

pet32a 载体基本信息

别名: pET32a (+) , pet 32a (+)
 平台编号: bio-03618
 质粒类型: 大肠杆菌蛋白表达
 表达水平: 高
 克隆方法: 多克隆位点, 限制性内切酶
 载体大小: 5900bp
 5' 测序引物: T7: 5'-TAATACGACTCACTATAGGG-3'
 3' 测序引物: T7t: 5'-GCTAGTTATTGCTCAGCGG-3'
 载体标签: thioredoxin (N 端); His (中间和 C 端)
 载体抗性: 氨苄

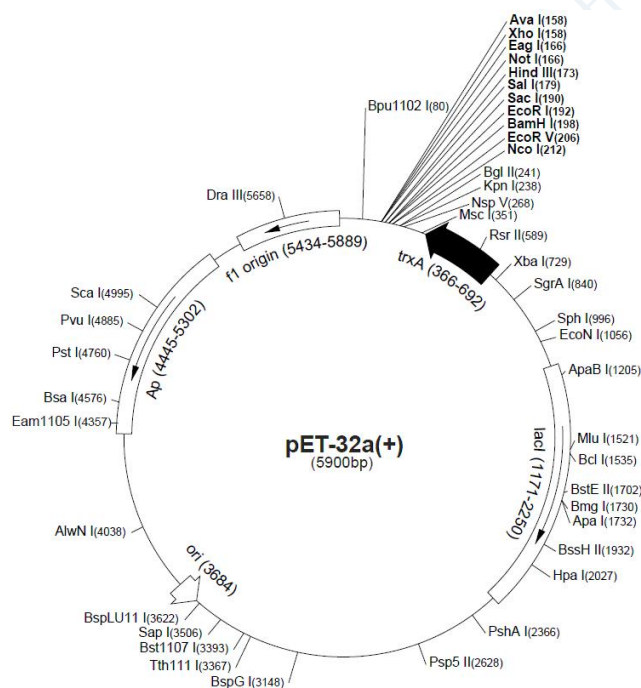
备注: pET32a(+)载体用于表达可溶性, 具有活性功能的蛋白;pET-32a(+)载体具有 N 端 Thrombin(凝血酶)酶切位点, N 端肠激酶酶切位点。pET32a(+), pET32b(+), pET32c(+)载体的差异主要是在于多克隆位点, 其他地方完全一致。

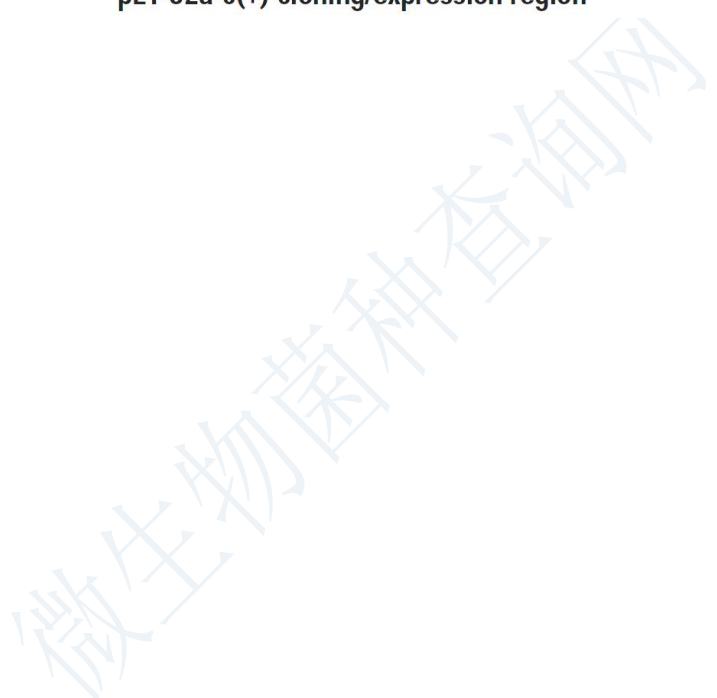
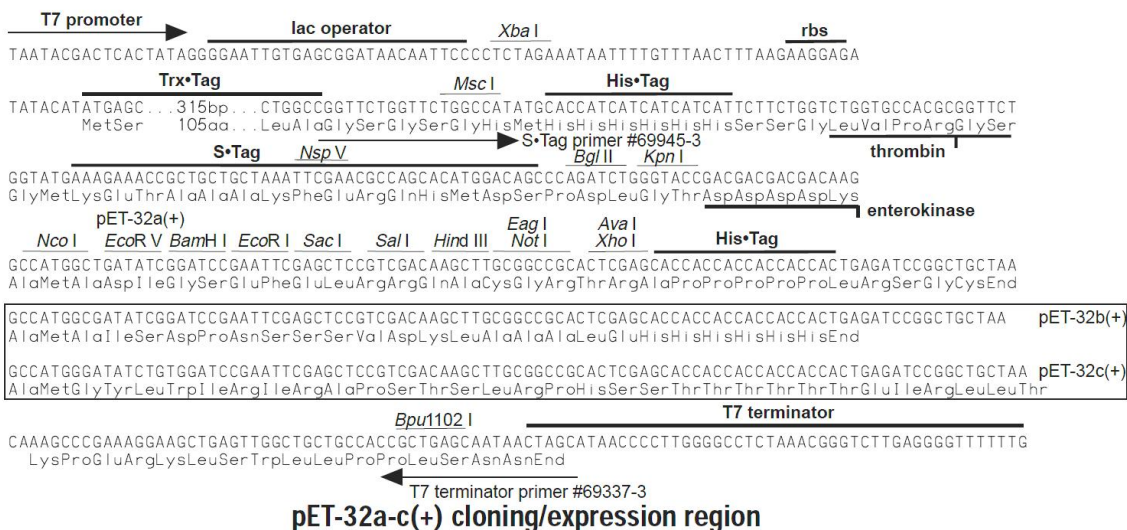
稳定性: 瞬时表达

