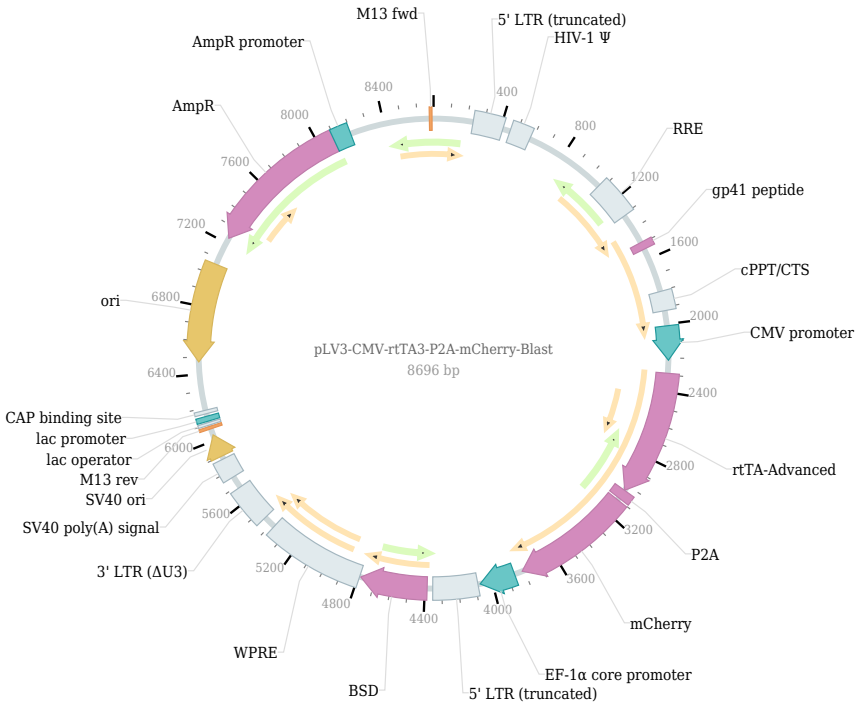
pLV3-CMV-rtTA3-P2A-mCherry-Blast

Vector ID	V046473
Antibiotic Resistance	Ampicillin
Length	8696 bp
Vector Type	Protein expression, Tetracycline inducible
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Blast;mCherry
Copy Number	High
Promoter	CMV
5' Primer	CMV-F
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Tetracycline inducible
Comment	pLV3-CMV-rtTA3-P2A-mCherry-Blast (8.7 kb) is a lentiviral vector for doxycycline-inducible gene expression. It features a CMV promoter driving rtTA3 (reverse tetracycline transactivator), linked via P2A to mCherry (red fluorescent protein) and a BSD (blasticidin resistance) gene. The vector also includes HIV-1 Ψ packaging signal, RRE, cPPT/CTS, WPRE, truncated 5' LTR, and 3' ΔU3 LTR for enhanced safety and expression. Additional elements: SV40 ori/poly(A), M13 sites, AmpR, and lac promoter/operator.

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 ℃.