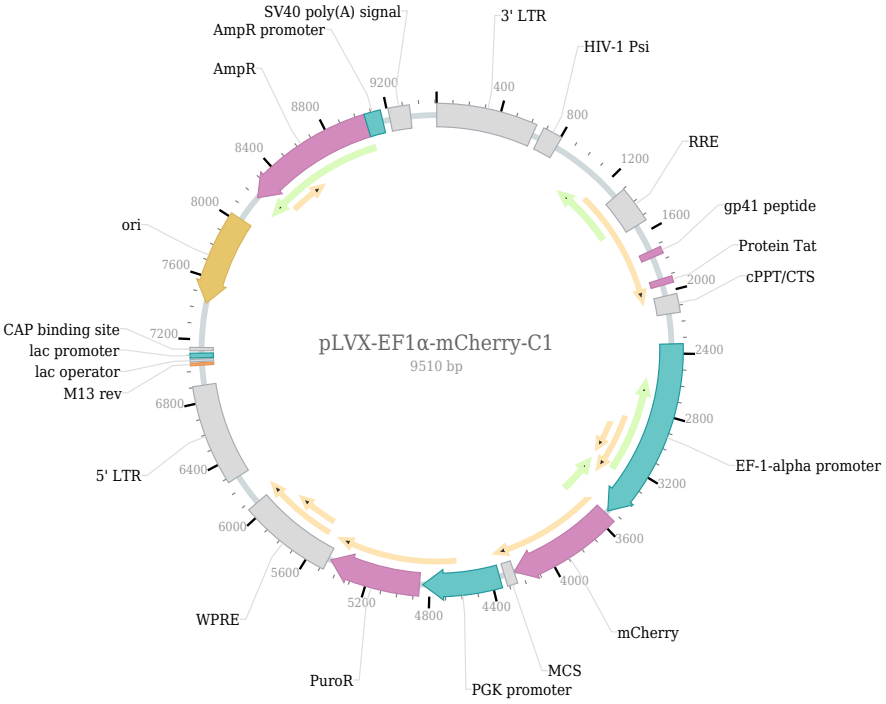
pLVX-EF1α-mCherry-C1

Vector ID	V012726
Antibiotic Resistance	Ampicillin
Length	9510 bp
Vector Type	Viral Expression & Packaging Vectors

Product Information

Replication Origin	ori
Source/Author	Clontech
Selection Marker	Puromycin
Copy Number	High copy number
Promoter	EF-1α
Cloning Method	Enzyme Cut
Fusion Tag	mCherry
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable
Comment	pLVX-EF1α-mCherry-C1 is a lentiviral expression vector that can be used to generate high-titer lentivirus for transducing virtually any dividing or nondividing mammalian cell type, including primary and stem cells. The vector allows a gene-ofinterest to be fused to the C-terminus of the red fluorescent protein mCherry. Expression of the fusion is driven by the human elongation factor 1 alpha (EF1α) promoter, which continues to be constitutively active even after stable integration of the vector into the host cell genome. Stable expression of the fusion allows the monitoring of a variety of cellular processes (such as differentiation in primary or stem cells) without the transgene silencing associated with CMV promoters. In addition, the vector allows efficient flow cytometric detection of stably or transiently transfected mammalian cells expressing mCherry fusions, without time-consuming drug and clonal 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 ℃.