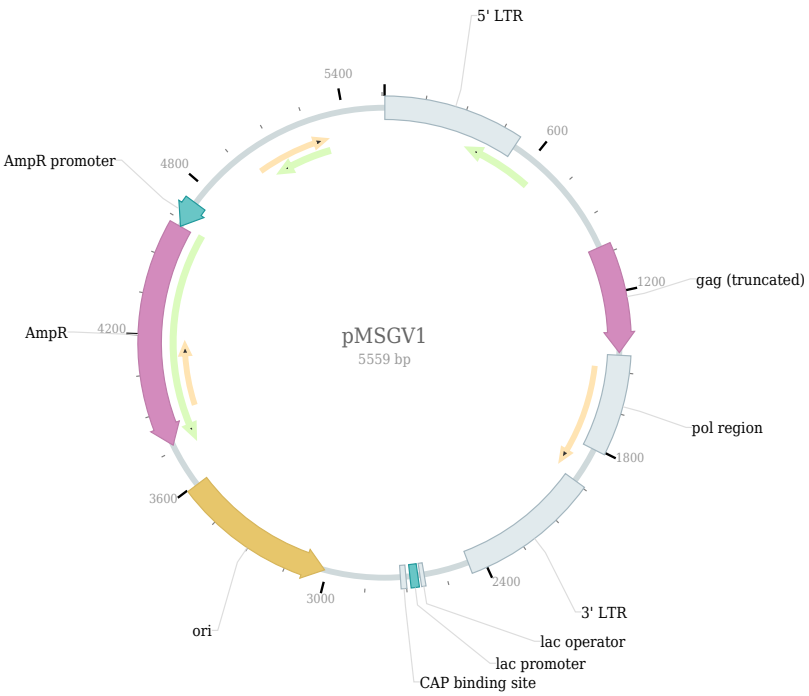
pMSGV1

Vector ID	V013636
Antibiotic Resistance	Ampicillin
Length	5559 bp
Vector Type	Protein expression
Host	Mammalian cells, Retrovirus

Product Information

Replication Origin	ori
Promoter	MSCV
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pMSGV1 is a retroviral vector backbone derived from the murine stem cell virus (MSCV), specifically designed for high-efficiency gene transfer. It utilizes an MSCV long terminal repeat (LTR) to drive expression and is well-suited for cloning and expressing T-cell receptor (TCR) genes in primary human lymphocytes. This vector has been successfully used to construct bicistronic cassettes, enabling the coordinated expression of TCR alpha and beta chains for cancer immunotherapy research.

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 ℃.