacterium	profundi	1
Microbacterium	pseudoresistens	6
Microbacterium	radiodurans	1
Microbacterium	resistens	19
Microbacterium	saccharophilum	1
Microbacterium	saperdae	1
Microbacterium	sediminicola	1
Microbacterium	sediminis	1
Microbacterium	stercoris	2
Microbacterium	sulfonylureivorans	1
Microbacterium	telephonicum	3
Microbacterium	terrae	1
Microbacterium	testaceum	11
Microbacterium	thalassium	1
Microbacterium	timonense	1
Microbacterium	xylanilyticum	1
Microbacterium	zeae	2
Mixta	gaviniae	1
Mycetocola	zhujimingii	1

Mycolicibacterium	cosmeticum	1
Mycolicibacterium	fortuitum	1
Mycoplana	ramosa	23
Neobacillus	fumarioli	1
Niabella		1
Nitrateductor		1
Nitrateductor	alexandrii	1
Nitrateductor	lucknowense	1
Nitrospira	japonica	1
Notoacmeibacter	ruber	1
Noviherbaspirillum	galbum	1
Oceanobacillus	indicireducens	1
Oligella	urethralis	2
Orrella	dioscoreae	4
Oryzicola	mucosus	1
Ottowia		4
Ottowia	oryzae	10
Paenalcaligenes	hermetiae	2
Paenibacillus		4
Paenibacillus	alvei	1
Paenibacillus	chibensis	1
Paenibacillus	chungangensis	1
Paenibacillus	jamilae	1
Paenibacillus	lutimineralis	8
Paenibacillus	medicaginis	1
Paenibacillus	mucilaginosus	1
Paenibacillus	paeoniae	1
Paenibacillus	pinisoli	7
Paenibacillus	susongensis	5
Paenibacillus	validus	2
Paenibacillus	wulumuqiensis	1
Paenochrobactrum		5
Paenochrobactrum	glaciei	6
Pantoea		1
Pantoea	agglomerans	4
Pantoea	agglomerans group	4
Pantoea	allii	1
Paracidovorax	anthurii	1
Paralcaligenes	ginsengisoli	5
Paramesrhizobium	deserti	18
Parapusillimonas	granuli	1

Pectobacterium		2
Pectobacterium	aroidearum	1
Pectobacterium	betavascolorum	1
Pectobacterium	brasiliense	1
Pectobacterium	carotovorum	2
Pectobacterium	zantedeschiae	2
Pelistega	suis	1
Peptococcus	simiae	1
Peribacillus	faecalis	1
Peribacillus	tepidiphilus	4
Phyllobacterium	leguminum	1
Phytobacter	massiliensis	2
Pigmentiphaga		3
Pigmentiphaga	solis	3
Pilimelia	terevasa	1
Piscinibacter		1
Planococcus	citreus	1
Planococcus	donghaensis	2
Plesiomonas	shigelloides	1
Pluralibacter	gergoviae	3
Pollutimonas		3
Pollutimonas	bauzanensis	3
Pollutimonas	thiosulfatoxidans	1
Pradoshia	eiseniae	4
Pseudescherichia	vulneris	2
Pseudochrobactrum		880
Pseudochrobactrum	algeriensis	7
Pseudochrobactrum	asaccharolyticum	3102
Pseudochrobactrum	kiredjaniae	12
Pseudochrobactrum	lubricantis	14
Pseudochrobactrum	saccharolyticum	17
Pseudoduganella	armeniaca	1
Pseudogulbenkiania	subflava	1
Pseudolabrys	taiwanensis	33
Pseudomarimonas	arenosa	1
Pseudomonas		551
Pseudomonas	aeruginosa	2336
Pseudomonas	aeruginosa group	2354
Pseudomonas	alcaligenes	7
Pseudomonas	alloputida	1
Pseudomonas	anguilliseptica	1

<i>Pseudomonas</i>	<i>boanensis</i>	2
<i>Pseudomonas</i>	<i>campi</i>	1
<i>Pseudomonas</i>	<i>ceruminis</i>	1
<i>Pseudomonas</i>	<i>citronellolis</i>	1
<i>Pseudomonas</i>	<i>entomophila</i>	6
<i>Pseudomonas</i>	<i>faucium</i>	1
<i>Pseudomonas</i>	<i>fluvialis</i>	1
<i>Pseudomonas</i>	<i>fulva</i>	1
<i>Pseudomonas</i>	<i>furukawaii</i>	3
<i>Pseudomonas</i>	<i>guangdongensis</i>	1
<i>Pseudomonas</i>	<i>guariconensis</i>	1
<i>Pseudomonas</i>	<i>guezenei</i>	2
<i>Pseudomonas</i>	<i>indica</i>	5
<i>Pseudomonas</i>	<i>insulae</i>	1
<i>Pseudomonas</i>	<i>jinjuensis</i>	1
<i>Pseudomonas</i>	<i>juntendi</i>	1
<i>Pseudomonas</i>	<i>khazarica</i>	4
<i>Pseudomonas</i>	<i>knackmussii</i>	1
<i>Pseudomonas</i>	<i>lalkuanensis</i>	28
<i>Pseudomonas</i>	<i>mangiferae</i>	4
<i>Pseudomonas</i>	<i>mendocina</i>	1
<i>Pseudomonas</i>	<i>monteilii</i>	4
<i>Pseudomonas</i>	<i>mosselii</i>	20
<i>Pseudomonas</i>	<i>nicosulfuronedens</i>	1
<i>Pseudomonas</i>	<i>nitritireducens</i>	3
<i>Pseudomonas</i>	<i>nitroreducens</i>	1
<i>Pseudomonas</i>	<i>nitroreducens/multiresinivorans</i> group	1
<i>Pseudomonas</i>	<i>oleovorans</i>	1
<i>Pseudomonas</i>	<i>oleovorans/pseudoalcaligenes</i> group	4
<i>Pseudomonas</i>	<i>oligotrophica</i>	1
<i>Pseudomonas</i>	<i>panipatensis</i>	1
<i>Pseudomonas</i>	<i>parafulva</i>	1
<i>Pseudomonas</i>	<i>pharmacofabricae</i>	1
<i>Pseudomonas</i>	<i>putida</i> group	28
<i>Pseudomonas</i>	<i>resinovorans</i>	2
<i>Pseudomonas</i>	<i>saliphila</i>	1
<i>Pseudomonas</i>	<i>thermotolerans</i>	1
<i>Pseudomonas</i>	<i>turukhanskensis</i>	4
<i>Pseudomonas</i>	<i>ullengensis</i>	1
<i>Pseudomonas</i>	<i>xionganensis</i>	1
<i>Pseudoxanthomonas</i>		8

