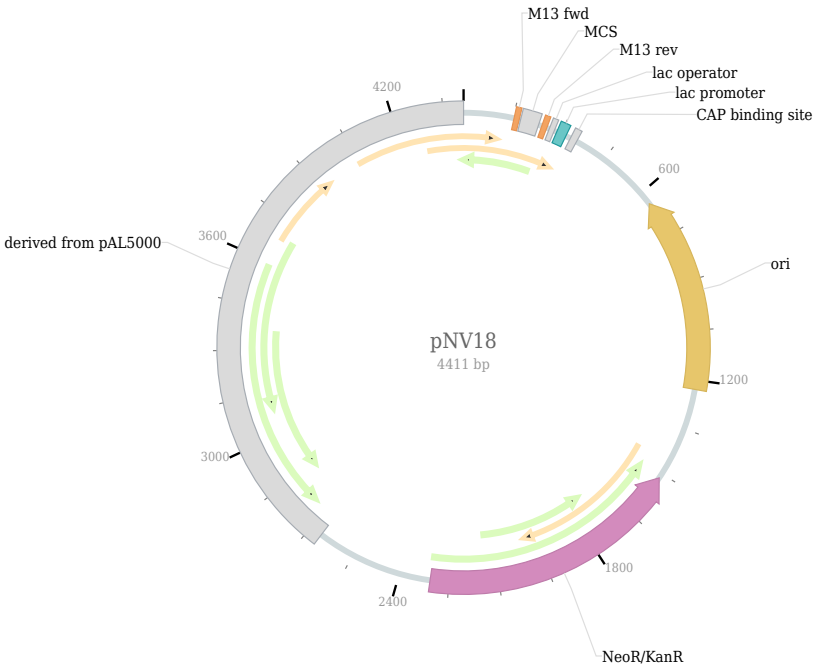
pNV18

Vector ID	V004250
Antibiotic Resistance	Kanamycin
Length	4411 bp
Vector Type	Shuttle vector

Product Information

Replication Origin	ori
Source/Author	Chiba K, Hoshino Y, Ishino K, Kogure T, Mikami Y, Uehara Y, Ishikawa J.
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pNV18 is created by inserting a 1.8 kb DNA fragment containing the pAL5000 origin of replication into the unique NheI site of either pK18. Key features of pNV18 include: 1. Compact size. 2. Multiple cloning sites: The latest version includes sites for HindIII, SphI, PstI, SalI, HincII, XbaI, BamHI, KpnI, and EcoRI. 3. The lacZ gene (α fragment) facilitates blue-white selection in E. coli. 4. The aph gene from Tn5 provides kanamycin and neomycin resistance in E. coli and Nocardia species. 5. Broad host range: Effective in N. farcinica, N. asteroides, and various mycobacteria.

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 ℃.