

Supplementary Material 1. 16S rRNA gene sequence of 11 *Streptomyces* spp. and 2 *Kitasatospora* sp. used in this study> *Streptomyces* sp. C2-1

CCGGCTTCAGGGTGTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCGGGAACGTATTC
ACCGCAGCAATGCTGATCTGCGATTACTAGCGACTCCGACTTCATGGGGTCGAGTTGCAGACCCCAAT
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GTAGCACGTGTGCAGCCCAAGACATAAGGGGCATGATGACTTGACGTCGTCCCCACCTTCTCCGAGT
TGACCCCGGCGGTCTCCTGTGAGTCCCATCACCCCGAAGGGCATGCTGGCAACACAGGACAAGGGTT
GCGCTCGTTGCGGGACTTAACCCAACATCTCACGACACGAGCTGACGACAGCCATGCACCACCTGTAT
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CAGACCCGAGTTAAGCCTCGGGCTTTCACATCCGACGTGACAAGCCGCCTACGAGCTCTTACGCC
AATAATTCCGACAACGTTGCGCCCTACGTATTACCGCGGTGCTGGCACGTAGTTAGCCGGCGCTT
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TGGTGGGCCATTACCCACCAACAAGCTGATAGGCCGCGGGCTCATCCTTACCCGCCGGAGCTTCAA
CCCCYRCCCATGCGGGCAGGAGTGGTATCCGGTATTAGACCCCGTTTCCAGGGCTTGTCCAGAGTGA
AGGGCAGATTGCCACGTGTTACTCACCCGTTCCGCACTAATCCACCCGAAGGGCTTCATCGTTCGA
CTTGCAATGTGTTAAGCACGCCGCCAGCGTTTCGTCTGAGCC

> *Kitasatospora* sp. C2-2

GGCTCCTCCCCTTACGGGTAGGCCACCGCTTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGT
GTGTACAAGGCCCGGGAACGTATTCACCGCAGCATGCTGATCTGCGATTACTAGCAACTCCAATTCA
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TCGCAGCCCTTTGTACCGACCATTTGTAGCACGTGTGCAGCCCAAGACATAAGGGGCATGATGATTTGA
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GTCAAGCCTTGGTAAGGTTCTTTCGCTTTCGCTCGAATTAAGCCACATGCTCCGCTTGTGCGGGCC
CCCGTCAATTCTTTGAGTTTACGCTTTCGCGCCGTAATCCCGAGGCGGGAACTTAATGCGTTAGCT
GCGGCACCGACGAGTGAATGTGCGCAACACCTAGTTCCCAACGTTTACGGCGTGGACTACCAGGGT
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CCACCGGTGTTCTCCTGATATCTGCGCATTTACCGCTACACCAGGAATTCGGATCTCCCTACCAC
ACTCTAGCCTGCCCGTATCGAATGCAGACCCGGGGTTGAGCCCGGGCTTTCACATCCGACGCGACAG
GCCGCTACGAGCTCTTACGCCCAATAATTCCGACAACGCTCGCACCCCTACGTATTACCGCGGCTG
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TTTCCAGGGCTTGTCCAGAGTGCAGGGCAGATTGCCACGTGTTACTCACCCGTTTCGCCACTGATCC
ACCCCGAAGGGCTTACCGTTTCGACTTGCATGTGTTAAGCACGCCGCCAGCGTTTCGTCTGAG

> *Streptomyces* sp. C2-4

ACGGGTGCGGCCACCGCTTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCC
GGGAACGTATTCACCGCAGCAATGCTGATCTGCGATTACTAGCGACTCCGACTTCATGGGGTCGAGTT
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GTACCGGCCATTGTAGCACGTGTGCAGCCCAAGACATAAGGGGCATGATGACTTGACGTCGTCCCCAC