Pseudoxanthomonas	beigongshangi	8
Pseudoxanthomonas	dokdonensis	1
Pseudoxanthomonas	icgebensis	4
Pseudoxanthomonas	japonensis	2
Pseudoxanthomonas	putridarboris	1
Pseudoxanthomonas	spadix	1
Pseudoxanthomonas	suwonensis	6
Pseudoxanthomonas	wuyuanensis	1
Psychrobacillus		10
Psychrobacter	proteolyticus	1
Pulveribacter	sum	1
Raoultella		1
Raoultella	planticola	1
Raoultella	terrigena	6
Rhizobium		5
Rhizobium	aethiopicum	2
Rhizobium	alvei	1
Rhizobium	changzhiense	1
Rhizobium	cremeum	1
Rhizobium	mongolense	4
Rhizobium	puerariae	1
Rhizobium	skierniewicense	1
Rhodoferax	koreense	1
Rhodoferax	sediminis	1
Rhodopseudomonas	telluris	1
Riemerella	columbipharyngis	2
Rossellomorea		1
Rubrobacter	marinus	1
Rubrobacter	radiotolerans	1
Saccharedens	versatilis	1
Salmonella	enterica	3
Scandinavium	goeteborgense	3
Serratia		1
Serratia	nematodiphila	2
Serratia	oryzae	1
Sheuella	amnicola	1
Shigella	sonnei	1
Shinella	fusca	1
Silvania	confinis	15
Silvania	hatchlandensis	1
Sinomonas		1

Sinomonas	atrocyanea	4
Sinomonas	halotolerans	2
Sinorhizobium		1
Sodalis	praecaptivus	4
Solibacillus	cecembensis	1
Sphingobacterium		223
Sphingobacterium	athyrii	26
Sphingobacterium	canadense	1
Sphingobacterium	changzhouense	4
Sphingobacterium	cladoniae	2
Sphingobacterium	griseoflavum	2
Sphingobacterium	mucilaginosum	1
Sphingobacterium	multivorum	3
Sphingobacterium	nematocida	2
Sphingobacterium	pakistanense	36
Sphingobacterium	prati	15
Sphingobacterium	psychroaquaticum	1
Sphingobacterium	solii	1
Sphingobacterium	suaedae	1
Sphingobacterium	tabacisoli	23
Sphingobacterium	thalpophilum	208
Sphingobacterium	yamdrokense	106
Sphingobacterium	yanglingense	274
Sphingobacterium	zeae	12
Sporosarcina		1
Sporosarcina	thermotolerans	1
Staphylococcus		1
Stenotrophomonas		1706
Stenotrophomonas	[Pseudomonas] hibiscicola	1225
Stenotrophomonas	acidaminiphila	27
Stenotrophomonas	bentonitica	24
Stenotrophomonas	chelatiphaga	5
Stenotrophomonas	cyclobalanopsidis	111
Stenotrophomonas	daejeonensis	5
Stenotrophomonas	geniculata	516
Stenotrophomonas	humi	46
Stenotrophomonas	koreensis	3
Stenotrophomonas	lactitubi	18
Stenotrophomonas	maltophilia	2437
Stenotrophomonas	maltophilia group	3662
Stenotrophomonas	nematodicola	1

Stenotrophomonas	nitritireducens	173
Stenotrophomonas	pavanii	792
Stenotrophomonas	pictorum	550
Stenotrophomonas	rhizophila	1
Stenotrophomonas	terrae	198
Stenotrophomonas	tumulicola	1
Stutzerimonas	balearica	1
Stutzerimonas	kirkiae	6
Stutzerimonas	kunmingensis	1
Stutzerimonas	nosocomialis	2
Stutzerimonas	stutzeri group	2
Stutzerimonas	stutzeri subgroup	1
Stutzerimonas	tarimensis	1
Stutzerimonas	urumqiensis	1
Syntrophobacter		1
Tatumella	morbioseii	3
Tatumella	punctata	1
Tatumella	terrea	3
Taylorella		1
Thermomonas	brevis	1
Thiofaba	tepidiphila	3
Tianweitalia	sediminis	1
Tolumonas	osonensis	1
Trabulsiella	guamensis	1
Ureibacillus		10
Ureibacillus	defluvii	1
Ureibacillus	manganicus	1
Ureibacillus	massiliensis	1
Ureibacillus	suwonensis	1
Ureibacillus	terrenus	2
Ureibacillus	thermosphaericus	1
Ureibacillus	xyleni	2
Vagococcus		46
Vagococcus	allomyrinae	1
Vagococcus	bubulae	1
Vagococcus	carniphilus	119
Vagococcus	coleopterorum	9
Vagococcus	entomophilus	2
Vagococcus	fessus	9
Vagococcus	fluvialis	871
Vagococcus	humatus	1

Vagococcus	hydrophili	88
Vagococcus	martis	3
Vagococcus	penaei	2
Vagococcus	salmoninarum	3
Vagococcus	teuberi	1
Vagococcus	vulneris	2
Vagococcus	xieshaowenii	2
Vagococcus	zengguangii	2
Verticiella	sediminum	2
Vibrio		2
Vibrio	harveyi group	1
Vibrio	parahaemolyticus	1
Viridibacillus	neidei	1
Wautersiella	enshiensis	1
Weissella	confusa	9
Weissella	muntiaci	1
Weissella	paramesenteroides	2
Xanthomonas		10
Xanthomonas	axonopodis	1
Xanthomonas	cassavae	1
Xanthomonas	citri	1
Xanthomonas	citri group	1
Xanthomonas	populi	2
Xanthomonas	sacchari	2
Xylella	fastidiosa	1
Xylophilus	rhododendri	7
Yersinia	bercovieri	1
Yersinia	canariae	1
Zhihengliuella	somnathii	2
Zwartia	panacis	1

Supplementary 6. Bacterial diversity on enriched Galuga sample based on the abundance of species.

Genus	Species	Abundance2
Achromobacter		116
Achromobacter	aegrifaciens	4
Achromobacter	agilis	5
Achromobacter	animicus	7
Achromobacter	deleyi	6
Achromobacter	denitrificans	20
Achromobacter	insolitus	31
Achromobacter	insuavis	17
Achromobacter	marplatensis	25
Achromobacter	mucicolens	6
Achromobacter	pestifer	4
Achromobacter	piechaudii	2
Achromobacter	pulmonis	23
Achromobacter	spanius	1
Achromobacter	veterisilvae	1
Achromobacter	xylosoxidans	21
Acidovorax		7
Acidovorax	carolinensis	2
Acidovorax	cavernicola	1
Acidovorax	defluvii	4
Acidovorax	delafieldii	1
Acidovorax	facilis	1
Acidovorax	temperans	14
Acinetobacter		625
Acinetobacter	antiviralis	3
Acinetobacter	baumannii	91
Acinetobacter	calcoaceticus	8
Acinetobacter	calcoaceticus/baumannii complex	1257
Acinetobacter	equi	2
Acinetobacter	gandensis	2
Acinetobacter	geminorum	3
Acinetobacter	gernerii	1
Acinetobacter	guerrae	3
Acinetobacter	gyllenbergii	2
Acinetobacter	halotolerans	3
Acinetobacter	ihumii	2
Acinetobacter	johnsonii	2
Acinetobacter	kanungonis	3

