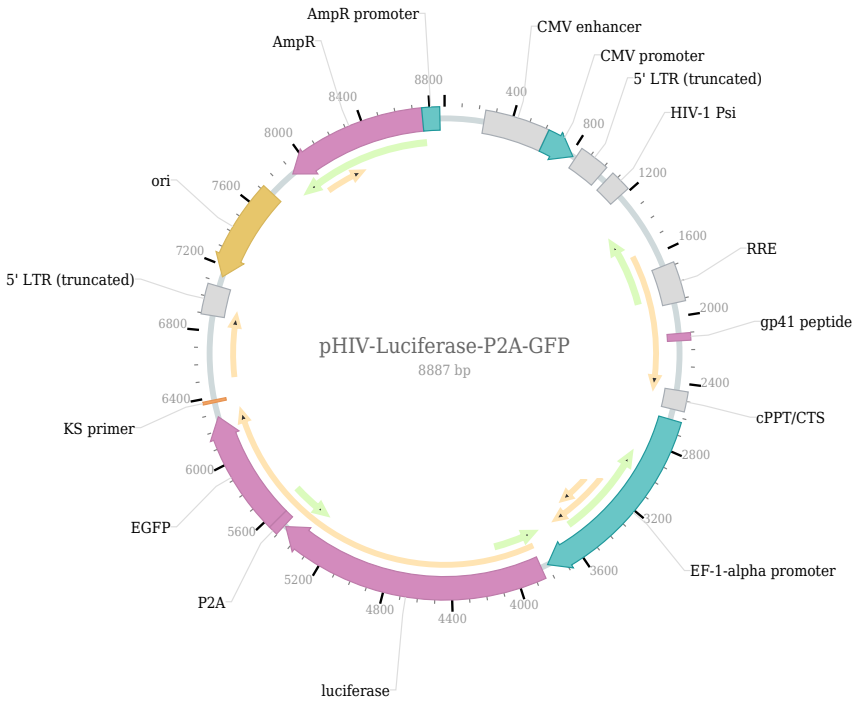
pHIV-Luciferase-P2A-GFP

Vector ID	V037535
Antibiotic Resistance	Ampicillin
Length	8887 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	EGFP
Copy Number	High
Promoter	EF1a
5' Primer	PEF-F
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Expression Method	Constiutive, Stable / Transient
Comment	pHIV-Luciferase-P2A-GFP is an HIV-1-based self-inactivating lentiviral reporter co-expressing firefly luciferase and GFP from one promoter via the porcine teschovirus-1 P2A self-cleaving peptide, yielding near-equimolar proteins. Luciferase enables quantitative bioluminescence imaging; GFP enables FACS and microscopy—dual-modality tracking of transduced cells.

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 ℃.