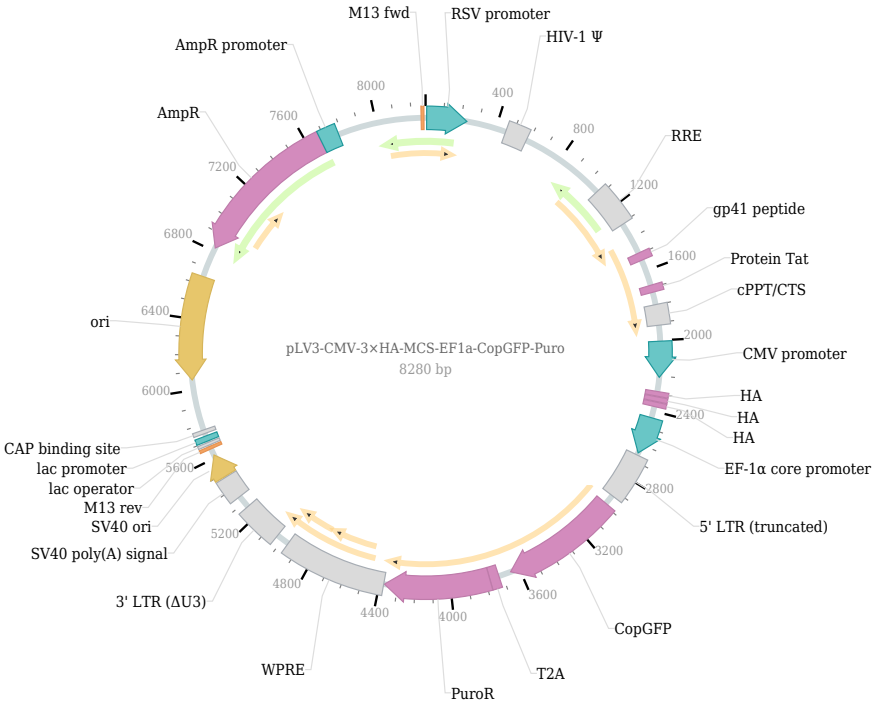
# pLV3-CMV-3×HA-MCS-EF1a-CopGFP-Puro

| | |
|---|---|
| **Vector ID** | V017782 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 8280 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-3xHA-MCS-EF1a-CopGFP-Puro is a versatile lentiviral expression vector designed for the directional cloning and expression of a gene of interest (inserted into the MCS) with a C-terminal 3xHA epitope tag for convenient immunodetection and purification. This vector features dual promoters (CMV and EF-1α core promoter) for versatile expression applications, and utilizes a T2A self-cleaving peptide to co-express the CopGFP fluorescent reporter and the PuroR puromycin resistance marker for efficient live-cell imaging and drug selection of transduced cells. It also includes essential lentiviral packaging elements (such as RRE, cPPT/CTS, and truncated LTRs) and a WPRE element to enhance viral transduction and transgene expression 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 ℃.