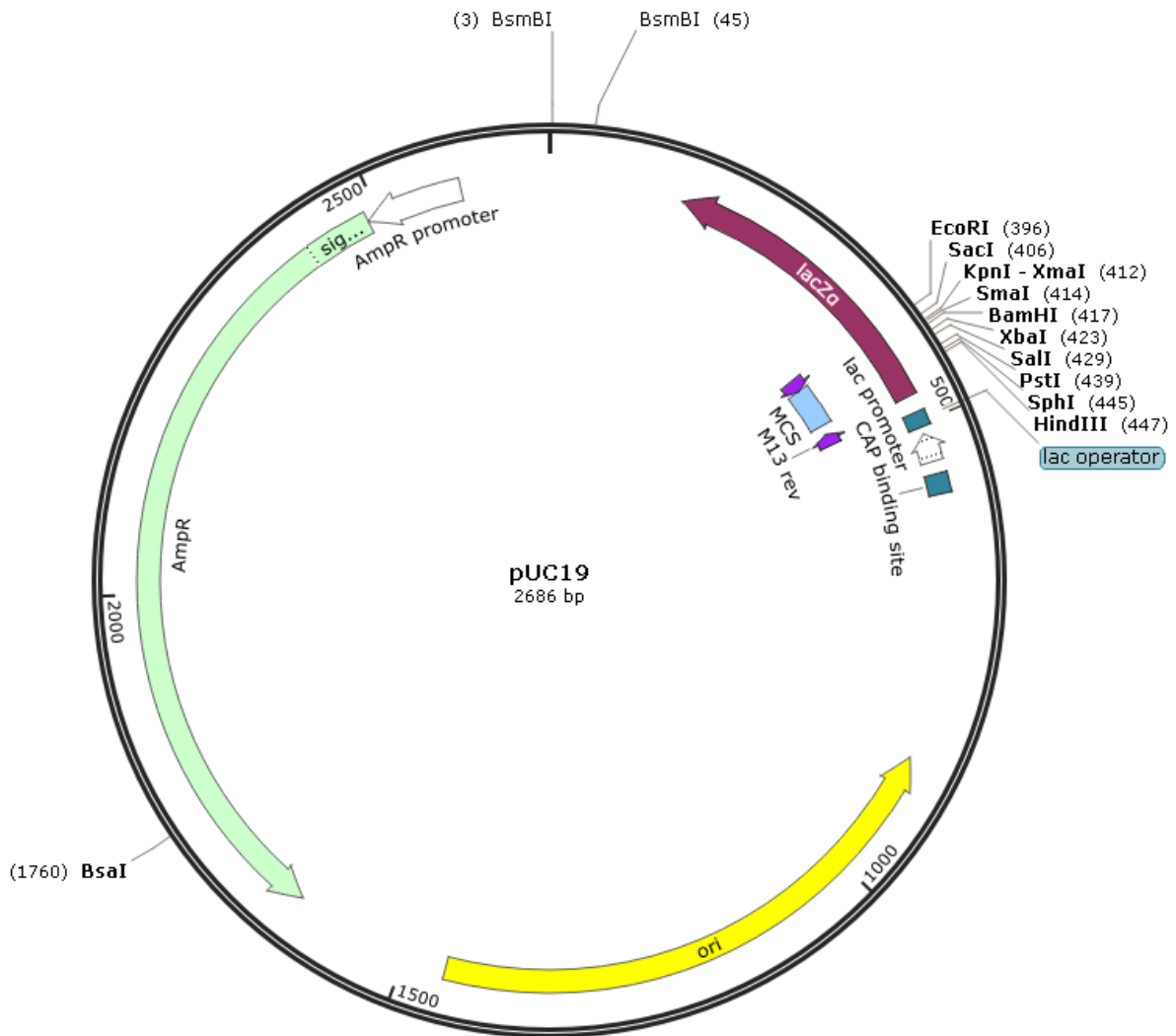


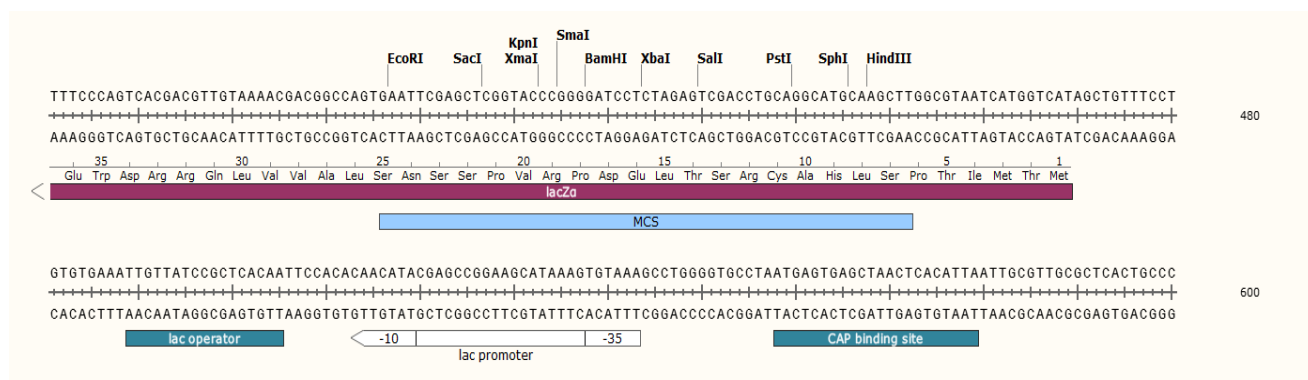
pUC19 Vector Information

Created with SnapGene®



载体名称:	pUC19
质粒类型:	克隆载体
表达水平:	高拷贝
启动子:	lac promoter
克隆方法:	多克隆位点, 限制性内切酶
克隆位点:	MCS
载体大小:	2686bp
5' 测序引物及序列:	pUC344 :GTGCTGCAAGGCGATTAAGT
3' 测序引物及序列:	pUC510R: TTCCGGCTCGTATGTTGTGT
载体标签:	LacZ
载体抗性:	Amp
筛选标记:	--
产品目录号:	
稳定性:	瞬时表达 Transient
组成型:	非组成型
病毒/非病毒:	非病毒
克隆菌株:	DH5 α / Match-T1

MCS ☒:



LOCUS Exported 2686bp ds-DNA circular SYN 28-NOV-2017
 DEFINITION pUC19.
 ACCESSION .
 VERSION .
 KEYWORDS pUC19
 SOURCE synthetic DNA construct
 ORGANISM synthetic DNA construct
 REFERENCE 1 (bases 1 to 2686)
 AUTHORS .
 TITLE Direct Submission
 JOURNAL Exported Sunday, May 26, 2019 from SnapGene 3.2.1
<http://www.snapgene.com>

FEATURES Location/Qualifiers
 source 1..2686
 /organism="synthetic DNA construct"
 /mol_type="other DNA"
 CDS complement(146..469)
 /codon_start=1
 /gene="lacZ fragment"
 /product="LacZ-alpha fragment of beta-galactosidase"
 /note="lacZ-alpha"
 /translation="MTMITPSLHACRSTLEDPRVPSSNSLAVVLQRRDWENPGVTQLNR
 LAAHPPFASWRNSEEARTDRPSQQLRSLNGEWRLMRYFLLTHLCGISHRIWCTLSTICS
 DAA"
 primer_bind 379..395
 /note="M13 fwd"
 /note="common sequencing primer, one of multiple similar
 variants"
 misc_feature 396..452
 /note="MCS"
 /note="pUC18/19 multiple cloning site"
 primer_bind complement(465..481)
 /note="M13 rev"
 /note="common sequencing primer, one of multiple similar

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protein_bind    variants"
                489..505
                /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)."
