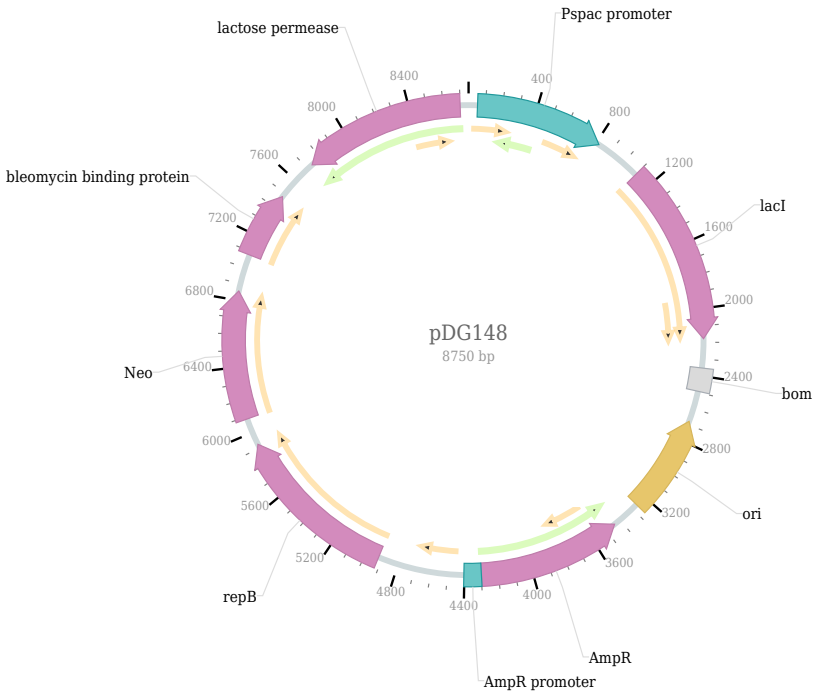
pDG148

载体编号 Vector ID	V013037
抗性 Antibiotic Resistance	Ampicillin
长度 Length	8750 bp
载体类型 Vector Type	Protein expression
宿主 Host	Bacillus subtilis

产品信息

复制子 Replication Origin	ori
培养菌株 Growth Strain(s)	DH5a
培养温度 Growth Temperature	30℃
备注 Comment	pDG148 is an E. coli–Bacillus shuttle vector with an IPTG-inducible lac promoter, Amp and Kan resistance, for inducible gene expression in Bacillus subtilis and other Gram-positive bacteria. The Pspac (originally designated spac-I) promoter is a hybrid IPTG-inducible promoter constructed by Yansura and Henner (1984), fusing a Bacillus subtilis phage SPO-1 promoter with the Escherichia coli lac operator placed at the transcription initiation site. Co-expressed with a constitutively produced E. coli LacI repressor, Pspac-driven transcription is repressed without IPTG and rapidly derepressed upon IPTG addition, establishing the first lac-based, transcriptionally regulated expression system in B. subtilis.

质粒图谱



复溶方法

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.