Acinetobacter	kookii	1
Acinetobacter	lactucae	30
Acinetobacter	nosocomialis	430
Acinetobacter	oleivorans	1
Acinetobacter	oryzae	5
Acinetobacter	parvus	1
Acinetobacter	pittii	17
Acinetobacter	populi	1
Acinetobacter	proteolyticus	3
Acinetobacter	pseudolwoffii	2
Acinetobacter	radioresistens	3
Acinetobacter	rudis	1
Acinetobacter	seifertii	681
Acinetobacter	septicus	35
Acinetobacter	solii	117
Acinetobacter	tandoii	1
Acinetobacter	tianfuensis	1
Acinetobacter	tjernbergiae	1
Acinetobacter	towneri	1
Acinetobacter	ursingii	8
Acinetobacter	variabilis	1
Advenella		1
Aeromonas		216
Aeromonas	[Haemophilus] piscium	1
Aeromonas	caviae	57
Aeromonas	dhakensis	140
Aeromonas	enteropelogenes	29
Aeromonas	eucrenophila	1
Aeromonas	hydrophila	26
Aeromonas	jandaei	1
Aeromonas	lusitana	3
Aeromonas	media	5
Aeromonas	popoffii	1
Aeromonas	rivipollensis	1
Aeromonas	sanarellii	22
Aeromonas	schubertii	1
Aeromonas	taiwanensis	126
Aeromonas	veronii	1
Afipia		1
Afipia	carboxidovorans	5
Afipia	felis	8

Agrobacterium		1
Agrobacterium	radiobacter	1
Agrobacterium	tumefaciens complex	1
Alcaligenes		11
Alcaligenes	ammonioxydans	7
Alcaligenes	aquatis	11
Alcaligenes	faecalis	80
Alcaligenes	paraecalis	3
Alcaligenes	phenolicus	1
Aliidongia	dinghuensis	1
Alishewanella	jeotgali	2
Alistipes		4
Allochrochium		1
Allopusillimonas	ginsengisoli	1
Allopusillimonas	soli	2
Allorhizobium	borbori	1
Alteraurantiacibacter	aestuarii	1
Aminobacter		23
Aminobacter	anthyllidis	5
Aminobacter	carboxidus	3
Aminobacter	carboxidus group	7
Aminobacter	ciceronei	2
Aminobacter	lissarensis	4
Amnimonas	aquatica	36
Ancylobacter	polymorphus	1
Anseongella	ginsenosidimutans	5
Apibacter	raozihei	1
Aquabacterium	fontiphilum	3
Aquabacterium	parvum	1
Aquamicrobium		20
Aquamicrobium	aerolatum	5
Aquamicrobium	aestuarii	2
Aquamicrobium	ahrensii	7
Aquamicrobium	defluvii	15
Aquamicrobium	segne	5
Aquamicrobium	soli	3
Aquamicrobium	terrae	1
Aquamicrobium	zhengzhouense	3
Aquibium	carbonis	3
Aquibium	oceanicum	1
Aquimarina	latercula	1

Aquisphaera	giovannonii	2
Arenibaculum	pallidiluteum	1
Arenimonas	daechungensis	1
Arsenophonus	nasoniae	1
Arvibacter	aurantiibacter	1
Atlantibacter	hermannii	27
Atlantibacter	subterranea	3
Aurantisolimonas	haloimpatiens	2
Azospirillum		1
Bacillus		5
Bacillus	haynesii	1
Bacillus	licheniformis	7
Bacillus	mojavensis	1
Bacillus	mojavensis subgroup	1
Bacillus	rugosus	1
Bacillus	stercoris	2
Bacillus	subtilis	3
Bacillus	subtilis group	13
Bartonella		3
Bartonella	ancashensis	2
Bartonella	apis	1
Bernardetia	litoralis	1
Blastochloris	tepida	1
Bordetella		24
Bordetella	avium	41
Bordetella	bronchiseptica	3
Bordetella	hinzii	29
Bordetella	holmesii	1
Bordetella	pertussis	1
Bordetella	trematum	200
Bordetella	tumulicola	4
Bosea		45
Bosea	lupini	7
Bosea	massiliensis	12
Bosea	minatitlanensis	12
Bosea	robiniae	62
Bosea	thiooxidans	29
Bosea	vaviloviae	5
Bosea	vestrisii	8
Bradyrhizobium		5
Bradyrhizobium	frederickii	1

Brevibacillus	antibioticus	2
Brevibacillus	composti	3
Brevibacillus	fluminis	4
Brevibacillus	reuszeri	7
Brevundimonas		363
Brevundimonas	aveniformis	2
Brevundimonas	bacteroides	1
Brevundimonas	balnearis	1
Brevundimonas	bullata	5
Brevundimonas	diminuta	1622
Brevundimonas	faecalis	5
Brevundimonas	fluminis	1
Brevundimonas	halotolerans	2
Brevundimonas	huaxiensis	1
Brevundimonas	humi	3
Brevundimonas	intermedia	1
Brevundimonas	lutea	1
Brevundimonas	naejangsanensis	399
Brevundimonas	nasdae	5
Brevundimonas	olei	2572
Brevundimonas	poindexteriae	3
Brevundimonas	staleyii	11
Brevundimonas	subvibrioides	1
Brevundimonas	terrae	9
Brevundimonas	variabilis	5
Brevundimonas	vesicularis	1
Brucella		176
Brucella	[Ochrobactrum] quorumnogens	27
Brucella	[Ochrobactrum] soli	13
Brucella	[Ochrobactrum] teleogrylli	155
Brucella	anthropi	3
Brucella	ciceri	2
Brucella	daejeonensis	3
Brucella	gallinifaecis	23
Brucella	grignonensis	13
Brucella	haematophila	40
Brucella	intermedia	3
Brucella	lupini	6
Brucella	oryzae	6
Brucella	ovis	11
Brucella	pecoris	5

Brucella	pituitosa	2
Brucella	pseudintermedia	10
Brucella	pseudogrignonensis	152
Brucella	rhizosphaerae	3
Brucella	thiophenivorans	6
Brucella	tritici	2
Brucella	vulpis	5
Brumimicrobium		4
Brumimicrobium	aurantiacum	4
Bryobacter	aggregatus	1
Budvicia	aquatica	2
Burkholderia		2
Burkholderia	aenigmatica	1
Burkholderia	anthina	3
Burkholderia	cepacia complex	5
Burkholderia	paludis	1
Buttiauxella		1
Buttiauxella	noackiae	5
Caballeronia		1
Caballeronia	fortuita	1
Caballeronia	grimmiae	1
Caenibius	tardaugens	1
Caenimicrobium	hargitense	2
Caenimonas	solii	1
Candidimonas	nitroreducens	1
Capnocytophaga		1
Capnocytophaga	felis	3
Carboxydotherrmus	pertinax	1
Castellaniella		2
Castellaniella	ginsengisoli	2
Caulobacter		7
Caulobacter	daechungensis	85
Caulobacter	mirabilis	29
Caulobacter	segnis	1
Cedecea	colo	1
Cedecea	lapagei	1
Cellulosimicrobium	aquatile	1
Cellulosimicrobium	funkei	1
Chakrabartia	godavariana	10
Chelativorans	intermedius	1
Chelatococcus	asaccharovorans	3

