pAC-94N

Vector ID	V017359
Antibiotic Resistance	Chloramphenicol
Length	9268 bp
Vector Type	Protein expression
Host	E. coli

Product Information

Replication Origin	p15A ori
Copy Number	Low
Growth Strain(s)	DH10B
Growth Temperature	30℃
Comment	pAC-94N (9.3 kb) is a low-copy bacterial vector for gene expression and metabolic engineering. It carries a tet promoter (tetracycline-inducible) driving the crtI gene (phytoene desaturase), part of the carotenoid biosynthesis pathway. The vector also includes CmR (chloramphenicol resistance) for selection, a p15A origin for low-copy replication, and a cat promoter driving the chloramphenicol acetyltransferase gene. This design is suitable for pathway engineering and gene regulation studies in E. coli.

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 ℃.