

**Plasmid pMRLB.55 Containing Gene Rv3006 (Protein LppZ) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis***

**Catalog No. NR-13305**

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**Contributor:**

NIH - TB Vaccine Testing and Research Materials Contract

**Product Description:**

NR-13305 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3006, which encodes a probable conserved lipoprotein, LppZ.<sup>1</sup> Gene Rv3006 was amplified by PCR and cloned into pVV16 for expression in *Mycobacterium smegmatis*. The gene was cloned with a signal sequence. The expressed protein is histidine-tagged and has an observed molecular weight of 10 kDa.

A plasmid map of NR-13305 is attached.

Note: Plasmid pMRLB.55 contains the gene required for kanamycin (kan) resistance. The recommended concentration of kan in culture is 25 µg/mL.

**Material Provided:**

Each vial contains approximately 1 µg of plasmid DNA in 10 mM Tris-HCl, pH 8.5. Lot 07.EC.05.23 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-13305 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 Infection Research Resources Repository, NIAID, NIH: Plasmid pMRLB.55 Containing Gene Rv3006 (Protein LppZ) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*, NR-13305."

**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](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm).

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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 Rv3006](#)

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