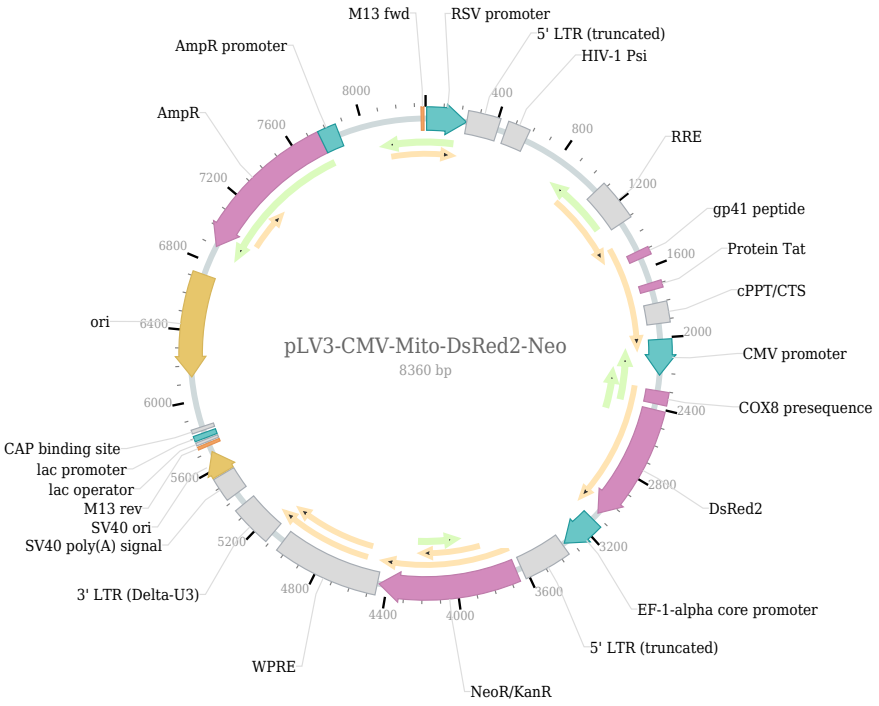
pLV3-CMV-Mito-DsRed2-Neo

Vector ID	V015034
Antibiotic Resistance	Ampicillin
Length	8360 bp
Vector Type	Subcellular localization
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Promoter	EF-1α core
Growth Temperature	37℃
Comment	pLV3-CMV-Mito-DsRed2-Neo is a pLV3 lentiviral vector expressing mitochondria-targeted DsRed2 under the CMV promoter, providing red fluorescence that specifically labels mitochondria for imaging of morphology, dynamics and mitophagy. Neomycin (G418) resistance supports stable selection; AmpR backbone propagated in Stbl3 for 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 ℃.