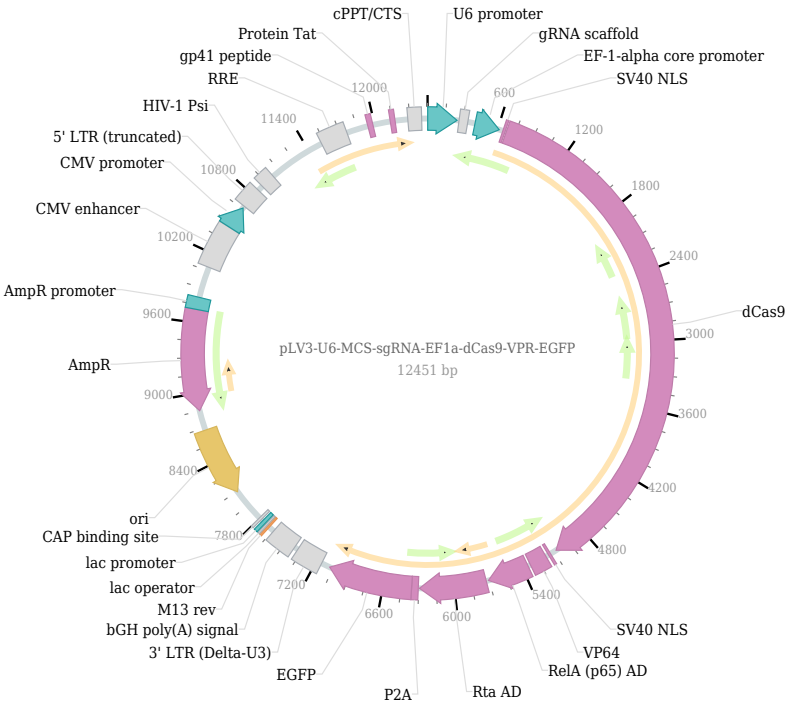
pLV3-U6-MCS-sgRNA-EF1a-dCas9-VPR-EGFP

Vector ID	V014384
Antibiotic Resistance	Ampicillin
Length	12451 bp
Vector Type	Genome editing
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Promoter	U6
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	pLV3-U6-MCS-sgRNA-EF1a-dCas9-VPR-EGFP is an all-in-one pLV3 lentiviral CRISPR activation (CRISPRa) vector: U6 drives sgRNAs cloned into the MCS, while EF1a expresses dCas9 fused to the VPR activator triad (VP64-p65-Rta) with EGFP tracking, enabling single-transduction transcriptional upregulation of endogenous targets. AmpR, Stbl3 propagation.

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 ℃.