基本信息

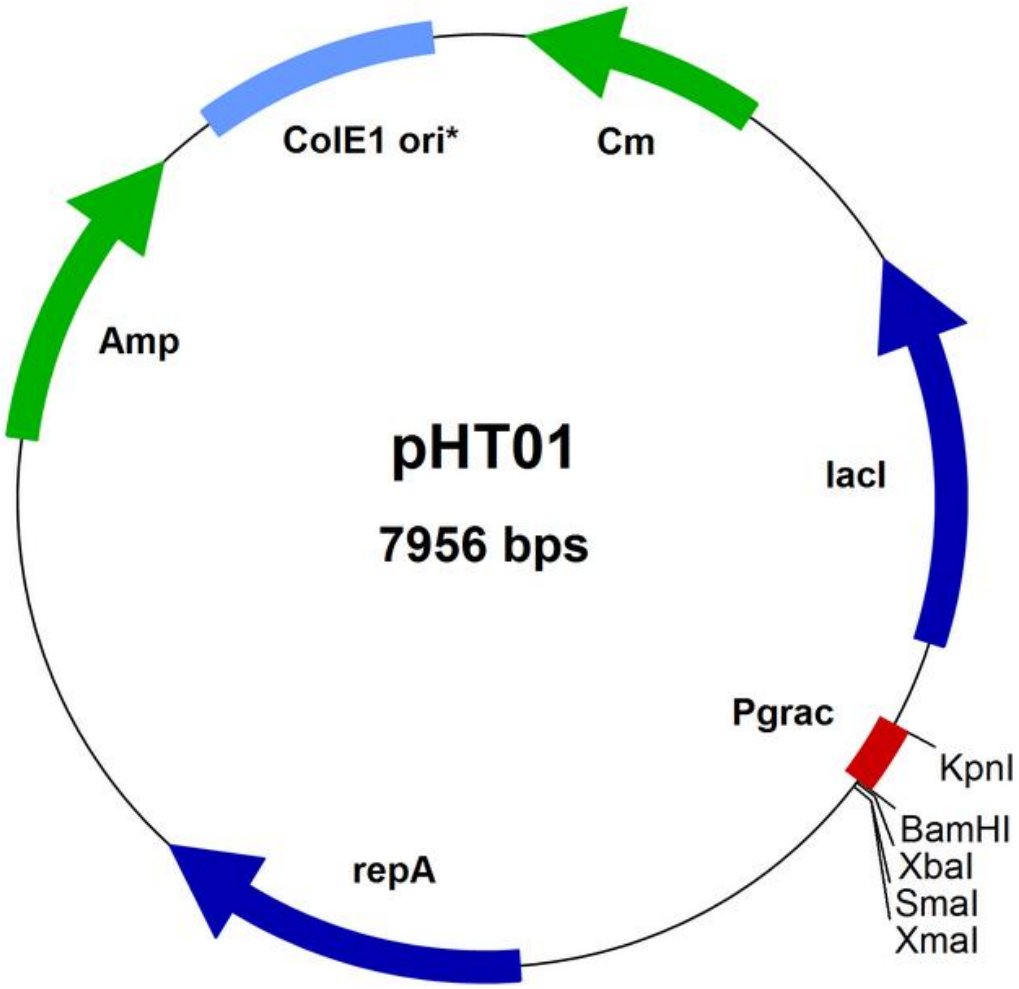
启动子:	Lac
平台编号:	bio-132157
复制子:	ColE1 ori
质粒分类:	广宿主系列，枯草杆菌载体
质粒大小:	7956bp
原核抗性:	Amp
筛选标记:	Chl
克隆菌株:	DH5α
培养条件:	37℃，有氧 LB
表达宿主:	枯草芽孢杆菌
诱导方式:	IPTG 诱导
5'测序引物:	根据序列设计引物
3'测序引物:	根据序列设计引物

质粒简介

All vectors use the strong promoter preceding the groESL operon of Bacillus subtilis fused to the lac operator allowing their induction by addition of IPTG. While the background level of expression of these expression cassettes is very low in the absence of the inducer, an induction factor of about 1,300 was measured using the bgaB reporter gene. The amount of recombinant protein produced after addition of IPTG may represent 10 and 13%, respectively, of the total cellular protein. High level secretion of amyQ α-amylase and cellulase A and B of Clostridium thermocellum was demonstrated. An efficient Shine-Dalgarno sequence as well as a multiple cloning site (BamH I, Xba I, AatII, SmaI) were also inserted. To obtain secretion of recombinant proteins, the coding region for the signal peptide of the amyQ gene encoding an α-amylase was fused to the SD sequence of pHT01, thereby constructing pHT43.

大肠杆菌-枯草芽孢杆菌穿梭质粒的表达载体 pHT01 可以在枯草芽孢杆菌中高效表达重组外源蛋白。载体基于强σA-依赖性启动子的枯草杆菌 groE 操纵子，通过添加 lac 操纵子改造成为一种高效可控的（IPTG 诱导的）启动子。

质粒图谱



质粒序列

LOCUS Exported File 7956 bp ds-DNA circular SYN 07-2-2015

DEFINITION .

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VERSION     .
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  ORGANISM  synthetic DNA construct
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  AUTHORS   .
  TITLE     Direct Submission
  JOURNAL   Exported 2015-2-7 from MLCC
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