Chelatococcus	caeni	1
Chishuiella	changwenlii	1
Chitinophaga		2
Chitinophaga	alhagiae	1
Chitinophaga	barathri	1
Chitinophaga	caseinilytica	4
Chitinophaga	deserti	5
Chitinophaga	dinghuensis	2
Chitinophaga	humicola	3
Chitinophaga	oryzae	7
Chitinophaga	pinensis	2
Chitinophaga	polysaccharea	1
Chitinophaga	qingshengii	2
Chitinophaga	rhizosphaerae	4
Chitinophaga	silvatica	1
Chromobacterium	alkanivorans	1
Chryseobacterium		3
Chryseobacterium	cucumeris	1
Chryseobacterium	joostei	1
Chryseobacterium	rhizoplanae	1
Chryseobacterium	taihuense	1
Citricoccus		8
Citrobacter		26
Citrobacter	amalonaticus	3
Citrobacter	bitternis	46
Citrobacter	braakii	3
Citrobacter	europaeus	5
Citrobacter	freundii	1
Citrobacter	freundii complex	23
Citrobacter	gillanii	2
Citrobacter	koseri	2
Citrobacter	murlinae	8
Citrobacter	pasteurii	1
Citrobacter	sedlakii	5
Citrobacter	telavivensis	105
Citrobacter	werkmanii	1
Citrobacter	youngae	3
Cloacibacillus	evryensis	1
Comamonas		14159
Comamonas	antarctica	10
Comamonas	aquatica	3267

Comamonas	aquatilis	159
Comamonas	badia	1
Comamonas	composti	30
Comamonas	denitrificans	1
Comamonas	faecalis	1
Comamonas	fluminis	1411
Comamonas	guangdongensis	182
Comamonas	humi	12
Comamonas	jiangduensis	595
Comamonas	kerstersii	97
Comamonas	koreensis	3
Comamonas	nitrativorans	23
Comamonas	odontotermis	54
Comamonas	phosphati	266
Comamonas	piscis	9
Comamonas	sediminis	36
Comamonas	serinivorans	54
Comamonas	suwonensis	53
Comamonas	terrae	12
Comamonas	terrigena	435
Comamonas	testosteroni	13690
Comamonas	thiooxydans	5240
Comamonas	zonglianii	19
Companilactobacillus	futsaii	1
Compostibacter	hankyongensis	1
Corticibacter	populi	2
Corticimicrobacter	populi	1
Corynebacterium	phoceense	1
Crenalkalicoccus	roseus	1
Croceicoccus	ponticola	1
Cronobacter		1
Cronobacter	malonaticus	1
Cronobacter	muytjensii	4
Cronobacter	sakazakii	4
Cupriavidus		9
Cupriavidus	laharis	3
Cupriavidus	necator	1
Cupriavidus	numazuensis	1
Cupriavidus	oxalaticus	2
Cupriavidus	pampae	1
Curtobacterium		1

Curvibacter	fontanus	2
Daeguia	caeni	13
Daejeonella	oryzae	1
Daejeonella	rubra	13
Delftia		20
Delftia	acidovorans	18
Delftia	lacustris	33
Delftia	litopenaei	67
Delftia	rhizosphaerae	10
Delftia	tsuruhatensis	9
Devosia		34
Devosia	albogilva	1
Devosia	beringensis	1
Devosia	crocina	3
Devosia	faecipullorum	7
Devosia	neptuniae	1
Devosia	psychrophila	1
Devosia	riboflavina	136
Devosia	salina	17
Devosia	sediminis	4
Devosia	solis	1
Diaphorobacter		1
Diaphorobacter	aerolatus	5
Diaphorobacter	caeni	13
Diaphorobacter	oryzae	3
Diaphorobacter	ruginosibacter	18
Duganella		1
Dyadobacter		4
Dyadobacter	alkalitolerans	4
Dyadobacter	endophyticus	2
Dyadobacter	fermentans	4
Dyadobacter	flavus	13
Dyadobacter	ginsengisoli	1
Dyadobacter	jiangsuensis	11
Dyadobacter	sandarakinus	1
Dyadobacter	solis	1
Dyadobacter	terricola	7
Dysgonomonas		2
Dysgonomonas	gadei	6
Dysgonomonas	hofstadii	11
Dysgonomonas	mossii	20

Dysgonomonas	oryzarvi	2
Edaphocola		1
Elizabethkingia		114
Elizabethkingia	anophelis	1055
Elizabethkingia	meningoseptica	21
Elizabethkingia	occulta	3
Elizabethkingia	ursingii	4
Empedobacter	brevis	3
Empedobacter	falsenii	11
Empedobacter	tilapiae	11
Emticicia	agri	1
Emticicia	ginsengisoli	1
Emticicia	solis	15
Enhydrobacter	aerosaccus	3
Ensifer		288
Ensifer	adhaerens	25
Ensifer	sesbaniae	1
Enterobacter		15
Enterobacter	asburiae	5
Enterobacter	chuandaensis	9
Enterobacter	cloacae	13
Enterobacter	cloacae complex	28
Enterobacter	huaxiensis	1
Enterobacter	kobei	1
Enterobacter	mori	1
Enterobacter	oligotrophicus	10
Enterobacter	quasihormaechei	1
Enterobacter	quasirogerkampii	9
Enterobacter	wuhouensis	44
Enterococcus	faecalis	1
Enterococcus	hirae	1
Enterococcus	innesii	1
Enterococcus	villorum	1
Eoetvoesiella	caeni	20
Epilithonimonas	hungarica	1
Epilithonimonas	pallida	2
Epilithonimonas	xixisoli	1
Erwinia	pyrifoliae	1
Erwinia	rhapontici	1
Escherichia	marmotae	1
Extensimonas	perlucida	8

Extensimonas	vulgaris	1
Falsochrobactrum	ovis	2
Falsochrobactrum	shanghaiense	1
Feifania	hominis	1
Fererhizobium	litorale	188
Filimonas	lacunae	1
Flavisolibacter	ginsengiterrae	6
Flavitalea	flava	1
Flavobacterium		2
Flavobacterium	urocaniciphilum	5
Flavobacterium	yonginense	1
Flexibacter	flexilis	1
Fluviicola		49
Fluviicola	hefeinensis	16
Fluviicola	taffensis	9
Formivibrio	citricus	1
Frigoribacterium	salinisoli	1
Fusibacter	tunisiensis	1
Galactobacter	valiniphilus	1
Gemmatimonas	aurantiaca	5
Gemmatimonas	phototrophica	6
Georgfuchsia	toluolica	2
Giesbergeria		5
Haemophilus	[Haemophilus] ducreyi	1
Halopseudomonas	sabulinigri	1
Halpernia	frigidisoli	1
Hephaestia	caeni	1
Herbaspirillum		41
Herbaspirillum	aquaticum	36
Herbaspirillum	camelliae	8
Herbaspirillum	chlorophenolicum	1
Herbaspirillum	frisingense	21
Herbaspirillum	huttiense	18
Herbaspirillum	robiniae	5
Herbaspirillum	rubrisubalbicans	4
Herbaspirillum	seropedicae	6
Hermiimonas		31
Hermiimonas	contaminans	30
Hermiimonas	saxobsidens	14
Hoeflea		1
Hoeflea	alexandrii	7