```

```

promoter        complement(513..543)
                /note="lac promoter"
                /note="promoter for the E. coli lac operon"
```

```

protein_bind    558..579
                /bound_moiety="E. coli catabolite activator protein"
                /note="CAP binding site"
                /note="CAP binding activates transcription in the presence
                of cAMP."
```

```

rep_origin      complement(867..1455)
                /direction=LEFT
                /note="ori"
                /note="high-copy-number ColE1/pMB1/pBR322/pUC origin of
                replication"
```

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CDS             complement(1626..2486)
                /codon_start=1
                /gene="bla"
                /product="beta-lactamase"
                /note="AmpR"
                /note="confers resistance to ampicillin, carbenicillin, and
                related antibiotics"
                /translation="MSIQHFRVALIPFFAAFCLPVFAHPETLVKVKDAEDQLGARVGYI
                ELDLNSGKILESFRPEERFPMSTFKVLLCGAVLSRIDAGQEQLGRRIHYSQNDLVEYS
                PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAFLNHMGDHSVTRLDLDRW
                EPELNEAIPNDERDITMPVAMATTLRKLITGELLTLASRQQLIDWMEADKVVAGPLLRSA
                LPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIAEIGAS
                LIKHW"
```

```

promoter        complement(2487..2591)
                /gene="bla"
                /note="AmpR promoter"
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ORIGIN

