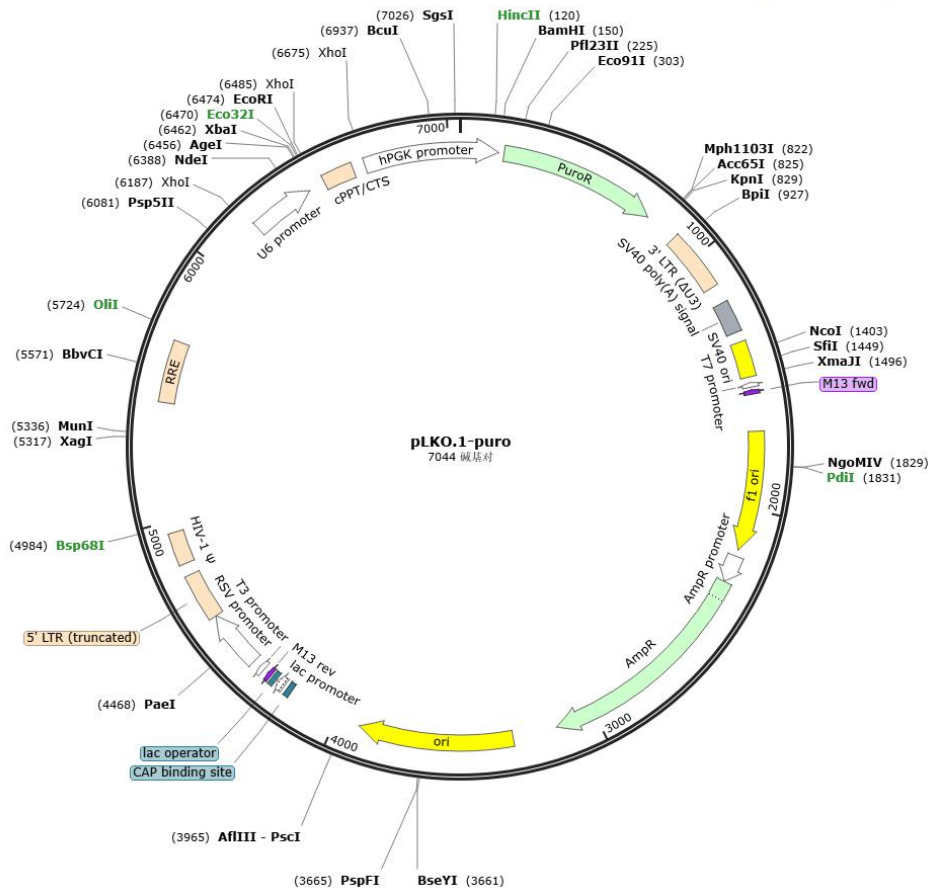


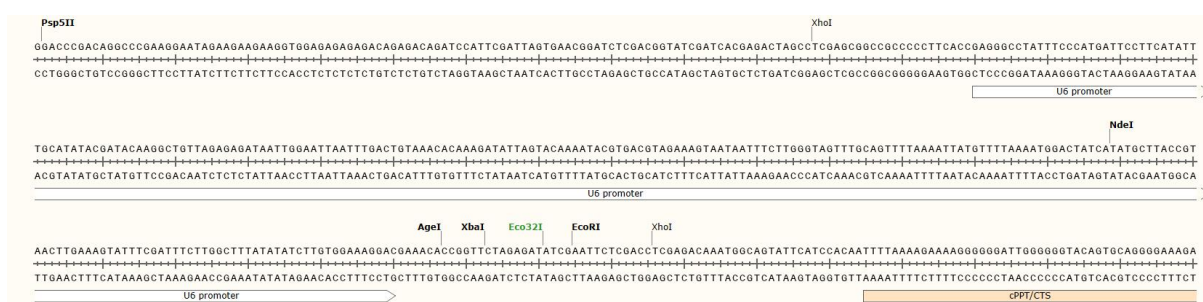
pLKO.1-puro Vector Information

Created with SnapGene®



载体名称:	pLKO.1-puro
质粒类型:	慢病毒载体; RNAi 载体
表达水平:	高拷贝
启动子:	U6 promoter
克隆方法:	多克隆位点, 限制性内切酶
克隆位点:	AgeI, EcoRI 等
载体大小:	7044bp
5' 测序引物及序列:	U6: ATGGACTATCATATGCTTACCGTA
3' 测序引物及序列:	--
载体标签:	--
载体抗性:	Amp
筛选标记:	Puro
产品目录号:	--
稳定性:	稳定表达 Stable
组成型/诱导型:	组成型
病毒/非病毒:	慢病毒
克隆菌株:	Stb13

