LoxP recognizition sequence

Kan resistance

RPL35a Flanking region

cgLuc

Underlined: Restriction sequence to clone GOI

ATAACTTCGTATAATGTATGCTATACGAAGTTATGGTACCGCGGCCGCGTAGAGGATCTGTTGATCAGCAGTTCAACCTG

TTGATAGTACGTACTAAGCTCTCATGTTTCACGTACTAAGCTCTCATGTTTAACGTACTAAGCTCTCATGTTTAACGAAC

TAAACCCTCATGGCTAACGTACTAAGCTCTCATGGCTAACGTACTAAGCTCTCATGTTTCACGTACTAAGCTCTCATGTT

TGAACAATAAAATTAATATAAATCAGCAACTTAAATAGCCTCTAAGGTTTTAAGTTTTATAAGAAAAAAAAGAATATATA

AGGCTTTTAAAGCTTTTAAGGTTTAACGGTTGTGGACAACAAGCCAGGGATGTAACGCACTGAGAAGCCCTTAGAGCCTC

TCAAAGCAATTTTGAGTGACACAGGAACACTTAACGGCTGACATGGGAATTAGCTTCACGCTGCCGCAAGCACTCAGGGC

GCAAGGGCTGCTAAAGGAAGCGGAACACGTAGAAAGCCAGTCCGCAGAAACGGTGCTGACCCCGGATGAATGTCAGCTAC

TGGGCTATCTGGACAAGGGAAAACGCAAGCGCAAAGAGAAAGCAGGTAGCTTGCAGTGGGCTTACATGGCGATAGCTAGA

CTGGGCGGTTTTATGGACAGCAAGCGAACCGGAATTGCCAGCTGGGGCGCCCTCTGGTAAGGTTGGGAAGCCCTGCAAAG

TAAACTGGATGGCTTTCTTGCCGCCAAGGATCTGATGGCGCAGGGGATCAAGATCTGATCAAGAGACAGGATGAGGATCG

TTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGC

ACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCG

ACCTGTCCGGTGCCCTGAATGAACTGCAGGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCCTTGCGCA

GCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATC

TCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCC

CATTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGATCAGGATGATCTG

GACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGT

CGTGACACATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGC

TGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGAC

CGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTG

AGCGGGACTCTGGGGTTCGAAATGACCGACCAAGCGACGCCCAACCTGCCATCACGAGATTTCGATTCCACCGCCGCCTT

CTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGT

TCTTCGCCCACCCCGGGATATCCGGATATAGTTCCTCCTTTCAGCAAAAAACCCCTCAAGACCCGTTTAGAGGCCCCAAG

GGGTTATGCTAGTTATTGCTCAGCGGTGGCAGCAGCCAACTCAGCTTCCTTTCGGGCTTTGTTAGCAGCCGGATCTTCTA

GAATCCCCAGCATGCCTGCTATTGTCTTCCCAATCCTCCCCCTTGCTGTCCTGCCCCACCCCACCCCCCAGAATAGAATG

ACACCTACTCAGACAATGCGATGCAATTTCCTCATTTTATTAGGAAAGGACAGTGGGAGTGGCACCTTCCAGGGTCAAGG

AAGGCACGGGGGAGGGGCAAACAACAGATGGCTGGCAACTAGAAGGCACAGTCGAGGCTGATAGCGAGCTCTACGGTATC

ACCAATGGGCGTCAGCTGCACCCTATGGGACCTCGCCAACCTGCCTGAACCCTGTCCCATCACACACACAAGCATGTTTT

CGCCCCAGTGCCCCCACGTTGCCCGGGAGCAGGGCATGGGTTGGATTGACTGCTTCACCTGCTTCGTACAGCGGTACAGA