Huaxiibacter	chinensis	29
Hydrogenophaga		9
Hydrogenophaga	atypica	2
Hydrogenophaga	borbori	9
Hydrogenophaga	caeni	3
Hydrogenophaga	carboriunda	1
Hydrogenophaga	defluvii	8
Hydrogenophaga	electricum	7
Hydrogenophaga	flava	1
Hydrogenophaga	laconesensis	1
Hydrogenophaga	palleronii	7
Hydrogenophaga	soli	1
Hydrogenophaga	temperata	2
Hydrotalea	sandarakina	1
Inhella	inkyongensis	1
Intestinirhabdus	alba	1
Jezberella	montanilacus	3
Jiella	endophytica	1
Kaistia		9
Kaistia	adipata	70
Kaistia	defluvii	5
Kerstesia	gyiorum	4
Klebsiella		55
Klebsiella	aerogenes	17
Klebsiella	africana	7
Klebsiella	electrica	16
Klebsiella	grumontii	1
Klebsiella	oxytoca	1
Klebsiella	pneumoniae	119
Klebsiella	quasipneumoniae	5
Klebsiella	variicola	21
Kluyvera		6
Kluyvera	ascorbata	21
Kluyvera	cryocrescens	4
Kluyvera	georgiana	14
Kluyvera	intermedia	5
Kluyvera	sichuanensis	11
Kordia	periserrulae	1
Kosakonia		7
Kosakonia	oryzae	1
Kosakonia	oryzendophytica	1

Kosakonia	radicincitans	15
Labilithrix	luteola	8
Lacisediminihabitans	changchengi	1
Leadbetterella	byssophila	199
Legionella	fallonii	1
Legionella	lytica	5
Legionella	quateirensis	2
Legionella	rowbothamii	2
Legionella	saoudiensis	3
Legionella	shakespearei	2
Lelliottia	aquatis	2
Leucobacter		116
Leucobacter	albus	17
Leucobacter	aridicollis	13
Leucobacter	celer	3
Leucobacter	chironomi	1
Leucobacter	chromiireducens	314
Leucobacter	chromiiresistens	1
Leucobacter	corticis	2
Leucobacter	denitrificans	501
Leucobacter	exalbidus	12
Leucobacter	holotrichiae	1
Leucobacter	humi	3
Leucobacter	insecticola	1
Leucobacter	komagatae	247
Leucobacter	kyeonggiensis	32
Leucobacter	luti	7
Leucobacter	muris	1
Leucobacter	populi	52
Leucobacter	salsicius	14
Leucobacter	soli	4
Leucobacter	tardus	2
Leucobacter	viscericola	3
Leucobacter	weissii	4
Leucobacter	zeae	67
Leuconostoc	falkenbergense	2
Limnobacter		1
Limnobaculum	xujianqingii	1
Limnohabitans	australis	7
Lonsdalea	quercina	1
Luteimonas		5

Luteimonas	abyssi	1
Luteimonas	deserti	2
Luteimonas	fraxinea	5
Luteimonas	lutimaris	1
Luteimonas	mephitis	2
Luteithermobacter	gelatinilyticus	2
Lutibaculum	baratangense	1
Lysobacter		46
Lysobacter	cavernae	7
Lysobacter	concretionis	1
Lysobacter	hankyongensis	1
Lysobacter	korlensis	14
Lysobacter	niastensis	26
Lysobacter	olei	2
Lysobacter	ruipuensis	1
Lysobacter	silvisoli	22
Lysobacter	tabacisoli	14
Macromonas	bipunctata	1
Marispirillum	indicum	1
Martelella		4
Martelella	suaedae	1
Massilia		1
Massilia	norwichensis	1
Mesorhizobium		164
Mesorhizobium	abyssinicae	2
Mesorhizobium	albisiae	106
Mesorhizobium	comanense	1
Mesorhizobium	composti	2
Mesorhizobium	hungaricum	27
Mesorhizobium	opportunatum	23
Mesorhizobium	shonense	16
Mesorhizobium	silamurunense	5
Mesorhizobium	solii	15
Mesorhizobium	tamadayense	59
Mesorhizobium	terrae	7
Mesorhizobium	thiogangeticum	24
Mesorhizobium	tianshanense	1
Mesorhizobium	waimense	1
Mesorhizobium	xinjiangense	5
Mesorhizobium	zhangyense	109
Methylibium	rhizosphaerae	1

Methylobacillus		68
Methylobacillus	arboreus	6
Methylobacillus	flagellatus	128
Methylobacillus	glycogenes	40
Methylobacillus	methanolivorans	731
Methylobacillus	rhizosphaerae	27
Methylobrevi	pamukkalensis	1
Methylomonas	rubra	1
Methyloversatilis		3
Methyloversatilis	discipulorum	8
Methyloversatilis	universalis	5
Microbacterium		37
Microbacterium	algeriense	1
Microbacterium	arabinogalactanolyticum	1
Microbacterium	arthrosphaerae	1
Microbacterium	aurantiacum	17
Microbacterium	barkeri	1
Microbacterium	binotii	7
Microbacterium	caowuchunii	5
Microbacterium	ginsengiterrae	3
Microbacterium	hydrocarbonoxydans	1
Microbacterium	insulae	1
Microbacterium	keratanolyticum	14
Microbacterium	luteolum	2
Microbacterium	marinilacus	1
Microbacterium	mitrae	1
Microbacterium	natoriense	4
Microbacterium	neimengense	1
Microbacterium	oxydans	1
Microbacterium	paraoxydans	13
Microbacterium	phyllosphaerae	3
Microbacterium	sulfonylureivorans	1
Microbacterium	telephonicum	1
Microbacterium	testaceum	1
Micropepsis	pineolensis	1
Mixta		1
Mixta	intestinalis	1
Moellerella	wisconsensis	1
Morganella	morganii	76
Morganella	psychrotolerans	3
Mucibacter	solii	1