MCS ☒:



LOCUS pLKO.1-puro 7044 bp DNA circular SYN 02-JUN-2023
 DEFINITION .
 ACCESSION .
 VERSION .
 KEYWORDS pLKO.1-puro
 SOURCE synthetic DNA construct
 ORGANISM synthetic DNA construct
 REFERENCE 1 (bases 1 to 7044)
 AUTHORS .
 TITLE Direct Submission
 JOURNAL Exported Jun 2, 2023 from SnapGene 6.0.2
<https://www.snapgene.com>

FEATURES Location/Qualifiers
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 LTR 896..1129
 /label=3' LTR (Delta-U3)
 /note="self-inactivating 3' long terminal repeat (LTR) from
 HIV-1"
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 polyA_signal 1201..1322
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        /note="color: #a6acb3"
rep_origin 1362..1497
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promoter   complement(1518..1536)
        /label=T7 promoter
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primer_bind complement(1546..1562)
        /label=M13 fwd
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        variants"
        /note="color: #a020f0; direction: LEFT"
rep_origin 1704..2159
        /direction=RIGHT
        /label=f1 ori
        /note="f1 bacteriophage origin of replication; arrow
        indicates direction of (+) strand synthesis"
        /note="color: #ffff00"
promoter   2185..2289
        /gene="bla"
        /label=AmpR promoter
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CDS        2290..3150
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        /gene="bla"
        /product="beta-lactamase"
        /label=AmpR
        /note="confers resistance to ampicillin, carbenicillin, and
        related antibiotics"
        /note="This feature has 2 segments:
        1: 2290 .. 2358 / #ccffcc / signal sequence
        2: 2359 .. 3150 / #ccffcc
        Cleavage site after base 2358"
        /translation="MSIQHFRVALIPFFAAFCLPVFAHPETLVKVKDAEDQLGARVGYI
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rep_origin 3321..3909
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/label=ori
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 /note="color: #ffff00"

protein_bind 4197..4218
 /label=CAP binding site
 /bound_moiety="E. coli catabolite activator protein"
 /note="CAP binding activates transcription in the presence of cAMP."
 /note="color: #31849b"

promoter 4233..4263
 /label=lac promoter
 /note="promoter for the E. coli lac operon"
 /note="This forward directional feature has 3 segments:
 1: 4233 .. 4238 / #ffffff / -35
 2: 4239 .. 4256 / #ffffff
 3: 4257 .. 4263 / #ffffff / -10"

protein_bind 4271..4287
 /label=lac operator
 /bound_moiety="lac repressor encoded by lacI"
 /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)."
 /note="color: #31849b"

primer_bind 4295..4311
 /label=M13 rev
 /note="common sequencing primer, one of multiple similar variants"
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promoter 4332..4350
 /label=T3 promoter
 /note="promoter for bacteriophage T3 RNA polymerase"
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promoter 4378..4604
 /label=RSV promoter
 /note="Rous sarcoma virus enhancer/promoter"
 /note="color: #ffffff; direction: RIGHT"

LTR 4605..4785
 /label=5' LTR (truncated)
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misc_feature 4832..4957
 /label=HIV-1 Psi

/note="packaging signal of human immunodeficiency virus
 type 1"
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 misc_feature 5450..5683
 /label=RRE
 /note="The Rev response element (RRE) of HIV-1 allows for
 Rev-dependent mRNA export from the nucleus to the
 cytoplasm."
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 promoter 6210..6450
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 /note="RNA polymerase III promoter for human U6 snRNA"
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 misc_feature 6515..6632
 /label=cPPT/CTS
 /note="central polypurine tract and central termination
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 /note="human phosphoglycerate kinase 1 promoter"
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ORIGIN

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