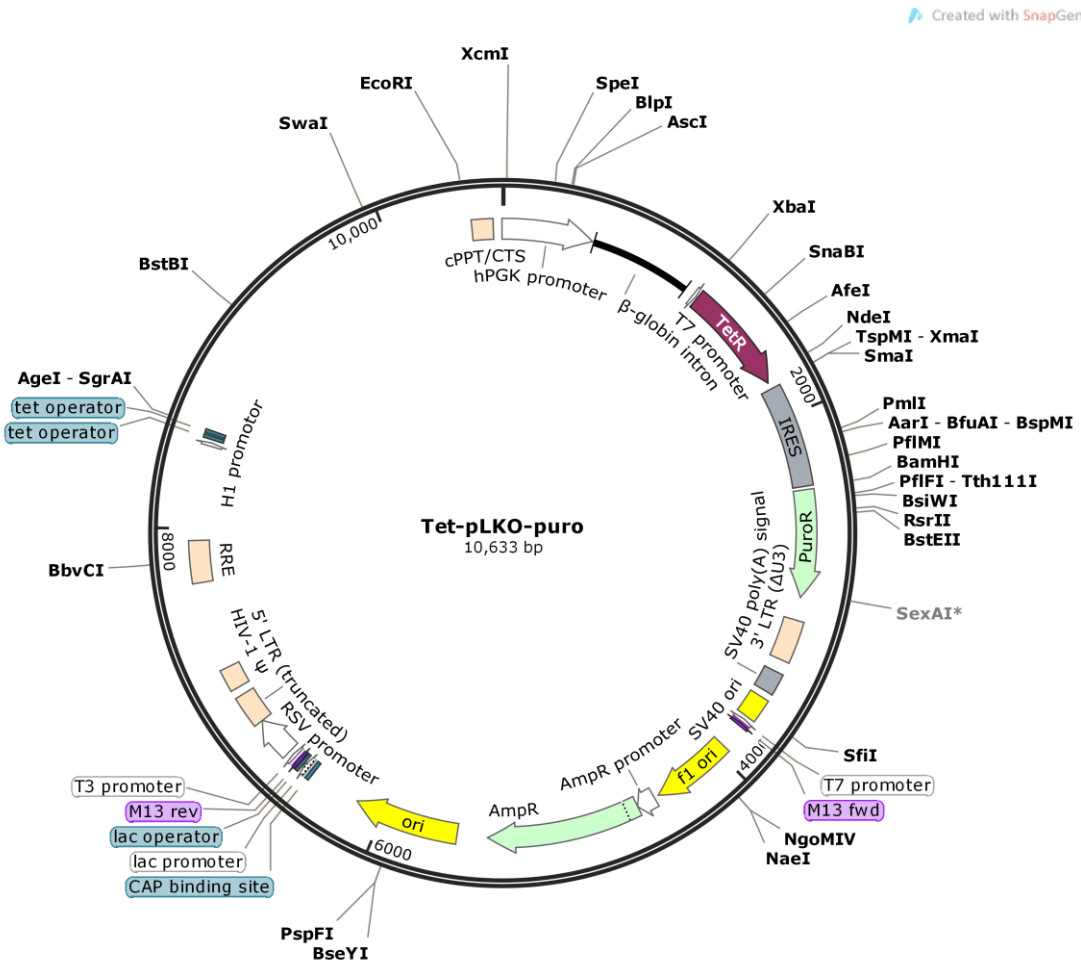
# Tet-pLKO-puro Vector Information




| | |
|---|---|
| **载体名称:** | Tet-pLKO-puro |
| **质粒类型:** | 慢病毒载体；RNAi 载体；四环素诱导载体；Tet-On 载体 |
| **表达水平:** | 低拷贝 |
| **启动子:** | H1 promotor,RSV promoter, hPGK promoter |
| **克隆方法:** | 多克隆位点，限制性内切酶 |
| **克隆位点:** | AgeI,EcoRI |
| **载体大小:** | 10633bp |
| **5’测序引物及序列:** | H1primer:CGCTATGTGTTCTGGGAAAT |
| **3’测序引物及序列:** | -- |
| **载体标签:** | |
| **载体抗性:** | Amp |
| **筛选标记:** | TetR, PuroR |
| **产品目录号:** | |
| **稳定性:** | 稳定表达 Stable |
| **组成型/诱导型:** | 诱导型 |
| **病毒/非病毒:** | 慢病毒 |
| **克隆菌株:** | Stbl3 |

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LOCUS       Exported 10633bp ds-DNA circular SYN 03-AUG-2017
DEFINITION  synthetic circular DNA
ACCESSION   .