Mucilaginibacter		1
Mucilaginibacter	achroorhodeus	4
Mucilaginibacter	conchicola	1
Mucilaginibacter	ginkgonis	1
Mucilaginibacter	oryzae	1
Mucilaginibacter	puniceus	1
Mucilaginibacter	soli	1
Mucilaginibacter	terrenus	2
Mucilaginibacter	yixingensis	1
Mycetocola	reblochoni	1
Mycetocola	zhujimingii	1
Mycoplana		12
Mycoplana	dimorpha	9
Mycoplana	ramosa	23
Myroides		3
Myroides	fluvii	27
Myroides	gitamensis	3
Myroides	guanonis	4
Myroides	marinus	31
Myroides	odoratimimus	2
Myroides	odoratus	91
Myroides	pelagicus	3
Myroides	phaeus	7
Myroides	profundi	7
Neolewinella	antarctica	1
Neoroseomonas		2
Neoroseomonas	eburnea	1
Neoroseomonas	lacus	6
Neoroseomonas	oryzicola	5
Neoroseomonas	soli	1
Neoroseomonas	terrae	7
Niabella	aquatica	1
Nibrella	viscosa	1
Nitratireductor		2
Nitratireductor	aestuarii	1
Nitratireductor	aquimarinus	4
Nitratireductor	arenosus	36
Nitratireductor	basaltis	1
Nitratireductor	lucknowense	24
Nitratireductor	pacificus	4
Nitratireductor	soli	1

Nitrobacter		3
Nitrobacter	alkalicus	1
Nitrobacter	hamburgensis	6
Nitrobacter	winogradskyi	6
Nitrosomonas	stercoris	1
Nonlabens	xylanidelens	1
Noviherbaspirillum	galbum	1
Novosphingobium		24
Novosphingobium	aerophilum	11
Novosphingobium	arvoryzae	1
Novosphingobium	chloroacetimidivorans	2
Novosphingobium	clariflavum	22
Novosphingobium	guangzhouense	20
Novosphingobium	lindaniclasticum	6
Novosphingobium	lubricantis	5
Novosphingobium	naphthae	1
Novosphingobium	naphthalenivorans	11
Novosphingobium	olei	1
Novosphingobium	panipatense	4
Novosphingobium	pentaromativorans	1
Novosphingobium	profundi	7
Nubsella	zeaxanthinifaciens	40
Oligella	urethralis	1
Oricola		2
Orrella	dioscoreae	3
Oryzicola	mucosus	126
Ottowia		25
Ottowia	caeni	1
Ottowia	konkukae	3
Ottowia	pentelensis	5
Ottowia	testudinis	4
Ottowia	thiooxydans	3
Oxalicibacterium	faecigallinarum	2
Oxalicibacterium	flavum	2
Paenacidovorax	caeni	10
Paenacidovorax	monticola	1
Paenibacillus		1
Paenibacillus	albicerus	2
Paenibacillus	ginsengarvi	1
Paenibacillus	pasadenensis	32
Paenochrobactrum		377

Paenochrobactrum	glaciei	463
Paenochrobactrum	pullorum	5
Paludibaculum	fermentans	1
Paludisphaera	borealis	13
Paludisphaera	solii	145
Pandoraea		176
Pandoraea	anapnoica	8
Pandoraea	anhela	1
Pandoraea	aquatica	21
Pandoraea	capi	1
Pandoraea	captiosa	26
Pandoraea	eparura	2
Pandoraea	faecigallinarum	1
Pandoraea	fibrosis	1
Pandoraea	iniqua	1
Pandoraea	morbifera	1
Pandoraea	nosoerga	12
Pandoraea	oxalativorans	10
Pandoraea	pnomenusa	3
Pandoraea	sputorum	64
Pandoraea	vervacti	22
Pannonibacter	indicus	1
Pantoea	agglomerans	1
Pantoea	agglomerans group	1
Pantoea	cypripedii	1
Paraburkholderia	metalliresistens	1
Paracandidimonas	caeni	2
Paracandidimonas	solii	14
Paracidovorax		17
Paracidovorax	anthurii	1
Paracidovorax	avenae	3
Paracidovorax	wautersii	5
Paraclostridium		1
Paradevosia	shaoguanensis	97
Paraflavisolibacter	caeni	1
Paramesorhizobium	deserti	6
Parapedobacter		9
Parapedobacter	indicus	1
Parapedobacter	solii	5
Pararhizobium	arenae	1
Pararhizobium	capsulatum	2

Parasediminibacterium	paludis	2
Parasphingopyxis		1
Parasphingopyxis	marina	2
Parvibaculum		1
Parvicella	tangerina	1
Pectobacterium		2
Pectobacterium	aroidearum	1
Pectobacterium	polonicum	1
Pedobacter		121
Pedobacter	alluvionis	10
Pedobacter	antarcticus	39
Pedobacter	bambusae	36
Pedobacter	boryungensis	3
Pedobacter	chinensis	1
Pedobacter	chitinilyticus	110
Pedobacter	cryotolerans	4
Pedobacter	edaphicus	2
Pedobacter	endophyticus	2
Pedobacter	foliorum	1
Pedobacter	frigiditerrae	3
Pedobacter	glacialis	1
Pedobacter	helvus	8
Pedobacter	heparinus	113
Pedobacter	hiemivivus	1
Pedobacter	humi	3
Pedobacter	indicus	3
Pedobacter	insulae	3
Pedobacter	jejuensis	3
Pedobacter	jeongneungensis	63
Pedobacter	koreensis	2
Pedobacter	lithocola	1
Pedobacter	lycopersici	2
Pedobacter	namyangjuensis	1
Pedobacter	nanyangensis	203
Pedobacter	nototheniae	20
Pedobacter	panacis	1
Pedobacter	planticolens	2
Pedobacter	polaris	4
Pedobacter	pollutisoli	40
Pedobacter	psychroterrae	2
Pedobacter	rhizosphaerae	1

Pedobacter	sandarakinus	1
Pedobacter	schmidteae	29
Pedobacter	seoulensis	84
Pedobacter	solii	1
Pedobacter	soyangensis	1
Pedobacter	trunci	5
Pedobacter	ureilyticus	63
Pedobacter	xinjiangensis	2
Pedobacter	xixiisoli	3
Pedobacter	yulinensis	31
Pedobacter	zeae	1
Pedomicrobium		1
Pedomicrobium	manganicum	1
Pelagibacterium	lacus	1
Pelistega	europaea	1
Pelistega	suis	2
Peredibacter	starrii	17
Peristeroidobacter	solii	2
Perlalentimonas	gracilis	1
Phaeocystidibacter		1
Phenylobacterium		10
Phenylobacterium	conjunctum	1
Phenylobacterium	deserti	2
Phenylobacterium	glaciei	1
Phenylobacterium	haematophilum	26
Phenylobacterium	immobile	1
Phenylobacterium	kunshanense	4
Phenylobacterium	mobile	2
Phenylobacterium	panacis	6
Phenylobacterium	parvum	1
Phenylobacterium	solii	1
Photorhabdus	khanii	1
Phreatobacter		2
Phreatobacter	cathodiphilus	4
Phreatobacter	oligotrophus	2
Phreatobacter	stygius	4
Phyllobacterium		3
Phyllobacterium	phragmitis	5
Phyllobacterium	trifolii	1
Phytobacter		6
Phytobacter	diazotrophicus	6