```

1 TCGCGCGTTT CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA
61 CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG TCAGGGCGCG TCAGCGGGTG
121 TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA GCAGATTGTA CTGAGAGTGC
181 ACCATATGCG GTGTGAAATA CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGGCGCC
241 ATTCGCCATT CAGGCTGCGC AACTGTTGGG AAGGGCGATC GGTGCGGGCC TCTTCGCTAT
301 TACGCCAGCT GCGGAAAGGG GGATGTGCTG CAAGGCGATT AAGTTGGGTA ACGCCAGGGT
361 TTTCCAGTC ACGACGTTGT AAAACGACGG CCAGTGAATT CGAGCTCGGT ACCCGGGGAT
421 CCTCTAGAGT CGACCTGCAG GCATGCAAGC TTGGCGTAAT CATGGTCATA GCTGTTTCTT
481 GTGTGAAATT GTTATCCGCT CACAATTCCA CACAACATAC GAGCCGGAAG CATAAAGTGT
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541 AAAGCCTGGG GTGCCTAATG AGTGAGCTAA CTCACATTAA TTGCGTTGCG CTCACTGCC
601 GCTTTCCAGT CGGGAAACCT GTCGTGCCAG CTGCATTAAT GAATCGGCCA ACGCGCGGGG
661 AGAGGCGGTT TGCCTATTGG GCGCTCTTCC GCTTCCTCGC TCACTGACTC GCTGCGCTCG
721 GTCGTTCCGC TGCGGCGAGC GGTATCAGCT CACTCAAAGG CGGTAATACG GTTATCCACA
781 GAATCAGGGG ATAACGCAGG AAAGAACATG TGAGCAAAAG GCCAGCAAAA GGCCAGGAAC
841 CGTAAAAAGG CCGCGTTGCT GGCCTTTTTT CATAGGCTCC GCCCCCCTGA CGAGCATCAC
901 AAAAATCGAC GCTCAAGTCA GAGGTGGCGA AACCCGACAG GACTATAAAG ATACCAGGCG
961 TTTCCCCTG GAAGCTCCCT CGTGCCTCTT CCTGTTCCGA CCCTGCCGCT TACCGGATAC
1021 CTGTCCGCCT TTCTCCCTTC GGAAGCGTG GCGCTTTCTC ATAGCTCACG CTGTAGGTAT
1081 CTCAGTTCGG TGTAGGTCGT TCGCTCCAAG CTGGGCTGTG TGCACGAACC CCCCCTCAG
1141 CCCGACCGCT GCGCCTTATC CGGTAACATC CGTCTTGAGT CCAACCCGGT AAGACACGAC
1201 TTATCGCCAC TGGCAGCAGC CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT
1261 GCTACAGAGT TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGAAC AGTATTTGGT
1321 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCTC TTGATCCGGC
1381 AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGA AGCAGCAGAT TACGCGCAGA
1441 AAAAAAGGAT CTCAAGAAGA TCCTTTGATC TTTTCTACGG GGTCTGACGC TCAGTGAAC
1501 GAAAACTCAC GTTAAGGGAT TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC
1561 CTTTTAAATT AAAAATGAAG TTTTAAATCA ATCTAAAGTA TATATGAGTA AACTGGTCT
1621 GACAGTTACC AATGCTTAAT CAGTGAGGCA CCTATCTCAG CGATCTGTCT ATTTCGTTCA
1681 TCCATAGTTG CCTGACTCCC CGTCGTGTAG ATAACCTACGA TACGGGAGGG CTTACCATCT
1741 GGCCCCAGTG CTGCAATGAT ACCGCGAGAC CCACGCTCAC CGGCTCCAGA TTTATCAGCA
1801 ATAAACCAGC CAGCCGGAAG GGCCGAGCGC AGAAGTGGTC CTGCAACTTT ATCCGCTCC
1861 ATCCAGTCTA TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT TAATAGTTTG
1921 CGCAACGTTG TTGCCATTGC TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT
1981 TCATTAGCT CCGGTTCCCA ACGATCAAGG CGAGTTACAT GATCCCCCAT GTTGTGCAAA
2041 AAAGCGGTTA GCTCCTTCGG TCCTCCGATC GTTGTGAGAA GTAAGTTGGC CGCAGTGTTA
2101 TCACTCATGG TTATGGCAGC ACTGCATAAT TCTCTTACTG TCATGCCATC CGTAAGATGC
2161 TTTTCTGTGA CTGGTGAGTA CTCAACCAAG TCATTCTGAG AATAGTGTAT GCGGCGACCG
2221 AGTTGCTCTT GCCCGGCGTC AATACGGGAT AATACCGCGC CACATAGCAG AACTTTAAAA
2281 GTGCTCATCA TTGGAAAACG TTCTTCGGGG CGAAAACTCT CAAGGATCTT ACCGCTGTTG
2341 AGATCCAGTT CGATGTAACC CACTCGTGCA CCCAACTGAT CTTCAGCATC TTTTACTTTC
2401 ACCAGCGTTT CTGGGTGAGC AAAAACAGGA AGGCAAAATG CCGCAAAAAA GGGAATAAAG
2461 GCGACACGGA AATGTTGAAT ACTCATACTC TTCCTTTTTT AATATTATTG AAGCATTAT
2521 CAGGGTTATT GTCTCATGAG CGGATACATA TTTGAATGTA TTTAGAAAAA TAAACAAATA
2581 GGGGTTCCGC GCACATTTCC CCGAAAAGTG CCACCTGACG TCTAAGAAAC CATTATTATC
2641 ATGACATTAA CCTATAAAAA TAGGCGTATC ACGAGGCCCT TTCGTC

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