VERSION     .
KEYWORDS    Tet-pLKO-puro
SOURCE      synthetic DNA construct
  ORGANISM  synthetic DNA construct
REFERENCE   1  (bases 1 to 10633)
  AUTHORS   aaaaaa
  TITLE     Direct Submission
  JOURNAL   Exported Friday, June 21, 2019 from SnapGene 3.2.1
            http://www.snapgene.com
FEATURES             Location/Qualifiers
     source          1..10633
                     /organism="synthetic DNA construct"
                     /mol_type="other DNA"
     intron          516..1088
                     /note="beta-globin intron"
                     /note="intron from rabbit beta-globin gene"
     promoter        1143..1161
                     /note="T7 promoter"
                     /note="promoter for bacteriophage T7 RNA polymerase"
     CDS             1172..1789
                     /codon_start=1
                     /gene="tetR from transposon Tn10"
                     /product="tetracycline repressor TetR"
                     /note="TetR"
                     /note="TetR binds to the tetracycline operator tetO to
                     inhibit transcription. This inhibition can be relieved by
                     adding tetracycline or doxycycline."
                     /translation="MSRLDKSKVINSALELLNEVGIEGLTTRKLAQKLGVEQPTLYWHV
                     KNKRALLDALAIEMLDRHHTHFCPLEGESWQDFLRNNAKSFRCALLSHRDGAKVHLGTR
                     PTEKQYETLENQLAFLCQQGFSLENALYALSAVGHFTLGCVLEDQEHQVAKEERETPTT
                     DSMPPLLRQAIELFDHQGAEPAFLFGLELIICGLEKQLKCESG"
     misc_feature    1827..2400
                     /note="IRES"
                     /note="internal ribosome entry site (IRES) of the
                     encephalomyocarditis virus (EMCV)"
     CDS             2420..3019
                     /codon_start=1
                     /gene="pac from Streptomyces alboniger"
                     /product="puromycin N-acetyltransferase"
                     /note="PuroR"
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| | |
|---|---|
| | /note="confers resistance to puromycin" |
| | /translation="MTEYKPTVRLATRDDVPRAVRTLAAAFADYPATRHTVDPDRHIER VTELQELFLTRVGLDIGKVWVADDGAAVAVWTTPESVEAGAVFAEIGPRMAELSGSRLA AQQQMEGLLAPHRPKEPAWFLATVGVSPDHQGKGLGSAVVLPGVEAAERAGVPAFLETS APRNLPFYERLGFTVTADVEVPEGPRTWCMTRKPGA" |
| LTR | 3147..3380 |
| | /note="3' LTR (Delta-U3)" |
| | /note="self-inactivating 3' long terminal repeat (LTR) from HIV-1" |
| polyA_signal | 3452..3573 |
| | /note="SV40 poly(A) signal" |
| | /note="SV40 polyadenylation signal" |
| rep_origin | 3613..3748 |
| | /note="SV40 ori" |
| | /note="SV40 origin of replication" |
| promoter | complement(3769..3787) |
| | /note="T7 promoter" |
| | /note="promoter for bacteriophage T7 RNA polymerase" |
