



## 基本信息

复制子:	PUC
平台编号	bio-134100
原核抗性:	Amp
真核抗性:	绿色荧光蛋白 GFPuv
克隆菌株:	DH5a
培养条件:	37 度

## 质粒属性

质粒宿主:	大肠杆菌
质粒用途:	蛋白表达
片段类型:	ORF

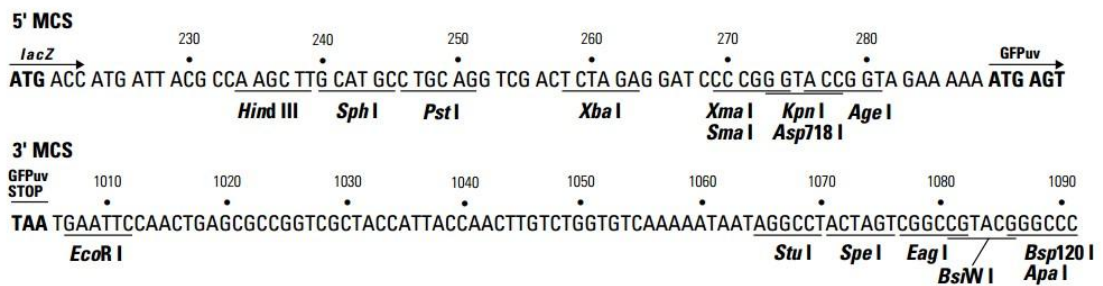
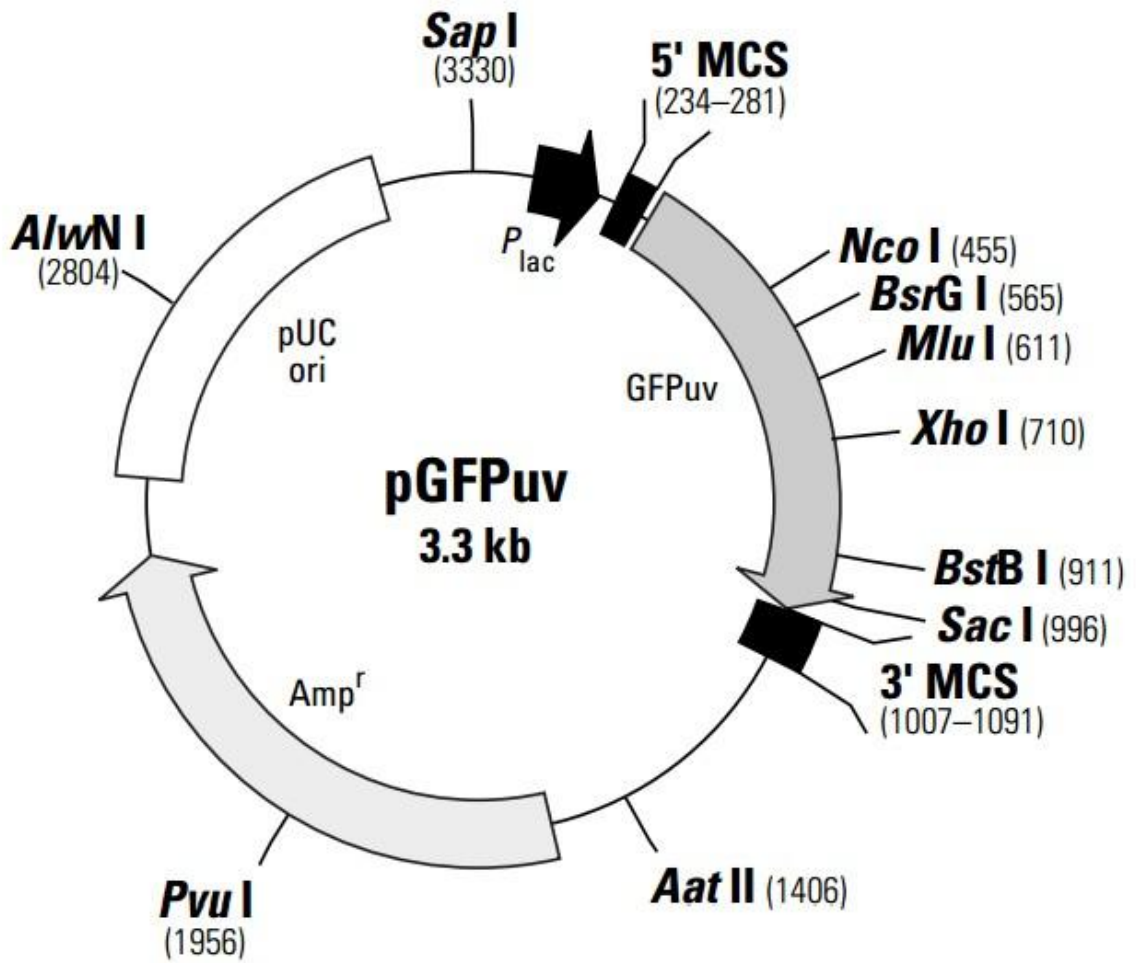
## 片段物种:

