Vector pCAGGS Containing the Marburg Marburgvirus, Musoke VP40 Gene with N-Terminal FLAG Tag

Catalog No. NR-49348

For research use only. Not for human use.

Contributor and Manufacturer:
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Product Description:
The VP40 matrix protein gene from Marburg marburgvirus (MARV), Musoke (GenBank: DQ217792) was directionally subcloned into a modified pCAGGS mammalian expression vector.1 The resulting plasmid encodes a recombinant MARV VP40 containing a FLAG tag (DYYKDDDDK) and three additional alanine residues at the amino terminus. The plasmid was produced in Escherichia coli and extracted. VP40 is tightly associated with the inner leaflet of the virion membrane and drives filovirus budding.2 Cells expressing both VP40 and a filovirus glycoprotein produce virus-like particles. MARV VP40 inhibits the interferon-induced phosphorylation of Jak and STAT proteins.3

NR-49348 has been qualified for use in bacterial transformations.

Material Provided:
Each vial contains approximately 50 µL of plasmid DNA. The DNA concentration and content are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:
NR-49348 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Vector pCAGGS Containing the Marburg Marburgvirus, Musoke VP40 Gene with N-Terminal FLAG Tag, NR-49348.”

Biosafety Level: 1

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References:

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