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A novel thermostable alkaline histamine oxidase from *Glutamicibacter* sp. N1A3101, induced by histamine and its analogue betahistine

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Table S1 alignment of HOD DNA sequences from different bacterial genres. The sequences used for primer design were highlighted in yellow.

Bacterial genus	HOD gene sequence
<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	GGGCAGCTGCCCGTGGTGGACGAGGAGTTGCCCTGGTCGAGGAGGTGCT
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	GGGCAGCTGCCCGTGGTGGACGAGGAGTTGCCCTGGTCGAGGAGGTGCT
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GGCGAGTTGCCCGTGTAGAAAGAGGAATTTGAGGTGTAGAGGCACTTCT
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	GGCGAGTTGCCCGTGTAGAAAGAGGAATTTGAGGTGTAGAGGCACTTCT
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	GGCGAGTTGCCCGTGTAGAAAGAGGAATTTGAGGTGTAGAGGCACTTCT
<i>Arthrobacter sp. EPRS71</i> Accession no: LNUV01000006.1	GGCGAGTTGCCCGTGTAGAAAGAGGAATTTGAGGTGTAGAGGCACTTCT
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GGCGAGTTGCCCGTGTAGAAAGAGGAATTTGAGGTGTAGAGGCACTTCT
<i>Brevibacterium linens</i> Accession no: CP014869.1	GGCGAGTTTCCCGTCATGGAAGAGGAGTTGGAAGTCGTCGAAGAGGTCCT
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	GGCGAGTTTCCCGTCATGGAAGAGGAGTTGGAAGTCGTCGAAGAGGTCCT
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	GGTGAAGTCCCGTGGTTCGAGGAGGAATTCGCGCGCGTCGAAGACCTCCT
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	GGTGAAGTCCCGTGGTTCGAGGAGGAATTCGCGCGCGTCGAAGACCTCCT
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	GGTGAAGTCCCGTGGTTCGAGGAGGAATTCGCGCGCGTCGAAGACCTCCT
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GGTGAAGTCCCGTGGTTCGAGGAGGAATTCGCGCGCGTCGAAGACCTCCT
<i>Kocuria indica</i> Accession no: CP035504.1	GGGGAGCTGCCCGTGGTTCGAGGAGGAGTTGAGATGGTGGAGCAGATCCT
<i>Kocuria flava</i> Accession no: CP013254.1	GGGGAGCTGCCCGTGGTTCGAGGAGGAGTTGAGATGGTGGAGCAGATCCT
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	GGTCAGCCGAGTACCTGTTTCGAGGAGTACGAGCGCGCCGAGGCCATCGC
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GGTCAGCCGAGTACCTGTTTCGAGGAGTACGAGCGCGCCGAGGCCATCGC
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GGTCAGCCGAGTACCTGTTTCGAGGAGTACGAGCGCGCCGAGGCCATCGC
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GGTCAGCCGAGTACCTGTTTCGAGGAGTACGAGCGCGCCGAGGCCATCGC
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GGTCAGCCGAGTACCTGTTTCGAGGAGTACGAGCGCGCCGAGGCCATCGC
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GGCCAACCTCCCGTCTCGACGAGGAGTTGCCCTGGTGGAGGAGGTCCT
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GGCGAATTGCCCGTGGTGGAGGAGGAATTTGAGGTGTGGAGACCTCCT
<i>Pseudarthrobacter sp.</i> Accession no: CP041198.1	GGAGAGCTGCCCGTCTCGAGGAGGAGTTGAGGTAGTGAATCCCTCCT
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GGAGAGCTGCCCGTCTCGAGGAGGAGTTGAGGTAGTGAATCCCTCCT
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GGTCAGATGCCCGTCTGGACGAGGAGTTGGAATCGTCGAGCAGGTACT
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GGTCAGATGCCCGTCTGGACGAGGAGTTGGAATCGTCGAGCAGGTACT
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GGTCAGATGCCCGTCTGGACGAGGAGTTGGAATCGTCGAGCAGGTACT
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	GGTCAGATGCCCGTCTGGACGAGGAGTTGGAATCGTCGAGCAGGTACT
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	GGTCAGATGCCCGTCTGGACGAGGAGTTGGAATCGTCGAGCAGGTACT
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GGCCAGCCCGGATCTGTTTCGAGGAGTACGACCGAGCGCCGAGCTGGT
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GGCGAGCTGCCCGTGGTTCGAGGAGGAGTTGAGGCGGTCGAGGAGATCCT
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GGGCAACTCCCATCTGGAGGAGGAGTTGATCTGATCGAGGAGATCGT
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GGGCAACTCCCATCTGGAGGAGGAGTTGATCTGATCGAGGAGATCGT
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GGGCAACTCCCATCTGGAGGAGGAGTTGATCTGATCGAGGAGATCGT
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GGGCAACTCCCATCTGGAGGAGGAGTTGATCTGATCGAGGAGATCGT
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	CGCCAAGGACGAGCGGTGGCTGGCGGCGCTGGCCGCCCGACCTGGACG
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	CGCCAAGGACGAGCGGTGGCTGGCGGCGCTGGCCGCCCGACCTGGACG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	AGCAACTCACCCGAATGGCTAGAGGCTCTGGCCGCCCGAACCTGGCGG
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	AGCAACTCACCCGAATGGCTAGAGGCTCTGGCCGCCCGAACCTGGCGG
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	AGCAACTCACCCGAATGGCTAGAGGCTCTGGCCGCCCGAACCTGGCGG
<i>Arthrobacter sp. EPRS71</i> Accession no: LNUV01000006.1	AGCAACTCACCCGAATGGCTAGAGGCTCTGGCCGCCCGAACCTGGCGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	AGCAACTCACCCGAATGGCTAGAGGCTCTGGCCGCCCGAACCTGGCGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	CGCCACGGATCCGAGTGGCTGGCCAGCTGGAGAGCGCGGACTGTCCG
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	CGCCACGGATCCGAGTGGCTGGCCAGCTGGAGAGCGCGGACTGTCCG
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	CACAACGGATGCCCGTGGCGGGCGCACTCGCAGCCCGCGGCTCGACG
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	CACAACGGATGCCCGTGGCGGGCGCACTCGCAGCCCGCGGCTCGACG
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	CACAACGGATGCCCGTGGCGGGCGCACTCGCAGCCCGCGGCTCGACG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	CACAACGGATGCCCGTGGCGGGCGCACTCGCAGCCCGCGGCTCGACG
<i>Kocuria indica</i> Accession no: CP035504.1	CTCCACGGACGAGCGTGGCTGGCGGCGTGCAGAAGCGCAACCTGCCCG

<i>Kocuria flava</i> Accession no: CP013254.1	CTCCACGGACGAGCGCTGGCTGGCCGCGTGCAGAAGCGCAACCTGCCCG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	CAAGGCCTCCCCGAATGGCGTGCCGCGATGGAGCGCCGCGGACTCGCCG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	CAAGGCCTCCCCGAATGGCGTGCCGCGATGGAGCGCCGCGGACTCGCCG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CAAGGCCTCCCCGAATGGCGTGCCGCGATGGAGCGCCGCGGACTCGCCG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CAAGGCCTCCCCGAATGGCGTGCCGCGATGGAGCGCCGCGGACTCGCCG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CAAGGCCTCCCCGAATGGCGTGCCGCGATGGAGCGCCGCGGACTCGCCG
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GTCCACCGACGAGGACTGGCTGGCCGCCCTGCGCCGCCGCGACCTGGACC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	TGCAACCGACGAGCGGTGGCTCGCCGCACTCGCAGCCCGGGACCTGGACC
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	GGCCACCGACGAACGGTGGCTGAAGGCACTCGCGGACCCGGGGACTCGACC
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GGCCACCGACGAACGGTGGCTGAAGGCACTCGCGGACCCGGGGACTCGACC
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GGCCGCCGACGAACGCTGGCTCGCCGCGCTCGCCGCCCGCGGACTCGACC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GGCCGCCGACGAACGCTGGCTCGCCGCGCTCGCCGCCCGCGGACTCGACC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GGCCGCCGACGAACGCTGGCTCGCCGCGCTCGCCGCCCGCGGACTCGACC
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	GGCCGCCGACGAACGCTGGCTCGCCGCGCTCGCCGCCCGCGGACTCGACC
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	GGCCGCCGACGAACGCTGGCTCGCCGCGCTCGCCGCCCGCGGACTCGACC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CAAGCCGACCCCGCTGGCAGGCGCGATGCGCCGACGTGGCGCTGAGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GGGGCGGATGCCCGCTGGCTCGAGGCCCTCGCAGCAGCGCCCTCGACC
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GGCCGCCGACGAGGATGGCGGGCGCTCGCCGCCGCGGCTCGACC
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GGCCGCCGACGAGGATGGCGGGCGCTCGCCGCCGCGGCTCGACC
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GGCCGCCGACGAGGATGGCGGGCGCTCGCCGCCGCGGCTCGACC
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GGCCGCCGACGAGGATGGCGGGCGCTCGCCGCCGCGGCTCGACC
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	TGGCGAAGGTGCGGGTTC-----GCGCCGCTGTCCGCGGGGTGTTCGAC
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	TGGCGAAGGTGCGGGTTC-----GCGCCGCTGTCCGCGGGGTGTTCGAC
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	TGGAAAAGGTGCGGGTTC-----GCGCCGCTGTCCGAGGCGTCTTTGAA
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	TGGAAAAGGTGCGGGTTC-----GCGCCGCTGTCCGAGGCGTCTTTGAA
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	TGGAAAAGGTGCGGGTTC-----GCGCCGCTGTCCGAGGCGTCTTTGAA
<i>Arthrobacter sp. EpRS71</i> Accession no: LNUV01000006.1	TGGAAAAGGTGCGGGTTC-----GCGCCGCTGTCCGAGGCGTCTTTGAA
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	TGGAAAAGGTGCGGGTTC-----GCGCCGCTGTCCGAGGCGTCTTTGAA
<i>Brevibacterium linens</i> Accession no: CP014869.1	TCGAGGAGGTGCGGGTTC-----GCACCCTGTCCGCCGCTGTCTTCGAG
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	TCGAGGAGGTGCGGGTTC-----GCACCCTGTCCGCCGCTGTCTTCGAG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	TGGCCACCGTGCAGGTC-----GCTCCCTCTCCGCGGGGTATTTCGAA
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	TGGCCACCGTGCAGGTC-----GCTCCCTCTCCGCGGGGTATTTCGAA
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	TGGCCACCGTGCAGGTC-----GCTCCCTCTCCGCGGGGTATTTCGAA
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	TGGCCACCGTGCAGGTC-----GCTCCCTCTCCGCGGGGTATTTCGAA
<i>Kocuria indica</i> Accession no: CP035504.1	TGGAGAAGGTGCGGGTTC-----GCGCCGCTGTCCGCGGGGTGTTCGAG
<i>Kocuria flava</i> Accession no: CP013254.1	TGGAGAAGGTGCGGGTTC-----GCGCCGCTGTCCGCGGGGTGTTCGAG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	AGCACATCGATCTCGGTTCTGCGGGCCACTCGCCCCGGATACACCGGC
<i>Microbacterium oxydans</i> Accession no:CP031422.1	AGCACATCGATCTCGGTTCTGCGGGCCACTCGCCCCGGATACACCGGC
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	AGCACATCGATCTCGGTTCTGCGGGCCACTCGCCCCGGATACACCGGC
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	AGCACATCGATCTCGGTTCTGCGGGCCACTCGCCCCGGATACACCGGC
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	AGCACATCGATCTCGGTTCTGCGGGCCACTCGCCCCGGATACACCGGC
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	CCTCCACCGTCCGGGTTC-----GCCCGCTGTCCGCGGGGTCTACGAC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	TGAAAAATGTTCCGGTTC-----GCTCCGTTGTCCGCGGGAGTTTTGAG
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	TCAAGAAAGTCCGCGTC-----GCGCCGCTCTCCGCGGGGTGTTCGAA
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	TCAAGAAAGTCCGCGTC-----GCGCCGCTCTCCGCGGGGTGTTCGAA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	TCGCGACGTCGCGGTTC-----GCTCCCTCTCCGCGGGGTGTTCGAC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	TCGCGACGTCGCGGTTC-----GCTCCCTCTCCGCGGGGTGTTCGAC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	TCGCGACGTCGCGGTTC-----GCTCCCTCTCCGCGGGGTGTTCGAC
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	TCGCGACGTCGCGGTTC-----GCTCCCTCTCCGCGGGGTGTTCGAC
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	TCGCGACGTCGCGGTTC-----GCTCCCTCTCCGCGGGGTGTTCGAC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	ACTGGTTC---GCTGACCTTCATCGGCCCGTGTCCCCCGGTTTCTTCGA-
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	CGGCGACGGTCCGCGTC-----GCCCGCTCTCCGCGGGGTGTTCGAG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GGGCGCTGGTGCAGGTC-----GCCCGCTCTCCGCGGGGTGTACGCG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GGGCGCTGGTGCAGGTC-----GCCCGCTCTCCGCGGGGTGTACGCG

<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GGGCGCTGGTGCGGGTC-----GCCCGCTCTCCGCGGGGGTGTACGCG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GGGCGCTGGTGCGGGTC-----GCCCGCTCTCCGCGGGGGTGTACGCG
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	-----TACCCGAGG--AGACCGGGCGGCGCATCTCCGCGGCCTGGCG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	-----TACCCGAGG--AGACCGGGCGGCGCATCTCCGCGGCCTGGCG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	-----TACCTGAGG--AAAAGGCCGCGTATCTCCGTGGGCTGGCG
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	-----TACCTGAGG--AAAAGGCCGCGTATCTCCGTGGGCTGGCG
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	-----TACCTGAGG--AAAAGGCCGCGTATCTCCGTGGGCTGGCG
<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV01000006.1	-----TACCTGAGG--AAAAGGCCGCGTATCTCCGTGGGCTGGCG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	-----TACCTGAGG--AAAAGGCCGCGTATCTCCGTGGGCTGGCG
<i>Brevibacterium linens</i> Accession no: CP014869.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGCGGGCTGGCG
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGCGGGCTGGCG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGCGGGCTGGCG
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGCGGGCTGGCG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGCGGGCTGGCG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGCGGGCTGGCG
<i>Kocuria indica</i> Accession no: CP035504.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGTGGGCTCGCG
<i>Kocuria flava</i> Accession no: CP013254.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTGCGTGGGCTCGCG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	-----CGCGCCGACG--AGGTGGGGCGACGCGTATCCGCTCGCTCAG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	-----CGCGCCGACG--AGGTGGGGCGACGCGTATCCGCTCGCTCAG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	-----CGCGCCGACG--AGGTGGGGCGACGCGTATCCGCTCGCTCAG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	-----CGCGCCGACG--AGGTGGGGCGACGCGTATCCGCTCGCTCAG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	-----CGCGCCGACG--AGGTGGGGCGACGCGTATCCGCTCGCTCAG
<i>Nocardiosis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	GACGAGTACCCGAGG--AACCGGCCGCGCATCTGCGCGGACTCGCC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTCCGCGGGCTCGCG
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	-----TACCCGAGG--AAAAGGGCGCGGATCTCCGCGGGCTGGCG
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	-----TACCCGAGG--AAAAGGGCGCGGATCTCCGCGGGCTGGCG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTCCGCGGGCTCGCG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTCCGCGGGCTCGCG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTCCGCGGGCTCGCG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTCCGCGGGCTCGCG
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	-----TACCCGAGG--AGAAGGGACGGCGGATCTCCGCGGGCTCGCG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	-----CGAGCCGCTGCTGCGCGAGCGG--GCGTGTGCGGGCGTTCGAG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	-----TACCCGAGG--AAAAGGGCGCAGGATCTGCGCGGCCTGGCC
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GACGAGTACCCGAGG--AGGCCGACGCGGTGTCTGCGCGGCCTCGCC
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GACGAGTACCCGAGG--AGGCCGACGCGGTGTCTGCGCGGCCTCGCC
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GACGAGTACCCGAGG--AGGCCGACGCGGTGTCTGCGCGGCCTCGCC
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GACGAGTACCCGAGG--AGGCCGACGCGGTGTCTGCGCGGCCTCGCC
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	TTCTGTCAGGAACACCTGGGGACACGCGTGGGCGCACCCGGTTCGACGG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	TTCTGTCAGGAACACCTGGGGACACGCGTGGGCGCACCCGGTTCGACGG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	TTCTACCAAGACTTCCCGAGGACAGCGCATGGGCGCATCTGTGGATGG
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	TTCTACCAAGACTTCCCGAGGACAGCGCATGGGCGCATCTGTGGATGG
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	TTCTACCAAGACTTCCCGAGGACAGCGCATGGGCGCATCTGTGGATGG
<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV01000006.1	TTCTACCAAGACTTCCCGAGGACAGCGCATGGGCGCATCTGTGGATGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	TTCTACCAAGACTTCCCGAGGACAGCGCATGGGCGCATCTGTGGATGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	TTCCACCAGCAGCATGAGTTCGGACTCGGCGTGGGACACCCGATCGACGG
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	TTCCACCAGCAGCATGAGTTCGGACTCGGCGTGGGACACCCGATCGACGG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	TTCTGTCAGAACTTCCCGAGGACAGCGCTGGGCCCACCCGATCGACGG
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	TTCTGTCAGAACTTCCCGAGGACAGCGCTGGGCCCACCCGATCGACGG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	TTCTGTCAGAACTTCCCGAGGACAGCGCTGGGCCCACCCGATCGACGG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	TTCTGTCAGAACTTCCCGAGGACAGCGCTGGGCCCACCCGATCGACGG
<i>Kocuria indica</i> Accession no: CP035504.1	TTCTGTCAGAGCAGGAGGAGACTCGGCGTGGGCGCACCCGATCGACGG
<i>Kocuria flava</i> Accession no: CP013254.1	TTCTGTCAGAGCAGGAGGAGACTCGGCGTGGGCGCACCCGATCGACGG

