

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-3024

Plasmid pETMPOX/A33RoΔTM Containing the A35R Gene from Monkeypox Virus, Zaire 79

Catalog No. NR-3024

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 A35R gene (GenBank AY160188) was amplified from the plasmid pMPOX/A33Ro 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 A35R 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/A33RoΔTM plasmid is reported to direct the expression of monkeypox A35R protein in inclusion bodies when transformed into an appropriate expression host cell such as E. coli BL21(DE3).1 The designation A33Ro is used to indicate that the A35R gene is the monkeypox ortholog of the vaccinia virus A33R 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-3024 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/A33RoΔTM Containing the A35R Gene from Monkeypox Virus, Zaire 79, NR-3024."

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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