

**Plasmid** pMRLB.16 **Containing** **Gene**  
**Rv0129c** **(Protein** **Ag85c)** **from**  
***Mycobacterium tuberculosis***

**Catalog No. NR-13275**

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NIH - TB Vaccine Testing and Research Materials Contract

**Product Description:**

NR-13275 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv0129c, which encodes fibronectin-binding protein C of the antigen 85 complex C (Ag85c).<sup>1,2</sup> Gene Rv0129c 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 32 kDa. The expected purified protein yield from a one liter culture is approximately 6 mg.

A plasmid map of NR-13275 is attached.

**Note:** Plasmid pMRLB.16 contains the gene required for ampicillin resistance (amp<sup>r</sup>). The recommended concentration of ampicillin in culture is 100 µg/mL.

**Material Provided:**

Each vial contains 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-13275 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.16 Containing Gene Rv0129c (Protein Ag85c) from *Mycobacterium tuberculosis*, NR-13275."

**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](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.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 Rv0129c](#)

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**pMRLB16 – Rv0129c – Ag85c – sig sequence in pET23b**

