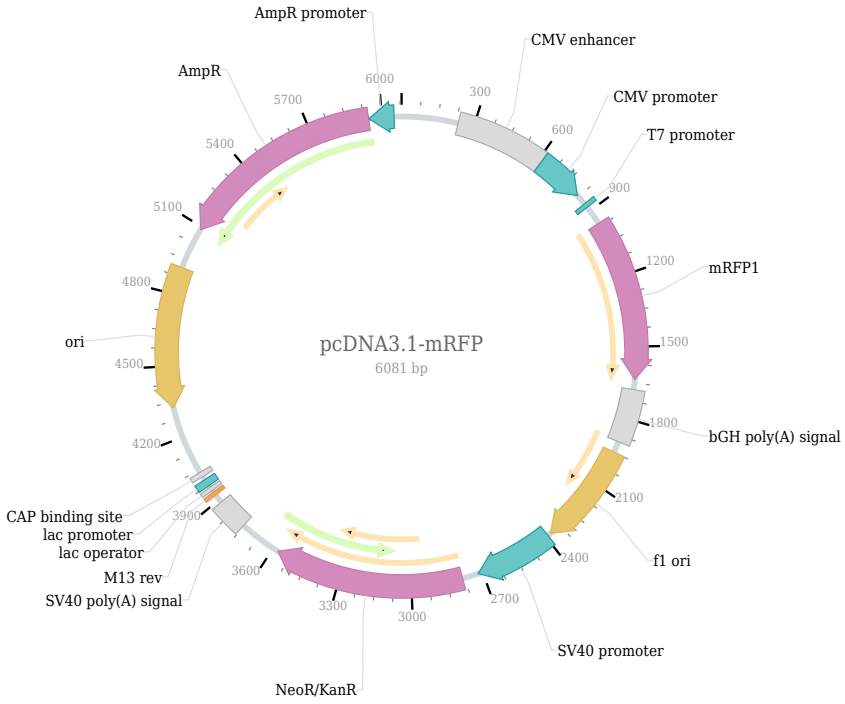
pcDNA3.1-mRFP

Vector ID	V012358
Antibiotic Resistance	Ampicillin
Length	6081 bp
Vector Type	Mammalian Expression Vectors, Fluorescent Protein

Product Information

Replication Origin	ori
Selection Marker	mRFP1
Promoter	CMV
Growth Strain(s)	DH10B
Comment	pcDNA3.1-mRFP is a mammalian expression vector derived from the pcDNA3.1(+) backbone, with the monomeric Red Fluorescent Protein (mRFP) gene inserted between EcoRI and XhoI sites. It can be used either as a negative control (NC) within the pcDNA3.1(+) series or to construct fusion plasmids for overexpressing target genes fused to mRFP. The vector carries a Neo resistance gene, allowing G418 selection in eukaryotic cells to facilitate stable transfection and protein expression studies.

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 ℃.