

pCMV-VSV-G Envelope Vector

CATALOG NUMBER: RV-110

STORAGE: -20°C

QUANTITY AND CONCENTRATION: 10 µg at 0.25 µg/µL in TE

Background

Retroviruses are efficient tools for delivering heritable genes into the genome of dividing cells. pCMV-VSV-G expresses the G glycoprotein of the vesicular stomatitis virus (VSV-G) under the control of the CMV immediate-early promoter. VSV-G is used in pseudotyping of Moloney Murine Leukemia 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. VSV-G does not require a cell surface receptor and can serve as a surrogate viral envelope protein. The vector contains the ampicillin-resistance gene for propagation and antibiotic selection in bacteria (Figure 1).

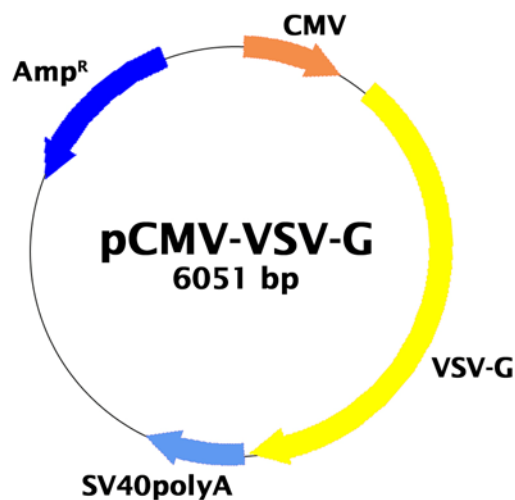


Figure 1. Schematic representation of pCMV-VSV-G envelope vector.

Safety Consideration

Remember that you will be working with samples containing infectious virus. Follow the recommended NIH guidelines for all materials containing BSL-2 organisms. Always wear gloves, use filtered tips and work under a biosafety hood.

References

1. Emi, N., *et al.*, (1991) *J. Virol.* **65**, 1202-1207.

Recent Product Citations

1. Amagai, Y. et al. Stem Cell Factor Contributes to Tumorigenesis of Mast Cells via an Autocrine/Paracrine Mechanism. *J. Leukoc. Biol.* **93**:245-250.
2. Okamoto, K. et al. (2012). Dengue Virus Strain DEN2 16681 Utilizes a Specific Glycochain of Syndecan-2 Proteoglycan as a Receptor. *J.Gen. Virol.* **93**:761-770.
3. Oida, T. et al. (2010). Overexpression of TGF- β_1 Gene Induces Cell Surface Localized Glucose-Regulated Protein 78-Associated Latency-Associated Peptide/TGF- β . *J. Immunol.* **185**:3529-3535.

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This product is for RESEARCH USE ONLY; not for use in diagnostic procedures.

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