<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Nocardiopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	TTTGTGCAGGACTTCCCGAGGACAGCGCTGGGCCATCCCGTCGATGG
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	TTCTCCGCTACGACGAGCTCGACTCGCCCTGGGCGCACCCGGTCGAGGG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	TTCCGCCAGGACCACCCGAAGGACCATGCCTGGGCCACCCGATCGACGG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	TTCCGCCAGGACCACCCGAAGGACCATGCCTGGGCCACCCGATCGACGG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	TTCCGCCAGGACCACCCGAAGGACCATGCCTGGGCCACCCGATCGACGG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	TTCCGCCAGGACCACCCGAAGGACCATGCCTGGGCCACCCGATCGACGG
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	TTCCGCCAGGACCACCCGAAGGACCATGCCTGGGCCACCCGATCGACGG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	TTCTGCAGGACCACCTGGACGACAGCCCGTGGGCACACCCGGTCGAGGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	TTCTGCAGGACCACCTGGACGACAGCCCGTGGGCACACCCGGTCGAGGG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	TTCTGCAGGACCACCTGGACGACAGCCCGTGGGCACACCCGGTCGAGGG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	TTCTGCAGGACCACCTGGACGACAGCCCGTGGGCACACCCGGTCGAGGG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	TTCTGCAGGACCACCTGGACGACAGCCCGTGGGCACACCCGGTCGAGGG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	TTCTGCAGGACCACCTGGACGACAGCCCGTGGGCACACCCGGTCGAGGG
	** * * ** * ** *
<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	GCTCGTCGGGTTCTGTCGACGTCCTGGCCCGGAGGTCACCCGGTGATCG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	GCTCGTCGGGTTCTGTCGACGTCCTGGCCCGGAGGTCACCCGGTGATCG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GCTGGTTGCCTATGTGGATGTCCACCAACAAGAGCGTCGATGCGGTTCTGG
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	GCTGGTTGCCTATGTGGATGTCCACCAACAAGAGCGTCGATGCGGTTCTGG
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	GCTGGTTGCCTATGTGGATGTCCACCAACAAGAGCGTCGATGCGGTTCTGG
<i>Arthrobacter sp. EpRS71</i> Accession no: LNUV01000006.1	GCTGGTTGCCTATGTGGATGTCCACCAACAAGAGCGTCGATGCGGTTCTGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GCTGGTTGCCTATGTGGATGTCCACCAACAAGAGCGTCGATGCGGTTCTGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	ACTCGTCGCCTACGTTGACGTACGAACGAGGCCGTCGATCAGATTCTCG
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	ACTCGTCGCCTACGTTGACGTACGAACGAGGCCGTCGATCAGATTCTCG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	CCTCGTCGCCTACGTCGACATCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPERS01000047.1	CCTCGTCGCCTACGTCGACATCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	CCTCGTCGCCTACGTCGACATCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Cryobacterium roopkundense</i> Accession no: JPDF01000060.1	CCTCGTCGCCTACGTCGACATCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Kocuria indica</i> Accession no: CP035504.1	GCTCGTGGCCTACGTGGACGTGACCAACCAGGCCGTGGACCAGGTGCTGG
<i>Kocuria flava</i> Accession no: CP013254.1	GCTCGTGGCCTACGTGGACGTGACCAACCAGGCCGTGGACCAGGTGCTGG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	ACTCATCGTGCACATCGACCTCACGGCGGACAGCGTGATCCGCGTCGAGG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	ACTCATCGTGCACATCGACCTCACGGCGGACAGCGTGATCCGCGTCGAGG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	ACTCATCGTGCACATCGACCTCACGGCGGACAGCGTGATCCGCGTCGAGG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	ACTCATCGTGCACATCGACCTCACGGCGGACAGCGTGATCCGCGTCGAGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	ACTCATCGTGCACATCGACCTCACGGCGGACAGCGTGATCCGCGTCGAGG
<i>Nocardiopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	ACTCGTGGCCTACGTGACGTCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GCTGGTGGCCTACGTGGACGTGGTCAACAAGGAAGTCACCCAGGTGATCG
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	CCTGGTGGCCTACGTGGACGTGGTTCGCCAGGAGGTACCCAGGTGATCG
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	CCTGGTGGCCTACGTGGACGTGGTTCGCCAGGAGGTACCCAGGTGATCG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GCTCGTCGGATTTCGTCGACGTCATGAACCGGACCGTCACCGACGTTCTCG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GCTCGTCGGATTTCGTCGACGTCATGAACCGGACCGTCACCGACGTTCTCG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GCTCGTCGGATTTCGTCGACGTCATGAACCGGACCGTCACCGACGTTCTCG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	GCTCGTCGGATTTCGTCGACGTCATGAACCGGACCGTCACCGACGTTCTCG
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	GCTCGTCGGATTTCGTCGACGTCATGAACCGGACCGTCACCGACGTTCTCG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	TCTGCTCTGCGAGGTGGACCTGATCGCCAACGAGGTGCTGGCGGTGACCG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GCTCGTGGCCTACGTGACGTCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	TCTCGTCTACGTGACGTCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	TCTCGTCTACGTGACGTCGTCGCGAAGACCGTGGACCAGGTGCTCG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	TCTCGTCTACGTGACGTCGTCGCGAAGACCGTGGACCAGGTGCTCG

<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	TCTCGTCTACGTCGACGTGCTGAACAGGACCGTCGACCGGATCATCG * * * * * * * * *
<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	ACCTCGGCCCGGTGCCGATCCCGCCGAACCGGGCAACTTCGACGACCCC
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	ACCTCGGCCCGGTGCCGATCCCGCCGAACCGGGCAACTTCGACGACCCC
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	ATTTTGGGTGTGGTCCCGGTCCCGCCGAGCATGGCAATTACACGGATCCT
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	ATTTTGGGTGTGGTCCCGGTCCCGCCGAGCATGGCAATTACACGGATCCT
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	ATTTTGGGTGTGGTCCCGGTCCCGCCGAGCATGGCAATTACACGGATCCT
<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV01000006.1	ATTTTGGGTGTGGTCCCGGTCCCGCCGAGCATGGCAATTACACGGATCCT
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	ATTTTGGGTGTGGTCCCGGTCCCGCCGAGCATGGCAATTACACGGATCCT
<i>Brevibacterium linens</i> Accession no: CP014869.1	ACCTCGAAAACGTTCCCGGTGCCGTCCGAGCACGGGAACCTACACGGATCCG
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	ACCTCGAAAACGTTCCCGGTGCCGTCCGAGCACGGGAACCTACACGGATCCG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	ACTTCGGCGTCTCCATCCCGCCGAACACGGCAACTTCACCGATCCC
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	ACTTCGGCGTCTCCATCCCGCCGAACACGGCAACTTCACCGATCCC
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	ACTTCGGCGTCTCCATCCCGCCGAACACGGCAACTTCACCGATCCC
<i>Cryobacterium roopkundense</i> Accession no: JPDF01000060.1	ACTTCGGCGTCTCCATCCCGCCGAACACGGCAACTTCACCGATCCC
<i>Kocuria indica</i> Accession no: CP035504.1	ACCTGGAGGTGGTCCCGGTCCCGCAGGAGCACGGCAACTACACGGATCCC
<i>Kocuria flava</i> Accession no: CP013254.1	ACCTGGAGGTGGTCCCGGTCCCGCAGGAGCACGGCAACTACACGGATCCC
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	ACATCGCGACGTCCCGGTACCCGCGGCCATGGCAACTACTATCCCGAG
<i>Microbacterium oxydans</i> Accession no: CP031422.1	ACATCGCGACGTCCCGGTACCCGCGGCCATGGCAACTACTATCCCGAG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYA01000039.1	ACATCGCGACGTCCCGGTACCCGCGGCCATGGCAACTACTATCCCGAG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	ACATCGCGACGTCCCGGTACCCGCGGCCATGGCAACTACTATCCCGAG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	ACATCGCGACGTCCCGGTACCCGCGGCCATGGCAACTACTATCCCGAG
<i>Nocardioopsis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	ACTTCGGGCGCGTCCCGATCCCGACCGAGTCCCGCAACTACCCCGATCCC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	ATCTGGGCGTCATGCCAATCCCGGTGAGCACGGAACTACACGGATCCT
<i>Pseudarthrobacter</i> sp. Accession no: CP041198.1	ACCTCGGTGCCATGCCATCCCGCCGAGCACGGCAACTACACAGACCCT
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	ACCTCGGTGCCATGCCATCCCGCCGAGCACGGCAACTACACAGACCCT
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	ACCTCGGCGCGTCCCGGTCCCGGAGGAATCGGGCAACTTCGACGACCTC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	ACCTCGGCGCGTCCCGGTCCCGGAGGAATCGGGCAACTTCGACGACCTC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	ACCTCGGCGCGTCCCGGTCCCGGAGGAATCGGGCAACTTCGACGACCTC
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	ACCTCGGCGCGTCCCGGTCCCGGAGGAATCGGGCAACTTCGACGACCTC
<i>Rhodococcus</i> sp. SC4 SC4 Accession no: LSBM01000283.1	ACCTCGGCGCGTCCCGGTCCCGGAGGAATCGGGCAACTTCGACGACCTC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	ACGAGGCGACGTCCCGACCCGTTGGAGCACGGCAACTACACGGCGA-
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	ACTTCGGCCCGGTCCCGGTGCCCGGAGCACGGCAACTTCACCGATCCG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	ACCTCGACCCGGTGCCGCTGCCCGACGTGTCCGTCGACTTCGGCGACCCG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	ACCTCGACCCGGTGCCGCTGCCCGACGTGTCCGTCGACTTCGGCGACCCG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	ACCTCGACCCGGTGCCGCTGCCCGACGTGTCCGTCGACTTCGGCGACCCG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	ACCTCGACCCGGTGCCGCTGCCCGACGTGTCCGTCGACTTCGGCGACCCG * * * * *
<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	GCCGTCACCGGTCCACTTCGGACCTCCAGAAGCCACTGGAGATCAGCA
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	GCCGTCACCGGTCCACTTCGGACCTCCAGAAGCCACTGGAGATCAGCA
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GAATGACGGGCCCTACCGGACAACCCAGAAGCCATCAACATCACCCA
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	GAATGACGGGCCCTACCGGACAACCCAGAAGCCATCAACATCACCCA
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	GAATGACGGGCCCTACCGGACAACCCAGAAGCCATCAACATCACCCA
<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV01000006.1	GAATGACGGGCCCTACCGGACAACCCAGAAGCCATCAACATCACCCA
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GAATGACGGGCCCTACCGGACAACCCAGAAGCCATCAACATCACCCA
<i>Brevibacterium linens</i> Accession no: CP014869.1	GAGCTGACCGGACCCGTGCCAACCACACAGAAGCCGATCTCGATCAGCA
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	GAGCTGACCGGACCCGTGCCAACCACACAGAAGCCGATCTCGATCAGCA
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	GCCCTCACCGGCCCGTGGCGAAACGCTCAAGCCGATCAGTATCACCCA
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	GCCCTCACCGGCCCGTGGCGAAACGCTCAAGCCGATCAGTATCACCCA
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	GCCCTCACCGGCCCGTGGCGAAACGCTCAAGCCGATCAGTATCACCCA
<i>Cryobacterium roopkundense</i> Accession no: JPDF01000060.1	GCCCTCACCGGCCCGTGGCGAAACGCTCAAGCCGATCAGTATCACCCA
<i>Kocuria indica</i> Accession no: CP035504.1	GAGCTCACCGGACCCACGCGACCCACCCAGAAGCCGATCGAGATCACCCA
<i>Kocuria flava</i> Accession no: CP013254.1	GAGCTCACCGGACCCACGCGACCCACCCAGAAGCCGATCGAGATCACCCA
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	GTGACGGGCG--GAGGCGCGACGACCTCAAGCCGATCGAGATCGTCCA