TGTGGATACGAAACAGTACGGCAGCCCAACTTTGCTGTGCCGGCTGTGCTCAGACAGACACTAGTTACGAGGACATTCCC

GCCGCACGTTGTAAGGGCCGCCATTCCCTTCACTACGGTATGTAAGGTCCTGGGCACGCTAAGCGGCTCGTAACGGAATT

TGGCGCTTGAATCTGGGCTGCTCCTCTCCCCCCCAATGCGTAGCTGAAACACCCGTCTTGGCAAAGTCGCCATGCATTAC

GAAGCCCGCGCCTGACCTGCCCATCCTCCGCGCCCCCCCCGTCCAAAGCTGTTGCCTGGCGCCGCAGCTAGCCGCACAGC

CCTACAGCCGTAGCTGGGACCATCGCTCGTGCGCCCTATTGCATTTCAAACCCAGCTTGTCTGCAACCTGCCGCACAGCG

GGGACCCTCCCCTTGCTGGCATACGCTGTCTGACGAAAAGCGGGGCCTGCCGGCCGTCCGACCCCCCCACCCTGCCCCAA

ACGCCCGCCCAAGTCTCCAACCCCCGTCCCTGTTTCCGCAGCCCCTTCCTGGCCACGAAGAATGCACGAAGGCCAACCAA

GCAGCCCACCCCCGCACCAAGTCCCACGCATAATGCCGCTCTAAGGAGGCGTAAGCATCCGGCAGGACCCCGCATGCCCT

CCGGCACATGCCTCCTTGACTCCGTTTGGGGCGAGGGCCAACATCCAAGCTTTCCCAGCGCTGCCCCTCTAGGATACATC

ACTATTGGCTTTGCCGCACCAGGTGCGTCCGCGCTCAGCGAGCAGGATGGCGCGAGCAGGCCTTTCGCCTGTTCTGTCAA

GCACTGTGTTCCTTCCTTGGTATCAAGGGTTCTACAAAGGCATTGTTATTCATAGAATGCGTGAGCTGGCGATTCCTGGG

CGCCGCGTGTGAGCAGCGGGAAATCTCGCTCGAGACTGCTGCTGCAGGCTTCCACCAATACTATACGATATGATGTGGCC

ATGACAAGGTCTCTGTATTTTTTCTTAGGCCCCAACAATTCGTTTTGAAGCGCCGTCGTACGCCGCCGCATGCGGAATGG

CCGCCGGTATAGGCTGCGCGCCCGCTTGTTCTCGCCCTCTCCTGTGCCCCTCCCACCCGTTCTTTGCTCCTAGGAAAGTC

AAACATATGGTCGAGATGGGCGTGAAGGTGCTGTTCGCCCTGATCTGCATCGCCGTCGCCGAGGCGAAGCCGACGGAGAA

CAACGAGGACTTCAACATTGTCGCCGTGGCGTCCAACTTTGCCACCACCGATCTGGACGCCGACCGCGGCAAGCTGCCGG

GCAAGAAGCTGCCCCTGGAGGTCCTCAAGGAAATGGAGGCGAACGCCCGGAAGGCCGGCTGCACCCGCGGCTGCCTAATC

TGCCTGTCCCACATCAAGTGCACGCCGAAGATGAAGAAGTTCATTCCCGGCCGGTGCCACACCTACGAGGGCGACAAGGA

GTCCGCGCAGGGCGGCATTGGCGAGGCGATCGTGGACATCCCCGAGATTCCGGGCTTCAAGGACCTGGAGCCGATGGAGC

AGTTCATCGCCCAGGTGGACCTGTGCGTGGACTGCACGACCGGCTGTCTGAAGGGCCTGGCCAATGTGCAGTGTTCCGAC

CTGCTCAAGAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCCAGCAAGATCCAGGGCCAGGTGGACAAGATTAAGGGCGC

TGGCGGCGATACGTAAGGATCCTGGACCGCCGGCGGAGAGCGATGGGCTTGGGAGGCTGTTTCGGGCGGTCGCTGTTGAG

CGGAGCCATGTAACACCGTTTTAGTGCAGAGAAAATTTGCCTCGCCTCGTCGGGTGGGGAAGTTGCTTCCGAAACTTCAG

AGGGGGGACCGGGCGCCGGGGGGGGCGTGCGGGGGTCAGCCCCGCGACGCCCTCAAGCACAGCAGCCCCCCGGCGCCGCC

AGCACTCGGCAGCAGCGCTCAGCGAGCAGCAGCGCATGCAGCCTTTCCTTCTAGCAGCGCGTGTCATTCGTCCTGGCAAC

AGCGTCAGCTGCAGCAGCGTTGCAGTTGTCGGCTTGCTTTCATGGTAGCAGGTGCTGCGGGAGCAGCCTTAACGGCGCAG

CCACATACCGGTGAGTGGGCGGGCGGAGTGGAGTTGTGGCAGGTCGTCGTTGTGCCGGCCTGgGGCCGTGTTTGCGTGTG

GAGGACGTGCTGGTTGCGTTCGGATGCTGTGTGCGATGTGTGCGTGTGCGCGTGCTGGTGGCGTTCGTCGTGGGTGTACT

GGTGTGCCATGGGCGGGCTGGGCGTATTTGAAGCGGGTACCCC