# pALB-GFP

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| **载体编号 Vector ID** | V006964 |
| **抗性 Antibiotic Resistance** | Kanamycin |
| **长度 Length** | 6550 bp |
| **载体类型 Vector Type** | Mammalian Expression |

## 产品信息

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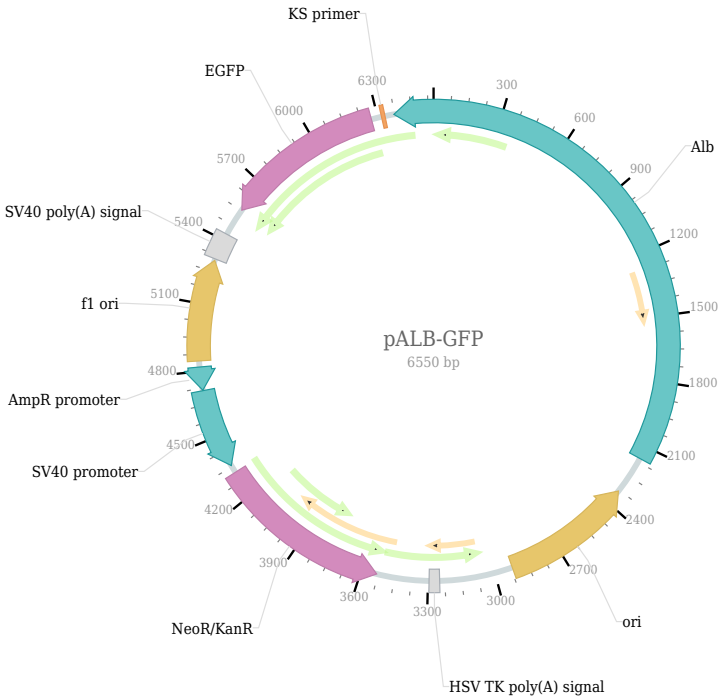
| **复制子 Replication Origin** | ori |
| **筛选标记 Selection Marker** | Neomycin (select with G418) |
| **拷贝数 Copy Number** | High Copy |
| **启动子 Promoter** | SV40 |
| **克隆方法 Cloning Method** | Restriction Enzyme |
| **5' 引物 5' Primer** | pBR322ori-F |
| **3' 引物 3' Primer** | EGFP-N |
| **培养菌株 Growth Strain(s)** | DH10B |
| **备注 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. |

## 质粒图谱



## 复溶方法

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 ℃.