<i>Microbacterium oxydans</i> Accession no:CP031422.1	GTGCAGGGC---GAGGCGCGCACGACCCTCAAGCCGATCGAGATCGTCCA
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GTGCAGGGC---GAGGCGCGCACGACCCTCAAGCCGATCGAGATCGTCCA
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GTGCAGGGC---GAGGCGCGCACGACCCTCAAGCCGATCGAGATCGTCCA
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GTGCAGGGC---GAGGCGCGCACGACCCTCAAGCCGATCGAGATCGTCCA
<i>Nocardioopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GAGGTGAGCGGGCCCGCGCACACCAGAGGCCATCGAGATCACTCA
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GAACGTACGGGCCCCCTCCGGGAAACGCAGAAGCCCATCAGCATCACGCA
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	GAACGTACGGGACCCATCCGCGAAACCCAGAAGCCCATCAGCATTACCCA
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GAACGTACGGGACCCATCCGCGAAACCCAGAAGCCCATCAGCATTACCCA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GCCGTCACGGCCCCCTGCGCACACCAGAGCCCATCGAGATCACCCA
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GCCGTCACGGCCCCCTGCGCACACCAGAGCCCATCGAGATCACCCA
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GCCGTCACGGCCCCCTGCGCACACCAGAGCCCATCGAGATCACCCA
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	GCCGTCACGGCCCCCTGCGCACACCAGAGCCCATCGAGATCACCCA
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	GCCGTCACGGCCCCCTGCGCACACCAGAGCCCATCGAGATCACCCA
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	-----G---CCGGCCCGCACCGCTCAAGCCGATCCTCATCACCCA
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GAGGTGACGGGCGCGTCCGCGCACACCAGAGCCCATCGAGATCACCCA
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GCGGTCACGG-CCGC--CGCACCAGCCAGAAGCCCATCGAGATCACCCA
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GCGGTCACGG-CCGC--CGCACCAGCCAGAAGCCCATCGAGATCACCCA
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GCGGTCACGG-CCGC--CGCACCAGCCAGAAGCCCATCGAGATCACCCA
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GCGGTCACGG-CCGC--CGCACCAGCCAGAAGCCCATCGAGATCACCCA
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	ACCGGACGGTCCCAGCTTACCCTC---GACGGGCACCTGCTGCGGTGGG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	ACCGGACGGTCCCAGCTTACCCTC---GACGGGCACCTGCTGCGGTGGG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	ACCCGAAGGTCTTAGCTTCTCCGTGACCGCCGGCAATCACATTGAATGGG
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	ACCCGAAGGTCTTAGCTTCTCCGTGACCGCCGGCAATCACATTGAATGGG
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	ACCCGAAGGTCTTAGCTTCTCCGTGACCGCCGGCAATCACATTGAATGGG
<i>Arthrobacter sp. Eprs71</i> Accession no: LNUV01000006.1	ACCCGAAGGTCTTAGCTTCTCCGTGACCGCCGGCAATCACATTGAATGGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	ACCCGAAGGTCTTAGCTTCTCCGTGACCGCCGGCAATCACATTGAATGGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	GCCGGATGGCCGAGCTTACCCTGACCGGAGGGCAACCACATCGAATGGG
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	GCCGGATGGCCGAGCTTACCCTGACCGGAGGGCAACCACATCGAATGGG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	GCCCGATGGCGTGAGCTTTACCCTGACCGGCGGCAACCACATCGAGTGGG
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	GCCCGATGGCGTGAGCTTTACCCTGACCGGCGGCAACCACATCGAGTGGG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	GCCCGATGGCGTGAGCTTTACCCTGACCGGCGGCAACCACATCGAGTGGG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GCCCGATGGCGTGAGCTTTACCCTGACCGGCGGCAACCACATCGAGTGGG
<i>Kocuria indica</i> Accession no: CP035504.1	GCCCGAGGGGCCGTCTTACCCTGACCGGCGGCAACCAGTGGAGTGGG
<i>Kocuria flava</i> Accession no: CP013254.1	GCCCGAGGGGCCGTCTTACCCTGACCGGCGGCAACCAGTGGAGTGGG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	GCCCGAGGGGCCGAGCTTCTCCGTG---ACCGGATCGCTCGTTCGAGTGGG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GCCCGAGGGGCCGAGCTTCTCCGTG---ACCGGATCGCTCGTTCGAGTGGG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GCCCGAGGGGCCGAGCTTCTCCGTG---ACCGGATCGCTCGTTCGAGTGGG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GCCCGAGGGGCCGAGCTTCTCCGTG---ACCGGATCGCTCGTTCGAGTGGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GCCCGAGGGGCCGAGCTTCTCCGTG---ACCGGATCGCTCGTTCGAGTGGG
<i>Nocardioopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GCCCGAGGGGCCGAGCTTACCCTC---GACGGCAACGTGCTGAGCTGGG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GCCGGAAGGCCAGCTTACCCTGACCGGCGGCAACCAGTGGAGTGGG
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	GCCGGAAGGTCCCAGCTTCACTGTACCCGGCGGCAACCAGTGGAGTGGG
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GCCGGAAGGTCCCAGCTTCACTGTACCCGGCGGCAACCAGTGGAGTGGG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GCCCGAGGGACCCAGCTTCTCGTC---GACGGCAACCGCTCGACTGGG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GCCCGAGGGACCCAGCTTCTCGTC---GACGGCAACCGCTCGACTGGG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GCCCGAGGGACCCAGCTTCTCGTC---GACGGCAACCGCTCGACTGGG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	GCCCGAGGGACCCAGCTTCTCGTC---GACGGCAACCGCTCGACTGGG
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	GCCCGAGGGACCCAGCTTCTCGTC---GACGGCAACCGCTCGACTGGG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GCCCGAGGGCGTCAGCTTACCCTC---GAGGGCCACGAGGTGAGCTGGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GCCCGACGGCCGAGCTTACCCTGACCGGCGGCAACCAGTGGAGTGGG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GCCCGAGGGGCCGAGCTTACCCTC---GACGGCAACCTCTGGAGTGGG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GCCCGAGGGGCCGAGCTTACCCTC---GACGGCAACCTCTGGAGTGGG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GCCCGAGGGGCCGAGCTTACCCTC---GACGGCAACCTCTGGAGTGGG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GCCCGAGGGGCCGAGCTTACCCTC---GACGGCAACCTCTGGAGTGGG

<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CACGACGTGACCTTCGACGGC-----
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CACGACGTGACCTTCGACGGC-----
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CACGACGTGACCTTCGACGGC-----
<i>Nocardioopsis sp.</i> NRRL B-16309 Accession no: LGEC01000081.1	CACCAGATCGCCTTCGCCGACCGCGACC-----GGGGCGGGA
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	CATAACCTGGCGTTCCAGGACG-----GCGGCAAGAA
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	CACAACATCGCCTTCAGGACA-----GTGACCGGAA
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	CACAACATCGCCTTCAGGACA-----GTGACCGGAA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	CATCAGCTCGGATTCGCCGACGGTGAC-----CGGGT
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	CATCAGCTCGGATTCGCCGACGGTGAC-----CGGGT
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	CATCAGCTCGGATTCGCCGACGGTGAC-----CGGGT
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	CATCAGCTCGGATTCGCCGACGGTGAC-----CGGGT
<i>Rhodococcus sp.</i> SC4 SC4 Accession no: LSBM01000283.1	CATCAGCTCGGATTCGCCGACGGTGAC-----CGGGT
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CACCGGATCTCGTTCGGCGGC-----
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	CACAACATCGCCTTCGACGACGCCGGCGGGCAACCCGGGCGACCGGAA
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CACCAGATCGCGTTCACGACCGCGACC-----AGGGCGCGA
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CACCAGATCGCGTTCACGACCGCGACC-----AGGGCGCGA
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CACCAGATCGCGTTCACGACCGCGACC-----AGGGCGCGA
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CACCAGATCGCGTTCACGACCGCGACC-----AGGGCGCGA
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	CC-----GGCCGATCGTGCACCGGGCCTCGATCTCGGAAATGG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	CC-----GGCCGATCGTGCACCGGGCCTCGATCTCGGAAATGG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	AC-----GCCCCATCATTAACCGTGCATCCATGCGCGAGATGG
<i>Arthrobacter sp.</i> 31Y K253DRAFT Accession no: JAFW01000002.1	AC-----GCCCCATCATTAACCGTGCATCCATGCGCGAGATGG
<i>Arthrobacter sp.</i> M2012083 Accession no: NZ_AKKK01000062.1	AC-----GCCCCATCATTAACCGTGCATCCATGCGCGAGATGG
<i>Arthrobacter sp.</i> EpRS71 Accession no: LNUV01000006.1	AC-----GCCCCATCATTAACCGTGCATCCATGCGCGAGATGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	AC-----GCCCCATCATTAACCGTGCATCCATGCGCGAGATGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	TC-----GCACGATCCTCGACCGGGCGGCCATCGCCGAGATGG
<i>Brevibacterium sp.</i> YB235 Accession no: CP050153.1	TC-----GCACGATCCTCGACCGGGCGGCCATCGCCGAGATGG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	AC-----GCTCCATCATCCGTCGTGCGTCGATCGCGGAGATGG
<i>Cryobacterium sp.</i> MLB32 c47 Accession no: JPRS01000047.1	AC-----GCTCCATCATCCGTCGTGCGTCGATCGCGGAGATGG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	AC-----GCTCCATCATCCGTCGTGCGTCGATCGCGGAGATGG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	AC-----GCTCCATCATCCGTCGTGCGTCGATCGCGGAGATGG
<i>Kocuria indica</i> Accession no: CP035504.1	GC-----GCCGGATCCTGGACCGCGCCGCCATCGCGGAGATGA
<i>Kocuria flava</i> Accession no: CP013254.1	GC-----GCCGGATCCTGGACCGCGCCGCCATCGCGGAGATGA
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	-C-----GCCCCGTACTCAACCGCGCGAGCGTGCCCGAGATGG
<i>Microbacterium oxydans</i> Accession no: CP031422.1	-C-----GCCCCGTACTCAACCGCGCGAGCGTGCCCGAGATGG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	-C-----GCCCCGTACTCAACCGCGCGAGCGTGCCCGAGATGG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	-C-----GCCCCGTACTCAACCGCGCGAGCGTGCCCGAGATGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	-C-----GCCCCGTACTCAACCGCGCGAGCGTGCCCGAGATGG
<i>Nocardioopsis sp.</i> NRRL B-16309 Accession no: LGEC01000081.1	GC-----GCTCGATCGTCCACCGCGCCTCCATCGCCGAGATGG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GC-----GTCCCATCATCAACCGTGCCTCCATCGCCGAAATGG
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	GC-----GGCCCATCATCAACCGTGCCTCCATCGCCGAGATGG
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GC-----GGCCCATCATCAACCGTGCCTCCATCGCCGAGATGG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	CC-----GCCCCGATCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	CC-----GCCCCGATCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	CC-----GCCCCGATCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	CC-----GCCCCGATCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Rhodococcus sp.</i> SC4 SC4 Accession no: LSBM01000283.1	CC-----GCCCCGATCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	-G-----ACCCGGTGCTGCACCGGGCGTCGATGGCGGAGATGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GCCGACCCGCGCCGCCGATCCTCGACCGCGCCTCGATCGCCGAGATGG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CC-----GTCCCGTCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CC-----GTCCCGTCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CC-----GTCCCGTCATCCACCGCGCGTCCATCGCCGAGATGG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CC-----GTCCCGTCATCCACCGCGCGTCCATCGCCGAGATGG
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<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GACGCCGGCGAGTACCTGCTCGGCAAGAACGCGAACCACCTCGAGCTCGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GACGCCGGCGAGTACCTGCTCGGCAAGAACGCGAACCACCTCGAGCTCGG
<i>Nocardioopsis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	GACACCGGCGAGTACATGGTGGCCGCTACGCCAACGCCCTCCGGCTCGG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GACACCGGTGAATACCTGGTGGGTCAGTACGCGAACTCCTTGGAGCTGGG
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	GACACCGGCGAATACCTGGTGGCCAGTACGCCAACTCCCTCGAACTCGG
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GACACCGGCGAATACCTGGTGGCCAGTACGCCAACTCCCTCGAACTCGG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GACACCGGCGAGTACATGGTGGGCGCTACGCGAACGCCCTCGAACTCGG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GACACCGGCGAGTACATGGTGGGCGCTACGCGAACGCCCTCGAACTCGG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GACACCGGCGAGTACATGGTGGGCGCTACGCGAACGCCCTCGAACTCGG
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	GACACCGGCGAGTACATGGTGGGCGCTACGCGAACGCCCTCGAACTCGG
<i>Rhodococcus</i> sp. SC4 SC4 Accession no: LSBM01000283.1	GACACCGGCGAGTACATGGTGGGCGCTACGCGAACGCCCTCGAACTCGG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GACGCCGGCGAGTACCTGCTGGGCAAGAACGCGAACCACCTCGAGCTCGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GACACCGGCGAGTACCTGCTGGGCCAGTTCGCGAACTCGCTCGAGCTCGG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GACACCGGCGAGTTCTTGTATCGGCCGATGGCGAACGCCCTCGAACTGGG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GACACCGGCGAGTTCTTGTATCGGCCGATGGCGAACGCCCTCGAACTGGG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GACACCGGCGAGTTCTTGTATCGGCCGATGGCGAACGCCCTCGAACTGGG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GACACCGGCGAGTTCTTGTATCGGCCGATGGCGAACGCCCTCGAACTGGG
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	CTGCCGACTGCCTCGGTGAGATCACCTACCTGACGCGGTGATCGCCGACG
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	CTGCCGACTGCCTCGGTGAGATCACCTACCTGACGCGGTGATCGCCGACG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	CTGCCGACTGCCTGGGTGAAATCACCTACCTGAGCCCCGTCGTCCGACAGC
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	CTGCCGACTGCCTGGGTGAAATCACCTACCTGAGCCCCGTCGTCCGACAGC
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	CTGCCGACTGCCTGGGTGAAATCACCTACCTGAGCCCCGTCGTCCGACAGC
<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV01000006.1	CTGCCGACTGCCTGGGTGAAATCACCTACCTGAGCCCCGTCGTCCGACAGC
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	CTGCCGACTGCCTGGGTGAAATCACCTACCTGAGCCCCGTCGTCCGACAGC
<i>Brevibacterium linens</i> Accession no: CP014869.1	GTGTGACTGCCTCGGCATATCACCTATCTGTCCGCGTGGTGGCGAACA
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	GTGTGACTGCCTCGGCATATCACCTATCTGTCCGCGTGGTGGCGAACA
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	CTGCCGACTGCCTCGGCAGATTACCTACCTGAGCCCCGTCATCACCAGC
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	CTGCCGACTGCCTCGGCAGATTACCTACCTGAGCCCCGTCATCACCAGC
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	CTGCCGACTGCCTCGGCAGATTACCTACCTGAGCCCCGTCATCACCAGC
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	CTGCCGACTGCCTCGGCAGATTACCTACCTGAGCCCCGTCATCACCAGC
<i>Kocuria indica</i> Accession no: CP035504.1	CTGCCGACTGCCTGGGTGACATCACCTACCTGTCGCCGCGTGGTTGTGACCG
<i>Kocuria flava</i> Accession no: CP013254.1	CTGCCGACTGCCTGGGTGACATCACCTACCTGTCGCCGCGTGGTTGTGACCG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	CTGCCGACTGCCTGGGCGTATCCGCTACCTGACGGCTACGTCCGCCGACG
<i>Microbacterium oxydans</i> Accession no: CP031422.1	CTGCCGACTGCCTGGGCGTATCCGCTACCTGACGGCTACGTCCGCCGACG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CTGCCGACTGCCTGGGCGTATCCGCTACCTGACGGCTACGTCCGCCGACG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CTGCCGACTGCCTGGGCGTATCCGCTACCTGACGGCTACGTCCGCCGACG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CTGCCGACTGCCTGGGCGTATCCGCTACCTGACGGCTACGTCCGCCGACG
<i>Nocardioopsis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	CTGCCGACTGCCTCGGCAGATCACCTACCTGAGGCCGCTCCTCGCCGACG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	CTGCCGATTGCTGGGTGACATCACGTACCTCAGCCCTGTATCAGCGATG
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	CTGTGACTGCCTGGGCGAGATCACCTACCTCAGCCCCGTCATCTCCGACG
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	CTGTGACTGCCTGGGCGAGATCACCTACCTCAGCCCCGTCATCTCCGACG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	CTGCCGACTGCGTCCGGGACATCACCTACTTCGACGCCGTCATCGCCGACG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	CTGCCGACTGCGTCCGGGACATCACCTACTTCGACGCCGTCATCGCCGACG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	CTGCCGACTGCGTCCGGGACATCACCTACTTCGACGCCGTCATCGCCGACG
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	CTGCCGACTGCGTCCGGGACATCACCTACTTCGACGCCGTCATCGCCGACG
<i>Rhodococcus</i> sp. SC4 SC4 Accession no: LSBM01000283.1	CTGCCGACTGCGTCCGGGACATCACCTACTTCGACGCCGTCATCGCCGACG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CTGCCGACTGCCTGGGCGTATCCACTACTTCGACGCCGTCATCGCCGACG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	CTGCCGACTGCCTGGGCGAGATCACCTACCTCAGCCCCGTCGTCGCCGACG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CTGTGACTGCCTCGGCAGATCACCTACCTGAGGCCGTCATCGCCGACG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CTGTGACTGCCTCGGCAGATCACCTACCTGAGGCCGTCATCGCCGACG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CTGTGACTGCCTCGGCAGATCACCTACCTGAGGCCGTCATCGCCGACG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CTGTGACTGCCTCGGCAGATCACCTACCTGAGGCCGTCATCGCCGACG
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	AGTTCGGCCACCCCGCGTGTGCCAACCGCATCTGCCTGCACGAGGAG
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	AGTTCGGCCACCCCGCGTGTGCCAACCGCATCTGCCTGCACGAGGAG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	CCTTCGGCAACCCGCGCGAAATTCGCAACGGCATCTGCATGCACGAGGAG
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	CCTTCGGCAACCCGCGCGAAATTCGCAACGGCATCTGCATGCACGAGGAG
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	CCTTCGGCAACCCGCGCGAAATTCGCAACGGCATCTGCATGCACGAGGAG
<i>Arthrobacter sp. Eprs71</i> Accession no: LNUV01000006.1	CCTTCGGCAACCCGCGCGAAATTCGCAACGGCATCTGCATGCACGAGGAG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	CCTTCGGCAACCCGCGCGAAATTCGCAACGGCATCTGCATGCACGAGGAG
<i>Brevibacterium linens</i> Accession no: CP014869.1	ACCTCGCGAACCTCGGCAGATCAAGAACGGCATCTGCATGCACGAGGAG
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	ACCTCGCGAACCTCGGCAGATCAAGAACGGCATCTGCATGCACGAGGAG
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	GCTTCGGCAACCCGCGCGAGATTCGCAACGGTATCTGCATGCACGAAGAG
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	GCTTCGGCAACCCGCGCGAGATTCGCAACGGTATCTGCATGCACGAAGAG
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	GCTTCGGCAACCCGCGCGAGATTCGCAACGGTATCTGCATGCACGAAGAG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GCTTCGGCAACCCGCGCGAGATTCGCAACGGTATCTGCATGCACGAAGAG
<i>Kocuria indica</i> Accession no: CP035504.1	GGCGCGCGAACCCGCGGAGATCACCACGGCATCTGCATGCACGAGGAG
<i>Kocuria flava</i> Accession no: CP013254.1	GGCGCGCGAACCCGCGGAGATCACCACGGCATCTGCATGCACGAGGAG
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	ACCAGGGCCATCCGGTGCGGATCCCGAACGTGATCTGCATGCACGAGGAG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	ACCAGGGCCATCCGGTGCGGATCCCGAACGTGATCTGCATGCACGAGGAG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	ACCAGGGCCATCCGGTGCGGATCCCGAACGTGATCTGCATGCACGAGGAG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	ACCAGGGCCATCCGGTGCGGATCCCGAACGTGATCTGCATGCACGAGGAG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	ACCAGGGCCATCCGGTGCGGATCCCGAACGTGATCTGCATGCACGAGGAG
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	AGCGCGGAGAGCCACAGACCCCTCCCAACGCCGTGTGCCTGCACGAGGAG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	CTTTTCGGCAACCCACGCGAGATCCGCAACGGCATCTGCATGCACGAGGAA
<i>Pseudarthrobacter sp.</i> Accession no: CP041198.1	CGTTTCGGAAACCCCGCGAGATCCGCAACGGCATCTGCATGCACGAGGAG
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	CGTTTCGGAAACCCCGCGAGATCCGCAACGGCATCTGCATGCACGAGGAG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	AGTTCGGCACCCCAAGACGCTGAAGAACGCCGTGTGCATGCACGAGGAG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	AGTTCGGCACCCCAAGACGCTGAAGAACGCCGTGTGCATGCACGAGGAG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	AGTTCGGCACCCCAAGACGCTGAAGAACGCCGTGTGCATGCACGAGGAG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	AGTTCGGCACCCCAAGACGCTGAAGAACGCCGTGTGCATGCACGAGGAG
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	AGTTCGGCACCCCAAGACGCTGAAGAACGCCGTGTGCATGCACGAGGAG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	ACCACGGCCACCCGGTGGCCATCCCCAGGGATCTGCATGCACGAGGAG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GGTTCGGCACCCCGCGCACCATCGCGAACGGCATCTGCATGCACGAGGAG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	ACACGGGTGCCCGCGCACCTGCGCAACGGCATCTGTCTGCACGAGGAG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	ACACGGGTGCCCGCGCACCTGCGCAACGGCATCTGTCTGCACGAGGAG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	ACACGGGTGCCCGCGCACCTGCGCAACGGCATCTGTCTGCACGAGGAG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	ACACGGGTGCCCGCGCACCTGCGCAACGGCATCTGTCTGCACGAGGAG
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	GACTACGGGATCCTCTGGAAGCACACCGACTGTGGGCGGGCTCGGCGGA
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	GACTACGGGATCCTCTGGAAGCACACCGACTGTGGGCGGGCTCGGCGGA
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GACGCTCGATCCTGGCCAAGCACTCGGATCTGTGGACCGGTATCAACTA
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	GACGCTCGATCCTGGCCAAGCACTCGGATCTGTGGACCGGTATCAACTA
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	GACGCTCGATCCTGGCCAAGCACTCGGATCTGTGGACCGGTATCAACTA
<i>Arthrobacter sp. Eprs71</i> Accession no: LNUV01000006.1	GACGCTCGATCCTGGCCAAGCACTCGGATCTGTGGACCGGTATCAACTA
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GACGCTCGATCCTGGCCAAGCACTCGGATCTGTGGACCGGTATCAACTA
<i>Brevibacterium linens</i> Accession no: CP014869.1	GACGCTCGATCCTGGCCAAGCACTCGGATCTGTGGACCGGTATCAACTA
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	GACGCTCGATCCTGGCCAAGCACTCGGATCTGTGGACCGGTATCAACTA
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	GATTGGAGCATCCTCGCCAAGCACAGCGACTGTGGAGCGGCATCGAATA
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	GATTGGAGCATCCTCGCCAAGCACAGCGACTGTGGAGCGGCATCGAATA
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	GATTGGAGCATCCTCGCCAAGCACAGCGACTGTGGAGCGGCATCGAATA
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GATTGGAGCATCCTCGCCAAGCACAGCGACTGTGGAGCGGCATCGAATA
<i>Kocuria indica</i> Accession no: CP035504.1	GACTGGTCCATCCTCTCCAAGCACACGGACTGTGGAGCGGGTGGCGTA
<i>Kocuria flava</i> Accession no: CP013254.1	GACTGGTCCATCCTCTCCAAGCACACGGACTGTGGAGCGGGTGGCGTA
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	GACACGGGATCCTCTGGAAGCACACGAACCTCG--AGGGCCGCTCCGA
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GACACGGGATCCTCTGGAAGCACACGAACCTCG--AGGGCCGCTCCGA
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GACACGGGATCCTCTGGAAGCACACGAACCTCG--AGGGCCGCTCCGA
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GACACGGGATCCTCTGGAAGCACACGAACCTCG--AGGGCCGCTCCGA

