LoxP recognizition sequence

Kan resistance

FDX Flanking región

cgLuc

Underlined: Restriction sequence to clone GOI

FDX1:LUC:FDX1

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

AAGGCACGGGGGAGGGGCAAACAACAGATGGCTGGCAACTAGAAGGCACAGTCGAGGCTGATAGCGAGCTCAGAGGGGTA

ATCCGTGGGGGTAATCGCAGGGACCCGCAAACCCCCCGTCTCGCGCCGAACTTCCGCGGCATATCCCTGGCGACCCCAAT

CGCGACCCACCAACTGGCCTGCATGATGATACTGTGCATGCATGCTGGGGCTCGCACGCCGTCCGAACCCGCGCGCAAAG

CTGGCCCGCGGCCACGAAATCGTGGCATTTGCACTTGCCGGTCCGATTCTACTATGCCGCGCCACGAGCAGCGACGCGCG

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AGAACGCGTAATTGAATGCATGTGTCATTCTGGAAGGGTGTATAGAGCGGTCGAGCGGAAGGCTGTCCAGCTCGCGTGCA

AGCAATTGTCTCGCGACGCCCGCTCCCGACGAGTGCGACCGCCCGCGACCGGGTTCGCTGGTGCAAGTGGCTTCATTAGC

GAGGTTTCGGGCTGGCTGCGGGCCAATGCGAGCGCTGGGCGCAGAGAAAAAGGCGACGTACGGCGATGAAGGCTCCAGGG

CGGATGGGCGAGGGGCAACCGGGATAAATGGTCCTCCTTTCCCCAAGGCCCGCTACACTCTTGACCTTGCTCACGTAGTG

TCCTTCGTCGCCACTCACAACCTTCAAAActcgagATGGGCGTGAAGGTGCTGTTCGCCCTGATCTGCATCGCCGTCGCC

GAGGCGAAGCCGACGGAGAACAACGAGGACTTCAACATTGTCGCCGTGGCGTCCAACTTTGCCACCACCGATCTGGACGC

CGACCGCGGCAAGCTGCCGGGCAAGAAGCTGCCCCTGGAGGTCCTCAAGGAAATGGAGGCGAACGCCCGGAAGGCCGGCT

GCACCCGCGGCTGCCTAATCTGCCTGTCCCACATCAAGTGCACGCCGAAGATGAAGAAGTTCATTCCCGGCCGGTGCCAC

ACCTACGAGGGCGACAAGGAGTCCGCGCAGGGCGGCATTGGCGAGGCGATCGTGGACATCCCCGAGATTCCGGGCTTCAA

GGACCTGGAGCCGATGGAGCAGTTCATCGCCCAGGTGGACCTGTGCGTGGACTGCACGACCGGCTGTCTGAAGGGCCTGG

CCAATGTGCAGTGTTCCGACCTGCTCAAGAAGTGGCTGCCCCAGCGCTGTGCCACCTTCGCCAGCAAGATCCAGGGCCAG

GTGGACAAGATTAAGGGCGCTGGCGGCGATACGTAAGGATCCGCGCTTTCGCCATCTGCGGGGGTCGTAGGCTAGAACTG

GGGTTGGGGATCGGGCTGCTTGCATAGCCAAGCAATTTTCCATCTGGCCAGCAATGGCCTAGCACTATGAGCGGTTCAAG

TGTCTCTTGTGTGTTGTGTCGCATTGCATGGCCGTGGTGACCTGCAATTTTCTGTAACCGGACATGCAGAAGCTTCGGTT

CGCGTCCTTTCCTCGCTTGCTACGGGATCGGGAGTCGGCAGGGCTAGAAGACTTGGGTAACACGCGCAATTCAGCAATAC

AGGCCAGCCAGGGCAGCGAAGGGGGACTTCAGCAAGGACCTCTCGGGAATAGTGGAAGAGCTAGGAGGGGTACAGCAGTA

GAGATCGAGGGGTCCAGCTCACAGTTCTATTACGTCGTTCGTGGGGACGAACTGGGTCGAGGCGCTACGGACTCGAAATG

ACGGCAGAGGGTGGCAAGGAAGGGGAGCACCACTGTGAGCAGTTGCAGCGGCACATACACTACGTCTCTTGGCCTTAAGC

ACAGCCAGCACACTTGTACGGGGCAACAGTAGCCCCGAAGCAGCCTGATGCAGTCACACCGTGCCGGGCCAGTGTTAACA

AGGAAGGGCAGGCACCAGGGCGAGGGCAGGCGCGGCAAAACTCGCCGGTTCCTGACACGGTGACACGCAGGTATACGGTG

ACAGCTCAGCTAGTGATACCAGCTGCTCCGCGTTCTGAGGAGAGCCATGGGCGGGCTGGGCGTATTTGAAGCGGGTACCC

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