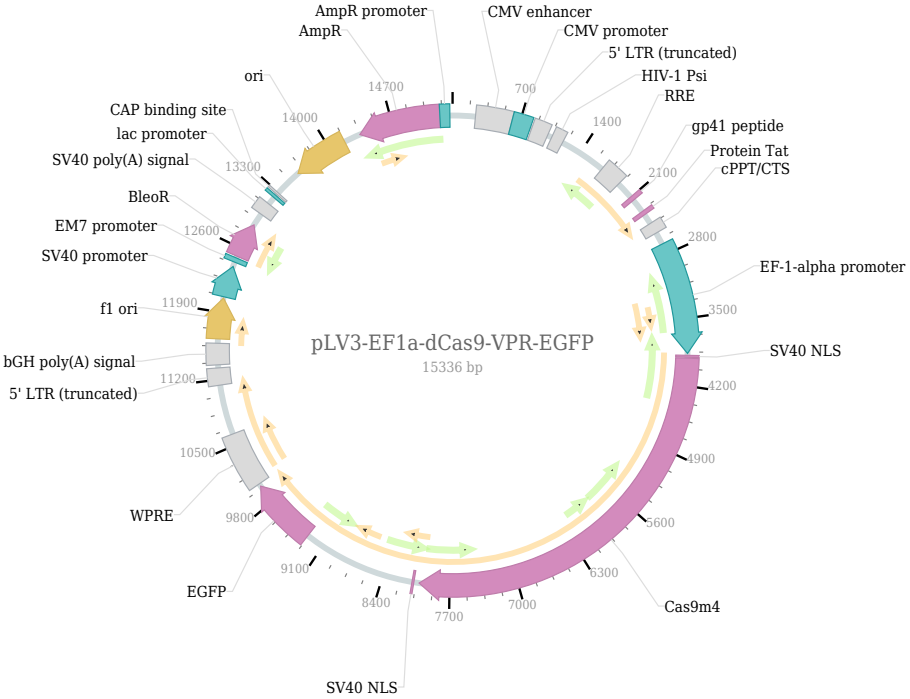
pLV3-EF1a-dCas9-VPR-EGFP

Vector ID	V014379
Antibiotic Resistance	Ampicillin
Length	15336 bp
Vector Type	Genome editing
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Copy Number	High copy number
Promoter	EF-1α
Growth Temperature	30℃
Comment	The plasmid vector pLV3-EF1a-dCas9-VPR-EGFP is a lentiviral-based CRISPR tool designed for gene activation. It uses the EF1a promoter to express a dCas9-VPR fusion protein, which, when guided by a specific RNA, can transcriptionally activate target genes. It includes an EGFP marker for visualization and an Amp resistance gene for prokaryotic selection.

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 ℃.