

## Vector pcDNA3 Containing the Zaire Ebola Virus, Mayinga Nucleoprotein Gene

Catalog No. NR-49402

For research use only. Not for human use.

### Contributor:

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### Manufacturer:

BEI Resources

### Product Description:

The nucleoprotein (NP) gene from Zaire ebolavirus (EBOV), Mayinga (GenBank: [AF086833](#)) was directionally subcloned into a modified pcDNA3 mammalian expression vector.<sup>1</sup> The plasmid was produced in *Escherichia coli* and extracted.

NP is the major RNA encapsidating protein of filoviruses, and associates with the L, VP30, and VP35 proteins to form the viral nucleocapsid.<sup>2,3</sup>

NR-49402 has been qualified for use in bacterial transformations.

### Material Provided:

Each vial contains approximately 100 µL of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7). The DNA concentration and content are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

### Packaging/Storage:

NR-49402 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 pcDNA3 Containing the Zaire Ebola Virus, Mayinga Nucleoprotein Gene, NR-49402."

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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### References:

1. Basler, C. F., Personal Communication.
2. Elliott, L. H., M. P. Kiley, and J. B. McCormick. "Descriptive Analysis of Ebola Virus Proteins." *Virology* 147 (1985): 169-176. PubMed: 4060597.
3. Mühlberger, E., et al. "Three of the Four Nucleocapsid Proteins of Marburg Virus, NP, VP35, and L, are Sufficient to Mediate Replication and Transcription of Marburg Virus-Specific Monocistronic Minigenomes." *J. Virol.* 72 (1998): 8756-8764. PubMed: 9765419.

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