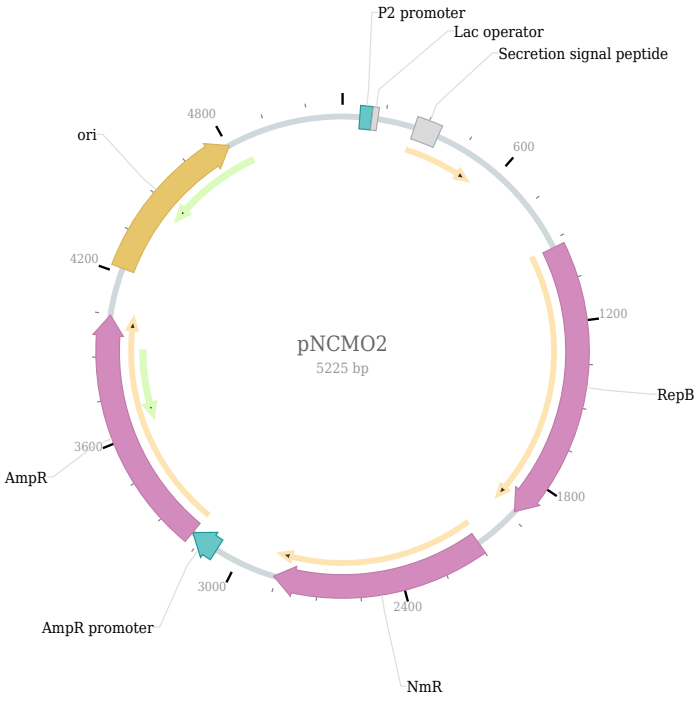
pNCMO2

Vector ID	V017507
Antibiotic Resistance	Ampicillin
Length	5225 bp
Vector Type	Brevibacillus Expression Vector

Product Information

Source/Author	Takara Bio
Promoter	P2
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pNCMO2 is a shuttle vector for Brevibacillus and E. coli. Accordingly, the expression plasmid is constructed in E. coli, after which it is introduced to Brevibacillus for protein expression. The P2 promoter, derived from a cell wall protein of the host bacterium, is used as the expression promoter for pNCMO2. Because the P2 promoter does not work in E. coli, it is useful in the cloning of the target gene. However, it is an exceptionally strong promoter in Brevibacillus resulting in efficient protein production.

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 ℃.