| primer_bind | complement(3797..3813) |
| | /note="M13 fwd" |
| | /note="common sequencing primer, one of multiple similar variants" |
| rep_origin | 3955..4410 |
| | /direction=RIGHT |
| | /note="f1 ori" |
| | /note="f1 bacteriophage origin of replication; arrow indicates direction of (+) strand synthesis" |
| promoter | 4436..4540 |
| | /gene="bla" |
| | /note="AmpR promoter" |
| CDS | 4541..5401 |
| | /codon_start=1 |
| | /gene="bla" |
| | /product="beta-lactamase" |
| | /note="AmpR" |
| | /note="confers resistance to ampicillin, carbenicillin, and related antibiotics" |
| | /translation="MSIQHFRVALIPFFAAFCLPVFAHPETLVKVKDAEDQLGARVGYI ELDLNSGKILESFRPEERFPMMSTFKVLLCGAVLSRIDAGQEQLGRRIHYSQNDLVEYS PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTTIGGPKELTAFLHNMGDHVTRLDRW EPELNEAIPNDERDTTMPVAMATTLRKLLTGELLTLASRQQLIDWMEADKVAGPLLRSA LPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIAEIGAS LIKHW" |
| rep_origin | 5572..6160 |

| | |
|---|---|
| | /direction=RIGHT |
| | /note="ori" |
| | /note="high-copy-number ColE1/pMB1/pBR322/pUC origin of replication" |
| protein_bind | 6448..6469 |
| | /bound_moiety="E. coli catabolite activator protein" |
| | /note="CAP binding site" |
| | /note="CAP binding activates transcription in the presence of cAMP." |
| promoter | 6484..6514 |
| | /note="lac promoter" |
| | /note="promoter for the E. coli lac operon" |
| protein_bind | 6522..6538 |
| | /bound_moiety="lac repressor encoded by lacI" |
| | /note="lac operator" |
| | /note="The lac repressor binds to the lac operator to inhibit transcription in E. coli. This inhibition can be relieved by adding lactose or isopropyl-beta-D-thiogalactopyranoside (IPTG)." |
| primer_bind | 6546..6562 |
| | /note="M13 rev" |
| | /note="common sequencing primer, one of multiple similar variants" |
| promoter | 6583..6601 |
| | /note="T3 promoter" |
| | /note="promoter for bacteriophage T3 RNA polymerase" |
| promoter | 6627..6855 |
| | /note="RSV promoter" |
| | /note="Rous sarcoma virus enhancer/promoter" |
| LTR | 6856..7036 |
| | /note="5' LTR (truncated)" |
| | /note="truncated 5' long terminal repeat (LTR) from HIV-1" |
| misc_feature | 7083..7208 |
| | /note="HIV-1 Psi" |
| | /note="packaging signal of human immunodeficiency virus type 1" |
| misc_feature | 7701..7934 |
| | /note="RRE" |
| | /note="The Rev response element (RRE) of HIV-1 allows for Rev-dependent mRNA export from the nucleus to the cytoplasm." |
| protein_bind | 8500..8518 |
| | /gene="tetO" |
| | /bound_moiety="tetracycline repressor TetR" |

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                     /note="bacterial operator O2 for the tetR and tetA genes"