<i>Microbacterium mangrove</i> Accession no: JTDK0100001.1	GACACCGGGATCCTCTGGAAGCACACGAACCTCG--AGGGCCGCTCCGA
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GACGTGGGGTGTGTGGAAGCACAGCGACCTGTGGCGGGATCGTCCGA
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GACTGGGGCATCCTCTCCAAGCACTCTGACCTGTGGACCGGCATCAATTA
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	GACTGGAGCATCCTCTCCAAGCACTCCGACCTCTGGAGCGGAATCACCTA
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GACTGGAGCATCCTCTCCAAGCACTCCGACCTCTGGAGCGGAATCACCTA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GACTTCGGCGTGTGTGGAAGCACACCGACCTGTGGGCCGGCTCCGCCGA
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GACTTCGGCGTGTGTGGAAGCACACCGACCTGTGGGCCGGCTCCGCCGA
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GACTTCGGCGTGTGTGGAAGCACACCGACCTGTGGGCCGGCTCCGCCGA
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	GACTTCGGCGTGTGTGGAAGCACACCGACCTGTGGGCCGGCTCCGCCGA
<i>Rhodococcus sp. SC4 SC4</i> Accession no: LSBM01000283.1	GACTTCGGCGTGTGTGGAAGCACACCGACCTGTGGGCCGGCTCCGCCGA
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GACTACGGCGTGCAGTGAAGCACACCAACATCCTCACCGGGCGTCCGGA
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GACGCTCGATCCTCTCCAAGCACTCCGACCTGTGGAGCGGGGTGAGCTA
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GACCACGGCATCCTCTGGAAGCATAACCGACCTGTGGACCGCCGCGCCGA
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GACCACGGCATCCTCTGGAAGCATAACCGACCTGTGGACCGCCGCGCCGA
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GACCACGGCATCCTCTGGAAGCATAACCGACCTGTGGACCGCCGCGCCGA
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GACCACGGCATCCTCTGGAAGCATAACCGACCTGTGGACCGCCGCGCCGA
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	GACCCGCGCCAGCGCCGCATGGTGTCTCGTTCTTACCACGATCGGCA
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	GACCCGCGCCAGCGCCGCATGGTGTCTCGTTCTTACCACGATCGGCA
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	CACCCGCGCAACCGCCGCTGGTGGTCTCCTTCTTTACCACCATTTGGCA
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	CACCCGCGCAACCGCCGCTGGTGGTCTCCTTCTTTACCACCATTTGGCA
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	CACCCGCGCAACCGCCGCTGGTGGTCTCCTTCTTTACCACCATTTGGCA
<i>Arthrobacter sp. EpRS71</i> Accession no: LNUV01000006.1	CACCCGCGCAACCGCCGCTGGTGGTCTCCTTCTTTACCACCATTTGGCA
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	CACCCGCGCAACCGCCGCTGGTGGTCTCCTTCTTTACCACCATTTGGCA
<i>Brevibacterium linens</i> Accession no: CP014869.1	CACCCGCGCAACCGCCGCTTCGTCTCGTCTCGTTCTTACCACGGTTGGCA
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	CACCCGCGCAACCGCCGCTTCGTCTCGTCTCGTTCTTACCACGGTTGGCA
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	CACCCGCGCAACCGCCGCTTCGTCTCGTCTCGTTCTTACCACGGTTGGCA
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	CACCCGCGCAACCGCCGCTTCGTCTCGTCTCGTTCTTACCACGGTTGGCA
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	CACCCGCGCAACCGCCGCTTCGTCTCGTCTCGTTCTTACCACGGTTGGCA
<i>Cryobacterium roopkundense</i> Accession no: JPDF01000060.1	CACCCGCGCAACCGCCGCTTCGTCTCGTCTCGTTCTTACCACGGTTGGCA
<i>Kocuria indica</i> Accession no: CP035504.1	CACCCGCGCAACCGCCGCTGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Kocuria flava</i> Accession no: CP013254.1	CACCCGCGCAACCGCCGCTGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	CGTGCGCCGCGCCCGCTTCGTGGTGTGATATTCTCCACGATCGGCA
<i>Microbacterium oxydans</i> Accession no: CP031422.1	CGTGCGCCGCGCCCGCTTCGTGGTGTGATATTCTCCACGATCGGCA
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CGTGCGCCGCGCCCGCTTCGTGGTGTGATATTCTCCACGATCGGCA
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CGTGCGCCGCGCCCGCTTCGTGGTGTGATATTCTCCACGATCGGCA
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CGTGCGCCGCGCCCGCTTCGTGGTGTGATATTCTCCACGATCGGCA
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GACCCGCGCCAGCGCCGCATGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	CACCCGCGCAACCGCCGCTGGTGTCTCCTTCTTACCACCGTGGGCA
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	CACCCGCGCAACCGCCGCTGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	CACCCGCGCAACCGCCGCTGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GACTCGCCGCCAGCGCCGTCTCGTCTCCTTCTTACCACCGTGGGCA
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GACTCGCCGCCAGCGCCGTCTCGTCTCCTTCTTACCACCGTGGGCA
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GACTCGCCGCCAGCGCCGTCTCGTCTCCTTCTTACCACCGTGGGCA
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	GACTCGCCGCCAGCGCCGTCTCGTCTCCTTCTTACCACCGTGGGCA
<i>Rhodococcus sp. SC4 SC4</i> Accession no: LSBM01000283.1	GACTCGCCGCCAGCGCCGTCTCGTCTCCTTCTTACCACCGTGGGCA
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CGTGCGCCGCTTCGCCGCGCTGGTGGTGTCTCGTTCCAGACCATCGGCA
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	CGTGCGCCGCAACCGCCGCTTCGTCTCAGTTCTTACCACGATCGGCA
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GACCCGCGCCAGCGCCGCATGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GACCCGCGCCAGCGCCGCATGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GACCCGCGCCAGCGCCGCATGGTGTCTCCTTCTTACCACCGTGGGCA
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GACCCGCGCCAGCGCCGCATGGTGTCTCCTTCTTACCACCGTGGGCA
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	ACTACGACTACGGCTTCTACTGGTACTCTACTCTGACGGCAGCATCGAG

<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	ACTACGACTACGGCTTTTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	ACTACGACTACGGCTTTTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	ACTACGACTACGGCTTTTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Arthrobacter</i> sp. Eprs71 Accession no: LNUV01000006.1	ACTACGACTACGGCTTTTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	ACTACGACTACGGCTTTTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Brevibacterium linens</i> Accession no: CP014869.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACTATCGAA
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACTATCGAA
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAA
<i>Kocuria indica</i> Accession no: CP035504.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAG
<i>Kocuria flava</i> Accession no: CP013254.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAG
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	ACTACGACTACGGCTTCTACTGGAAC	TTGGCCTGGACGGCACCATCGAG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	ACTACGACTACGGCTTCTACTGGAAC	TTGGCCTGGACGGCACCATCGAG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	ACTACGACTACGGCTTCTACTGGAAC	TTGGCCTGGACGGCACCATCGAG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	ACTACGACTACGGCTTCTACTGGAAC	TTGGCCTGGACGGCACCATCGAG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	ACTACGACTACGGCTTCTACTGGAAC	TTGGCCTGGACGGCACCATCGAG
<i>Nocardiosis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	ACTACGACTACGGCTTTTACTGGTAC	CTCTACTTGGATGGCACCATCGAA
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	ACTACGATTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAG
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	ACTACGATTACGGCTTCTACTGGTAC	CTCTACCTGGACGGCACCATCGAG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	ACTACGACTACGGCTTCTTCTGGTAC	CTGTACCTCGACGGCACCATCGAG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	ACTACGACTACGGCTTCTTCTGGTAC	CTGTACCTCGACGGCACCATCGAG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	ACTACGACTACGGCTTCTTCTGGTAC	CTGTACCTCGACGGCACCATCGAG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	ACTACGACTACGGCTTCTTCTGGTAC	CTGTACCTCGACGGCACCATCGAG
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	ACTACGACTACGGCTTCTTCTGGTAC	CTGTACCTCGACGGCACCATCGAG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	ACTACGACTACGGCTTCTTCTGGTAC	TTCTACCTCGACGGCACCATCGAG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTCGACGGCACCATCGAG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTCGATGGCGCCATCGAG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTCGATGGCGCCATCGAG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTCGATGGCGCCATCGAG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	ACTACGACTACGGCTTCTACTGGTAC	CTCTACCTCGATGGCGCCATCGAG
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	TGCGAGGCCAAGGCCACCGCGCTCGTGTTCACCTCCGCC---	TACCCCGG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	TGCGAGGCCAAGGCCACCGCGCTCGTGTTCACCTCCGCC---	TACCCCGG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	TTCGAGGCCAAGGCCACTGGCCTCGTCTTACCAGCGCG---	CATCCGGG
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	TTCGAGGCCAAGGCCACTGGCCTCGTCTTACCAGCGCG---	CATCCGGG
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	TTCGAGGCCAAGGCCACTGGCCTCGTCTTACCAGCGCG---	CATCCGGG
<i>Arthrobacter</i> sp. Eprs71 Accession no: LNUV01000006.1	TTCGAGGCCAAGGCCACTGGCCTCGTCTTACCAGCGCG---	CATCCGGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	TTCGAGGCCAAGGCCACTGGCCTCGTCTTACCAGCGCG---	CATCCGGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	TTCGAGGCCAAGGCCACCGCGCTCGTCTTACCAGCGCG---	CTGCCGAA
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	TTCGAGGCCAAGGCCACCGCGCTCGTCTTACCAGCGCG---	CTGCCGAA
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	TTCGAGGCCAAGGCCACCGCGCTCGTCTTACCAGCGCG---	TAGCCGG
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	TTCGAGGCCAAGGCCACCGCGCTCGTCTTACCAGCGCG---	TAGCCGG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	TTCGAGGCCAAGGCCACCGCGCTCGTCTTACCAGCGCG---	TAGCCGG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	TTCGAGGCCAAGGCCACCGCGCTCGTCTTACCAGCGCG---	TAGCCGG
<i>Kocuria indica</i> Accession no: CP035504.1	TTCGAGGCCAAGGCCACCGCGCTGGTCTTACCCTCCGCC---	CTGCCCAA
<i>Kocuria flava</i> Accession no: CP013254.1	TTCGAGGCCAAGGCCACCGCGCTGGTCTTACCCTCCGCC---	CTGCCCAA
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	GTGATCGCGAAGGCCACGGGCATCGTTTTCTGGGGCCGGAGAGCCCGG	
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GTGATCGCGAAGGCCACGGGCATCGTTTTCTGGGGCCGGAGAGCCCGG	
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GTGATCGCGAAGGCCACGGGCATCGTTTTCTGGGGCCGGAGAGCCCGG	
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GTGATCGCGAAGGCCACGGGCATCGTTTTCTGGGGCCGGAGAGCCCGG	
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GTGATCGCGAAGGCCACGGGCATCGTTTTCTGGGGCCGGAGAGCCCGG	

