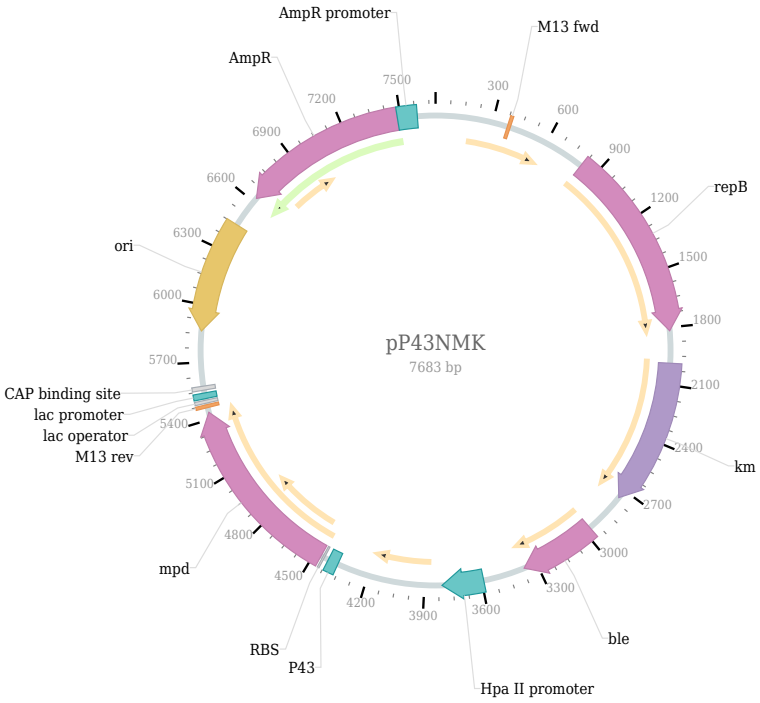
pP43NMK

Vector ID	V004184
Antibiotic Resistance	Ampicillin
Length	7683 bp
Vector Type	Shuttle expression-secretion vector

Product Information

Replication Origin	ori
Source/Author	Zhang XZ, Cui ZL, Hong Q, Li SP.
Promoter	P43
Growth Strain(s)	JM108
Growth Temperature	37℃
Comment	pP43NMK (7.7 kb) is a shuttle vector for both E. coli and Bacillus subtilis. It features the strong constitutive P43 promoter for robust expression in B. subtilis. The vector carries AmpR for E. coli selection, KmR (kanamycin) for B. subtilis selection, a ColE1 ori for E. coli, and repB for replication in Bacillus. It also includes the mpd gene (methyl parathion hydrolase) as a reporter.

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 ℃.