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     misc_feature    10464..10581
                     /note="cPPT/CTS"
                     /note="central polypurine tract and central termination
                     sequence of HIV-1"
     promoter        10630..507
                     /note="hPGK promoter"
                     /note="human phosphoglycerate kinase 1 promoter"
ORIGIN
        1 TTGGGGTTGC GCCTTTTCCA AGGCAGCCCT GGGTTTGCGC AGGGACGCGG CTGCTCTGGG
       61 CGTGGTTCCG GGAAACGCAG CGGCGCCGAC CCTGGGTCTC GCACATTCTT CACGTCCGTT
      121 CGCAGCGTCA CCCGGATCTT CGCCGCTACC CTTGTGGGCC CCCCGGCGAC GCTTCCTGCT
      181 CCGCCCCTAA GTCGGGAAGG TTCCTTGCGG TTCGCGGCGT GCCGGACGTG ACAAACGGAA
      241 GCCGCACGTC TCACTAGTAC CCTCGCAGAC GGACAGCGCC AGGGAGCAAT GGCAGCGCGC
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      361 CGGGAAGGGG CGGTGCGGGA GGCGGGGTGT GGGGCGGTAG TGTGGGCCCT GTTCCTGCCC
      421 GCGCGGTGTT CCGCATTCTG CAAGCCTCCG GAGCGCACGT CGGCAGTCGG CTCCCTCGTT
      481 GACCGAATCA CCGACCTCTC TCCCCAGGGG GATCTGTGAG TTTGGGGACC CTTGATTGTT
      541 CTTTCTTTTT CGCTATTGTA AAATTCATGT TATATGGAGG GGGCAAAGTT TTCAGGGTGT
      601 TGTTTAGAAT GGGAAGATGT CCCTTGTATC ACCATGGACC CTCATGATAA TTTTGTTTCT
      661 TTCACTTTCT ACTCTGTTGA CAACCATTGT CTCCTCTTAT TTTCTTTTCA TTTTCTGTAA
      721 CTTTTTCGTT AAACTTTAGC TTGCATTTGT AACGAATTTT TAAATTCACT TTTGTTTATT
      781 TGTCAGATTG TAAGTACTTT CTCTAATCAC TTTTTTTTCA AGGCAATCAG GGTATATTAT
      841 ATTGTACTTC AGCACAGTTT TAGAGAACAA TTGTTATAAT TAAATGATAA GGTAGAATAT
      901 TTCTGCATAT AAATTCTGGC TGGCGTGGAA ATATTCTTAT TGGTAGAAAC AACTACATCC
      961 TGGTCATCAT CCTGCCTTTC TCTTTATGGT TACAATGATA TACACTGTTT GAGATGAGGA
     1021 TAAAATACTC TGAGTCCAAA CCGGGCCCCT CTGCTAACCA TGTTCATGCC TTCTTCTTTT
     1081 TCCTACAGCT CCTGGGCAAC GTGCTGGTTA TTGTGCTGTC TCATCATTTT GGCAAAGAAT
     1141 TGTAATACGA CTCACTATAG GGCGAATTGA TATGTCTAGA TTAGATAAAA GTAAAGTGAT
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     1261 CGCCCAGAAG CTAGGTGTAG AGCAGCCTAC ATTGTATTGG CATGTAAAAA ATAAGCGGGC
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     1381 AGAAGGGGAA AGCTGGCAAG ATTTTTTACG TAATAACGCT AAAAGTTTTA GATGTGCTTT
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1921 CCGTCTTTTG GCAATGTGAG GGCCCGGAAA CCTGGCCCTG TCTTCTTGAC GAGCATTCCT
1981 AGGGGTCTTT CCCCTCTCGC CAAAGGAATG CAAGGTCTGT TGAATGTCGT GAAGGAAGCA
2041 GTTCCTCTGG AAGCTTCTTG AAGACAAACA ACGTCTGTAG CGACCCTTTG CAGGCAGCGG
2101 AACCCCCCAC CTGGCGACAG GTGCCTCTGC GGCCAAAAGC CACGTGTATA AGATACACCT
2161 GCAAAGGCGG CACAACCCCA GTGCCACGTT GTGAGTTGGA TAGTTGTGGA AAGAGTCAAA
2221 TGGCTCTCCT CAAGCGTATT CAACAAGGGG CTGAAGGATG CCCAGAAGGT ACCCCATTGT