<i>Nocardioopsis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	TTCGAGGCCAAGGCCACCGGCATCGTGTTCACCTCCGCC---CACCCCGG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	TTCGAGGCAAAGGCCACCGGCCTCGTATTACACAGTGA---TTCCCGGA
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	TTCGAGGCCAAGGCCACCGGCCTGTGTTCACCTCGGCG---TTCCCGGA
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	TTCGAGGCCAAGGCCACCGGCCTGTGTTCACCTCGGCG---TTCCCGGA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	TTCGAGGTCAAGGCCACCGGCATCGTCTTACGTCCGGGT---CACCCGGG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	TTCGAGGTCAAGGCCACCGGCATCGTCTTACGTCCGGGT---CACCCGGG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	TTCGAGGTCAAGGCCACCGGCATCGTCTTACGTCCGGGT---CACCCGGG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	TTCGAGGTCAAGGCCACCGGCATCGTCTTACGTCCGGGT---CACCCGGG
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	TTCGAGGTCAAGGCCACCGGCATCGTCTTACGTCCGGGT---CACCCGGG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CTGGAGGCCAAGGCCACCGGCCTGGTGTCTCGCGCG-----CGGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	TTCGAGGCCAAGGCCACCGGCCTCGTGTTCACCTCCGCC---CAGCCCTC
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	TTCGAGGCGAAGGCCACCGGCATCGTCTTCCCTCCGCC---TACCCGGG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	TTCGAGGCGAAGGCCACCGGCATCGTCTTCCCTCCGCC---TACCCGGG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	TTCGAGGCGAAGGCCACCGGCATCGTCTTCCCTCCGCC---TACCCGGG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	TTCGAGGCGAAGGCCACCGGCATCGTCTTCCCTCCGCC---TACCCGGG
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	CAAGGGCTACCCTACGCCTCCGAACCTCGCGCCCGCCCTCGGCGCCCGGT
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	CAAGGGCTACCCTACGCCTCCGAACCTCGCGCCCGCCCTCGGCGCCCGGT
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	CAAGGGCTACCCTTACGCATCCGAACCTGGCGCCGGGACTTGGTGCCCGGT
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	CAAGGGCTACCCTTACGCATCCGAACCTGGCGCCGGGACTTGGTGCCCGGT
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	CAAGGGCTACCCTTACGCATCCGAACCTGGCGCCGGGACTTGGTGCCCGGT
<i>Arthrobacter</i> sp. Eprs71 Accession no: LNUV01000006.1	CAAGGGCTACCCTTACGCATCCGAACCTGGCGCCGGGACTTGGTGCCCGGT
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	CAAGGGCTACCCTTACGCATCCGAACCTGGCGCCGGGACTTGGTGCCCGGT
<i>Brevibacterium linens</i> Accession no: CP014869.1	CGGGTCGACGGATTTCGCCTCGGAGATCGCGCCCGGTCTCGGTGCGCCGT
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	CGGGTCGACGGATTTCGCCTCGGAGATCGCGCCCGGTCTCGGTGCGCCGT
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	CAAGGGCTATCCCTACGCCTCCGAATCGCTCCCGGTCTCGGCGCCCCCT
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	CAAGGGCTATCCCTACGCCTCCGAATCGCTCCCGGTCTCGGCGCCCCCT
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	CAAGGGCTATCCCTACGCCTCCGAATCGCTCCCGGTCTCGGCGCCCCCT
<i>Cryobacterium roopkundense</i> Accession no: JPDF01000060.1	CAAGGGCTATCCCTACGCCTCCGAATCGCTCCCGGTCTCGGCGCCCCCT
<i>Kocuria indica</i> Accession no: CP035504.1	CGGCTCCTCGGACTTCGCCTCGGAATCGCCCGGGGCTGGGTGCGCCGT
<i>Kocuria flava</i> Accession no: CP013254.1	CGGCTCCTCGGACTTCGCCTCGGAATCGCCCGGGGCTGGGTGCGCCGT
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	CGTCCCGCAGCGCCACGCCACCGAGCTCGCCCCGGCGTGTTCGCACCGG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	CGTCCCGCAGCGCCACGCCACCGAGCTCGCCCCGGCGTGTTCGCACCGG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CGTCCCGCAGCGCCACGCCACCGAGCTCGCCCCGGCGTGTTCGCACCGG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CGTCCCGCAGCGCCACGCCACCGAGCTCGCCCCGGCGTGTTCGCACCGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CGTCCCGCAGCGCCACGCCACCGAGCTCGCCCCGGCGTGTTCGCACCGG
<i>Nocardioopsis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	CGGCGACTACCCTACGCGACCGAGATCGCCCCGGACTGGGCGCGCCCT
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	AGGGGGCTCGGACAACATCTCCAGTGGCCCCGGCCTCGGCGCCCGGT
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	GGGCGGCTCGGACAACATCTCCAGTGGCCCCGGCCTGGGTGCCCGGT
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	GGGCGGCTCGGACAACATCTCCAGTGGCCCCGGCCTGGGTGCCCGGT
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	CGGCGACTACCCTACGCTCGGAGATCGCCCCGGCCTCGGCGCCCGGT
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	CGGCGACTACCCTACGCTCGGAGATCGCCCCGGCCTCGGCGCCCGGT
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	CGGCGACTACCCTACGCTCGGAGATCGCCCCGGCCTCGGCGCCCGGT
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	CGGCGACTACCCTACGCTCGGAGATCGCCCCGGCCTCGGCGCCCGGT
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	CGGCGACTACCCTACGCTCGGAGATCGCCCCGGCCTCGGCGCCCGGT
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CGGCGAGAACCCTACGGCTCGGAGATCGCCCCGGCCTGATGGCCCCGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	CGGCGACTACCCTACTCGTCCGAGATGGCGCCGGCCTGGGCGCCCGGT
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CCCCGGCTACCCTACGCTCCGAGTTCGCCCGGGGCTCGGCGCCCGGT
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CCCCGGCTACCCTACGCTCCGAGTTCGCCCGGGGCTCGGCGCCCGGT
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CCCCGGCTACCCTACGCTCCGAGTTCGCCCGGGGCTCGGCGCCCGGT
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CCCCGGCTACCCTACGCTCCGAGTTCGCCCGGGGCTCGGCGCCCGGT
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	ACCACCAGCACCTGTTTCAGCGCGCGGCTGGACATGGCCGTGGACGGGCCG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	ACCACCAGCACCTGTTTCAGCGCGCGGCTGGACATGGCCGTGGACGGGCCG

<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	ACCACCAGCACCTCTTTGGGGCGCGCCTGGATATGGCCATCGACGGCTTT
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	ACCACCAGCACCTCTTTGGGGCGCGCCTGGATATGGCCATCGACGGCTTT
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	ACCACCAGCACCTCTTTGGGGCGCGCCTGGATATGGCCATCGACGGCTTT
<i>Arthrobacter sp. EPRS71</i> Accession no: LNUV01000006.1	ACCACCAGCACCTCTTTGGGGCGCGCCTGGATATGGCCATCGACGGCTTT
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	ACCACCAGCACCTCTTTGGGGCGCGCCTGGATATGGCCATCGACGGCTTT
<i>Brevibacterium linens</i> Accession no: CP014869.1	TCCACCAGCATCTCTTCGGTGCTCGACTCGACTTCGCCCTCGACGACGGC
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	TCCACCAGCATCTCTTCGGTGCTCGACTCGACTTCGCCCTCGACGACGGC
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	TTCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGGCCCTCGACGGCGAC
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	TTCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGGCCCTCGACGGCGAC
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	TTCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGGCCCTCGACGGCGAC
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	TTCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGGCCCTCGACGGCGAC
<i>Kocuria indica</i> Accession no: CP035504.1	TCCACCAGCACCTGTTCTCCGCGCGCCTGGACTTCGCGCTCGACGGCGGG
<i>Kocuria flava</i> Accession no: CP013254.1	TCCACCAGCACCTGTTCTCCGCGCGCCTGGACTTCGCGCTCGACGGCGGG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	TGCACCAGCACCTGTTCTGCGCGGACTCGACTCGCGATCGACGGATCC
<i>Microbacterium oxydans</i> Accession no:CP031422.1	TGCACCAGCACCTGTTCTGCGCGGACTCGACTCGCGATCGACGGATCC
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	TGCACCAGCACCTGTTCTGCGCGGACTCGACTCGCGATCGACGGATCC
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	TGCACCAGCACCTGTTCTGCGCGGACTCGACTCGCGATCGACGGATCC
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	TGCACCAGCACCTGTTCTGCGCGGACTCGACTCGCGATCGACGGATCC
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	TCCACCAGCACCTGTTCTGCGCCCGGCTCGCATGGCCCTGGACGGCACC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	TCCATCAGCACCTCTTCAGCGCCCGGCTGGCATGGCAGTTGACGGTTTC
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	TCCACCAGCACCTGTTTCAGCGCCCGGCTGGCATGGCGGTGGACGGCTTC
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	TCCACCAGCACCTGTTTCAGCGCCCGGCTGGCATGGCGGTGGACGGCTTC
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	ACCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGATGATCGACGGCGAC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	ACCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGATGATCGACGGCGAC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	ACCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGATGATCGACGGCGAC
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	ACCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGATGATCGACGGCGAC
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	ACCACCAGCACCTGTTTCAGCGCCCGCCTCGCATGATGATCGACGGCGAC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	TGCACCAGCACCTGTTCTGCGCGGCTGGACCCGAGATCGCGGGCCCG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	TCCACCAGCACCTCTTCAGCGCGCGGCTCGACTTCGCGCTCGACAGCGGG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	ACCACCAGCACCTGTTCTGCGCCCGCCTGGCATGGCCCTCGACGGCCCC
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	ACCACCAGCACCTGTTCTGCGCCCGCCTGGCATGGCCCTCGACGGCCCC
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	ACCACCAGCACCTGTTCTGCGCCCGCCTGGCATGGCCCTCGACGGCCCC
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	ACCACCAGCACCTGTTCTGCGCCCGCCTGGCATGGCCCTCGACGGCCCC
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	TCGAACCTGGTTCGAAGAGGTCGACGTGGAGCGGGTGCCGATCGGGCCGGA
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	TCGAACCTGGTTCGAAGAGGTCGACGTGGAGCGGGTGCCGATCGGGCCGGA
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GCCAACCGTGTTCGAGGAAGAGGACGTGGTTCGCGGGTGCCCATGGGTGAAGG
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	GCCAACCGTGTTCGAGGAAGAGGACGTGGTTCGCGGGTGCCCATGGGTGAAGG
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	GCCAACCGTGTTCGAGGAAGAGGACGTGGTTCGCGGGTGCCCATGGGTGAAGG
<i>Arthrobacter sp. EPRS71</i> Accession no: LNUV01000006.1	GCCAACCGTGTTCGAGGAAGAGGACGTGGTTCGCGGGTGCCCATGGGTGAAGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GCCAACCGTGTTCGAGGAAGAGGACGTGGTTCGCGGGTGCCCATGGGTGAAGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	AAGTGCCGGGTCGAGGAGGAGGACGTGGTTCGCGTCTCGCGGTCTCGCAGGA
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	AAGTGCCGGGTCGAGGAGGAGGACGTGGTTCGCGTCTCGCGGTCTCGCAGGA
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	ACCAACCGGGTCGAAGAAGAAGACGTGCTGCGCGTTCCGATAGGCCCCGG
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	ACCAACCGGGTCGAAGAAGAAGACGTGCTGCGCGTTCCGATAGGCCCCGG
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	ACCAACCGGGTCGAAGAAGAAGACGTGCTGCGCGTTCCGATAGGCCCCGG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	ACCAACCGGGTCGAAGAAGAAGACGTGCTGCGCGTTCCGATAGGCCCCGG
<i>Kocuria indica</i> Accession no: CP035504.1	CCCTGCCGCGTGGAGGAGGAGGACGCGGTGCGCGTGCCCATCTCCGACGA
<i>Kocuria flava</i> Accession no: CP013254.1	CCCTGCCGCGTGGAGGAGGAGGACGCGGTGCGCGTGCCCATCTCCGACGA
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	GACAACCGCCTCGTCGAGGTCGACGCGGCGCGCTCCCGATGGGCCCGGA
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GACAACCGCCTCGTCGAGGTCGACGCGGCGCGCTCCCGATGGGCCCGGA
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GACAACCGCCTCGTCGAGGTCGACGCGGCGCGCTCCCGATGGGCCCGGA
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GACAACCGCCTCGTCGAGGTCGACGCGGCGCGCTCCCGATGGGCCCGGA
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GACAACCGCCTCGTCGAGGTCGACGCGGCGCGCTCCCGATGGGCCCGGA
<i>Nocardiosis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GCCAACCGTGTGGTGGAGGTGGACGCCGCCCGCTCCCATCGGCCCGGA

