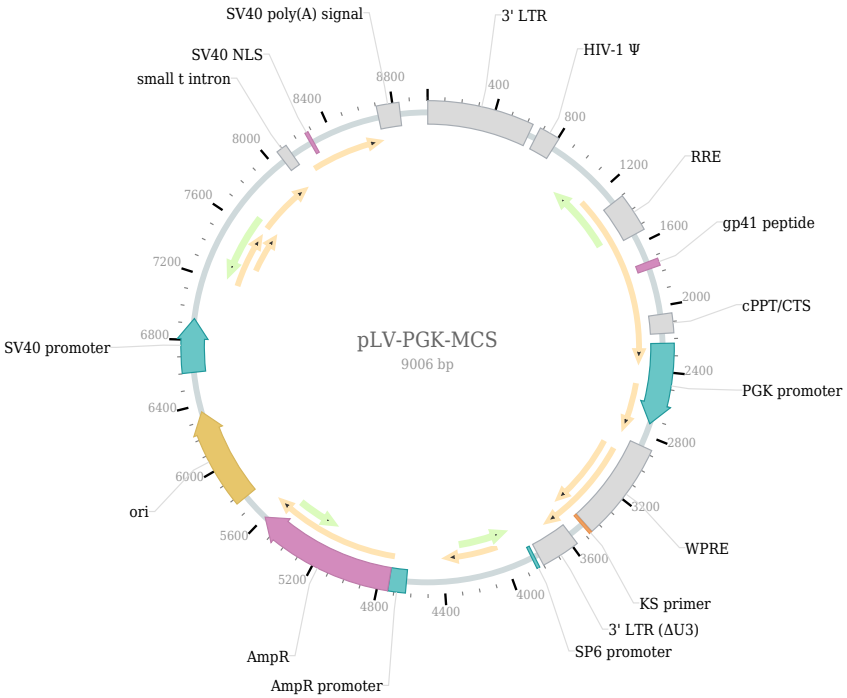
pLV-PGK-MCS

Vector ID	V038228
Antibiotic Resistance	Ampicillin
Length	9006 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Copy Number	High
Promoter	PGK
3' Primer	WPRE-R
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable / Transient
Comment	This is a 9006 bp third-generation lentiviral vector, pLV-PGK-MCS. It is designed as an empty backbone for cloning target genes, utilizing the PGK promoter to drive expression. The vector includes essential HIV-1 packaging elements (Ψ, RRE, cPPT/CTS) for viral production, the WPRE element to enhance mRNA stability, and an MCS for gene insertion. It also contains the SV40 promoter and small t intron for efficient transgene expression, along with an AmpR gene for bacterial selection.

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 ℃.