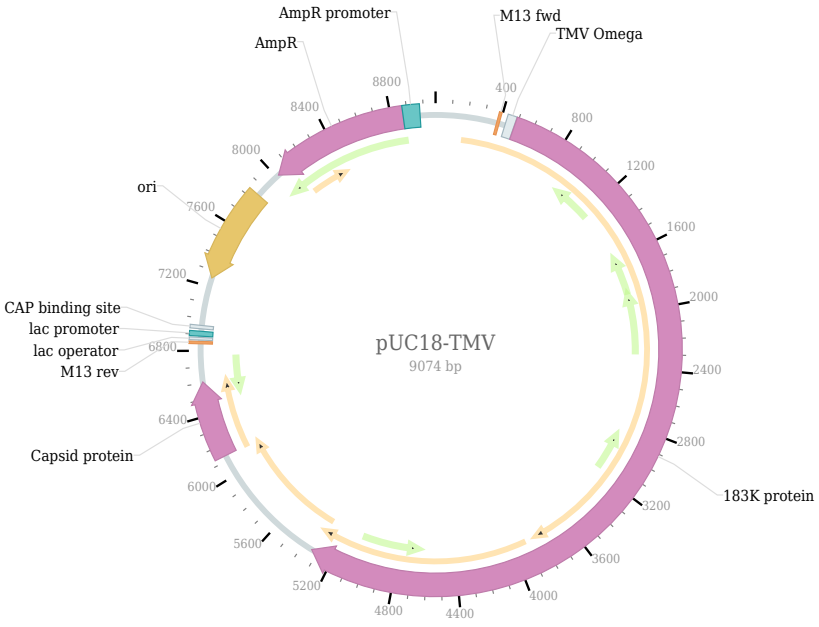
pUC18-TMV

Vector ID	V012979
Antibiotic Resistance	Ampicillin
Length	9074 bp
Vector Type	Gene template
Host	E. coli

Product Information

Replication Origin	ori
Copy Number	High copy number
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pUC18-TMV is a hybrid vector that combines the standard pUC18 bacterial cloning plasmid with elements from the Tobacco Mosaic Virus (TMV). It is designed for high-level protein expression in plants. The vector utilizes the pUC18 backbone, which includes a multiple cloning site within the lacZ gene for easy insert cloning and blue/white screening, and an ampicillin resistance gene for selection in E. coli. The incorporated TMV components facilitate efficient replication and high-yield expression of the inserted gene in plant systems.

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 ℃.