<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GCCAACCGCGTGGAGGAAGAAGACGTGGTCCGGCAGGCAATGGGCGAAGG
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	ACCAACCGGGTAGAGGAAGAGGACGTCATCCGGCAGGTGATGGGCCC
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	ACCAACCGGGTAGAGGAAGAGGACGTCATCCGGCAGGTGATGGGCCC
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	CACAACCTCCGTCGAGGAGGTACAGACCAAGCGGGTGAAGATGGGCC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	CACAACCTCCGTCGAGGAGGTACAGACCAAGCGGGTGAAGATGGGCC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	CACAACCTCCGTCGAGGAGGTACAGACCAAGCGGGTGAAGATGGGCC
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	CACAACCTCCGTCGAGGAGGTACAGACCAAGCGGGTGAAGATGGGCC
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	CACAACCTCCGTCGAGGAGGTACAGACCAAGCGGGTGAAGATGGGCC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GCCAACACGGTGGAGGAGGTGACTTCGTCCGGCTCCCGACCGGGCCGGA
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	CCGAACCGCGTTCGAGGAGGAGGACGCCGTCCGCGTCCGCGTGGGCCC
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CGGAACCGGGTGGAGGAGATCGATGCCGTACGGGTGCCGATGGGACC
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CGGAACCGGGTGGAGGAGATCGATGCCGTACGGGTGCCGATGGGACC
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CGGAACCGGGTGGAGGAGATCGATGCCGTACGGGTGCCGATGGGACC
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CGGAACCGGGTGGAGGAGATCGATGCCGTACGGGTGCCGATGGGACC
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	CAACCCGCGCGCAACGCCTTACGCTCCGCAAGACGCCGCTGCGGAAGG
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	CAACCCGCGCGCAACGCCTTACGCTCCGCAAGACGCCGCTGCGGAAGG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GAATGAACGCGGCAATGCCTTACGCGCAAGCGACCATTGTTGGGTACGG
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	GAATGAACGCGGCAATGCCTTACGCGCAAGCGACCATTGTTGGGTACGG
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	GAATGAACGCGGCAATGCCTTACGCGCAAGCGACCATTGTTGGGTACGG
<i>Arthrobacter</i> sp. EPRS71 Accession no: LNUV01000006.1	GAATGAACGCGGCAATGCCTTACGCGCAAGCGACCATTGTTGGGTACGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GAATGAACGCGGCAATGCCTTACGCGCAAGCGACCATTGTTGGGTACGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	CAATCCGCGCGCAACGCCTTACGCGGTCGCCAACCATTGTCGCAACCG
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	CAATCCGCGCGCAACGCCTTACGCGGTCGCCAACCATTGTCGCAACCG
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	CAACGAGCGCGCAACGCCTTACCCGCCAGCGCACCGTGTGCGCCACCG
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	CAACGAGCGCGCAACGCCTTACCCGCCAGCGCACCGTGTGCGCCACCG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	CAACGAGCGCGCAACGCCTTACCCGCCAGCGCACCGTGTGCGCCACCG
<i>Cryobacterium roopkundense</i> Accession no: JPDF01000060.1	CAACGAGCGCGCAACGCCTTACCCGCCAGCGCACCGTGTGCGCCACCG
<i>Kocuria indica</i> Accession no: CP035504.1	CAACTCCGCGGCAACGCCTTACCCGCCAGCGCACCGTGTGCGGACCG
<i>Kocuria flava</i> Accession no: CP013254.1	CAACTCCGCGGCAACGCCTTACCCGCCAGCGCACCGTGTGCGGACCG
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	GAACCGGTTGCGCAACGCCTTACGCTGGACCGAGACCGCCTCGGATCCG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GAACCGGTTGCGCAACGCCTTACGCTGGACCGAGACCGCCTCGGATCCG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GAACCGGTTGCGCAACGCCTTACGCTGGACCGAGACCGCCTCGGATCCG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GAACCGGTTGCGCAACGCCTTACGCTGGACCGAGACCGCCTCGGATCCG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GAACCGGTTGCGCAACGCCTTACGCTGGACCGAGACCGCCTCGGATCCG
<i>Nocardiosis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	CAATCCGCGCGCAACGCCTTACCCAGAAGCACACCGTGTGCGCTCCG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	CAACGAGCGTGGCAATGCGTTCTCCCGCAAGCGCACTGTCTGGCCACAG
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	GAACGAGCGTGGCAACGCCTTCTCCCGCGGGCGCACGCTGTGGCCC
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	GAACGAGCGTGGCAACGCCTTCTCCCGCGGGCGCACGCTGTGGCCC
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GAACCTGCACGGAACCGGTTACCCCTCGAGCGCACGCCGCTGACGAAGG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GAACCTGCACGGAACCGGTTACCCCTCGAGCGCACGCCGCTGACGAAGG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GAACCTGCACGGAACCGGTTACCCCTCGAGCGCACGCCGCTGACGAAGG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	GAACCTGCACGGAACCGGTTACCCCTCGAGCGCACGCCGCTGACGAAGG
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	GAACCTGCACGGAACCGGTTACCCCTCGAGCGCACGCCGCTGACGAAGG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CAACCCGCGCGCAACGCCTTACACCACGACGACCGTGTGCGACCGCG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GAACGAGCGCGCAACGCCTTACCCCGAGGCGCACGCTCCTGGCCC
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CAACCCCGCGGCAACGCCTTACCCCTCCGGCGCACCCCGCTGCGCACCG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CAACCCCGCGGCAACGCCTTACCCCTCCGGCGCACCCCGCTGCGCACCG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CAACCCCGCGGCAACGCCTTACCCCTCCGGCGCACCCCGCTGCGCACCG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CAACCCCGCGGCAACGCCTTACCCCTCCGGCGCACCCCGCTGCGCACCG
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	AATCCGAAGCGCAGCGGCTCGCCGACAACCGCGCGGCCGGGTCTGGCAC
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	AATCCGAAGCGCAGCGGCTCGCCGACAACCGCGCGGCCGGGTCTGGCAC
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	AATCCGAGGCTGTCCGTGAGGCGGACATGCGTGCCGGGCGGACCTGGATC

<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW0100002.1	AATCCGAGGCTGTCCGTGAGGCGGACATGCGTGCCGGGCGACCTGGATC
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	AATCCGAGGCTGTCCGTGAGGCGGACATGCGTGCCGGGCGACCTGGATC
<i>Arthrobacter sp. EpRS71</i> Accession no: LNUV01000006.1	AATCCGAGGCTGTCCGTGAGGCGGACATGCGTGCCGGGCGACCTGGATC
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	AATCCGAGGCTGTCCGTGAGGCGGACATGCGTGCCGGGCGACCTGGATC
<i>Brevibacterium linens</i> Accession no: CP014869.1	AGTCAGCTGCAACAACGAGATGCGGATCAGTCGAAGGCGCGGACCTGGGTG
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	AGTCAGCTGCAACAACGAGATGCGGATCAGTCGAAGGCGCGGACCTGGGTG
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	AGCTCGAGGGCGTCAGACAAGCGGATGCCGCCATCGGCCGCACCTGGCAC
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	AGCTCGAGGGCGTCAGACAAGCGGATGCCGCCATCGGCCGCACCTGGCAC
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	AGCTCGAGGGCGTCAGACAAGCGGATGCCGCCATCGGCCGCACCTGGCAC
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	AGCTCGAGGGCGTCAGACAAGCGGATGCCGCCATCGGCCGCACCTGGCAC
<i>Kocuria indica</i> Accession no: CP035504.1	AGAAGGCCGCCATGCGGGACGCGGACATGTCCCGGGCGCGCACCTGGGTG
<i>Kocuria flava</i> Accession no: CP013254.1	AGAAGGCCGCCATGCGGGACGCGGACATGTCCCGGGCGCGCACCTGGGTG
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	AGTCCGCGCGCAGCGCGACGCCACCTCCGTGCGCCGGGTCTGGGAG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	AGTCCGCGCGCAGCGCGACGCCACCTCCGTGCGCCGGGTCTGGGAG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	AGTCCGCGCGCAGCGCGACGCCACCTCCGTGCGCCGGGTCTGGGAG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	AGTCCGCGCGCAGCGCGACGCCACCTCCGTGCGCCGGGTCTGGGAG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	AGTCCGCGCGCAGCGCGACGCCACCTCCGTGCGCCGGGTCTGGGAG
<i>Nocardioopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	AGAACCAGGCCAGCGCGACGCCACCTCCGTGCGCCGGGTCTGGCAC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	AGTCCCAGGCCGTCGCGAAGCCGATGCCCGCGCAGGCCGCACCTGGATC
<i>Pseudarthrobacter sp.</i> Accession no: CP041198.1	AATCCGACGCGCTCCGGGAGGCCGATGCGCGGGCCGCCGCACTTGGATC
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	AATCCGACGCGCTCCGGGAGGCCGATGCGCGGGCCGCCGCACTTGGATC
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	AATCCGAGGCGCAGCGCCTCGCGGACAACAGCGTCGGACGCGTGTGGCAC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	AATCCGAGGCGCAGCGCCTCGCGGACAACAGCGTCGGACGCGTGTGGCAC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	AATCCGAGGCGCAGCGCCTCGCGGACAACAGCGTCGGACGCGTGTGGCAC
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	AATCCGAGGCGCAGCGCCTCGCGGACAACAGCGTCGGACGCGTGTGGCAC
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	AATCCGAGGCGCAGCGCCTCGCGGACAACAGCGTCGGACGCGTGTGGCAC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	AGTCGACCGCGAGTCGCTGGCCGACCCGTCGCGGCCGCACCTGGGTG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	AGTCCCAGGCGCGCGGAGAACGACATGGCGCCGGCGCTCGTGGGTG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	AGTCGAGGCCCAGCGGGACGCCACCTCGCGTGGGCCGGGTGTGGCAC
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	AGTCGAGGCCCAGCGGGACGCCACCTCGCGTGGGCCGGGTGTGGCAC
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	AGTCGAGGCCCAGCGGGACGCCACCTCGCGTGGGCCGGGTGTGGCAC
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	AGTCGAGGCCCAGCGGGACGCCACCTCGCGTGGGCCGGGTGTGGCAC
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	ATCACAACCCGGAGTCCCACAACCCGCTCGGCGACCCCGTCGCTACGC
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	ATCACAACCCGGAGTCCCACAACCCGCTCGGCGACCCCGTCGCTACGC
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	ATTTCCAATCCAACGTCGCTGAATCGCCTGGGCGAGCCCGTGGGTACAA
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	ATTTCCAATCCAACGTCGCTGAATCGCCTGGGCGAGCCCGTGGGTACAA
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	ATTTCCAATCCAACGTCGCTGAATCGCCTGGGCGAGCCCGTGGGTACAA
<i>Arthrobacter sp. EpRS71</i> Accession no: LNUV01000006.1	ATTTCCAATCCAACGTCGCTGAATCGCCTGGGCGAGCCCGTGGGTACAA
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	ATTTCCAATCCAACGTCGCTGAATCGCCTGGGCGAGCCCGTGGGTACAA
<i>Brevibacterium linens</i> Accession no: CP014869.1	GTGACAAATCCGGAGTCGACCAACCCGCTCGGCGAACCCGTCGGCTACAA
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	GTGACAAATCCGGAGTCGACCAACCCGCTCGGCGAACCCGTCGGCTACAA
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	GTCTCCAACCCCAATTCCTCAATCGCCTCGGCGAACCCGTCGCTACAA
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	GTCTCCAACCCCAATTCCTCAATCGCCTCGGCGAACCCGTCGCTACAA
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	GTCTCCAACCCCAATTCCTCAATCGCCTCGGCGAACCCGTCGCTACAA
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GTCTCCAACCCCAATTCCTCAATCGCCTCGGCGAACCCGTCGCTACAA
<i>Kocuria indica</i> Accession no: CP035504.1	GTCTCCAGCACCGAGCACACCAACCCGCTGGGCCACCCCGTGGGTACAA
<i>Kocuria flava</i> Accession no: CP013254.1	GTCTCCAGCACCGAGCACACCAACCCGCTGGGCCACCCCGTGGGTACAA
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	GTGCAGAGCGCCTCGCACACGAATGCCGTGGGCCGCGACCCGCTATCA
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GTGCAGAGCGCCTCGCACACGAATGCCGTGGGCCGCGACCCGCTATCA
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GTGCAGAGCGCCTCGCACACGAATGCCGTGGGCCGCGACCCGCTATCA
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GTGCAGAGCGCCTCGCACACGAATGCCGTGGGCCGCGACCCGCTATCA
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GTGCAGAGCGCCTCGCACACGAATGCCGTGGGCCGCGACCCGCTATCA
<i>Nocardioopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	ATCACAACCCGGCTCCCCAACCCGCTCGGCCGCACCTGGCTACGC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	ATCTCCAACCCGAGTCCAAAACCCGCTGGGTGAGCCGTCGGCTACAA

<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	ATCTCCAACCCGGAATCCCGAACCCGGCTGGGCGAACCCGGTGGGCTACAA
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	ATCTCCAACCCGGAATCCCGAACCCGGCTGGGCGAACCCGGTGGGCTACAA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	ATCAGCAACCCGAACAAGCTGAACCGTCTGGGCAAGCCGGTGGCGTACGC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	ATCAGCAACCCGAACAAGCTGAACCGTCTGGGCAAGCCGGTGGCGTACGC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	ATCAGCAACCCGAACAAGCTGAACCGTCTGGGCAAGCCGGTGGCGTACGC
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	ATCAGCAACCCGAACAAGCTGAACCGTCTGGGCAAGCCGGTGGCGTACGC
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	ATCAGCAACCCGAACAAGCTGAACCGTCTGGGCAAGCCGGTGGCGTACGC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GTCAGCAGTTCGACGAGGTGAACCCGGTGGGCAAGCCGGCGCGCTACCA
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GTCTCCAACCCGGCTCGTCAACCCGCTCGGCGAGCCCGTGGCGTACAA
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	ATCTCCAACCCGAGTTCGTCACCTCCCTCGGCGCGCCCGTGGGTACAC
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	ATCTCCAACCCGAGTTCGTCACCTCCCTCGGCGCGCCCGTGGGTACAC
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	ATCTCCAACCCGAGTTCGTCACCTCCCTCGGCGCGCCCGTGGGTACAC
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	ATCTCCAACCCGAGTTCGTCACCTCCCTCGGCGCGCCCGTGGGTACAC
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	ACTCGTCCCAGGGAAGCAACCCGGAAGTCTGCTGCGGACGACGCGTCTGTTCA
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	ACTCGTCCCAGGGAAGCAACCCGGAAGTCTGCTGCGGACGACGCGTCTGTTCA
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GCTGCACCCCTCAGGGCCAACCGATGCTGTGTGGCGGACCCGAATCATCGG
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	GCTGCACCCCTCAGGGCCAACCGATGCTGTGTGGCGGACCCGAATCATCGG
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	GCTGCACCCCTCAGGGCCAACCGATGCTGTGTGGCGGACCCGAATCATCGG
<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV01000006.1	GCTGCACCCCTCAGGGCCAACCGATGCTGTGTGGCGGACCCGAATCATCGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GCTGCACCCCTCAGGGCCAACCGATGCTGTGTGGCGGACCCGAATCATCGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	GCTGCACCCGATGGGCCTGCCACACTGCTCGCCGCCGAGGATACGTCGA
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	GCTGCACCCGATGGGCCTGCCACACTGCTCGCCGCCGAGGATACGTCGA
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	GCTGCACCCGAGGGGCTGCCCGTGTGCTGGCCGACCCGGAGTCTGTCGG
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	GCTGCACCCGAGGGGCTGCCCGTGTGCTGGCCGACCCGGAGTCTGTCGG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	GCTGCACCCGAGGGGCTGCCCGTGTGCTGGCCGACCCGGAGTCTGTCGG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GCTGCACCCGAGGGGCTGCCCGTGTGCTGGCCGACCCGGAGTCTGTCGG
<i>Kocuria indica</i> Accession no: CP035504.1	GCTGCACCCGAGGGGCTGCCACCATGCTGGCCTCGGAGGACTCCTCGA
<i>Kocuria flava</i> Accession no: CP013254.1	GCTGCACCCGAGGGGCTGCCACCATGCTGGCCTCGGAGGACTCCTCGA
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	GCTCGTGCCGACCGACCGCGCTGCTCATGGCGGATCCGGCGTCTCTCCG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	GCTCGTGCCGACCGACCGCGCTGCTCATGGCGGATCCGGCGTCTCTCCG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GCTCGTGCCGACCGACCGCGCTGCTCATGGCGGATCCGGCGTCTCTCCG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GCTCGTGCCGACCGACCGCGCTGCTCATGGCGGATCCGGCGTCTCTCCG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GCTCGTGCCGACCGACCGCGCTGCTCATGGCGGATCCGGCGTCTCTCCG
<i>Nocardiosis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	CCTCCAGCCGAGGGCAAGCCGGTCTGCTCGCCGATCCCGCCTCGTCCG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	ACTCCACGCCGAGAACCCAGCCACGCTGCTGGCTGATCCCGGTTCTCTCCA
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	GCTCCACTCCCACAACCAGCCACGCTGCTCGCCGACCCGGAATCGTCCA
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	GCTCCACTCCCACAACCAGCCACGCTGCTCGCCGACCCGGAATCGTCCA
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	ACTCCACCCGAGGGTTCAGCCGATCTGCTGGCCGACGACGACTCCTCGA
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	ACTCCACCCGAGGGTTCAGCCGATCTGCTGGCCGACGACGACTCCTCGA
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	ACTCCACCCGAGGGTTCAGCCGATCTGCTGGCCGACGACGACTCCTCGA
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	ACTCCACCCGAGGGTTCAGCCGATCTGCTGGCCGACGACGACTCCTCGA
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	ACTCCACCCGAGGGTTCAGCCGATCTGCTGGCCGACGACGACTCCTCGA
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GCTCGTGCCCAAGCCGCTCCGACGCTGCTCGCCGACCCGGACTCGACGA
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GATCCACCCAGGGCCAGCCGACGCTCCTGGCCGACCCGGCGTCTGTCGG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CCTCCACCCGAGGGCAGGCCGACCTGCTCGCCGACCCGGGCTCGTCCA
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CCTCCACCCGAGGGCAGGCCGACCTGCTCGCCGACCCGGGCTCGTCCA
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CCTCCACCCGAGGGCAGGCCGACCTGCTCGCCGACCCGGGCTCGTCCA
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CCTCCACCCGAGGGCAGGCCGACCTGCTCGCCGACCCGGGCTCGTCCA
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	TCCATGCCCCGCCACGTTTCGCCACCAAGCACCTCTGGGTCACCCGCTAC
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	TCCATGCCCCGCCACGTTTCGCCACCAAGCACCTCTGGGTCACCCGCTAC
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	TGGCCAGCGCGCTACATTTGCCACGAAGGACCTGTGGGTCACGCAATTT
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	TGGCCAGCGCGCTACATTTGCCACGAAGGACCTGTGGGTCACGCAATTT