组成型: 组成型

病毒/非病毒: 非病毒

pet32a 载体质粒图谱和多克隆位点信息





pET-32a(+) sequence landmarks

T7 promoter	764-780
T7 transcription start	763
Trx•Tag coding sequence	366-692
His•Tag coding sequence	327-344
S•Tag coding sequence	249-293
Multiple cloning sites (<i>Nco</i> I - <i>Xho</i> I)	158-217
His•Tag coding sequence	140-157
T7 terminator	26-72
<i>lacI</i> coding sequence	1171-2250
pBR322 origin	3684
<i>bla</i> coding sequence	4445-5302
f1 origin	5434-5889

The maps for pET-32b(+) and pET-32c(+) are the same as pET-32a(+) (shown) with the following exceptions: pET-32b(+) is a 5899bp plasmid; subtract 1bp from each site beyond *Bam*H I at 198. pET-32c(+) is a 5901bp plasmid; add 1bp to each site beyond *Bam*H I at 198 except for *Eco*R V, which cuts at 209.

pet32a 载体简介

pET32 系列载体是设计用来克隆构建和高水平融合表达带有 109 个氨基酸 Trx 标签的蛋



白质序列。将基因插入到载体的多克隆位点，能够获得融合表达蛋白质。同时融合蛋白包含有 His 标签和 S 标签，这些可以用于蛋白表达检测和纯化过程。

载体的多克隆位点见上面的图谱。需要注意的是图谱中的核苷酸编码顺序是以 pBR322 载体的复制方向为正方向，所以 T7 表达区域在图谱中是处于反向的位置。T7 RNA 聚合酶启动的克隆和表达区域在质粒图谱中也被标注了出来。质粒的 F1 复制子是被定向的，所以在 T7 噬菌体聚合酶的作用下，包含有蛋白编码序列的病毒 粒子能够产生，并启动蛋白表达，同时蛋白表达将被 T7 终止子序列(Cat. No. 69337-3)的作用下终止蛋白翻译。

pet32a 载体序列

LOCUS pET-32a(+) 5900 bp DNA circular 11-SEP-2008

SOURCE

ORGANISM

COMMENT This file is created by Vector NTI

COMMENT ORIGDB|GenBank

COMMENT VNTAUTHORNAMECOMMENT VNTOAUTHORAD1|Novagen Inc. |

FEATURES Location/Qualifiers

promoter complement(764..780)

/vntifkey="30"

/label=T7\promoter

misc_signal complement(366..692)

/vntifkey="87"

/label=trx\tag

protein_bind complement(327..344)

/vntifkey="31"

/label=His\tag



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terminator      complement(26..72)
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CDS             1171..2250
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rep_origin      complement(3684..3684)
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CDS             complement(4445..5302)
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rep_origin      complement(5434..5889)
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CDS             complement(737..761)
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protein_bind complement (219..233)

/vntifkey="31"

/label=enterokinase

protein_bind complement (300..317)

/vntifkey="31"

/label=thrombin

BASE COUNT 1391 a 1564 c 1560 g 1385 t

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