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2461 CGACGTCCCC AGGGCCGTAC GCACCCTCGC CGCCGCGTTC GCCGACTACC CCGCCACGCG
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2641 GGTCTGGACC ACGCCGGAGA GCGTCGAAGC GGGGGCGGTG TTCGCCGAGA TCGGCCCGCG
2701 CATGGCCGAG TTGAGCGGTT CCCGGCTGGC CGCGCAGCAA CAGATGGAAG GCCTCCTGGC
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2821 CCAGGGCAAG GGTCTGGGCA GCGCCGTCGT GCTCCCCGGA GTGGAGGCGG CCGAGCGCGC
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3061 ACGACCCCAT GCATCGGTAC CTTTAAGACC AATGACTTAC AAGGCAGCTG TAGATCTTAG
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3181 TCTGCTTTTT GCTTGTACTG GGTCTCTCTG GTTAGACCAG ATCTGAGCCT GGGAGCTCTC
3241 TGGCTAACTA GGGAACCCAC TGCTTAAGCC TCAATAAAGC TTGCCTTGAG TGCTTCAAGT
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3361 AGTGTGGAAA ATCTCTAGCA GTAGTAGTTC ATGTCATCTT ATTATTCAGT ATTTATAACT
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3721 AAGTAGTGAG GAGGCTTTTT TGGAGGCCTA GGGACGTACC CAATTCGCCC TATAGTGAGT
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3901 AGGCCCGCAC CGATCGCCCT TCCCAACAGT TGCGCAGCCT GAATGGCGAA TGGGACGCGC
3961 CCTGTAGCGG CGCATTAAGC GCGGCGGGTG TGGTGGTTAC GCGCAGCGTG ACCGCTACAC
4021 TTGCCAGCGC CCTAGCGCCC GCTCCTTTCG CTTTCTTCCC TTCCTTTCTC GCCACGTTCG
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6361 GCCTCTCCCC GCGCGTTGGC CGATTCATTA ATGCAGCTGG CACGACAGGT TTCCCGACTG
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     9661 TAATGGTTCA ATTTTTAATT TCTTTTCTTC TGGTTTAAAA TTCAAGTTTA AAGTGAAAGT
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     9781 TTTTTTATAA AATCAAGCAG CCTCTGCTAT TAATATAGAA GCTTGTATTC CATCTTTATC
     9841 TCTAGCTGAG TCATCAATTA CATATCCATA ACTTTCTTCA TAAGCAAAAA CAAAATTTAA
     9901 TCCGTTATCT TCTTCTTTAG CAATTTCTCT ACCCATTCAT TTAAATCCAG TTAAAGTTTT
     9961 TACAATATTA ACTCCATATT TTTCATGAGC GATTCTATCA CCCAAATCAC TTGTTACAAA
    10021 ACTTGAATAT AGAGCCGGAT TTTTTGGAAT GCTATTTAAG CGTTTTAGAT TTGATAATTT
    10081 TCAATCAATT AAAATTGGTC CTGTTTGATT TCCATCTAAT CTTACAAAAT GACCATCATG
    10141 TTTTATTGCC ATTCCAAATC TGTCAGCATC TGGGTCATTC ATAATAATAA TATCTGCATC
    10201 ATGTTTAATA CCATATTCAA GCGGTATTTT TCATGCAGGA TCAAATTCTG GATTTGGATT
    10261 TACAACATTT TTAAATGTTT CATCTTCAAA TGCATGCTCT TCAACCTCAA TAACGTTATA
    10321 TCCTGATTCA CGTAATATTT TTGGGGTAAA TTTAGTTCCT GTTCCATTAA CTGCGCTAAA
    10381 AATAATTTTT AAATCTTTTT TAGCTTCTTG CTCTTTTTTG TAGAATTCTC GACCTCGAGA
    10441 CAAATGGCAG TATTCATCCA CAATTTTAAA AGAAAAGGGG GGATTGGGGG GTACAGTGCA
    10501 GGGGAAAGAA TAGTAGACAT AATAGCAACA GACATACAAA CTAAAGAATT ACAAAAACAA
    10561 ATTACAAAAA TTCAAAATTT TCGGGTTTAT TACAGGGACA GCAGAGATCC ACTTTGGCCG
    10621 CGGCTCGAGG GGG
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