

**Plasmid Rv3874** **pMRLB.46 (Protein Cfp10)** **Containing Gene from** ***Mycobacterium tuberculosis***

**Catalog No. NR-13297**

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**Contributor:**

NIH - TB Vaccine Testing and Research Materials Contract

**Manufacturer:**

BEI Resources

**Product Description:**

NR-13297 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3874, which encodes a 10 kDa culture filtrate protein, Cfp10.<sup>1,2</sup> Gene Rv3874 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 11 kDa. The expected purified protein yield from a one liter culture is approximately 1 mg.

A plasmid map of NR-13297 is attached.

Note: Plasmid pMRLB.46 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.02.06 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-13297 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.46 Containing Gene Rv3874 (Protein Cfp10) from *Mycobacterium tuberculosis*, NR-13297."

**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, 2009; see <http://www.cdc.gov/biosafety/publications/bmbl5/index.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: [Rv3874](#)

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