<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	TGGCCAGCGCGCTACATTTGCCACGAAGGACCTGTGGGTCACGCAATTT
<i>Arthrobacter sp. EpRS71</i> Accession no: LNUV01000006.1	TGGCCAGCGCGCTACATTTGCCACGAAGGACCTGTGGGTCACGCAATTT
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	TGGCCAGCGCGCTACATTTGCCACGAAGGACCTGTGGGTCACGCAATTT
<i>Brevibacterium linens</i> Accession no: CP014869.1	TCCATCGCCGCGCCACGTTTCGCGTGAAGTCGCTGTGGGTCTCGCAGTAT
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	TCCATCGCCGCGCCACGTTTCGCGTGAAGTCGCTGTGGGTCTCGCAGTAT
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	TGGCCAGCGCGCGCGGTTTCGCCACCAAGGGCCTCTGGGTCACCCGCTTC
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	TGGCCAGCGCGCGCGGTTTCGCCACCAAGGGCCTCTGGGTCACCCGCTTC
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	TGGCCAGCGCGCGCGGTTTCGCCACCAAGGGCCTCTGGGTCACCCGCTTC
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	TGGCCAGCGCGCGCGGTTTCGCCACCAAGGGCCTCTGGGTCACCCGCTTC
<i>Kocuria indica</i> Accession no: CP035504.1	TCCACCGCCGCGCCGCGTTTCGCCACCAAGGCCCTGTGGGTCACCCCGTAC
<i>Kocuria flava</i> Accession no: CP013254.1	TCCACCGCCGCGCCGCGTTTCGCCACCAAGGCCCTGTGGGTCACCCCGTAC
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	TCGCGGGCGCGCGCGGTTTCGCGACCAAGCACCTCTGGGCCACCCGCGCAC
<i>Microbacterium oxydans</i> Accession no:CP031422.1	TCGCGGGCGCGCGCGGTTTCGCGACCAAGCACCTCTGGGCCACCCGCGCAC
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	TCGCGGGCGCGCGCGGTTTCGCGACCAAGCACCTCTGGGCCACCCGCGCAC
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	TCGCGGGCGCGCGCGGTTTCGCGACCAAGCACCTCTGGGCCACCCGCGCAC
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	TCGCGGGCGCGCGCGGTTTCGCGACCAAGCACCTCTGGGCCACCCGCGCAC
<i>Nocardioopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	TGGCCGCGCGCGCCGCTTCGCCACCAAGGCCACCTGTGGGTGACCCGCTAC
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	TTGCGAAGCGTGCGGCTTTTCGCCACCAAGGACGATGGGTACCCGCTAT
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	TCGCCGCGCGTGCCGCTTCGCCACCAAGGACCTGTGGGTTACCCGCTAC
<i>Pseudarthrobacter chlorophenolicus A6</i> Accession no: CP001341.1	TCGCCGCGCGTGCCGCTTCGCCACCAAGGACCTGTGGGTTACCCGCTAC
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	TCGCCGCGCGGGCGACGTTTCGCCACCAAGCACCTGTGGGTCACCCAGTTC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	TCGCCGCGCGGGCGACGTTTCGCCACCAAGCACCTGTGGGTCACCCAGTTC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	TCGCCGCGCGGGCGACGTTTCGCCACCAAGCACCTGTGGGTCACCCAGTTC
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	TCGCCGCGCGGGCGACGTTTCGCCACCAAGCACCTGTGGGTCACCCAGTTC
<i>Rhodococcus sp.SC4 SC4</i> Accession no: LSBM01000283.1	TCGCCGCGCGGGCGACGTTTCGCCACCAAGCACCTGTGGGTCACCCAGTTC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	TCGCCGCGCGCGCGGTTTCGCGTCCCGACACCTGTGGGTGACCCGCTTC
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	TCGCCGCGCGCGCGGTTTCGCGACCAAGGCCCTCTGGGTGACCCGCTAC
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	TCGCCGCGCGCGCGCCTTCGCCACCCGGCATCTGTGGGTCACCCGCTAC
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	TCGCCGCGCGCGCGCCTTCGCCACCCGGCATCTGTGGGTCACCCGCTAC
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	TCGCCGCGCGCGCGCCTTCGCCACCCGGCATCTGTGGGTCACCCGCTAC
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	TCGCCGCGCGCGCGCCTTCGCCACCCGGCATCTGTGGGTCACCCGCTAC
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	GACCCGCGCGAGCGCTACGCGGCAGGCGACTTCGTCAACCAGCAGCCCGG
<i>Amycolatopsis japonica strain MG417-CF17</i> Accession no: CP008953.1	GACCCGCGCGAGCGCTACGCGGCAGGCGACTTCGTCAACCAGCAGCCCGG
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	TCCGAGGATGAGCGCTACCCACGGGTGACTTTGTCAACCAGCAGCGCGG
<i>Arthrobacter sp. 31Y K253DRAFT</i> Accession no: JAFW01000002.1	TCCGAGGATGAGCGCTACCCACGGGTGACTTTGTCAACCAGCAGCGCGG
<i>Arthrobacter sp. M2012083</i> Accession no: NZ_AKKK01000062.1	TCCGAGGATGAGCGCTACCCACGGGTGACTTTGTCAACCAGCAGCGCGG
<i>Arthrobacter sp. EpRS71</i> Accession no: LNUV01000006.1	TCCGAGGATGAGCGCTACCCACGGGTGACTTTGTCAACCAGCAGCGCGG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	TCCGAGGATGAGCGCTACCCACGGGTGACTTTGTCAACCAGCAGCGCGG
<i>Brevibacterium linens</i> Accession no: CP014869.1	CACGAGGACGAACGCTATCCGACCCGGGACTTCCCGAATCAGCATCCCGG
<i>Brevibacterium sp. YB235</i> Accession no: CP050153.1	CACGAGGACGAACGCTATCCGACCCGGGACTTCCCGAATCAGCATCCCGG
<i>Cryobacterium flavum strain Hh8</i> Accession no: SOFD01000024.1	GCCGAAGACGAACGCTATCCACCCGGTGACTTCGTCAACCAGCAGCGCGG
<i>Cryobacterium sp. MLB32 c47</i> Accession no: JPRS01000047.1	GCCGAAGACGAACGCTATCCACCCGGTGACTTCGTCAACCAGCAGCGCGG
<i>Cryobacterium luteum strain Hh15</i> Accession no: SOFF01000030.1	GCCGAAGACGAACGCTATCCACCCGGTGACTTCGTCAACCAGCAGCGCGG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GCCGAAGACGAACGCTATCCACCCGGTGACTTCGTCAACCAGCAGCGCGG
<i>Kocuria indica</i> Accession no: CP035504.1	GAGGAGTCCGAGCGGTACCCACCCGGCGACTTCCCCAACCAGCAGCGCGG
<i>Kocuria flava</i> Accession no: CP013254.1	GAGGAGTCCGAGCGGTACCCACCCGGCGACTTCCCCAACCAGCAGCGCGG
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	CGCGAGGGCGAGCTGTGGCCCGCGCGCGCTATCCGAACCGCACCAGGG
<i>Microbacterium oxydans</i> Accession no:CP031422.1	CGCGAGGGCGAGCTGTGGCCCGCGCGCGCTATCCGAACCGCACCAGGG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CGCGAGGGCGAGCTGTGGCCCGCGCGCGCTATCCGAACCGCACCAGGG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CGCGAGGGCGAGCTGTGGCCCGCGCGCGCTATCCGAACCGCACCAGGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CGCGAGGGCGAGCTGTGGCCCGCGCGCGCTATCCGAACCGCACCAGGG
<i>Nocardioopsis sp. NRRL B-16309</i> Accession no: LGEC01000081.1	GATCCCGCGAGCGCTACCCGCGGGGCGACTTCGTCAACCAGCAGCCCGG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	GCCGACGAGGAACGCTACCCACCCGGGCGACTTCGTGAACCAGCACTCCGG
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	GCCGAGGAGGAGCGCTACCCACCCGGGCGACTTCGTGAACCAGCACTCCGG

<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	GCCGAGGAGGAGCGCTACCCACGGGCGACTTCGTGAACCAGCACTCCGG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GACGAGAAGGAGCGTTACGCGGCAGGGGATTCGTGAACCAGCACGCGGG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GACGAGAAGGAGCGTTACGCGGCAGGGGATTCGTGAACCAGCACGCGGG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GACGAGAAGGAGCGTTACGCGGCAGGGGATTCGTGAACCAGCACGCGGG
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	GACGAGAAGGAGCGTTACGCGGCAGGGGATTCGTGAACCAGCACGCGGG
<i>Rhodococcus sp.</i> SC4 SC4 Accession no: LSBM01000283.1	GACGAGAAGGAGCGTTACGCGGCAGGGGATTCGTGAACCAGCACGCGGG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CACGAGGACGAGCGCTACCCGCGGGCGAGTACCCCGACCAGCACCCCGG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GACGAGGCGGAGCGGTACCCACGGGCGACTTCGTGAACCAGCACCCCGG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GATCCCGCCGAGCGCTACCCCGCCGGCGACTTCGTCAACCAGCATCCCGG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GATCCCGCCGAGCGCTACCCCGCCGGCGACTTCGTCAACCAGCATCCCGG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GATCCCGCCGAGCGCTACCCCGCCGGCGACTTCGTCAACCAGCATCCCGG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GATCCCGCCGAGCGCTACCCCGCCGGCGACTTCGTCAACCAGCATCCCGG
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	TGGCGCCGGGCTGCCCGCCTACGTGGCCGGTGAC---CGCGAC-----C
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	TGGCGCCGGGCTGCCCGCCTACGTGGCCGGTGAC---CGCGAC-----C
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	CGGCGCGGGCTGCCCGCTTACATGCGCGCAAC---CGAGAG-----T
<i>Arthrobacter sp.</i> 31Y K253DRAFT Accession no: JAFW01000002.1	CGGCGCGGGCTGCCCGCTTACATGCGCGCAAC---CGAGAG-----T
<i>Arthrobacter sp.</i> M2012083 Accession no: NZ_AKKK01000062.1	CGGCGCGGGCTGCCCGCTTACATGCGCGCAAC---CGAGAG-----T
<i>Arthrobacter sp.</i> EprS71 Accession no: LNUV01000006.1	CGGCGCGGGCTGCCCGCTTACATGCGCGCAAC---CGAGAG-----T
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	CGGCGCGGGCTGCCCGCTTACATGCGCGCAAC---CGAGAG-----T
<i>Brevibacterium linens</i> Accession no: CP014869.1	CCACGCGGGACTTCCGCGGTGGACGGCGCGCGAT---CGCAGC-----G
<i>Brevibacterium sp.</i> YB235 Accession no: CP050153.1	CCACGCGGGACTTCCGCGGTGGACGGCGCGCGAT---CGCAGC-----G
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	CGGCGCCGGGCTGCCCGCTTACATGCGCGCGAC---CGAGCG-----A
<i>Cryobacterium sp.</i> MLB32 c47 Accession no: JPRS01000047.1	CGGCGCCGGGCTGCCCGCTTACATGCGCGCGAC---CGAGCG-----A
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	CGGCGCCGGGCTGCCCGCTTACATGCGCGCGAC---CGAGCG-----A
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	CGGCGCCGGGCTGCCCGCTTACATGCGCGCGAC---CGAGCG-----A
<i>Kocuria indica</i> Accession no: CP035504.1	TAACGGCGGCTGCCCGAGTGGACCGCCAGGAC---CGCTCG-----G
<i>Kocuria flava</i> Accession no: CP013254.1	TAACGGCGGCTGCCCGAGTGGACCGCCAGGAC---CGCTCG-----G
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	CGGGTGGGCTGCCCGAGTACTCCGCGAGCGACGCCCCCTTGGACGGCC
<i>Microbacterium oxydans</i> Accession no:CP031422.1	CGGGTGGGCTGCCCGAGTACTCCGCGAGCGACGCCCCCTTGGACGGCC
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CGGGTGGGCTGCCCGAGTACTCCGCGAGCGACGCCCCCTTGGACGGCC
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CGGGTGGGCTGCCCGAGTACTCCGCGAGCGACGCCCCCTTGGACGGCC
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CGGGTGGGCTGCCCGAGTACTCCGCGAGCGACGCCCCCTTGGACGGCC
<i>Nocardiosis sp.</i> NRRL B-16309 Accession no: LGEC01000081.1	CGGCGCCGGGCTGCCCGCTTACGCGCCGCGCGAC---CGCGAC-----C
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	CGGCGCCGGGTTGCCCGCTTATGTGGCCAGGAC---CGCGAC-----A
<i>PseudArthrobacter sp.</i> Accession no: CP041198.1	CGGCGCCGGGCTCCCGCTTACGTGGCACAGGAC---CGGGAC-----A
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	CGGCGCCGGGCTCCCGCTTACGTGGCACAGGAC---CGGGAC-----A
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	TGGCGCCGGGCTGCCCGCTTTCGTGGCCGGCGAT---CGGGAT-----C
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	TGGCGCCGGGCTGCCCGCTTTCGTGGCCGGCGAT---CGGGAT-----C
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	TGGCGCCGGGCTGCCCGCTTTCGTGGCCGGCGAT---CGGGAT-----C
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	TGGCGCCGGGCTGCCCGCTTTCGTGGCCGGCGAT---CGGGAT-----C
<i>Rhodococcus sp.</i> SC4 SC4 Accession no: LSBM01000283.1	TGGCGCCGGGCTGCCCGCTTTCGTGGCCGGCGAT---CGGGAT-----C
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	TGGCGCGGGGCTGCCCGCTTGGCCCGCGAGGAC---CGCCCG-----C
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GGGAGCCGGGCTGCCCGCTTACAGACCCAGGAC---CGCGAC-----C
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CGGCGCGGGTCTGCCCGCTTACAGCCGCGGAC---CGTTCG-----C
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CGGCGCGGGTCTGCCCGCTTACAGCCGCGGAC---CGTTCG-----C
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CGGCGCGGGTCTGCCCGCTTACAGCCGCGGAC---CGTTCG-----C
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CGGCGCGGGTCTGCCCGCTTACAGCCGCGGAC---CGTTCG-----C
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<i>Amycolatopsis thermoflava</i> N1165 Accessionn no: NZ_KI421511.1	TCGACGGGCGAGACCTCGTCTGTGGCACACCTTCGGCCTCAGCACTTC
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	TCGACGGGCGAGACCTCGTCTGTGGCACACCTTCGGCCTCAGCACTTC
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	TGGACGGGTGAGGACCTGGTGGTGTGGCACACCTTTGGCCTGACTCACTTC
<i>Arthrobacter sp.</i> 31Y K253DRAFT Accession no: JAFW01000002.1	TGGACGGGTGAGGACCTGGTGGTGTGGCACACCTTTGGCCTGACTCACTTC
<i>Arthrobacter sp.</i> M2012083 Accession no: NZ_AKKK01000062.1	TGGACGGGTGAGGACCTGGTGGTGTGGCACACCTTTGGCCTGACTCACTTC

