

Product Information Sheet for NR-13291

Plasmid pMRLB.38 **Containing** **Gene**
Rv3803c **(Protein** **MPT51)** **from**
Mycobacterium tuberculosis

Catalog No. NR-13291

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

For research use only. Not for human use.

Contributor:

NIH - TB Vaccine Testing and Research Materials Contract

Manufacturer:

BEI Resources

Product Description:

NR-13291 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3803c, which encodes the secreted antigen protein MPT51 (also referred to as the fibronectin-binding protein).^{1,2} Gene Rv3803c was amplified by PCR and cloned into pET23b for expression in *Escherichia coli*. The gene was cloned without a signal sequence. The expressed protein is histidine-tagged and has an observed molecular weight of 31 kDa. The expected purified protein yield from a one liter culture is approximately 4 mg.

A plasmid map of NR-13291 is attached.

Note: Plasmid pMRLB.38 contains the gene required for ampicillin (Ap) resistance. The recommended concentration of Ap in culture is 130 µg/mL.

Material Provided:

Each vial contains approximately 1 µg of plasmid DNA in 10 mM Tris-HCl, pH 8.5. Lot 04.EC.12.07 contains approximately 1 µg of plasmid DNA in 10 mM Tris-HCl, pH 7.5. The concentration is shown on the Certificate of Analysis.

Packaging/Storage:

NR-13291 was packaged aseptically in 0.5 mL screw-capped 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 pMRLB.38 Containing Gene Rv3803c (Protein MPT51) from *Mycobacterium tuberculosis*, NR-13291."

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:

1. Cole, S. T., et al. "Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence." Nature 393 (1998): 537-544. PubMed: 9634230. Erratum in: Nature 396 (1998): 190-198.
2. TubercuList: [Gene Rv3803c](http://www.tubercuList.org)

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