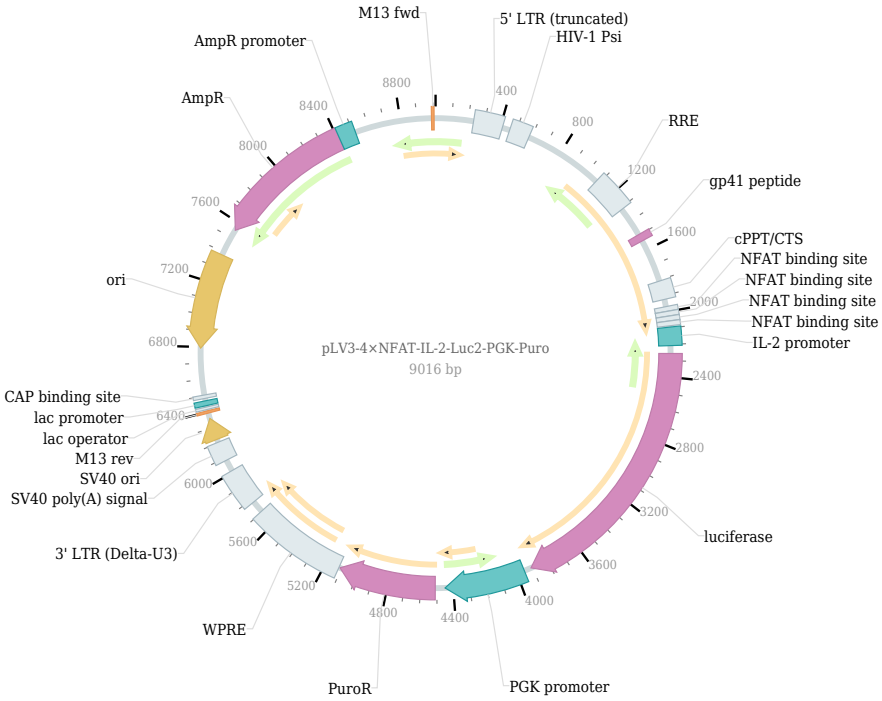
pLV3-4×NFAT-IL-2-Luc2-PGK-Puro

Vector ID	V044996
Antibiotic Resistance	Ampicillin
Length	9016 bp
Vector Type	Fluorescent reporter
Host	Mammalian cells, Lentivirus

Product Information

Selection Marker	Puro;Fluc
Copy Number	High
Promoter	minimal IL-2
5' Primer	luc-F2
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable / Transient
Comment	The pLV3-4×NFAT-IL-2-Luc2-PGK-Puro is a lentiviral vector, . It is designed to express luciferase (Luc2) under an IL-2 promoter containing a 4× NFAT binding site, enabling T-cell-specific expression. The vector utilizes a PGK promoter to drive the PuroR gene for antibiotic selection. It features HIV-1-based elements including a 5' LTR, RRE, cPPT/CTS, and a self-inactivating 3' LTR (ΔU3) for safe genomic integration.

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 ℃.