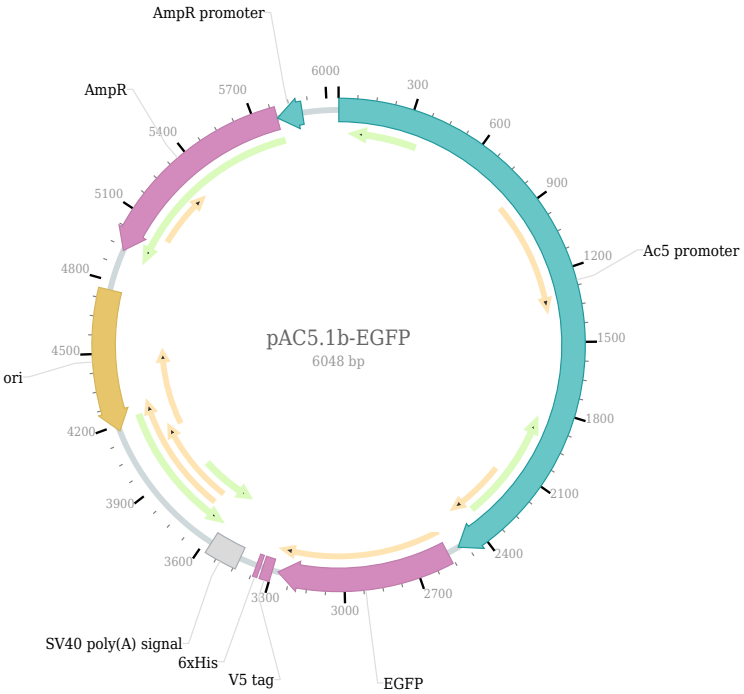
pAC5.1b-EGFP

Vector ID	V012890
Antibiotic Resistance	Ampicillin
Length	6048 bp
Vector Type	Protein expression
Host	Insect cells

Product Information

Replication Origin	ori
Promoter	Ac5
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The plasmid vector pAC5.1b-EGFP is an insect cell expression vector designed for constitutive protein expression in Drosophila S2 cells. It utilizes the strong Ac5 promoter to drive the expression of an enhanced green fluorescent protein (EGFP) tag. The vector includes C-terminal V5 epitope and 6xHis tags for protein detection and purification, an ampicillin resistance gene for bacterial selection, and a pUC origin for high-copy replication in E. coli. It is typically used for transient expression or for generating stable cell lines when co-transfected with a separate selection 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 ℃.