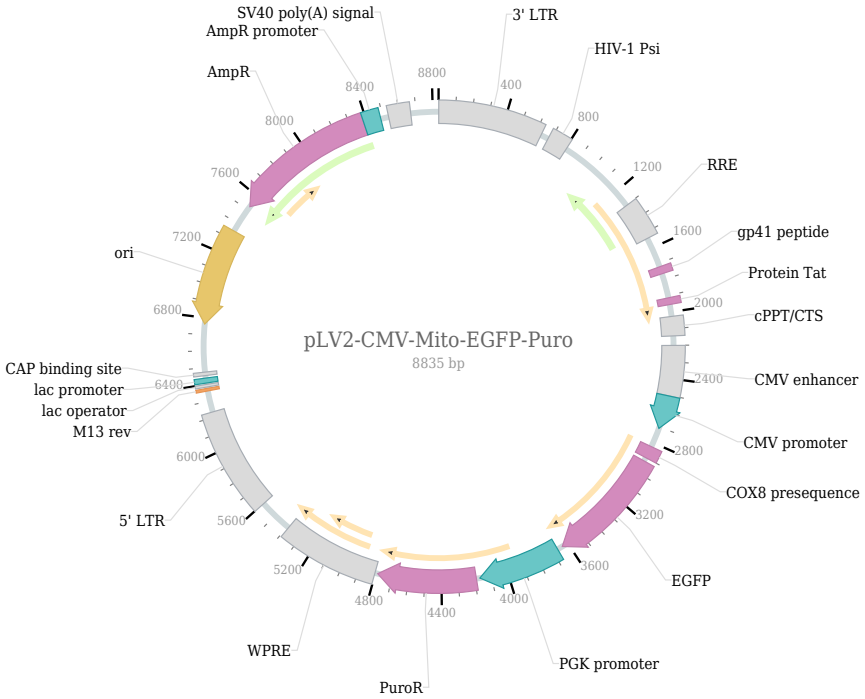
pLV2-CMV-Mito-EGFP-Puro

Vector ID	V014458
Antibiotic Resistance	Ampicillin
Length	8835 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	mPGK
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	pLV2-CMV-Mito-EGFP-Puro is a pLV2 lentiviral vector expressing mitochondria-targeted EGFP under the CMV promoter, typically via a COX8 mitochondrial targeting sequence, for live-cell imaging of mitochondrial morphology, dynamics and stress. Puromycin resistance enables stable cell-line generation; AmpR and Stbl3 propagation support lentiviral packaging.

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 ℃.