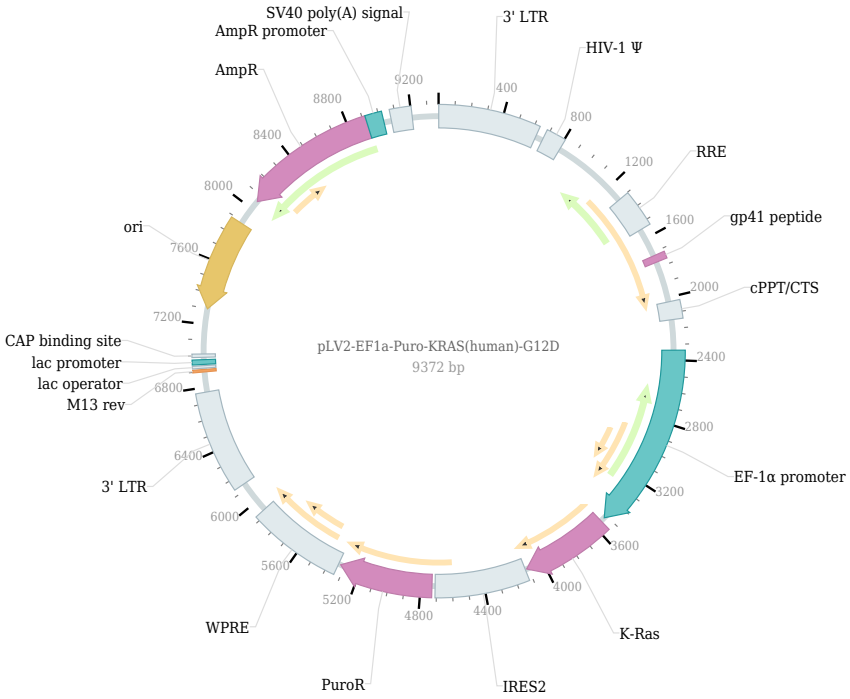
pLV2-EF1a-Puro-KRAS(human)-G12D

Vector ID	V028673
Accession ID	NM_004985.5
Antibiotic Resistance	Ampicillin
Length	9372 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	EF1a
Growth Strain(s)	Stbl3
Expression Method	Constiutive, Stable / Transient
Comment	This is a 9372 bp third-generation lentiviral vector, pLV-EF1a-Puro-KRAS(human)-G12D. It is designed to express the human KRAS gene harboring the G12D mutation, driven by the strong EF-1α promoter. The vector includes an IRES2 element for bicistronic expression and the PuroR gene for antibiotic selection in mammalian cells. It also features essential HIV-1 packaging elements (Ψ, RRE, cPPT/CTS) and the WPRE element to enhance mRNA stability and viral titer.

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 ℃.