

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-3022

Plasmid pETMPOX/A27Lo Containing the A29L Gene from Monkeypox Virus, Zaire 79

Catalog No. NR-3022

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For research use only. Not for human use.

Contributor:

Genoveffa Franchini, M.D., Animal Models and Retroviral Vaccines Section, NCI, NIH

Manufacturer:

BEI Resources

Product Description:

The monkeypox A29L gene (GenBank AY160186) was amplified from plasmid pMPOX/A27Lo by PCR and subcloned into the prokaryotic expression vector pET26b (Novagen®), which contains coding sequences for a 6-histidine tag at the C-terminus of the expressed protein. 1,2 expression The resulting bacterial plasmid, pETMPOX/A27Lo, was produced in Escherichia coli (E. coli) DH5α[™] cells and extracted using a QIAGEN[®] EndoFree Plasmid Maxi Kit. The pETMPOX/A27Lo plasmid is reported to direct the expression of soluble monkeypox A29L protein when transformed into an appropriate expression host cell such as *E. coli* BL21(DE3). The designation A27Lo is used to indicate that the A29L gene is the monkeypox ortholog of the vaccinia virus A27L 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-3022 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/A27Lo Containing the A29L Gene from Monkeypox Virus, Zaire 79, NR-3022."

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

<u>Microbiological and Biomedical Laboratories.</u> 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see <u>www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm</u>.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

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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.
- Reference 1 contains a typographical error in the sequence of the forward primer used to amplify and subclone the monkeypox A29L gene (an extra adenine residue at position 20); nucleotide sequence analysis at BEI Resources indicates that the A29L insert in NR-3022 is actually identical to AY160186 in that region.

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BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898