Plasmid pMRLB.45 Containing Gene Rv1837c (Protein GlcB) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*

Catalog No. NR-13296
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Contributor:
NIH - TB Vaccine Testing and Research Materials Contract

Product Description:
NR-13296 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv1837c, which encodes a probable malate synthase G, GlcB. Gene Rv1837c was amplified by PCR and cloned into pVV16 for expression in *Mycobacterium smegmatis*. The gene was cloned with a signal sequence. The expressed protein is histidine-tagged and has an observed molecular weight of 80 kDa.

A plasmid map of NR-13296 is attached.

Note: Plasmid pMRLB.45 contains the genes required for hygromycin and kanamycin resistance. The recommended concentration of hygromycin and kanamycin in culture is 100 µg/mL and 25 µg/mL, respectively.

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-13296 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.45 Containing Gene Rv1837c (Protein GlcB) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*, NR-13296.”

Biosafety Level: 1

Disclaimers:
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References:
2. TubercuList: Rv1837c

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pMRLB.45-Rv1837c-GlcB

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