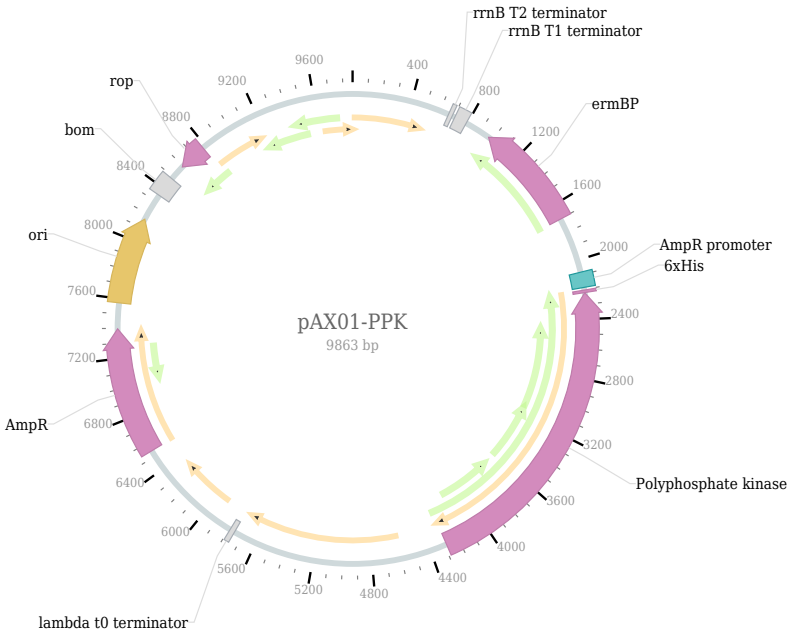
pAX01-PPK

Vector ID	V012952
Antibiotic Resistance	Ampicillin
Length	9863 bp
Vector Type	Protein expression
Host	Bacillus subtilis

Product Information

Replication Origin	ori
Selection Marker	Ery
Promoter	xylA
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	The pAX01-PPK includes a Polyphosphate kinase (PPK). It is a E. coli-B. subtilis shuttle plasmid based on pAX01 (V000803). It carries a ColE1 ori and bla (Amp^R) for propagation in E. coli, and integrates into the B. subtilischromosome at lacA via double-crossover homologous recombination, with Erm^R as the chromosomal selection marker. Gene expression is tightly controlled by the xylose-inducible PxylA promoter, making it well-suited for secreted recombinant protein production in B. subtilis.

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 ℃.