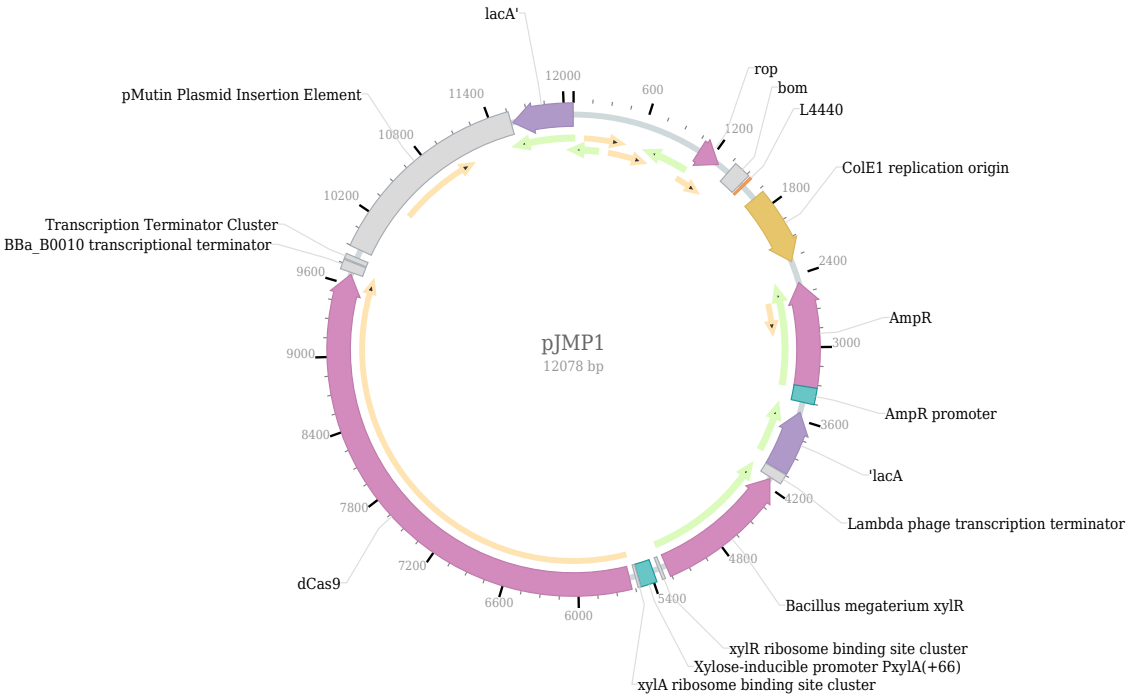
pJMP1

载体编号 Vector ID	V006809
抗性 Antibiotic Resistance	Ampicillin
长度 Length	12078 bp
载体类型 Vector Type	Bacterial Expression, CRISPR

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Bacillus subtilis erythromycin/lincomycin marker
拷贝数 Copy Number	High Copy
启动子 Promoter	xylA
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	TCCTTTGTTTATCCACCGAAC
3' 引物 3' Primer	GCCTCGTGATACGCCTATTT
培养菌株 Growth Strain(s)	DH10B
备注 Comment	pJMP1 is a core plasmid designed for CRISPR interference (CRISPRi) in Bacillus subtilis, engineered to express the nuclease-deactivated Cas9 (dCas9) under the control of a xylose-inducible promoter (Pxyl) and carry an erythromycin resistance gene (Erm_r) for selection. pJMP1 enables dose-dependent and specific transcriptional repression of target genes when paired with sgRNA-expressing plasmids like pJMP2 or pJMP3. pJMP1 integrates into lacA locus.

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 ℃.