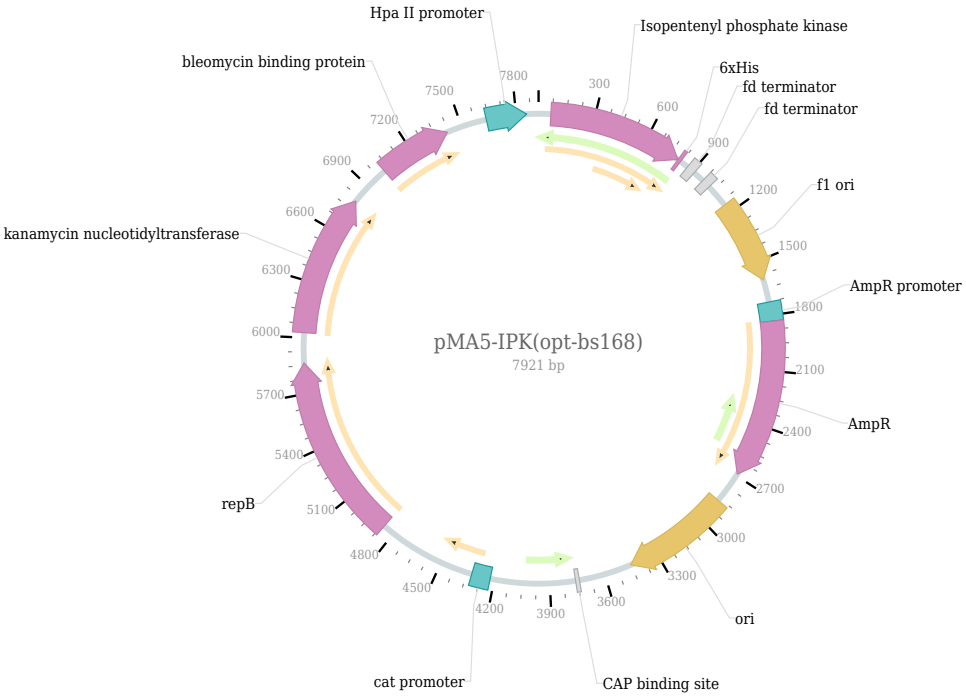
pMA5-IPK(opt-bs168)

Vector ID	V014368
Antibiotic Resistance	Ampicillin
Length	7921 bp
Vector Type	Protein expression
Host	Bacillus subtilis

Product Information

Replication Origin	ori
Selection Marker	Kan
Promoter	HpaII
Growth Strain(s)	DH10b
Growth Temperature	37℃
Comment	pMA5-IPK(opt-bs168) is an E. coli-Bacillus subtilis shuttle expression vector carrying a codon-optimized (B. subtilis 168) isopentenyl phosphate kinase (IPK) gene under the HpaII promoter. Designed for engineering terpenoid/isoprenoid biosynthesis by converting isopentenyl phosphate to IPP in engineered Bacillus strains.

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 ℃.