



基本信息

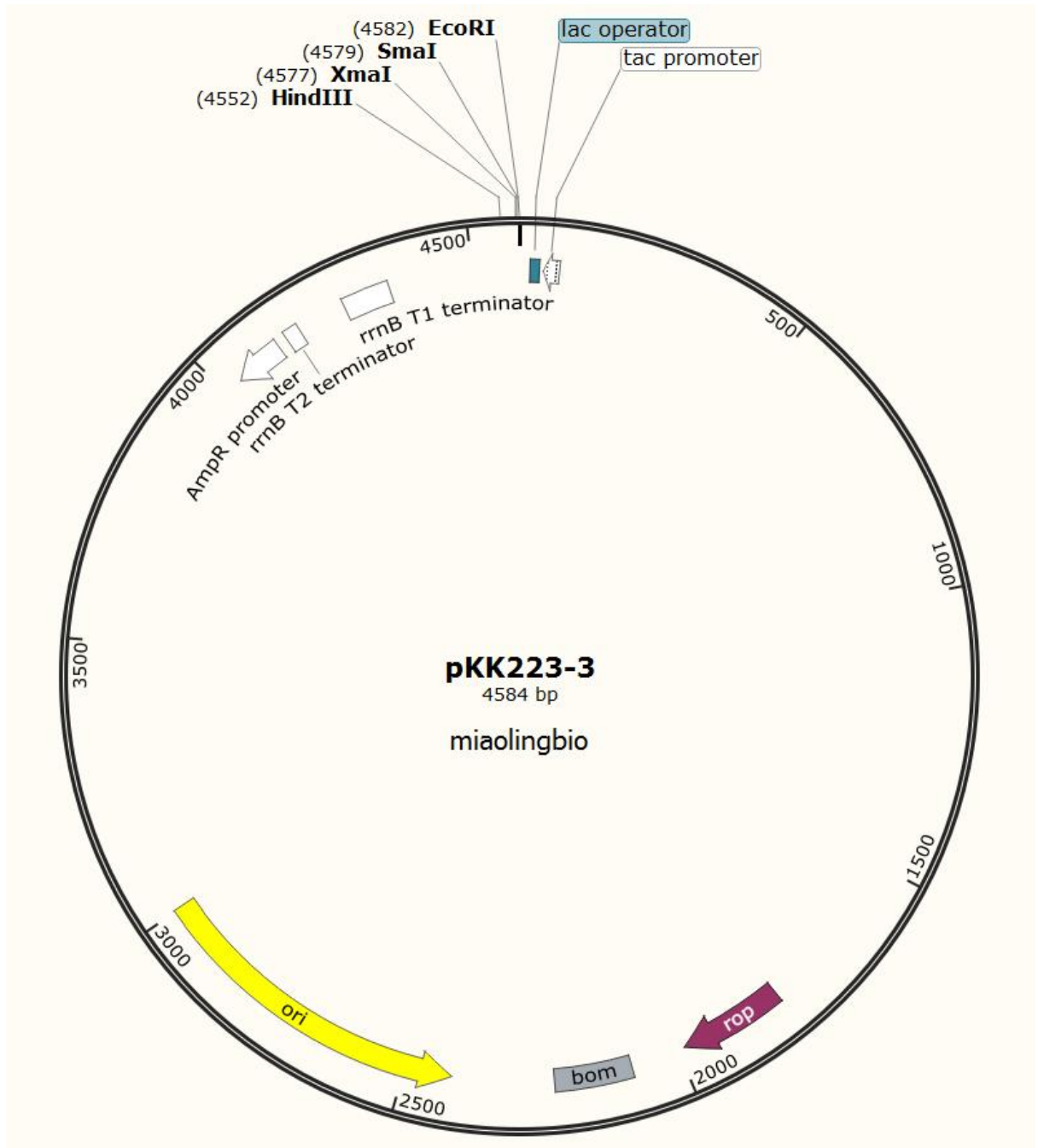
启动子:	Tac
平台编号:	bio-109869
复制子:	pBR322 ori
终止子:	rrnB T1
质粒分类:	大肠杆菌载体; 蛋白表达质粒
质粒大小:	4584bp
原核抗性:	氨苄青霉素 Amp
克隆菌株:	DH5 α
培养条件:	37°C, 有氧, LB
表达宿主:	大肠杆菌
培养条件:	37°C, 有氧, LB
诱导方式:	IPTG 或乳糖及其类似物
备注:	表达质粒

