

Plasmid pMRLB.51 Containing Gene Rv3763 (Protein LpqH) from *Mycobacterium tuberculosis*

Catalog No. NR-13302

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Contributor:

NIH - TB Vaccine Testing and Research Materials Contract

Product Description:

NR-13302 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3763, which encodes the conserved 19 kDa lipoprotein antigen precursor, LpqH.^{1,2} Gene Rv3763 was amplified by PCR and cloned into pET23b for expression in *Escherichia coli*. The gene was cloned with a signal sequence. The expressed protein is histidine-tagged and has an observed molecular weight of 19 kDa. The expected purified protein yield from a one liter culture is approximately 0.5 mg.

A plasmid map of NR-13302 is attached.

Note: Plasmid pMRLB.51 contains the gene required for ampicillin (Ap) resistance. The recommended concentration of Ap in culture is 100 µg/mL.

Material Provided:

Each vial contains approximately 1 µg of plasmid DNA in 10 mM Tris-HCl, pH 8.5. Lot 07.EC.10.18 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-13302 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Plasmid pMRLB.51 Containing Gene Rv3763 (Protein LpqH) from *Mycobacterium tuberculosis*, NR-13302."

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/bmb15/bmb15toc.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 [Rv3763](#)

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