<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV0100006.1	TGGACGGTGAGGACCTGGTGGTGTGGCACACCTTTGGCCTGACTCACTTC
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	TGGACGGTGAGGACCTGGTGGTGTGGCACACCTTTGGCCTGACTCACTTC
<i>Brevibacterium linens</i> Accession no: CP014869.1	TCGACGGTGAGGAGATCGTGGTCTGGCACAGCTTCGGTCTCAGCACTTC
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	TCGACGGTGAGGAGATCGTGGTCTGGCACAGCTTCGGTCTCAGCACTTC
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	TCGACGGCGAGGACATCGTGTCTGGCATACTTCGGCCTCACCACCTTT
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	TCGACGGCGAGGACATCGTGTCTGGCATACTTCGGCCTCACCACCTTT
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	TCGACGGCGAGGACATCGTGTCTGGCATACTTCGGCCTCACCACCTTT
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	TCGACGGCGAGGACATCGTGTCTGGCATACTTCGGCCTCACCACCTTT
<i>Kocuria indica</i> Accession no: CP035504.1	TGGACGGCACGGACATCGTGGTGTGGCACACCTTCGGGCTCACCACCTTC
<i>Kocuria flava</i> Accession no: CP013254.1	TGGACGGCACGGACATCGTGGTGTGGCACACCTTCGGGCTCACCACCTTC
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	CTGATGGCGCCGACCTCGTGTCTGGCACACGTTTCGGACTCAGCACTTC
<i>Microbacterium oxydans</i> Accession no:CP031422.1	CTGATGGCGCCGACCTCGTGTCTGGCACACGTTTCGGACTCAGCACTTC
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CTGATGGCGCCGACCTCGTGTCTGGCACACGTTTCGGACTCAGCACTTC
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CTGATGGCGCCGACCTCGTGTCTGGCACACGTTTCGGACTCAGCACTTC
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CTGATGGCGCCGACCTCGTGTCTGGCACACGTTTCGGACTCAGCACTTC
<i>Nocardiosis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	TGGACGGCCGGACCTGGTGGTGTGGCACACCTTCGGCTGACGACGG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	TCGACGGCCAGGACATCGTCTCTGGCACACCTTCGGCCTCACTCACTTC
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	TCGACGGCCAGGACATCGTGGTGTGGCACACCTTTGGCCTGACCCACTTC
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	TCGACGGCCAGGACATCGTGGTGTGGCACACCTTTGGCCTGACCCACTTC
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	TGGAGAACGAAGACGTCGTGTCTGGCACACGTTTCGGCCTCAGCACTTC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	TGGAGAACGAAGACGTCGTGTCTGGCACACGTTTCGGCCTCAGCACTTC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	TGGAGAACGAAGACGTCGTGTCTGGCACACGTTTCGGCCTCAGCACTTC
<i>Rhodococcus wratislaviensis</i> Accession no:BHYM01000005.1	TGGAGAACGAAGACGTCGTGTCTGGCACACGTTTCGGCCTCAGCACTTC
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	TGGAGAACGAAGACGTCGTGTCTGGCACACGTTTCGGCCTCAGCACTTC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	TGGTGGACGAGGACGTCGTGTCTGGCACGTTTTTCGGCCCCACCCACTTG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	TCGACGGGACCGACCTCGTGTGTGGCACACGTTTCGGCCTGACCCACTTC
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	TGGACGGCCGGTCGCTCGTGTGTGGCACACCTTCGGCCTCAGCACGCA
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	TGGACGGCCGGTCGCTCGTGTGTGGCACACCTTCGGCCTCAGCACGCA
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	TGGACGGCCGGTCGCTCGTGTGTGGCACACCTTCGGCCTCAGCACGCA
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	TGGACGGCCGGTCGCTCGTGTGTGGCACACCTTCGGCCTCAGCACGCA
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	CCCCGCCGGAGGACTGGCCGATCATGCCGGTCGACTACACCGGCTTCAA
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	CCCCGCCGGAGGACTGGCCGATCATGCCGGTCGACTACACCGGCTTCAA
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	CCCCGCTTGAAAGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	CCCCGCTTGAAAGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	CCCCGCTTGAAAGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Arthrobacter</i> sp. EpRS71 Accession no: LNUV01000006.1	CCCCGCTTGAAAGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	CCCCGCTTGAAAGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Brevibacterium linens</i> Accession no: CP014869.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPRS01000047.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Kocuria indica</i> Accession no: CP035504.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Kocuria flava</i> Accession no: CP013254.1	CCGCGGTCGAGGACTGGCCGATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Microbacterium azadirachtae</i> Accession no: JYIX 01000018.1	CCGCGCCGGAGGACTGGCCCATCATGCCGGTCGACACCGGGCTTCGC
<i>Microbacterium oxydans</i> Accession no:CP031422.1	CCGCGCCGGAGGACTGGCCCATCATGCCGGTCGACACCGGGCTTCGC
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	CCGCGCCGGAGGACTGGCCCATCATGCCGGTCGACACCGGGCTTCGC
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	CCGCGCCGGAGGACTGGCCCATCATGCCGGTCGACACCGGGCTTCGC
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	CCGCGCCGGAGGACTGGCCCATCATGCCGGTCGACACCGGGCTTCGC
<i>Nocardiosis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	CCCCGCCGGAGGACTGGCCGATCATGCCGGTCGACACCGGCTTCAA
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	CCGCGGTCGAGGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA
<i>PseudArthrobacter</i> sp. Accession no: CP041198.1	CCGCGGTCGAGGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	CCGCGGTCGAGGACTGGCCCATCATGCCGGTCGACACCGTGGGCTTCAA

<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	CCGCGACCCGAGGACTGGCCGATCATGCCCGTCGACTACACCGGATTAC
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	CCGCGACCCGAGGACTGGCCGATCATGCCCGTCGACTACACCGGATTAC
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	CCGCGACCCGAGGACTGGCCGATCATGCCCGTCGACTACACCGGATTAC
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	CCGCGACCCGAGGACTGGCCGATCATGCCCGTCGACTACACCGGATTAC
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	CCGCGACCCGAGGACTGGCCGATCATGCCCGTCGACTACACCGGATTAC
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	CCCCGCCCGGAGGACTGGCCGGTCATGCCGGTCGATTACAGCGGATTAC
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	CCGCGCCCGGAGGACTGGCCCATCATGCCGGTCGACACGTGGGCTTCAA
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	CCCCGGCCGGAGGACTGGCCGATCATGCCCGTCGACACGGGCTTCAA
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	CCCCGGCCGGAGGACTGGCCGATCATGCCCGTCGACACGGGCTTCAA
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	CCCCGGCCGGAGGACTGGCCGATCATGCCCGTCGACACGGGCTTCAA
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	CCCCGGCCGGAGGACTGGCCGATCATGCCCGTCGACACGGGCTTCAA
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<i>Amycolatopsis thermoflava</i> N1165 Accession no: NZ_KI421511.1	GCTCAAACCCGGTCGGGTTCTTCGACCGCAACCCCGCCCTCGACGTGCCGC
<i>Amycolatopsis japonica</i> strain MG417-CF17 Accession no: CP008953.1	GCTCAAACCCGGTCGGGTTCTTCGACCGCAACCCCGCCCTCGACGTGCCGC
<i>Arthrobacter alpinus</i> ERGS4 Accession no: CP013200.1	GCTCCGCCCGAGGGGTTCTTTGACCGCAGCCCGTCTGGACGTGCCAG
<i>Arthrobacter</i> sp. 31Y K253DRAFT Accession no: JAFW01000002.1	GCTCCGCCCGAGGGGTTCTTTGACCGCAGCCCGTCTGGACGTGCCAG
<i>Arthrobacter</i> sp. M2012083 Accession no: NZ_AKKK01000062.1	GCTCCGCCCGAGGGGTTCTTTGACCGCAGCCCGTCTGGACGTGCCAG
<i>Arthrobacter</i> sp. EPRS71 Accession no: LNUV01000006.1	GCTCCGCCCGAGGGGTTCTTTGACCGCAGCCCGTCTGGACGTGCCAG
<i>Arthrobacter crystallopoietes</i> Accession no: AB240436.1	GCTCCGCCCGAGGGGTTCTTTGACCGCAGCCCGTCTGGACGTGCCAG
<i>Brevibacterium linens</i> Accession no: CP014869.1	GCTGCGCCCGAAGGATTCCTTCGACCGCTCCCTGTCTCGACGTCCCT
<i>Brevibacterium</i> sp. YB235 Accession no: CP050153.1	GCTGCGCCCGAAGGATTCCTTCGACCGCTCCCTGTCTCGACGTCCCT
<i>Cryobacterium flavum</i> strain Hh8 Accession no: SOFD01000024.1	GCTGCGCCCGACGGTTCCTTCGACCGCAGCCAGTCTGGACGTCCCG
<i>Cryobacterium</i> sp. MLB32 c47 Accession no: JPERS01000047.1	GCTGCGCCCGACGGTTCCTTCGACCGCAGCCAGTCTGGACGTCCCG
<i>Cryobacterium luteum</i> strain Hh15 Accession no: SOFF01000030.1	GCTGCGCCCGACGGTTCCTTCGACCGCAGCCAGTCTGGACGTCCCG
<i>Cryobacterium roopkundense</i> Accession no: JPXF01000060.1	GCTGCGCCCGACGGTTCCTTCGACCGCAGCCAGTCTGGACGTCCCG
<i>Kocuria indica</i> Accession no: CP035504.1	GCTGCGCCCGAGGGTTCCTTCGACCGCTCCCGGTCTGGACGTCCCG
<i>Kocuria flava</i> Accession no: CP013254.1	GCTGCGCCCGAGGGTTCCTTCGACCGCTCCCGGTCTGGACGTCCCG
<i>Microbacterium azadirachtae</i> Accession no: JYIX_01000018.1	GTTCGCCCTACGGTTCCTTCGACCGAACCAGGGCATGGACGTGCCGG
<i>Microbacterium oxydans</i> Accession no: CP031422.1	GTTCGCCCTACGGTTCCTTCGACCGAACCAGGGCATGGACGTGCCGG
<i>Microbacterium trichothecenolyticum</i> Accession no: JYJA01000039.1	GTTCGCCCTACGGTTCCTTCGACCGAACCAGGGCATGGACGTGCCGG
<i>Microbacterium foliorum</i> Accession no: JYIU01000019.1	GTTCGCCCTACGGTTCCTTCGACCGAACCAGGGCATGGACGTGCCGG
<i>Microbacterium mangrove</i> Accession no: JTDK01000001.1	GTTCGCCCTACGGTTCCTTCGACCGAACCAGGGCATGGACGTGCCGG
<i>Nocardiosis</i> sp. NRRL B-16309 Accession no: LGEC01000081.1	GCTGCGCCCGTTCGGTTCCTTCGACCGCAACCCACCCTGGACGTCCCG
<i>Paenarthrobacter aurescens</i> Accession no: CP000474.1	ACTCGTCCGGAAGGCTTCCTTTGACCGCAGCCCGTCTGGACGTCCCG
<i>Pseudarthrobacter</i> sp. Accession no: CP041198.1	GCTCCGCCAGAGGGTTCCTTCGACCGCAGCCCGTCTGGACGTCCCG
<i>Pseudarthrobacter chlorophenolicus</i> A6 Accession no: CP001341.1	GCTCCGCCAGAGGGTTCCTTCGACCGCAGCCCGTCTGGACGTCCCG
<i>Rhodococcus jostii</i> RHA1 Accession no: CP000431.1	GTTGAAGCCCAACGGTTCCTTCGATCGCAACCCCGTCTCGACGTCCCG
<i>Rhodococcus opacus</i> 1CP Accession no: CP009111.1	GTTGAAGCCCAACGGTTCCTTCGATCGCAACCCCGTCTCGACGTCCCG
<i>Rhodococcus ruber</i> Accession no: CCSD01000085.1	GTTGAAGCCCAACGGTTCCTTCGATCGCAACCCCGTCTCGACGTCCCG
<i>Rhodococcus wratislaviensis</i> Accession no: BHYM01000005.1	GTTGAAGCCCAACGGTTCCTTCGATCGCAACCCCGTCTCGACGTCCCG
<i>Rhodococcus</i> sp.SC4 SC4 Accession no: LSBM01000283.1	GTTGAAGCCCAACGGTTCCTTCGATCGCAACCCCGTCTCGACGTCCCG
<i>Saccharothrix espanaensis</i> Accession no: He804045.1	GTTCAAGCCGCTGGATTCCTGGACCGCAATCCACGCTCGACGTCCCG
<i>Sinomonas atrocyanea</i> Accession no: CP014518.1	GATCCGCCCGAGGGTTCCTTCGACCGCAACCCCGTCTCGACGTCCCG
<i>Streptomyces ossamyceticus</i> Accession no: NZ_RJKY01000001.1	GCTCACCCCGACCGGTTCTTCGACCGCAACCCGACGTTGGACGTCCCG
<i>Streptomyces fulvoviolaceus</i> Accession no: NZ_JOEY01000080.1	GCTCACCCCGACCGGTTCTTCGACCGCAACCCGACGTTGGACGTCCCG
<i>Streptomyces torulosus</i> Accession no: NZ_LIRK01000041.1	GCTCACCCCGACCGGTTCTTCGACCGCAACCCGACGTTGGACGTCCCG
<i>Streptomyces xylophagus</i> Accession no: NZ_JNW001000006.1	GCTCACCCCGACCGGTTCTTCGACCGCAACCCGACGTTGGACGTCCCG
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