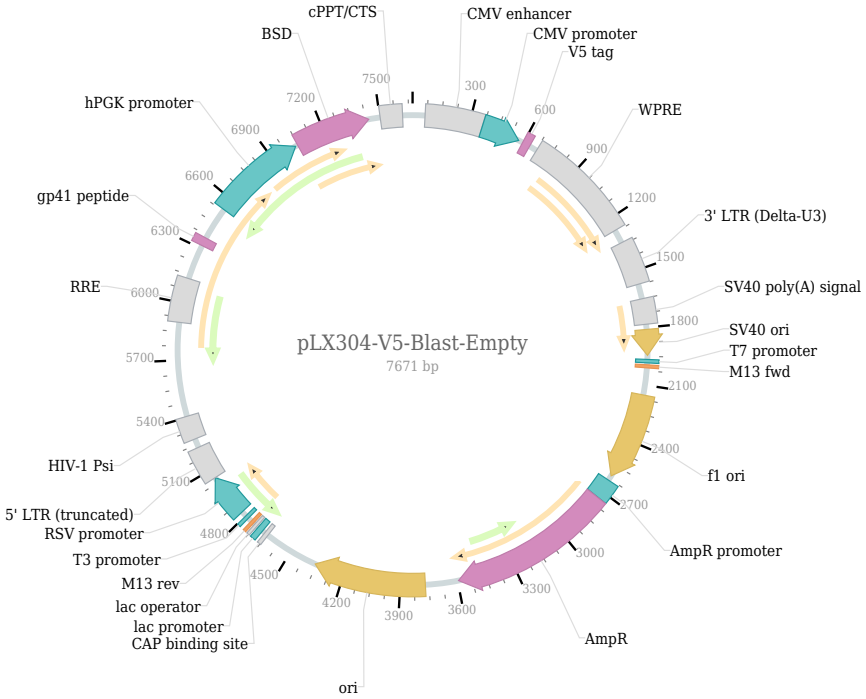
pLX304-V5-Blast-Empty

Vector ID	V010408
Antibiotic Resistance	Ampicillin
Length	7671 bp
Vector Type	Viral Expression & Packaging Vectors

Product Information

Replication Origin	ori
Source/Author	transOMIC
Copy Number	High copy number
Promoter	hPGK
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pLX304-V5-Blast-Empty is a Gateway-compatible, self-inactivating (SIN) lentiviral vector for stable, CMV-driven overexpression in mammalian cells. As the empty control of the pLX304-V5-Blast ORF collection, it expresses cloned ORFs as C-terminal V5 fusions and carries WPRE and HIV-1 packaging elements (cPPT, RRE, Ψ) for efficient delivery. A separate hPGK–BSD cassette provides blasticidin selection, while AmpR and ColE1/f1 origins support propagation in E. coli. The original backbone was pLX304 (Addgene #25890; Yang et al., Nat Methods 2011) .

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 ℃.