# pLV3-CMV-OGT(human)-3xHA-EF1a-Puro

**Name:** pLV3-CMV-OGT(human)-3xHA-EF1a-Puro

**Vector ID:** V025147

**Antiboitic:** Ampicillin

**Vector Type:** Protein expression

**Promoter:** CMV

**Replication origin:** ori

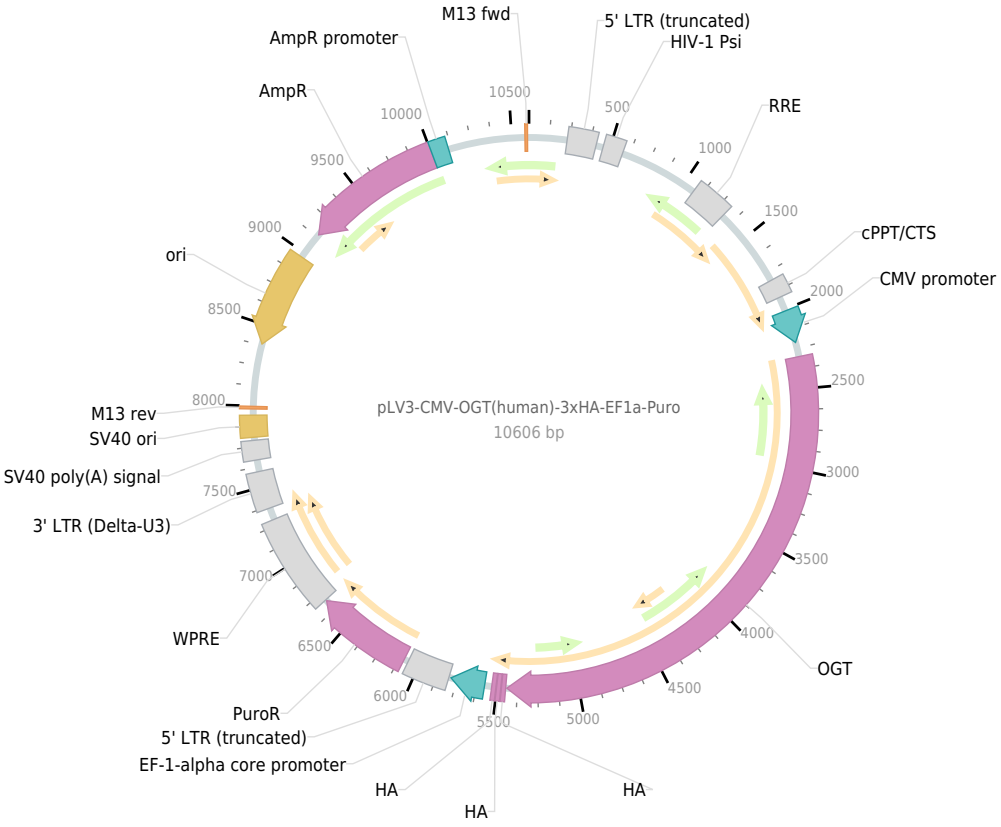
**Fusion Tag:** 3xHA

**Expression method:** Constiutive, Stable / Transient

**Selection marker:** Puro

**Growth Strain(s):** Stbl3

**Comment:** pLV3-CMV-OGT-3xHA-EF1a-Puro (10.6 kb) is a lentiviral vector for stable overexpression of human OGT (O-GlcNAc transferase) in mammalian cells. The CMV promoter drives expression of the OGT gene fused with a 3xHA tag for detection. An independent EF-1α core promoter drives PuroR for puromycin selection. The vector includes lentiviral packaging elements (5' LTR, HIV-1 Ψ, RRE, cPPT/CTS, WPRE, 3' ΔU3 LTR) and bacterial elements (AmpR, pUC ori, M13 sites). This design allows efficient transduction, genomic integration, and antibiotic selection of target cells.




## 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 ℃.