

Plasmid pMRLB.68 Containing Gene Rv3846 (Protein SodA) from *Mycobacterium tuberculosis*

Catalog No. NR-15617

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Contributor:

BEI Resources or NIH - TB Vaccine Testing and Research Materials Contract

Manufacturer:

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA and NIH - TB Vaccine Testing and Research Materials Contract

Product Description:

NR-15617 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3846, which encodes the protein superoxide dismutase (SodA).^{1,2} Gene Rv3846 was amplified by PCR and cloned into pDEST17 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 25 kDa.

Note: Plasmid pMRLB.68 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 7.5.

Packaging/Storage:

NR-15617 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.68 Containing Gene Rv3846 (Protein SodA) from *Mycobacterium tuberculosis*, NR-15617.”

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. 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: [Rv3846](#)

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