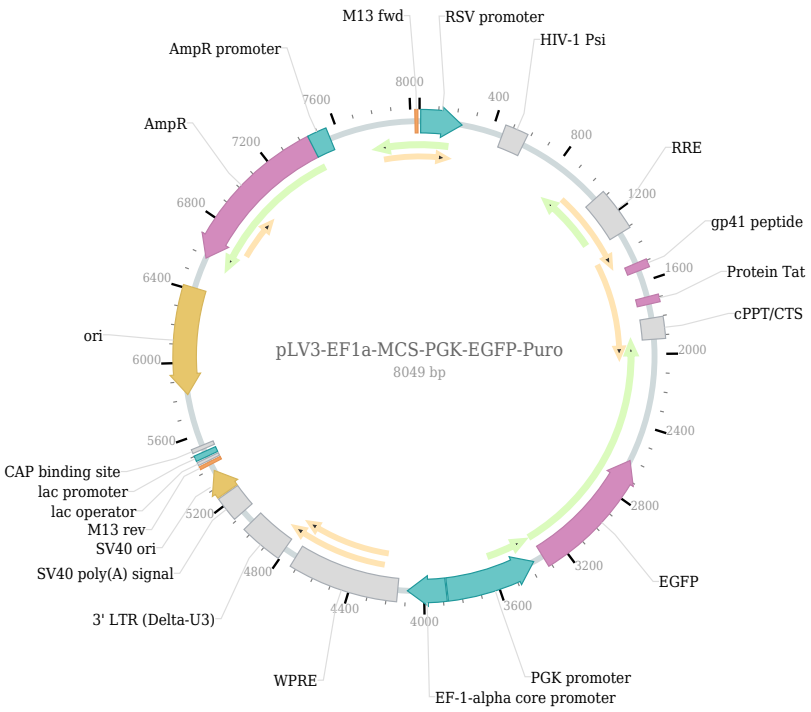
pLV3-EF1a-MCS-PGK-EGFP-Puro

Vector ID	V014741
Antibiotic Resistance	Ampicillin
Length	8049 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	mPGK
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pLV3-EF1a-MCS-PGK-EGFP-Puro (8.0 kb) is a lentiviral vector for constitutive expression of two independent transgenes. It features an EF-1α core promoter driving a gene of interest inserted into the MCS, and a separate PGK promoter driving EGFP-Puro fusion (green fluorescent protein and puromycin resistance) for visual tracking and antibiotic selection. Lentiviral elements include RSV promoter, 5' LTR, HIV-1 Ψ, RRE, gp41 peptide, Tat, cPPT/CTS, WPRE, and 3' ΔU3 LTR. The vector also carries AmpR for bacterial selection, pUC ori, M13 sites, and SV40 ori/poly(A).

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 ℃.