CTTCCTCCGAGTTGACCCCGGCGGTCTCCTGTGAGTCCCATCACCCCGAAGGGCATGCTGGCAACAC
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 TCGCTCCCACGCTTTCGCTCCTCAGCGTCAGTAATGGCCAGAGATCCGCCTTCGCCACCGGTGTTT
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 CCGTATCGAATGCAGACCCGAGGTTAAGCCTCGGGCTTTCACATCCGACGTGACAAGCCGCCTACGAG
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 TGTCCCAGAGTGAAGGGCAGATTGCCACGTGTTACTCACCCGTTTCGCCACTAATCCACCCCGAAGGG
 CTTTCATCGTTTCGACTTGCATGTGTTAAGCACGCCCGCCAGCGTTCGTCCTGAGCC

> *Streptomyces* sp. C2-5

TCCCTCCCTTACGGGTTGGGCCACCGGCTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTG
 TACAAGGCCCGGAACGTATTACCGCAGCAATGCTGATCTGCGATTACTAGCGACTCCGACTTCATG
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 CTGGCAACACAGGACAAGGGTTGCGCTCGTTGCGGGACTTAACCCAACATCTCACGACACGAGCTGAC
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 CTAATCCTGTTTCGCTCCCCACGCTTTCGCTCCTCAGCGTCAGTAATGGCCAGAGATCCGCCTTCGCC
 ACCGGTGTTCCTCCTGATATCTGCGCATTTACCGCTACACCAGGAATTCGGATCTCCCCTACCACAC
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 GGCCGGCTACCCGTCGTCGCTTGGTGGGCCATTACCCACCAACAAGCTGATAGGCCGCGGGCTCAT
 CTTTACCGCCGGAGCTTTCAACCCCGCCCATGCAGGCAGGAGTGGTATCCGGTATTAGACCCCGTT
 TCCAGGGCTTGTCCCAGAGTGAAGGGCAGATTGCCACGTGTTACTCACCCGTTTCGCCACTAATCCAC
 CCCGAAGGGCTTCATCGTTTCGACTTGCATGTGTTAAGCACGCCCGCCAGCGTTCGTCCTGAGCC

> *Streptomyces* sp. C3-1

TCCCTTACGGGTTGGGCCACCGGCTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACA
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 CCCCACCTTCCCTCCGAGTTGACCCCGGCGGTCTCCTGTGAGTCCCATCACCCCGAAGGGCATGCTGG
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 GCCATGCACCACCTGTATAACCGACCACAAGGGGGGCACTATCTCTAATGCTTCCGGTATATGTCAAG
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 TCCTGTTTCGCTCCCCACGCTTTCGCTCCTCAGCGTCAGTAATGGCCAGAGATCCGCCTTCGCCACCG
 GTGTTCTCCTGATATCTGCGCATTTACCGCTACACCAGGAATTCGGATCTCCCCTACCACACTCTA

GCTAGCCCGTATCGAATGCAGACCCGAGGTTAAGCCTCGGGCTTTCACATCCGACGTGACAAGCCGCC
 TACGAGCTCTTTACGCCCAATAATTCGGGACAACGCTTGCGCCCTACGTATTACCGCGCTGCTGGCA
 CGTAGTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGAGGTTTAC
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 GGCTACCCGTCGTCGCCTTGGTGGGCCATTACCCACCAACAAGCTGATAGGCCGCGGGCTCATCCTT
 CACCGCCGGAGCTTTCACCCCCACCCATGCGGGCAGGAGTGGTATCCGGTATTAGACCCCGTTTCCA
 GGGCTTGTCCAGAGTGAAGGGCAGATTGCCACGTGTTACTCACCCGTTCCGCTACTAATCCACCCCG
 AAGGGCTTCATCGTTGCATGTGTTAAGCACGCCGCCAGCGTTCGTCCTGAGCC

> *Kitasatospora* sp. C3-2

CTCAGGACGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGTGAAGCCCTTCGGGGTGGATC
 AGTGGCGAACGGGTGAGTAACACGTGGGCAATCTGCCCTGCACTCTGGGACAAGCCCTGGAAACGGGG
 TCTAATACCGGATATGACCTGGGACCGCATGGTCTGGGTGTAAGCTCCGGCGGTGCAGGATGAGCC
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 TTGGAGTTGCTAGTAATCGCAGATCAGCATGCTGCGGTGAATACGTTCCCGGCCCTTGTACACCCCG
 CCGTACGTCACGAAAGTCGGTAACACCCGAAGCCGGTGGCCTAACCCGTAAGGGGAGGAGCCGTCG

