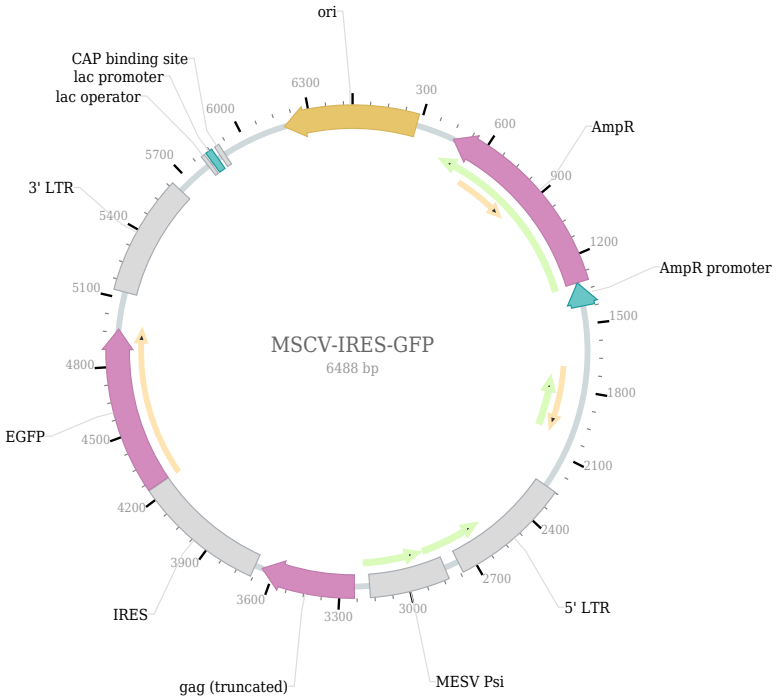
MSCV-IRES-GFP

Vector ID	V012785
Antibiotic Resistance	Ampicillin
Length	6488 bp
Vector Type	Viral Expression & Packaging Vectors

Product Information

Replication Origin	ori
Source/Author	Tannishtha Reya
Copy Number	High copy number
Promoter	MSCV
5' Primer	pLXSN5; pBABE5
3' Primer	pCDH-rev (GCATTCCTTTGGCGAGAG)
Fusion Tag	EGFP
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	The MSCV-IRES-GFP vector is a widely used retroviral construct designed to express a bicistronic mRNA encoding both the gene of interest and a GFP marker. This vector enables simultaneous expression of the transgene and fluorescent reporter, allowing for direct visualization and sorting of transduced cells. Prior to retroviral transduction, target cells are pre-activated by culturing in cytokine-supplemented media for two days to enhance receptivity to viral infection and integration.

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 ℃.