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

Catalog No. NR-3024
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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 6-histidine tag at the C-terminus of the expressed protein. 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). 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


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References:

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