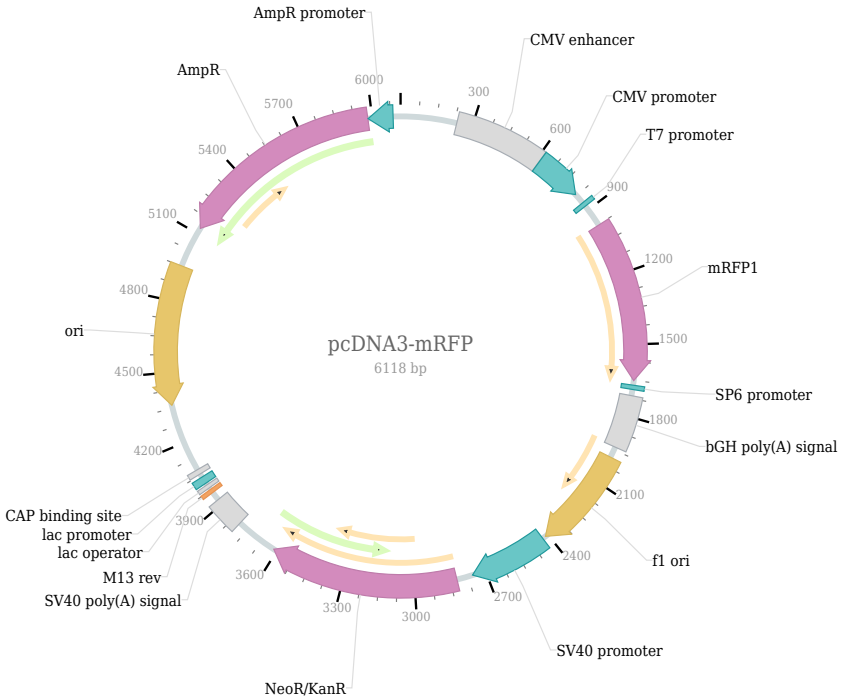
pcDNA3-mRFP

Vector ID	V007435
Antibiotic Resistance	Ampicillin
Length	6118 bp
Vector Type	Mammalian Expression Vectors

Product Information

Replication Origin	ori
Selection Marker	Neomycin
Copy Number	High copy number
Promoter	CMV
Cloning Method	Enzyme digestion and ligation
5' Primer	T7 Fwd:5'd[TAATACGACTCACTATAGGG]3'
Fusion Tag	mRFP
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The pcDNA3-mRFP plasmid is a mammalian expression vector designed for high-level protein expression and visualization. It utilizes a CMV promoter to drive red fluorescent protein (mRFP) expression, enabling real-time tracking in eukaryotic cells. It contains ampicillin resistance for bacterial selection and neomycin resistance (G418) for generating stable mammalian cell lines.

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 ℃.