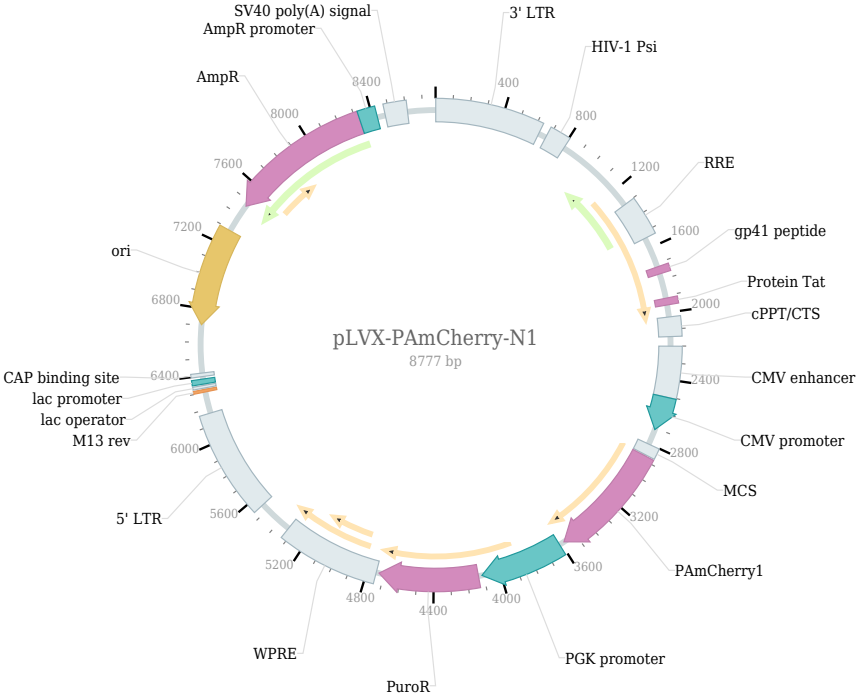
pLVX-PAmCherry-N1

Vector ID	V012716
Antibiotic Resistance	Ampicillin
Length	8777 bp
Vector Type	Viral Expression & Packaging Vectors

Product Information

Replication Origin	ori
Source/Author	Clontech
Selection Marker	Puromycin
Copy Number	High copy number
Promoter	mPGK
Cloning Method	Enzyme Cut
Fusion Tag	PAmCherry
Growth Strain(s)	stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable
Comment	The pLVX-PAmCherry-N1 is a Lentiviral Gene Expression with Photoactivatable Fluorescence. The pLVX-PAmCherry-C1 vector is an HIV-1-based lentiviral expression vector designed to efficiently infect cells and express your gene of interest. The lentiviral particles derived from this vector encode a photoactivatable fluorescent protein, PAmCherry, fused to your gene of interest. PAmCherry, a mutant of mCherry, exhibits no fluorescence until photoactivated by exposure to light within the 350-400 nm wavelength range. Upon activation, PAmCherry emits light at 564 nm (excitation) and 595 nm (emission). Genes cloned into the vector's MCS will be expressed as fusion proteins at the C-terminus of PAmCherry, provided they are in-frame and lack intervening stop codons. This allows for precise expression control and visualization of your protein of interest.

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 ℃.