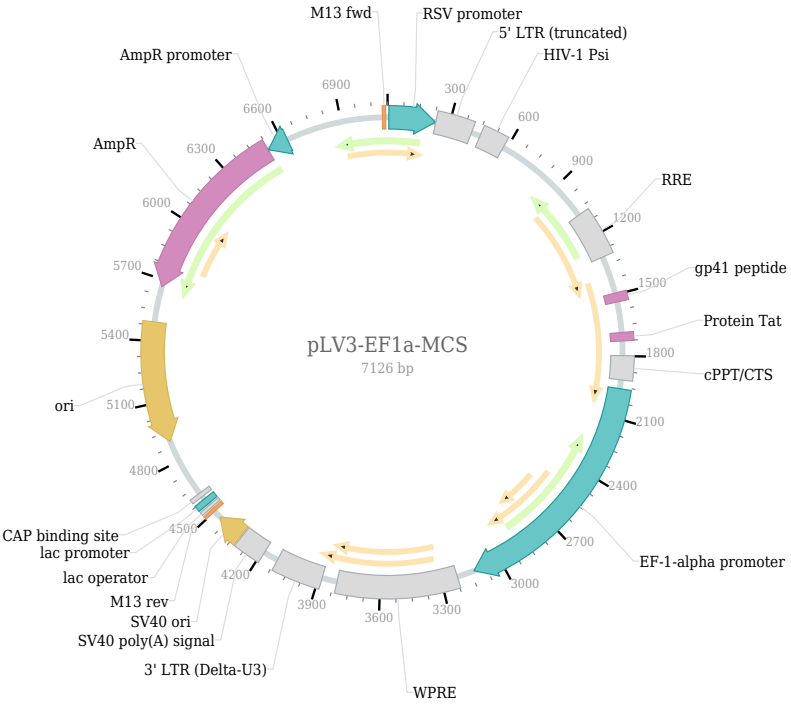
pLV3-EF1a-MCS

Vector ID	V014893
Antibiotic Resistance	Ampicillin
Length	7126 bp

Product Information

Replication Origin	ori
Promoter	EF-1α
Growth Strain(s)	Stbl3
Comment	pLV3-EF1a-MCS is a lentiviral vector for constitutive gene expression in mammalian cells. It features an EF-1α core promoter driving a gene of interest inserted into the MCS (multiple cloning site). Lentiviral elements include RSV promoter, 5' LTR (truncated), HIV-1 Ψ (packaging signal), RRE, cPPT/CTS, gp41 peptide, Protein Tat, WPRE, 3' LTR (ΔU3) for efficient transduction, nuclear import, and enhanced expression. The vector also includes AmpR for bacterial selection, M13 fwd/rev priming sites, SV40 ori/poly(A), and CAP binding site/lac promoter/operator for regulation in E. coli.

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 ℃.