> *Streptomyces* sp. C3-3

TGTTACCGACTTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCGGGAACGTATTACCGCAGCAATG
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 CGGCTTTTTGAGATTTCGCTCCGCCCTCGCGGCATCGCAGCTCATTGTACCGGCCATTGTAGCACGTGTG
 CAGCCCAAGACATAAGGGGCATGATGACTTGACGTCGTCGCCACCTTCCTCCGAGTTGACCCCGGCAG
 TCTCCTGTGAGTCCCATCACCCCGAAGGGCATGCTGGCAACACAGAACAAGGGTTGCGCTCGTTGCG
 GGACTTAACCCAACATCTCACGACACGAGCTGACGACAGCCATGCACCACCTGTATAACCGACCACAAG
 GGGGACCATCTCTGATGCTTTCGGTATATGTCAAGCCTTGGTAAGGTTCTTCGCGTTGCGTCGAA
 TTAAGCCACATGCTCCGCTGCTTGTGCGGGCCCCGTC AATTCCTTTGAGTTTTAGCCTTGCGGCCGT
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 AGCGTCAGTAATGGCCAGAGATCCGCCTTCGCCACCGGTGTTCCCTCCTGATATCTGCGCATTTCACC
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CCACGTGTTACTCACCCGTTCCGCACTAATCCACCCCGAAGGGCTTCATCGTTTCCGACTTGACATGTGTT
AAGCACGCCCGCAGCGTTCGTCTGAGCCA

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CGGCTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCGGGAACGTATTCCAC
CGCAGCAATGCTGATCTGCGATTACTAGCGACTCCGACTTCATGGGGTTCGAGTTGCAGACCCCAATCC
GAACTGAGACCGGCTTTTTGAGATTTCGCTCCACCTCACGGTATCGCAGCTCATTGTACCGGCCATTGT
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TTCGCTCCTCAGCGTCAGTAATGGCCAGAGATCCGCCTTCGCCACCGGTGTTTCTCCTGATATCTGC
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TAATTC : GGACAACGCTTGCGCCCTACGTATTACCGCGGTGCTGGCACGTAGTTAGCCGGCGCTTC
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GGGCAGATTGCCACGTGTTACTCACCCGTTCCGCACTAATCCACCCCGAAGGGCTTCATCGTTCCGAC
TTGCATGTGTTAAGCACGCCGCCAGCGTTCGTCTGAGCCA

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GGGCCACCGCTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCGGGAACG
TATTCACCGCAGCAATGCTGATCTGCGATTACTAGCGACTCCGACTTCATGGGGTTCGAGTTGCAGACC
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CCATTGTAGCACGTGTGCAGCCCAAGACATAAGGGGCATGATGACTTGACGTTCGTCACCTTCCTC
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CGCCCAATAAATCCGGACAACGCTTTCGCCCTACGTATTACCGCGGCTGCTGGCACGTAGTTAGCCGG
CGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGAGGTTTACAACCCGAAGGCCG
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CGTAGGAGTCTGGGCCGTGCTCAGTCCCAGTGTGGCCGGTTCGCCCTCTCAGGCCGGCTACCCGTCGT
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TTCAACCCCCACCCATGCGGGCAGGAGTGGTATCCGGTATTAGACCCCGTTTCCAGGGCTTGTCCAG
AGTGAAGGGCAGATTGCCACGTGTTACTCACCCGTTCCGCACTAATCCACCCCGAAGGGCTTCATCG
TTCGACTTGACATGTGTTAAGCACGCCGCCAGCGTTCGTCTGAGCCA

> *Streptomyces* sp. C3-6

TGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCGGGAACGTATTACCGCAGCAATG
CTGATCTGCGATTACTAGCAACTCCGACTTCATGGGGTTCGAGTTGCAGACCCCAATCCGAACCTGAGAC
CGGCTTTTTGAGATTTCGCTCCGCCCTCGCGGCATCGCAGCTCATTGTACCGGCCATTGTAGCACGTGTG
CAGCCCAAGACATAAGGGGCATGATGACTTGACGTTCGTCACCTTCCTCCGAGTTGACCCCGGCAG