Pigmentiphaga		1
Pigmentiphaga	daeguensis	4
Pigmentiphaga	kullae	1
Piscinibacter	gummiphilus	1
Plantibacter		1
Pleomorphomonas		1
Pluralibacter	gergoviae	3
Polaribacter	gangjinensis	5
Pollutimonas		2
Pollutimonas	thiosulfatoxidans	1
Porphyromonas	gingivalis	1
Povalibacter	uvarum	21
Pragia	fontium	1
Prescottella	equi	1
Propionivibrio	dicarboxylicus	1
Protaetibacter	larvae	2
Proteiniclasticum	ruminis	1
Providencia		73
Providencia	alcalifaciens	130
Providencia	burhodogranariea	2
Providencia	huaxiensis	14
Providencia	rettgeri	4
Providencia	rustigianii	30
Providencia	sneebia	2
Providencia	stuartii	7
Providencia	vermicola	3
Pseudacidovorax	intermedius	4
Pseudaminobacter	arsenicus	1
Pseudaminobacter	defluvii	2
Pseudaminobacter	manganicus	14
Pseudaminobacter	salicylatoxidans	1
Pseudaminobacter	solii	1
Pseudenterobacter	timonensis	2
Pseudescherichia	vulneris	2
Pseudochelatococcus	contaminans	13
Pseudochelatococcus	lubricantis	12
Pseudochrobactrum		3071
Pseudochrobactrum	algeriensis	111
Pseudochrobactrum	asaccharolyticum	7166
Pseudochrobactrum	kiredjaniae	100
Pseudochrobactrum	lubricantis	137

Pseudochrobactrum	saccharolyticum	608
Pseudocitrobacter	faecalis	4
Pseudocitrobacter	vendiensis	2
Pseudoduganella	armeniaca	1
Pseudoduganella	ginsengisoli	1
Pseudoflavitalea	solii	1
Pseudolabrys	taiwanensis	1
Pseudomarimonas	arenosa	1
Pseudomethylobacillus	aquaticus	8
Pseudomonas		245
Pseudomonas	aeruginosa group	2
Pseudomonas	alcaligenes	1
Pseudomonas	azotoformans	1
Pseudomonas	baltica	1
Pseudomonas	bharatica	1
Pseudomonas	brassicacearum	1
Pseudomonas	ceruminis	1
Pseudomonas	chlororaphis group	1
Pseudomonas	entomophila	32
Pseudomonas	faucium	1
Pseudomonas	fluorescens group	3
Pseudomonas	guangdongensis	1
Pseudomonas	guariconensis	21
Pseudomonas	hunanensis	1
Pseudomonas	hutmensis	2
Pseudomonas	japonica	5
Pseudomonas	juntendi	1
Pseudomonas	lalkuanensis	2
Pseudomonas	laurentiana	2
Pseudomonas	luteola	1
Pseudomonas	monteillii	6
Pseudomonas	mosselii	31
Pseudomonas	nicosulfuronedens	1
Pseudomonas	nitroreducens	1
Pseudomonas	nitroreducens/multiresinivorans group	1
Pseudomonas	oryzicola	1
Pseudomonas	oryzihabitans	1
Pseudomonas	parafulva	1
Pseudomonas	plecoglossicida	7
Pseudomonas	putida group	48
Pseudomonas	sediminis	1

Pseudomonas	sessilinigenes	1
Pseudomonas	sichuanensis	40
Pseudomonas	syringae	1
Pseudomonas	syringae group	1
Pseudomonas	syringae group genomsp. 1	1
Pseudomonas	taiwanensis	1
Pseudomonas	tolaasii	2
Pseudomonas	urethralis	1
Pseudomonas	wayambapalatensis	22
Pseudopedobacter	beijingensis	148
Pseudopedobacter	saltans	3
Pseudorhodoferax		2
Pseudorhodoferax	aquiterrae	2
Pseudorhodoferax	caeni	8
Pseudorhodoferax	solii	6
Pseudorhodoplanes	sinuspersici	6
Pseudoroseomonas	ludipueritiae	1
Pseudoroseomonas	suffusca	1
Pseudoxanthomonas		2
Pseudoxanthomonas	beigongshangi	1
Pseudoxanthomonas	icgebensis	2
Pseudoxanthomonas	japonensis	3
Pseudoxanthomonas	kalamensis	1
Pseudoxanthomonas	sangjuensis	1
Pseudoxanthomonas	suwonensis	4
Pukyongia	salina	1
Pulveribacter	suum	3
Pusillimonas	caeni	1
Pusillimonas	minor	16
Rahnella	inuitata	1
Raineyia	orbicola	1
Ralstonia		10
Ralstonia	mannitolilytica	1
Ralstonia	pickettii	2
Ralstonia	solanacearum species complex	5
Ralstonia	syzygii	5
Ramlibacter		3
Ramlibacter	aquaticus	1
Ramlibacter	henchirensis	1
Ramlibacter	pinisoli	1
Ramlibacter	rhizophilus	4

Raoultella	ornithinolytica	2
Raoultella	planticola	2
Ravibacter	arvi	179
Reyranella		2
Reyranella	aquatis	4
Reyranella	graminifolii	1
Reyranella	massiliensis	60
Reyranella	soli	6
Rhizobium		6
Rhizobium	aethiopicum	1
Rhizobium	cauense	1
Rhizobium	changzhense	1
Rhizobium	cremeum	3
Rhizobium	flavescens	2
Rhizobium	giardinii	20
Rhizobium	glycinendophyticum	1
Rhizomicrobium	electricum	1
Rhizorhabdus	argentea	2
Rhizorhabdus	dicambivorans	1
Rhizorhabdus	phycosphaerae	2
Rhizorhabdus	wittichii	2
Rhizorhapis	suberifaciens	1
Rhodoferrax	antarcticus	35
Rhodoferrax	aquaticus	3
Rhodoferrax	saidenbachensis	1
Rhodopseudomonas		1
Rhodopseudomonas	boonkerdii	2
Rhodopseudomonas	palustris	2
Rhodopseudomonas	parapalustris	1
Rhodopseudomonas	pseudopalustris	1
Rhodopseudomonas	telluris	1
Rhodovarius		2
Rhodovarius	crocodyli	31
Rhodovarius	lipocyclicus	2
Rhodovulum		1
Rikenella	microfusus	1
Robiginitalea	myxolifaciens	1
Roseateles	chitosanitabidus	1
Roseateles	puraquae	1
Roseibium	aestuarii	1
Roseibium	album	2

