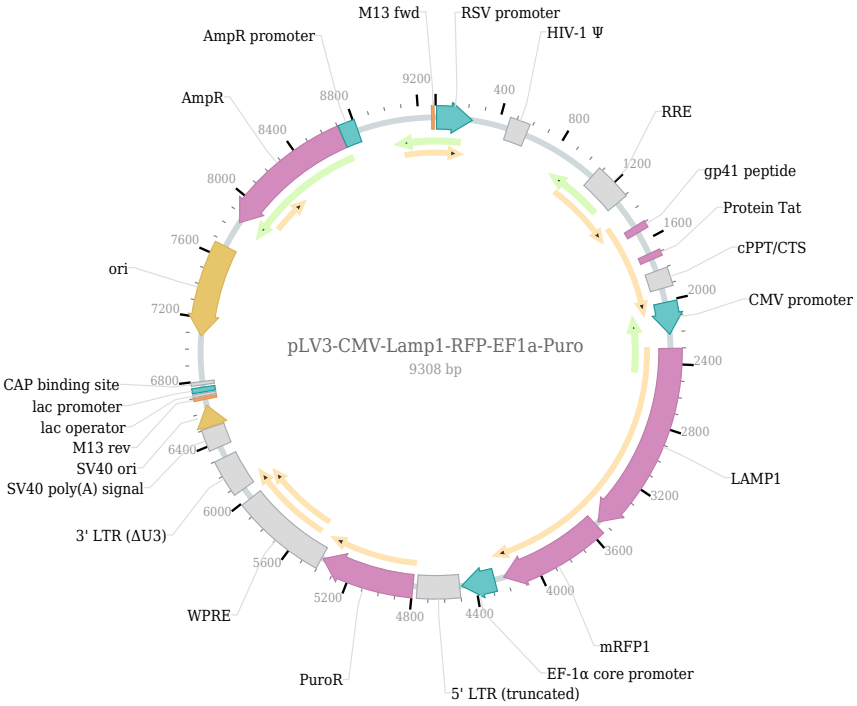
pLV3-CMV-Lamp1-RFP-EF1a-Puro

Vector ID	V017764
Antibiotic Resistance	Ampicillin
Length	9308 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	CMV
5' Primer	CMV-F
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pLV3-CMV-Lamp1-RFP-EF1a-Puro drives expression of LAMP1 (lysosome-associated membrane protein 1), a classic late endosomal/lysosomal membrane marker widely used for subcellular localization studies, with an mRFP1 fluorescent tag. This lentiviral vector features a C-terminal mRFP1 fusion for direct fluorescence tracking and includes dual promoters (CMV and EF-1α), a PuroR cassette for puromycin selection, and WPRE, RRE, and cPPT/CTS elements to enhance viral packaging and transduction efficiency.

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 ℃.