TCTCCTGTGAGTCCCCATCACCCGAAGGGCATGCTGGCAACACAGAACAAGGGTTGCGCTCGTTGCG
 GGACTTAACCCAACATCTCACGACACGAGCTGACGACAGCCATGCACCACCTGTATACCGACCACAAG
 GGGGGCACCATCTCTGATGCTTTCGGTATATGTCAAGCCTTGGTAAGGTTCTTCGCGTTGCGTCGAA
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 ACTCCCAGGCGGGAACTTAATGCGTTAGCTGCGGCACCGACGACGTGGAATGTGCGCAACACCTAG
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 GCTACACCAGGAATCCGATCTCCCTACCACACTCTAGCCTGCCCGTATCGACTGCAGACCCGGGGT
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 GTCGCTGCATCAGGCTTTCGCCCATTGTGCAATATTCCCCTGCTGCCTCCCGTAGGAGTCTGGGCC
 GTGTCTCAGTCCCAGTGTGGCCGGTCCGCTCTCAGGCCGGTACCCGTCGTCGCTTGGTAGGCCAT
 CACCCACCAACAAGCTGATAGGCCGCGGGCTCATCCTTCACCGCCGGAGCTTTTAAACCCCGTCCCAT
 GCGGGACAGAGTGTATCCGGTATTAGACCCCGTTTCAGGGCTTGTCCAGAGTGAAGGGCAGATTG
 CCCAGTGTACTCACCGTTTCGCCACTAATCCACCCGAAGGGCTTCATCGTTTCGACTTGCATGTGT
 TAAGCACGCCCGCCAGCGTTTCGTCTGAGCCA

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CGGGTTGGGCCACCGGCTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCG
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 TTCTCCGAGTTGACCCCGGCGGTCTCCTGTGAGTCCCCATCACCCGAAGGGCATGTGGCAACACA
 GGACAAGGGTTGCGCTCGTTGCGGGACTTAACCCCAACATCTCACGACACGAGCTGACGACAGCCATGC
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 TTGAGTTTTCGCGCTTTCGCGGCTACTCCCCAGGCGGGAACTTAATGCGTTAGCTGCGGCACCGACGA
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 CGCTCCCCACGCTTTTCGCTCCTCAGCGTACGTAATGGCCAGAGATCCGCCTTCGCCACCGGTGTTCC
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 GCCTCCCGTAGGAGTCTGGGCCGTGCTCAGTCCAGTGTGGCCGGTCCGCTCTCAGGCCGGTACC
 CGTCGTCGCTTGGTGGGCCATTACCCACCAACAAGCTGATAGGCCGCGGGCTCATCCTTCACCGCC
 GGAGCTTTCACCCCCACCCATGCGGGCAGGAGTGGTATCCGGTATTAGACCCCGTTTCAGGGCTTG
 TCCAGAGTGAAGGGCAGATTGCCACGTGTTACTCACCGTTTCGCCACTAATCCACCCGAAGGGCT
 TCATCGTTTCGACTTGCATGTGTTAAGCACGCCCGCCAGCGTTTCGTCTGAGCCAGG

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GGCTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCGGGAACGTATTCACC
 GCAGCAATGCTGATCTGCGATTACTAGCAACTCCGACTTCATGGGGTCGAGTTGCAGACCCCAATCCG
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 GCACGTGTGCAGCCCAAGACATAAGGGGCATGATGACTTGACGTGCTCCCCACCTTCTCCGAGTTGA
 CCCCAGGCGTCTCCTGTGAGTCCCCATCACCCGAAGGGCATGTGGCAACACAGAACAAGGGTTGCG
 CTCGTTGCGGGACTTAACCCCAACATCTCACGACACGAGCTGACGACAGCCATGCACCACCTGTATACC
 GACCACAAGGGGGGACCATCTCTGATGCTTTCGGTATATGTCAAGCCTTGGTAAGGTTCTTCGCGT
 TGCGTCGAATTAAGCCACATGCTCCGCTGCTTGTGCGGGCCCCCGTCAATTCCTTTGAGTTTTAGCCT
 TGCGGCCGCTACTCCCCAGGCGGGGAACTTAATGCGTTAGCTGCGGCACCGACGACGTGGAATGTGCC
 AACACCTAGTTCCCAACGTTTACGGCGTGACTACCAGGGTATCTAATCCTGTTTCGCTCCCCACGCTT
 TCGCTCCTCAGCGTACGTAATGGCCAGAGATCCGCCTTCGCCACCGGTGTTCCCTCCTGATATCTGCG
 CATTTCACCGCTACACCAGGAATTCGATCTCCCTACCACACTCTAGCCTGCCCGTATCGACTGCAG