Roseibium	suaedae	4
Roseobacter	denitrificans	1
Roseomonas	rubea	1
Roseospira		1
Roseovarius	faecimaris	1
Rubrivivax	benzoatilyticus	1
Rubrivivax	gelatinosus	2
Runella	zeae	1
Salinirepens	amamiensis	96
Salmonella	bongori	1
Salmonella	enterica	1
Sediminibacterium		3
Sediminibacterium	ginsengisoli	2
Sediminibacterium	lactis	8
Segnochromobacterium	spirostomi	1
Serratia		6
Serratia	marcescens	1
Serratia	nematodiphila	3
Shigella	dysenteriae	1
Shigella	sonnei	1
Shimia	marina	1
Shimwellia	pseudoproteus	1
Shinella		5
Shinella	curvata	23
Shinella	granuli	2
Shinella	oryzae	3
Shinella	zoogloeoides	19
Siccibacter	colletis	5
Silvania	confinis	4
Simplicispira		1
Simplicispira	lacusdiani	1
Simplicispira	metamorphia	12
Simplicispira	piscis	1
Simplicispira	solis	1
Sinorhizobium		4
Sinorhizobium	fredii group	4
Sinorhizobium	garamanticum	1
Sinorhizobium	kostiense	2
Sinorhizobium	kummerowiae	1
Sinorhizobium	numidicum	34
Sinorhizobium	xinjiangense	4

Siphonobacter	aquaeclearae	2
Solitalea	koreensis	1
Sphaerotilus		1
Sphingobacterium		273
Sphingobacterium	alimentarium	28
Sphingobacterium	athyrii	7
Sphingobacterium	caeni	87
Sphingobacterium	changzhouense	1
Sphingobacterium	cibi	3
Sphingobacterium	cladoniae	70
Sphingobacterium	composti Ten et al. 2007 non Yoo et al. 2007	4
Sphingobacterium	composti Yoo et al. 2007 non Ten et al. 2007	1
Sphingobacterium	corticibacter	1
Sphingobacterium	daejeonense	1
Sphingobacterium	detergens	31
Sphingobacterium	faecale	23
Sphingobacterium	faecium	2
Sphingobacterium	ginsenosidimutans	117
Sphingobacterium	hotanense	1
Sphingobacterium	humi	1
Sphingobacterium	kyonggiense	34
Sphingobacterium	litopenaei	92
Sphingobacterium	lumbrici	2
Sphingobacterium	mucilaginosum	1
Sphingobacterium	multivorum	743
Sphingobacterium	nematocida	16
Sphingobacterium	pakistanense	17
Sphingobacterium	populi	1
Sphingobacterium	praediipecoris	2
Sphingobacterium	prati	6
Sphingobacterium	psychroaquaticum	5
Sphingobacterium	puteale	11
Sphingobacterium	rhinopithecii	12
Sphingobacterium	siyangense	395
Sphingobacterium	solani	1
Sphingobacterium	spiritivorum	2
Sphingobacterium	suaedae	3
Sphingobacterium	tabacisoli	17
Sphingobacterium	thalpophilum	1
Sphingobacterium	wenxiniae	1
Sphingobacterium	yamdrokense	56

Sphingobacterium	yanglingense	52
Sphingobacterium	zeae	4
Sphingobium		3
Sphingobium	wenxiniae	1
Sphingobium	xanthum	1
Sphingobium	yanoikuyae	7
Sphingomicrobium		1
Sphingomonas		10
Sphingomonas	colocasiae	37
Sphingomonas	fennica	2
Sphingomonas	jeddahensis	1
Sphingomonas	koreensis	18
Sphingomonas	laterariae	12
Sphingomonas	leidyi	1
Sphingomonas	naasensis	4
Sphingomonas	naphthae	2
Sphingomonas	palmae	1
Sphingomonas	polyaromaticivorans	1
Sphingomonas	roseiflava	1
Sphingomonas	turrisvirgatae	4
Sphingomonas	vulcanisoli	1
Sphingopyxis		95
Sphingopyxis	bauzanensis	15
Sphingopyxis	chilensis	1
Sphingopyxis	flava	8
Sphingopyxis	fribergensis	1
Sphingopyxis	ginsengisoli	70
Sphingopyxis	granuli	1
Sphingopyxis	italica	32
Sphingopyxis	lindanitolerans	8
Sphingopyxis	macrogoltabida	1
Sphingopyxis	microcystis	22
Sphingopyxis	nepalensis	121
Sphingopyxis	panaciterrae	4
Sphingopyxis	taejonensis	2
Sphingopyxis	terrae	247
Sphingopyxis	witflariensis	6
Sphingorhabdus	arenilitoris	21
Sphingorhabdus	contaminans	1
Sphingorhabdus	pulchriflava	3
Sphingorhabdus	soli	1

Stappia		1
Stappia	albiluteola	1
Stenotrophomonas		473
Stenotrophomonas	[Pseudomonas] hibiscicola	341
Stenotrophomonas	acidaminiphila	355
Stenotrophomonas	bentonitica	7
Stenotrophomonas	chelatiphaga	1
Stenotrophomonas	cyclobalanopsidis	29
Stenotrophomonas	geniculata	147
Stenotrophomonas	ginsengisoli	33
Stenotrophomonas	humi	152
Stenotrophomonas	lactitubi	1
Stenotrophomonas	maltophilia	346
Stenotrophomonas	maltophilia group	687
Stenotrophomonas	nitritireducens	104
Stenotrophomonas	pavanii	184
Stenotrophomonas	pictorum	91
Stenotrophomonas	terrae	714
Stenotrophomonas	tumulicola	1
Steroidobacter	agaridevorans	4
Steroidobacter	denitrificans	1
Steroidobacter	flavus	2
Taibaiella		6
Taibaiella	chishuiensis	1
Taibaiella	helva	21
Taibaiella	koreensis	1
Taibaiella	lutea	5
Taibaiella	smilacinae	2
Taibaiella	solii	6
Taibaiella	yonginensis	12
Taishania	pollutisoli	442
Tatumella	morbirosei	1
Tautonia		2
Tepidicella	baoligensis	1
Tepidimonas		1
Terrimicrobium	sacchariphilum	35
Terrimonas		1
Terrimonas	arctica	1
Thalassocola	ureilytica	1
Thalassospira		1
Thermaurantiacus	tibetensis	1

Thermomonas		1
Thermomonas	aquatica	5
Thermomonas	beijingensis	1
Thermomonas	brevis	8
Thermomonas	fusca	1
Thermomonas	koreensis	4
Thiofaba	tepidiphila	1
Tianweitalia	populi	1
Tianweitalia	sediminis	3
Tibeticola	sediminis	1
Urbifossiella	limnaea	1
Vagococcus	fluvialis	1
Variovorax		1
Variovorax	defluvii	7
Variovorax	dokdonensis	4
Variovorax	ginsengisoli	1
Verticella	sediminum	20
Vineibacter	terrae	2
Wandonia	halotis	28
Wautersiella	enshiensis	1
Weissella	bombi	1
Weissella	paramesenteroides	5
Williamsia	soli	7
Xanthomonas		1
Xanthomonas	cassavae	1
Xanthomonas	citri	2
Xanthomonas	citri group	2
Xaviernesmea	rhizosphaerae	2
Xenophilus		2
Xenophilus	aerolatus	4
Xenophilus	arseniciresistens	21
Xenophilus	azovorans	1
Xylophilus	ampelinus	6
Xylophilus	rhododendri	5
Yokenella	regensburgei	6
Youhaiella	tibetensis	7
Zwartia		2
Zwartia	panacis	2