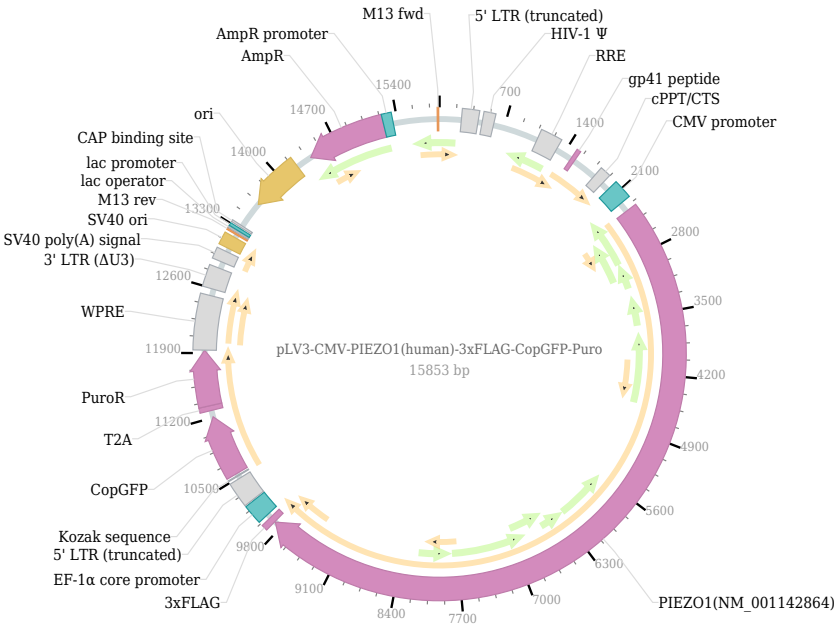
pLV3-CMV-PIEZO1(human)-3xFLAG-CopGFP-Puro

Vector ID	V028129
Accession ID	NM_001142864.4
Antibiotic Resistance	Ampicillin
Length	15853 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro;CopGFP
Promoter	CMV
5' Primer	CMV-F
Fusion Tag	3xFLAG
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable / Transient
Comment	This is a 15853 bp third-generation lentiviral vector, pLV3-CMV-PIEZO1(human)-3xFLAG-CopGFP-Puro. It is designed for constitutive expression of the human PIEZO1 gene, tagged with 3xFLAG, alongside a CopGFP reporter and a PuroR selection marker. The vector utilizes a CMV promoter for strong transgene expression and includes all essential HIV-1 elements for packaging, reverse transcription, and integration, such as the 5' LTR (truncated), RRE, and cPPT/CTS. It also features a WPRE to enhance RNA stability.

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 ℃.