原核抗性:	Amp
真核抗性:	
荧光标记:	绿色

## 质粒简介

pGFPuv 是一个大肠杆菌绿色荧光表达质粒。pGFPuv carries the“cycle 3”variant of GFP described by Crameri et al. (1). This gene was cloned between the two MCSs of the pUC19 derivative pPD16.43 (2). The GFPuv gene can be easily excised from pGFPuv. Alternatively, the GFPuv coding sequence can be amplified by PCR. The GFPuv gene was inserted in frame with the lacZ initiation codon from pUC19 so that a  $\beta$ -galactosidase-GFPuv fusion protein is expressed from the lac promoter in E. coli . Note, however, that if you excise the GFPuv coding sequence using a restriction site in the 5' MCS, the resulting fragment will encode the native (i.e., non-fusion) GFPuv protein. The pUC backbone of pGFPuv provides a high copy number origin of replication and ampicillin resistance gene for propagation in E. coli.

## 质粒图谱



质粒序列

LOCUS Exported 3337 bp ds-DNA circular SYN 17-OCT-2017

DEFINITION synthetic circular DNA

FEATURES Location/Qualifiers

source 1..3337  
 /organism="synthetic DNA construct"  
 /mol\_type="other DNA"  
 promoter 143..173



/label=lac promoter  
/note="promoter for the E. coli lac operon"  
protein\_bind 181..197  
/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)."  
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/label=M13 rev  
/note="common sequencing primer, one of multiple similar variants"  
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/codon\_start=1  
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/label=GFPuv  
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NYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNNSHNVYIT  
ADKQKNGIKA  
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/label=AmpR  
/note="confers resistance to ampicillin, carbenicillin, and related antibiotics"  
/translation="MSIQHFRVALIPFFAAFCCLPVFAHPETLVKVKDAEDQLGAR  
VGYI  
ELDLNSGKILESFRPEERFPMMSSTFKVLLCGAVLSRIDAGQEQLGRRIH  
YSQNDLVEYS  
PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAFLHNM  
GDHVTRLDRW



EPELNEAIPNDERDTTMPVAMATTLRKLTLGELLTLASRQLIDWMEA  
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ORIGIN

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61 acgacagtt tcccactgg aaagcgggca gtgagcgcaa cgcaattaat gtgagttage  
121 tcaactatta ggcaccccag gctttacct ttatgctcc ggctcgtatg ttgtgtggaa  
181 ttgtgagcgg ataacaatt cacacaggaa acagctatga ccatgattac gccaagcttg  
241 catgctgca ggtcgactct agaggatccc cgggtaccgg tagaaaaat gagtaaagga  
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361 cacaaatfff ctgtcagtg agagggtgaa ggtgatgcaa catacggaaa acttacctt  
421 aaatatttt gcactactg aaaactacct gtccatggc caacactgt cactacttc  
481 tcttatggtg ttcaatgctt ttcccgtat ccggatcata tgaacggca tgacttttc  
541 aagagtcca tccccgaagg ttatgtacag gaacgacta tatcttcaa agatgacggg  
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661 ttaaaagta ttgatttaa agaagatgga aacattctc gacacaaact cgagtacaac  
721 tataactcac acaatgtata catcaggca gacaaacaaa agaatggaat caaagctaac  
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1381 atgataataa tggtttcta gacgtcaggt ggcactttc ggggaaatgt gcgcggaacc  
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1561 gccctattc ctttttgc ggcatttgc ctctgttt ttgctaccc agaaacgctg  
1621 gtgaaagtaa aagatgctga agatcagttg ggtgcacgag tgggttacct cgaactggat  
1681 ctcaacagcg gtaagatcct tgagagttt cggcccgaag aacgtttcc aatgatgagc  
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1801 ctggtcgcgc geatacacta ttctcagaat gacttggtg agtactcacc agtcacagaa



1861 aagcatctta cggatggcat gacagtaaga gaattatgca gtgctgccat aacctagat  
1921 gataaactg cggccaactt acttctgaca acgatcggag gaccgaagga gctaaccgct  
1981 ttttgcaca acatggggga tcatgtaact cgccttgatc gttgggaacc ggagctgaat  
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