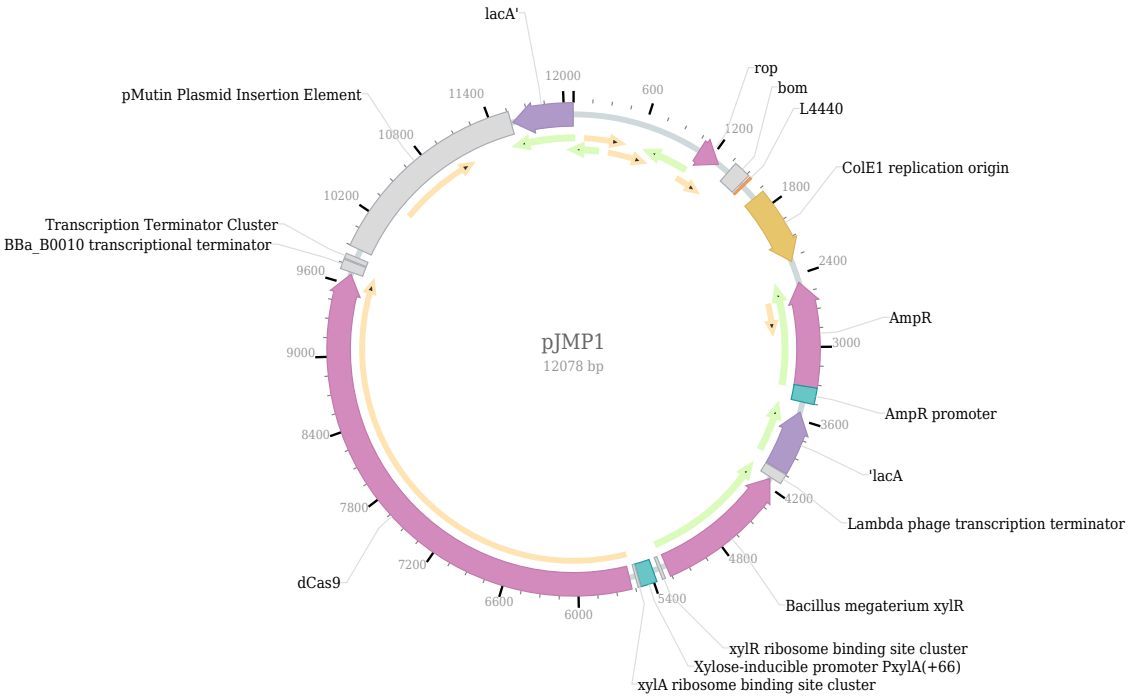
pJMP1

Vector ID	V006809
Antibiotic Resistance	Ampicillin
Length	12078 bp
Vector Type	Bacterial Expression, CRISPR

Product Information

Replication Origin	ori
Selection Marker	Bacillus subtilis erythromycin/lincomycin marker
Copy Number	High Copy
Promoter	xylA
Cloning Method	Restriction Enzyme
5' Primer	TCCTTTGTTTATCCACCGAAC
3' Primer	GCCTCGTGATACGCCTATTT
Growth Strain(s)	DH10B
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 (Ermᵣ) 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.

Vector Map



Plasmid Resuspension Protocol

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 ℃.