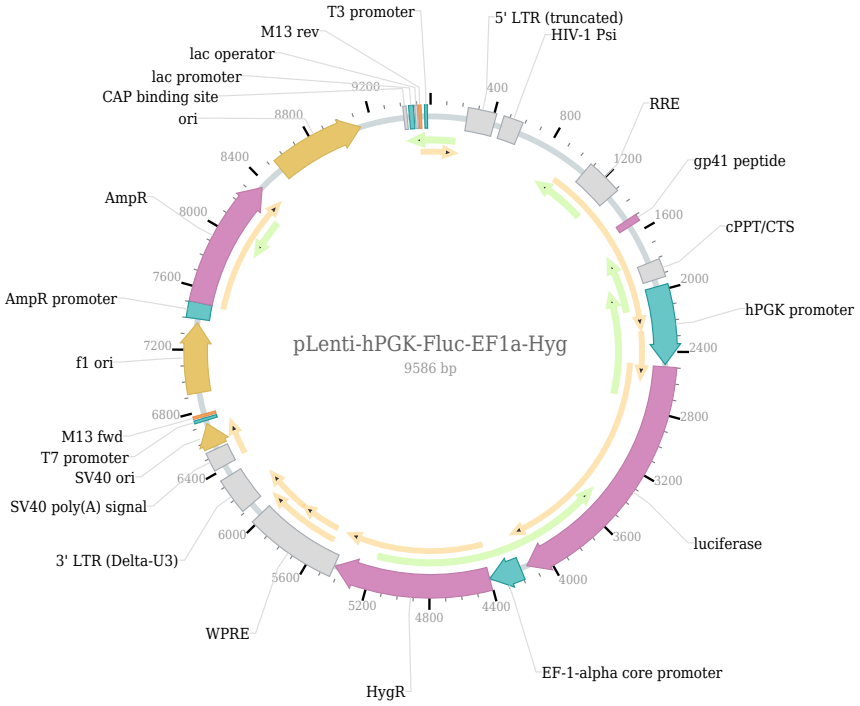
pLenti-hPGK-Fluc-EF1a-Hyg

Vector ID	V042368
Antibiotic Resistance	Ampicillin
Length	9586 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Hyg;Fluc
Copy Number	High
Promoter	hPGK
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable / Transient
Comment	pLenti-hPGK-Fluc-EF1a-Hyg is a third-generation lentiviral vector for stable reporter expression in mammalian cells. The human PGK promoter drives codon-optimized firefly luciferase (luc2) for sensitive bioluminescence imaging, while the EF-1α core promoter drives hygromycin B resistance for selecting transduced cells. WPRE and cPPT/CTS enhance expression and nuclear import; the self-inactivating 3′ LTR improves safety. Ampicillin selection; propagate in Stbl3.

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 ℃.