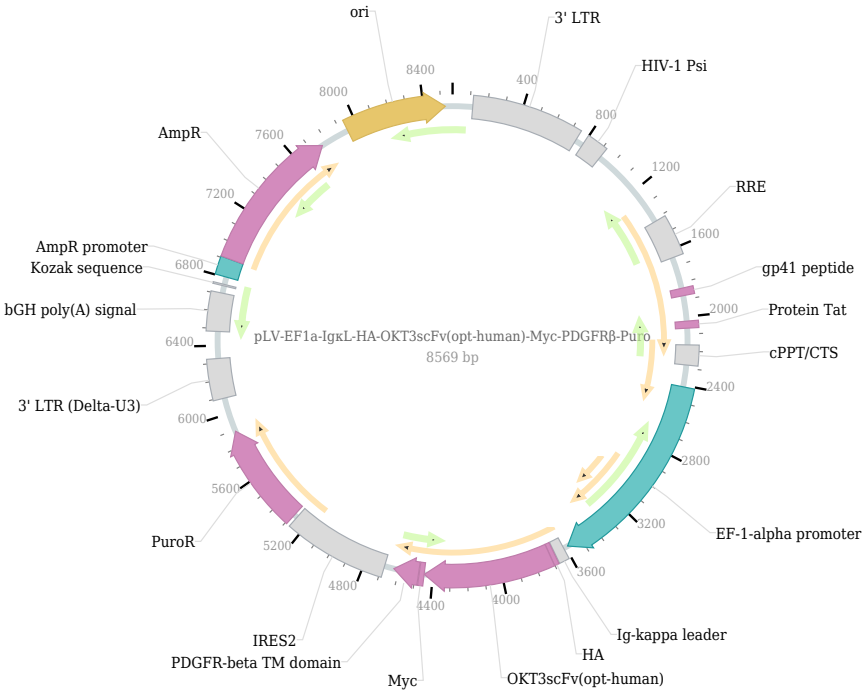
pLV-EF1a-IgκL-HA-OKT3scFv(opt-human)-Myc-PDGFRβ-Puro

Vector ID	V014575
Antibiotic Resistance	Ampicillin
Length	8569 bp
Vector Type	Gene expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	EF-1α
Growth Strain(s)	Stbl3
Growth Temperature	30℃
Comment	This is an 8569 bp lentiviral vector, pLV-EF1a-IgkL-HA-OKT3scFv(opt-human)-Myc-PDGFRβ-Pro. It is designed for expressing a bispecific scFv-Fc fusion protein using the EF1-alpha promoter. The construct includes an N-terminal Ig kappa leader and HA-tag, followed by a C-terminal Myc-tag and PDGFR-beta transmembrane domain. It features a self-inactivating 3' LTR (Delta-U3) and utilizes the HIV-1 Psi packaging signal, RRE, and cPPT/CTS elements for efficient viral production and gene delivery. The vector also contains a puromycin resistance gene (PuroR) for antibiotic 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 ℃.