质粒简介

pKK223-3 (1) contains the strong tac promoter upstream from the multiple cloning site and the strong rrnB ribosomal terminator downstream for control of protein expression (2-4). Induction: tac promoter is inducible with 1-5 mM IPTG. Promoter is very strong; even uninduced cells may show a low level of expression. Expression: Genes containing a ribosome-binding site and ATG can be inserted into any unique site in the MCS for expression. The ribosomebinding site on the plasmid can be utilised to express inserts if the ATG start codon of the insert is within 5-13 bp from the provided ribosomebindingsite (5, 6). Transcription terminators: rrnB transcription terminators stabilize the plasmid by inhibiting read-through transcription initiated from the tac promoter in the parent plasmid. Host(s): lac Iq strains; E. coli JM105 is recommended. Selectable marker(s): Plasmid confers resistance to 100 μ g/ml ampicillin. Amplification: Recommended. Control Regions: Expression control region: tac promoter: -10: 50-44; -35: 72-67; Ribosome binding site: 11. MCS: 4552-4587. rrnB operon region: 5S rRNA region: 4471-4352; rrnB T1 terminator: 4348-4305; rrnB T2 terminator: 4173-4146. b-lactamase gene region: Promoter: -10: 4082-4077; -35: 4105-4100; Start codon (ATG): 4035; Stop codon (TAA): 3178. Plasmid replication region: Site of replication initiation: 2417-2415; Region necessary for replication: 3111-2415.



质粒图谱



质粒序列

LOCUS	Exported	4584 bp ds-DNA	circular SYN 18-九月-2016
DEFINITION	synthetic circular DNA		
ACCESSION	.		
VERSION	.		
KEYWORDS	Untitled 4		
SOURCE	synthetic DNA construct		
ORGANISM	synthetic DNA construct		



REFERENCE 1 (bases 1 to 4584)

AUTHORS .

TITLE Direct Submission

JOURNAL Exported 2016年9月18日 from SnapGene Viewer

2.8.1FEATURES Location/Qualifiers

source 1..4584
/organism="synthetic DNA construct"
/mol_type="other DNA"

protein_bind 20..36
/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)."

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/note="tac promoter"
/note="strong E. coli promoter; hybrid between the trp and lac UV5 promoters"

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/product="Rop protein, which maintains plasmids at low copy number"
/note="rop"
/translation="MTKQEK TALNMARFIRSQTLTLLLEKLNELDADEQADICESLH

DHA
DELYRSCLARFGDDGENL"

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/note="basis of mobility region from pBR322"

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/direction=LEFT
/note="ori"
/note="high-copy-number ColE1/pMB1/pBR322/pUC origin of replication"

promoter complement(4034..4125)
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/note="AmpR promoter"

terminator 4144..4171
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/note="transcription terminator T2 from the E. coli rrnB



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/gene="Escherichia coli rrnB"  
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gene"
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ORIGIN

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61 attaatgtgc aacagctcat ttcagaatat ttgccagaac cgttatgatg tcggcgcaaa  
121 aacattatac cagaacggga gtgcgcttg agcgacacga attatgcagt gatttacgac  
181 ctgcacagcc ataccacagc ttccgatggc tgcctgacgc cagaagcatt ggtgcaccgt  
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1981 cctctgacac atgcagctcc cggagacggg cacagcttgt ctgtaagcgg atgccgggag  
2041 cagacaagcc cgtcagggcg cgtcagcggg tgttggcggg tgtcggggcg cagccatgac
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微生物菌种查询网

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