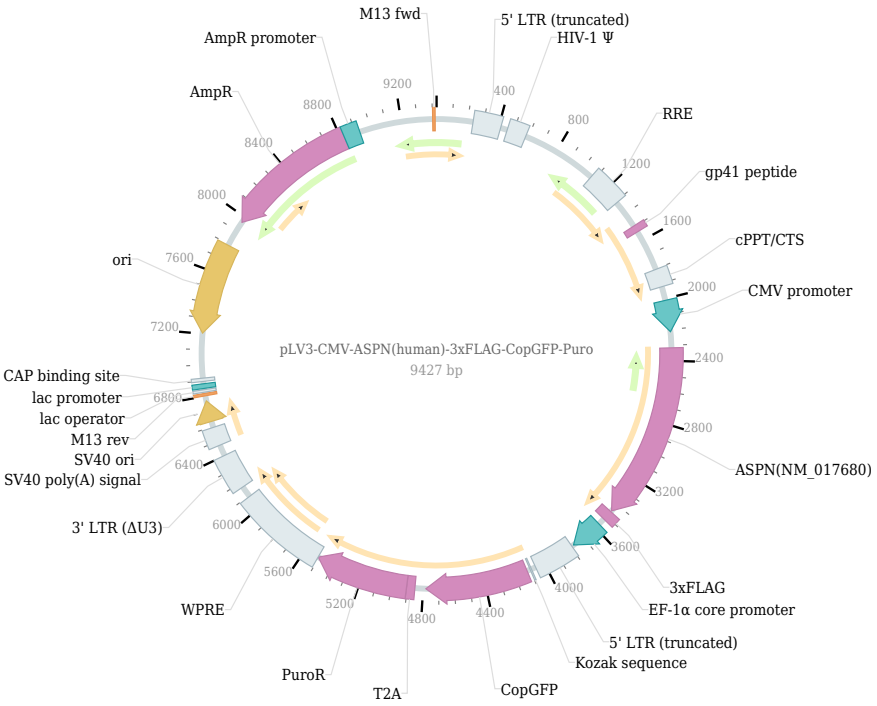
pLV3-CMV-ASPN(human)-3xFLAG-CopGFP-Puro

Vector ID	V041923
Accession ID	NM_017680.6
Antibiotic Resistance	Ampicillin
Length	9427 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro;CopGFP
Copy Number	High
Promoter	CMV
5' Primer	CMV-F
Fusion Tag	3xFLAG
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable / Transient
Comment	pLV3-CMV-ASPN(human)-3xFLAG-CopGFP-Puro drives expression of human ASPN (asporin), also known as PLAP-1, a secreted extracellular matrix protein belonging to the small leucine-rich proteoglycan (SLRP) family that critically regulates chondrogenesis, collagen mineralization, and the tumor microenvironment, with a C-terminal 3xFLAG tag and a CopGFP fluorescent tag linked via a T2A self-cleaving peptide for convenient immunodetection and live-cell imaging. This vector features dual promoters (CMV and EF-1α core promoter) for versatile expression applications, a PuroR cassette for puromycin selection, and includes WPRE, RRE, cPPT/CTS, and truncated LTRs 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 ℃.