

Plasmid pMRLB78 Containing Gene ML0380 (Protein GroES) from *Mycobacterium leprae*

Catalog No. NR-19394

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Contributor:

BEI Resources

Manufacturer:

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

Product Description:

NR-19394 is a recombinant expression vector containing *Mycobacterium leprae* gene ML0380, which encodes chaperonin protein GroES [also known as major cytoplasmic protein (MCP)].^{1,2} Gene ML0380 was amplified by PCR and cloned into pET28 for expression in *Escherichia coli*, strain TOP10.¹ The expressed protein is histidine-tagged and has an observed molecular weight of 10 kDa.

Note: Plasmid pMRLB78 contains the gene required for kanamycin (Kan) resistance. The recommended concentration of Kan in culture is 50 µg/mL.

Material Provided:

Each vial contains approximately 1 µg 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-19394 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 pMRLB78 Containing Gene ML0380 (Protein GroES) from *Mycobacterium leprae*, NR-19394.”

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 www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. 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.” Clin. Vaccine Immunol. 18 (2011): 260-267. PubMed: 21177913.
2. Leprosy: Gene [ML0380](#)

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