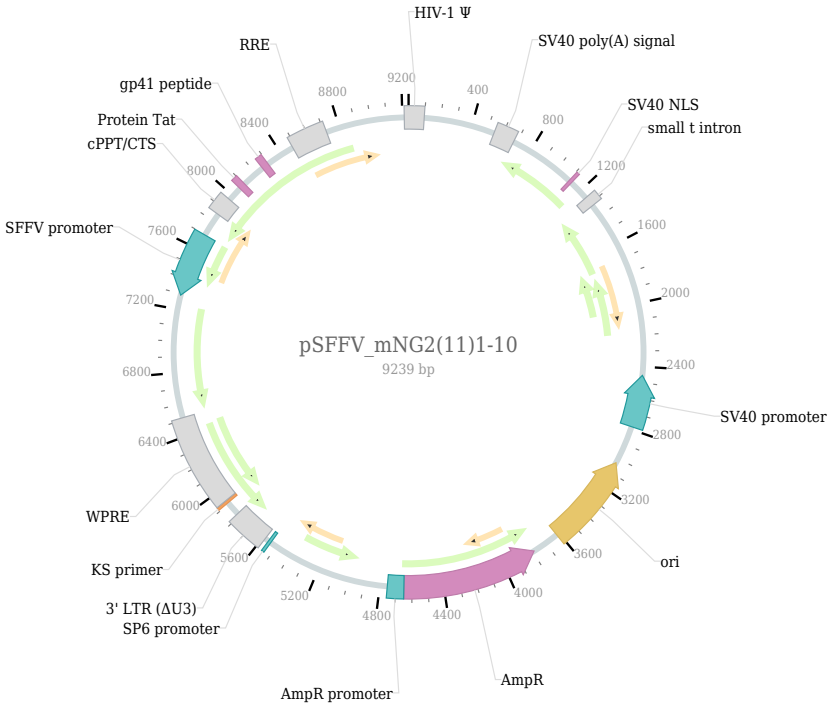
pSFFV_mNG2(11)1-10

Vector ID	V018007
Antibiotic Resistance	Ampicillin
Length	9239 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Promoter	SSFV
3' Primer	WPRE-R
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	pSFFV-mNG2$_{1-10}$ is a lentiviral mammalian expression plasmid driven by the strong SFFV promoter to stably produce the mNeonGreen2$_{1-10}$ split fluorescent fragment. This fragment alone shows negligible cellular background fluorescence, far lower than GFP$_{1-10}$ expressed under the same promoter. When cells carrying this plasmid are knocked-in with mNG2$_{11}$ tags on target endogenous proteins, the two fragments self-complement to generate bright yellow-green fluorescence for protein localization imaging. It enables sensitive labeling of low-abundance proteins and supports dual-color imaging paired with split sfCherry2 systems in human cell lines.

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 ℃.