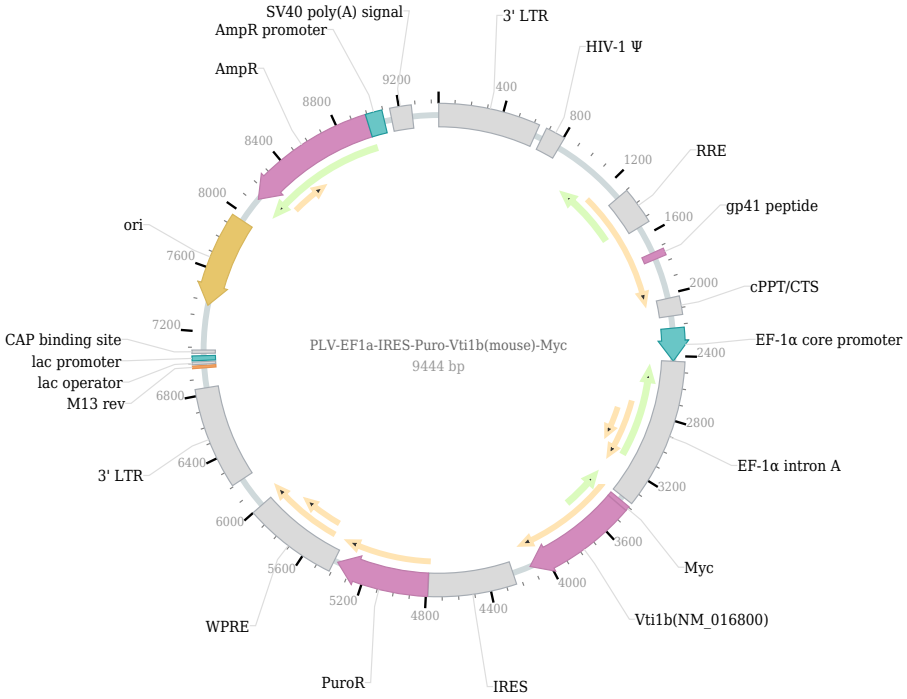
PLV-EF1a-IRES-Puro-Vti1b(mouse)-Myc

Vector ID	V041494
Accession ID	NM_016800.3
Antibiotic Resistance	Ampicillin
Length	9444 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Copy Number	High
Promoter	EF1a
5' Primer	EF-1α-F1
Fusion Tag	Myc
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable / Transient
Comment	This is a 9444 bp third-generation lentiviral vector, pLV-EF1a-IRES-Puro-Vti1b(mouse)-Myc. It is designed for constitutive expression of the mouse Vti1b gene, tagged with Myc, alongside a PuroR selection marker via an IRES element. The vector utilizes an EF1α promoter for strong transgene expression and includes all essential HIV-1 elements for packaging, reverse transcription, and integration, such as the 5' LTR (truncated), RRE, and cPPT/CTS. It also features a WPRE to enhance RNA stability.

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 ℃.