

## pCMV-VSV-G Retroviral Vector

pCMV-VSV-G Retroviral Vector

CATALOG #  
**AAA44506**

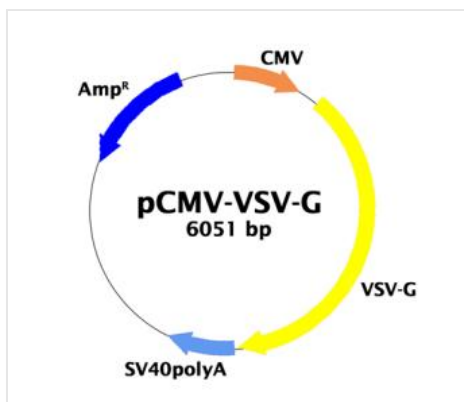
### PRODUCT SYNONYMS

pCMV-VSV-G; pCMV-VSV-G Retroviral Vector; pCMV-VSV-G Envelope Vector; pCMV-VSV-G retroviral vector

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity                | 10 ug at 0.25 ug/uL in TE                                                                                                                                                                                                              |
| Safety Considerations   | 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. |
| Preparation and Storage | Store at -20°C                                                                                                                                                                                                                         |

### IMAGES



Application Data

### ADDITIONAL INFORMATION

#### Related Product Information for pCMV-VSV-G retroviral vector

- Use this vector along with a packaging cell line and a cloning / expression vector for retroviral production.

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).

#### Product Categories/Family for pCMV-VSV-G retroviral vector

[Viral Expression](#); [Retroviral Expression](#); [Retroviral Expression and Packaging](#); [Retroviral Packaging Vectors](#)

## References

1. Emi, N., et al., (1991) J. Virol. 65, 1202-1207.
1. Abram, M. E. et al. (2015). A cell-based strategy to assess intrinsic inhibition efficiencies of HIV-1 reverse transcriptase inhibitors. Antimicrob Agents Chemother. 59:838-848.
2. Amagai, Y. et al. (2013). Stem cell factor contributes to tumorigenesis of mast cells via an autocrine/paracrine mechanism. J. Leukoc. Biol. 93:245-250.
3. 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.
4. Oida, T. et al. (2010). Overexpression of TGF-beta1 gene induces cell surface localized glucose-regulated protein 78-associated latency-associated peptide/TGF-beta. J. Immunol. 185:3529-3535.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/retroviral-vector/pcmv-vsv-g/44506>