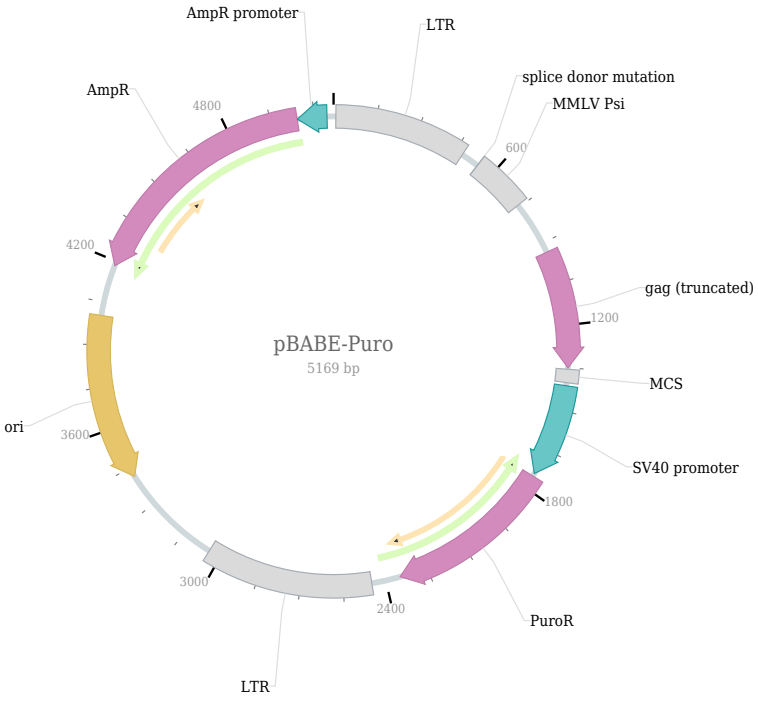
pBABE-Puro

Vector ID	V010490
Antibiotic Resistance	Ampicillin
Length	5169 bp
Vector Type	Viral Expression & Packaging Vectors

Product Information

Replication Origin	ori
Source/Author	Morgenstern JP, Land H.
Selection Marker	Puromycin
Copy Number	High copy number
Cloning Method	Restriction Enzyme
5' Primer	pBABE 5'
3' Primer	pBABE 3'
Growth Strain(s)	Top10
Comment	pBABE-Puro (5.2 kb) is a retroviral vector for gene delivery. It contains LTRs (long terminal repeats) for viral integration, a MMLV Psi (Ψ) packaging signal, a truncated gag sequence, and an MCS for gene insertion. The vector also carries AmpR for bacterial selection, a pUC ori, and a SV40 promoter driving PuroR (puromycin resistance) for stable selection. It is widely used for creating stable cell lines via retroviral transduction.

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 ℃.