pSIP403

Vector ID	V011282
Antibiotic Resistance	Erythromycin
Length	7435 bp
Vector Type	Bacterial Expression

Product Information

Replication Origin	ori
Promoter	sppA
Cloning Method	Restriction Enzyme
5' Primer	GGCTTTTATAATATGAGATAATGCCGAC
Growth Strain(s)	JM108
Growth Temperature	37℃
Comment	The pSIP403 is for expression of gene of interest in Lactobacillus plantarum and L. sakei. sppK perceives an extracellular signal and autophosphorylates. It then transfers the phosphate to sppR. The phosphorylated sppR binds to the sppA promoter, activating it and initiating transcription of the sppA gene. Erythromycin was added as follows: 200 μg/mL for E. coli and 10 μg/mL for lactobacilli.

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 ℃.