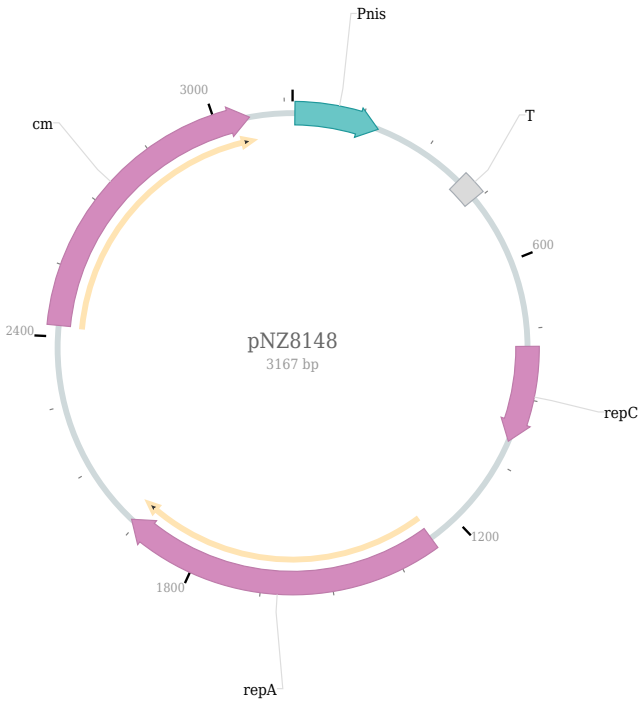
pNZ8148

Vector ID	V012804
Antibiotic Resistance	Chloramphenicol
Length	3167 bp
Vector Type	expression plasmid of Lactobacilli

Product Information

Promoter	PnisA
Cloning Method	Restriction Enzyme
Growth Strain(s)	MC1061
Growth Temperature	30℃
Comment	pNZ8148 is a chloramphenicol-resistant plasmid. It includes 2 genes for the replication proteins repA and repC, and the nisin-inducible promoter (P nisA). The replicons of the vectors pNZ8008, pNZ8148, pNZ8149 and pNZ8150 are identical and came originally from the Lactococcus lactis plasmid pSH71. However, this replicon has a broad host range. Plasmids with this replicon can replicate in many Gram-positive bacteria, such as Lactobacillus plantarum and Streptococcus thermophilus. For propagation of pNZ8148, we recommend E. coli strain MC1061 (10 µg/ml chloramphenicol; growth of colonies may take 2 days). pUC57-pNZ8148 is recommended as a replacement, which can be grown in conventional clonal strains and is easier to use.

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 ℃.