pEGFP-1

Vector ID	V012025
Antibiotic Resistance	Kanamycin
Length	4151 bp
Vector Type	Fluorescent Protein Genes & Plasmids

Product Information

Replication Origin	ori
Source/Author	Clontech
Selection Marker	Neomycin/G418(Geneticin)
Copy Number	High copy number
Promoter	SV40
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pEGFP-1 is a promoterless mammalian expression vector designed for gene expression studies. It encodes an Enhanced Green Fluorescent Protein (EGFP) variant with brighter fluorescence (Ex/Em: 488/507 nm). At 4.15 kb, it contains a multiple cloning site upstream of the EGFP gene for inserting promoters of interest. Selectable markers include kanamycin resistance in bacteria and neomycin (G418) in mammalian cells. It features origins for replication in both E. coli(pUC ori) and mammalian cells (SV40 ori), serving as a versatile reporter vector.

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 ℃.