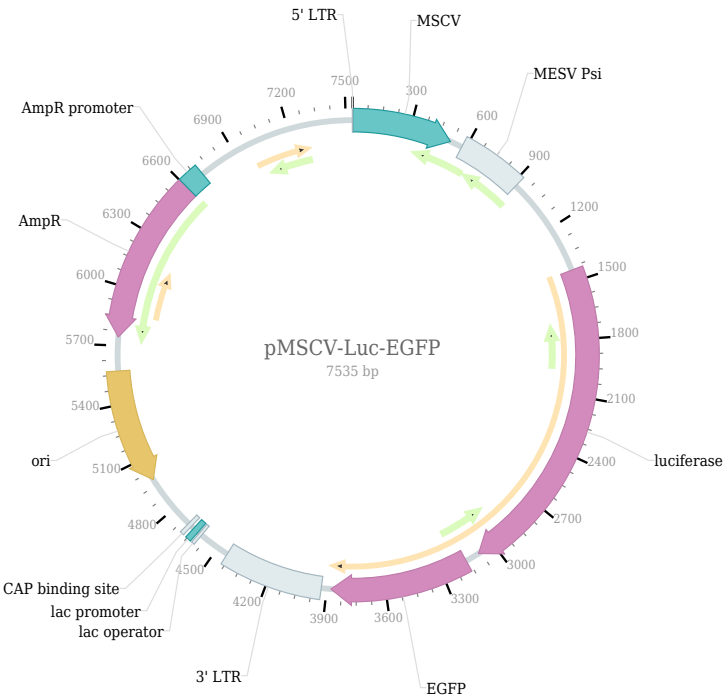
pMSCV-Luc-EGFP

Vector ID	V013571
Antibiotic Resistance	Ampicillin
Length	7535 bp
Vector Type	Protein expression
Host	Mammalian cells, Retrovirus

Product Information

Replication Origin	ori
Promoter	MSCV
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pMSCV-Luc-EGFP, based on MMLV, is a lentiviral vector plasmid that delivers and expresses genes efficiently in mammalian cells. Its high transduction efficiency, stability, and dual reporter system (Luc and EGFP) enable simultaneous monitoring of gene expression and cell localization. Additionally, its genome integration ensures long-term expression in various cell types, including primary and stem cells. However, limitations include limited packaging capacity and potential insertional mutagenesis due to genome integration. Despite these, pMSCV-Luc-EGFP remains a powerful and versatile tool for gene delivery, expression monitoring, and research applications.

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 ℃.