

SUPPORTING INFECTIOUS DISEASE RESEARCH

## **Product Information Sheet for NR-3025**

# Plasmid pETMPOX/B5RoΔTM Containing the B6R Gene from Monkeypox Virus, Zaire 79

## Catalog No. NR-3025

This reagent is the tangible property of the U.S. Government.

## For research use only. Not for human use.

#### Contributor:

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#### Manufacturer:

**BEI Resources** 

#### **Product Description:**

The monkeypox B6R gene (GenBank AY160189) was amplified from the plasmid pMPOX/B5Ro by PCR and subcloned into the prokaryotic expression vector pET26b (Novagen®), which contains coding sequences for a 6histidine tag at the C-terminus of the expressed protein. 1 The transmembrane (TM) domain of the B6R gene was deleted during subcloning so that the resulting vector would express only the extracellular domain of the protein. The plasmid was produced in Escherichia coli (E. coli) DH5α™ cells and extracted using a QIAGEN® EndoFree® Plasmid Maxi Kit. The pETMPOX/B5RoΔTM plasmid is reported to direct the expression of monkeypox B6R protein in inclusion bodies when transformed into an appropriate expression host cell such as E. coli BL21(DE3).1 The designation B5Ro is used to indicate that the B6R gene is the monkeypox ortholog of the vaccinia virus B5R gene.

#### **Material Provided:**

Each vial contains approximately 20 to 60 ng of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The lot-specific DNA concentration and content are shown on the Certificate of Analysis.

#### Packaging/Storage:

NR-3025 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: Plasmid pETMPOX/B5RoΔTM Containing the B6R Gene from Monkeypox Virus, Zaire 79, NR-3025."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

#### **Disclaimers:**

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## References:

 Heraud, J. M., et al. "Subunit Recombinant Vaccine Protects Against Monkeypox." <u>J. Immunol.</u> 177 (2006): 2552-2564. PubMed: 16888017.

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