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SUPPORTING INFECTIOUS DISEASE RESEARCH

Plasmid	pMRLB73	Containing	Gene
ML0050	(Protein	CFP-10)	from
Mycobacterium leprae			

Catalog No. NR-19338

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Contributor:

BEI Resources

Manufacturer:

Karen Dobos, PhD., Colorado State University, Fort Collins, Colorado, USA

Product Description:

NR-19338 is a recombinant expression vector containing *Mycobacterium leprae* gene ML0050, which encodes culture filtrate protein 10 (CFP-10) [also known as ESAT-6-like protein (EsxB)].^{1,2} Gene ML0050 was amplified by PCR and cloned into pET28b for expression in *Escherichia coli*, strain TOP10. The expressed protein is histidine-tagged and has an observed molecular weight of 10 kDa.

Note: Plasmid pMRLB73 contains the gene required for kanamycin (Ka) resistance. The recommended concentration of Ka in culture is 50 μg/mL.

Material Provided:

Each vial contains approximately 1 μ g of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA buffer, pH 8). Please refer to the Certificate of Analysis for lot-specific information.

Packaging/Storage:

NR-19338 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Plasmid pMRLB73 Containing Gene ML0050 (Protein CFP-10) from *Mycobacterium leprae*, NR-19338."

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. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see <u>www.cdc.gov/biosafety/publications/bmbl5/index.htm</u>.

Disclaimers:

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References:

- 1. Leprosy: Gene ML0050
- Spencer, J. S., et al. "Analysis of Antibody Responses to Mycobacterium leprae Phenolic Glycolipid I, Lipoarabinomannan, and Recombinant Proteins to Define Disease Subtype-Specific Antigenic Profiles in Leprosy." <u>Clin. Vaccine Immunol.</u> 18 (2011): 260-267. PubMed: 21177913.

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