ACCCGGGGTTAAGCCCCGGGCTTTACAACCGACGCAACAAGCCGCCTACGAGCTCTTTACGCCCAAT
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CACGCGGCGTTCGCTGCATCAGGCTTTCGCCATTGTGCAATATTCCCCACTGCTGCCTCCCGTAGGAG
TCTGGGCCGTGTCTCAGTCCCAGTGTGGCCGGTTCGCCCTCTCAGGCCGGCTACCCGTGCTCGCCTTGG
TAGGCCATCACCCACCAACAAGCTGATAGGCCGCGGGCTCATCCTTCACCGCCGGAGCTTTTAACCC
CGTCCCATGCGGGACAGAGTGTTATCCGGTATTAGACCCCGTTTCCAGGGCTTGTCCAGAGTGAAGG
GCAGATTGCCACGTGTTACTCACCCGTTTCGCCACTAATCCACCCCGAAGGGCTTCATCGTTCGACTT
GCATGTGTTAAGCACGCCGCCAGCGTTCGTCTGAGCCA

> *Streptomyces* sp. C3-10

CCACCGGCTTCGGGTGTTACCGACTTTCGTGACGTGACGGGCGGTGTGTACAAGGCCCGGAACGTAT
TCACCGCAGCAATGCTGATCTGCGATTACTAGCAACTCCGACTTCATGGGGTTCGAGTTGCAGACCCCA
ATCCGAACCTGAGACCGGCTTTTTGAGATTTCGCTCCGCCTCGCGGCATCGCAGCTCATTTGTACCGGCCA
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CGCGTTGCGTCGAATTAAGCCACATGCTCCGCTGCTTGTGCGGGCCCCCGTCAATTCCTTTGAGTTTT
AGCCTTGCAGCCGTAATCCCAACGTTTACGGCGTGGACTACCAGGGTATCTAATCCTGTTGCTCCCA
TCGCCAACACCTAGTTCCCAACGTTTACGGCGTGGACTACCAGGGTATCTAATCCTGTTGCTCCCA
CGCTTTCGCTCCTCAGCCTCAGTAATGGCCCAGAGATCCGCCTTCGCCACCGGTGTTCCCTCCTGATAT
CTGCGCATTTACCGCTACACCAGGAATTCGATCTCCCTACCACACTCTAGCCTGCCCCTATCGAC
TGCAGACCCGGGTTAAGCCCCGGGCTTTACAACCGACGCAACAAGCCGCCTACGAGCTCTTTACGC
CCAATAATTCGGACAACGCTTGCGCCCTACGTATTACCGCGGCTGCTGGCACGTAGTTAGCCGGCGC
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TCCCTCACGCGGCGTTCGCTGCATCAGGCTTTCGCCATTGTGCAATATTCCCCACTGCTGCCTCCCGT
AGGAGTCTGGGCCGTGTCTCAGTCCAGTGTGGCCGGTTCGCCCTCTCAGGCCGGCTACCCGTGCTCGC
CTTGGTAGGCATCACCCACCAACAAGCTGATAGGCCGCGGGCTCATCCTTCACCGCCGGAGCTTTT
AACCCCGTCCCATGCGGGACAGAGTGTTATCCGGTATTAGACCCCGTTTCCAGGGCTTGTCCAGAGT
GAAGGGCAGATTGCCACGTGTTACTCACCCGTTTCGCCACTAATCCACCCCGAAGGGCTTCATCGTTC
GACTTGCATGTGTTAAGCACGCCGCCAGCGTTCGTCTGAGCC