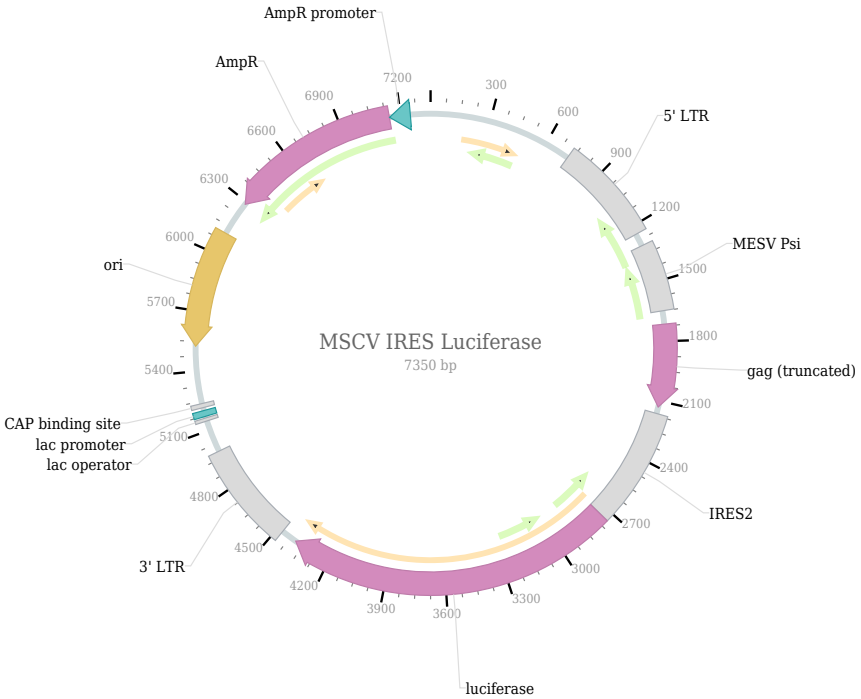
MSCV IRES Luciferase

Vector ID	V016728
Antibiotic Resistance	Ampicillin
Length	7350 bp
Vector Type	Protein expression
Host	Mammalian cells, Retrovirus

Product Information

Replication Origin	ori
Promoter	MSCV
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The MSCV IRES Luciferase vector is a highly efficient tool for genetic research. It features the MESV Psi element for effective packaging. The area between 5' LTR and 3' LTR is for target gene insertion, with length and orientation restrictions for optimal lentivirus titer. The truncated gag gene and IRES2 from specific viruses contribute to its functionality. The firefly luciferase gene allows for sensitive detection and quantification of gene expression via bioluminescence assays.

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 ℃.