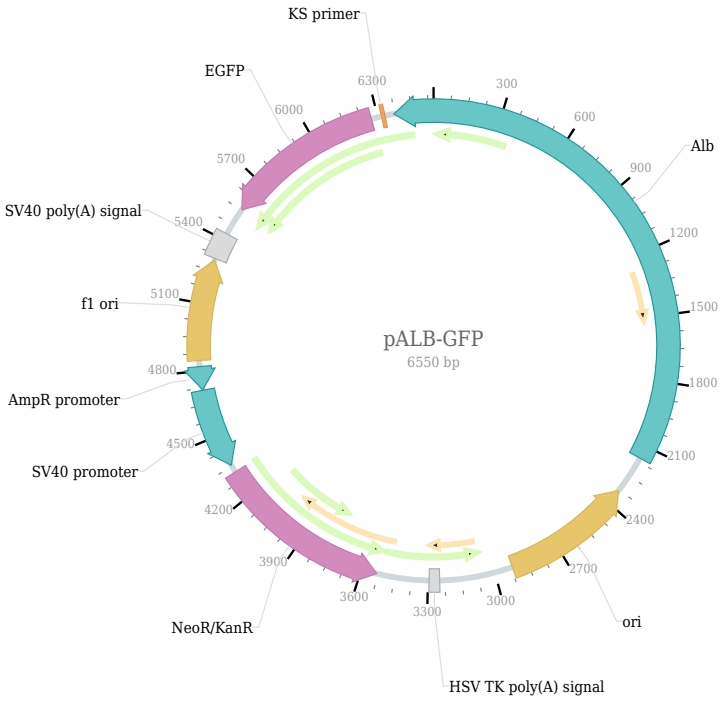
pALB-GFP

Vector ID	V006964
Antibiotic Resistance	Kanamycin
Length	6550 bp
Vector Type	Mammalian Expression

Product Information

Replication Origin	ori
Selection Marker	Neomycin (select with G418)
Copy Number	High Copy
Promoter	SV40
Cloning Method	Restriction Enzyme
5' Primer	pBR322ori-F
3' Primer	EGFP-N
Growth Strain(s)	DH10B
Comment	pALB-GFP is a hepatocyte-specific reporter plasmid built from promoterless pEGFP-1, carrying a 2.3-kb mouse albumin (ALB) enhancer-promoter upstream of EGFP. The full-length ALB regulatory sequence drives stable GFP expression in both hepatic progenitors and mature hepatocytes, with no activity in undifferentiated ES cells or non-hepatic cells. Its distinguishable GFP signal supports fluorescence imaging and FACS purification of ES-derived liver precursors. This plasmid enables real-time tracking of in vitro hepatic differentiation and in vivo liver repopulation by transplanted hepatic cells.

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 ℃.