



基本信息

启动子:	Cat
平台编号:	bio-82377
复制子:	R6K
原核抗性:	Amp,Chl
筛选标记:	氯霉素 Chl
克隆菌株:	S17-1 λ pir
培养条件:	37 度
表达宿主:	大肠杆菌

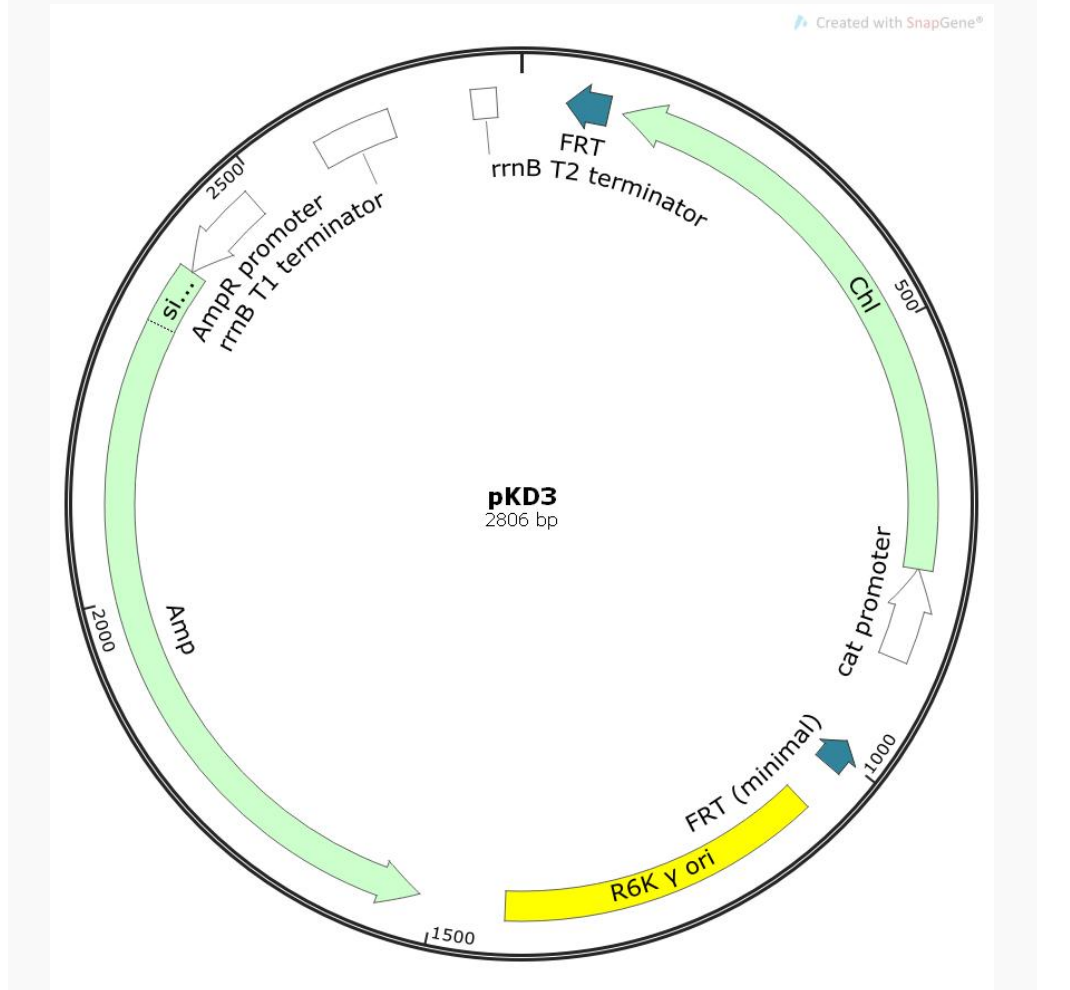
质粒属性

载体宿主:	大肠杆菌
载体用途:	基因敲除
基因种属:	
基因类型:	Red
原核抗性:	Amp,Chl
真核抗性:	
荧光蛋白:	

质粒简介

pKD3 是一个大肠杆菌 Red 系统基因敲除质粒。其参考文献是 Datsenko, KA, BL Wanner 2000. One-step inactivation of chromosomal genes in *Escherichia coli* K-12 using PCR products. *Proc. Natl. Acad. Sci. U.S.A.* 97(12):6640-5.

质粒图谱



质粒序列

LOCUS Exported 2806 bp ds-DNA circular SYN 27-JAN-2018

DEFINITION synthetic circular DNA

FEATURES Location/Qualifiers

source 1..2806

/organism="synthetic DNA construct"

/mol_type="other DNA"

protein_bind complement(51..98)

/label=FRT

/bound_moiety="FLP recombinase from the Saccharomyces

cerevisiae 2u plasmid"

/note="FLP-mediated recombination occurs in the 8-bp core

sequence TCTAGAAA (Turan and Bode, 2011)."

CDS complement(115..774)

/codon_start=1

/gene="cat"

/product="chloramphenicol acetyltransferase"



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/label=Chl
/label=Chl
/note="confers resistance to chloramphenicol"
/translation="MEKKITGYTTVDISQWHRKEHFEAFQSVACTYNQTVQLDITAFI
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LWSEYHDDFRQFLHIYSQDVACYGENLAYFPKGFIEENMFFVSANPWVSFTSFDLNVANM
DNFFAPVFTMGKYYTQGDKVLMLPLAIQVHHAVCDGFHVGRMLNELQQYCDEWQGGA"
promoter complement(775..877)
/label=cat promoter
/note="promoter of the E. coli cat gene encoding
chloramphenicol acetyltransferase"
protein_bind complement(983..1016)
/label=FRT (minimal)
/bound_moiety="FLP recombinase from the Saccharomyces
cerevisiae 2u plasmid"
/note="supports FLP-mediated excision but not integration
(Turan and Bode, 2011)"
rep_origin 1065..1421
/label=R6K gamma ori
/note="gamma replication origin from E. coli plasmid R6K;
requires the R6K initiator protein pi for replication"
CDS complement(1518..2378)
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/product="beta-lactamase"
/label=Amp
/note="confers resistance to ampicillin, carbenicillin, and
related antibiotics"
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LIKHW"
promoter complement(2379..2483)
/gene="bla"
/label=AmpR promoter
terminator 2574..2660
/gene="Escherichia coli rrnB"
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/note="transcription terminator T1 from the E. coli rrnB
gene"
terminator 2752..2779
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/label=rrnB T2 terminator  
  
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ORIGIN

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