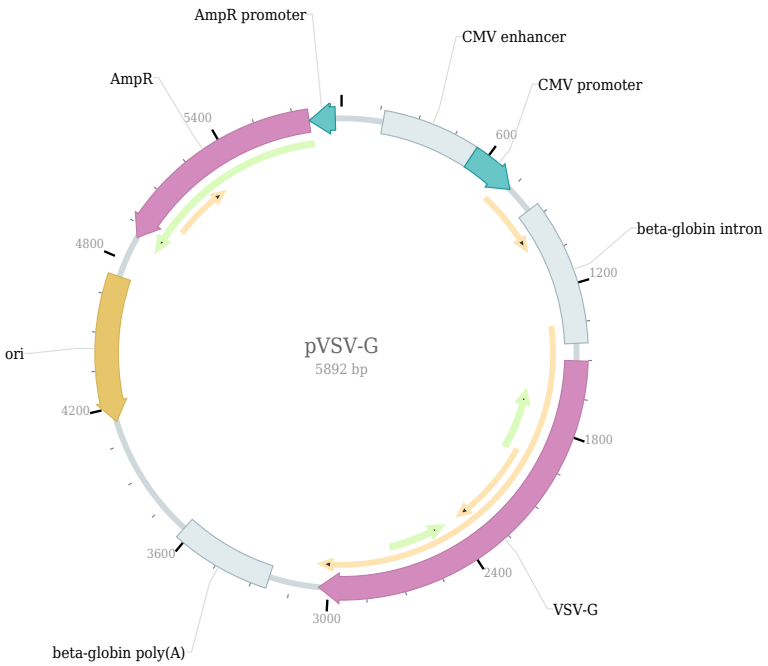
pVSV-G

Vector ID	V012883
Antibiotic Resistance	Ampicillin
Length	5892 bp
Vector Type	Packaging assistance
Host	Mammalian cells, Retrovirus

Product Information

Replication Origin	ori
Promoter	CMV
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	pVSV-G expresses the G glycoprotein of the vesicular stomatitis virus (VSV-G) under the control of the CMV immediate-early promoter (1). VSV-G is used in pseudotyping of Moloney Murine Leukenia Virus (MMLV)-based retroviral vectors by mediating viral entry. VSV-G interacts with phospholipid components of the target cell membrane and fosters the fusion of viral and cellular membranes (2). VSV-G does not require a cell surface receptor and can serve as a surrogate viral envelope protein. pVSV-G Vector includes IVS, a synthetic intron known to enhance the stability of the mRNA (3), the Col E1 origin of replication and bacterial ampicillin rsistance (Ampr) gene for propagation and antibiotic selection in bacteria.

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 ℃.