Plasmid pMRLB.57 Containing Gene Rv0379 (Protein SecE2) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*

Catalog No. NR-13307
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Contributor:
NIH - TB Vaccine Testing and Research Materials Contract

Product Description:
NR-13307 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv0379, which encodes a putative transport protein, SecE2.1,2 Gene Rv0379 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 8 kDa.

A plasmid map of NR-13307 is attached.

Note: Plasmid pMRLB.57 contains the gene required for kanamycin (Kan) resistance. The recommended concentration of Kan in culture is 25 µg/mL.

Material Provided:
Each vial contains approximately 1 µg of plasmid DNA in 10 mM Tris-HCl, pH 8.5. Lot 07.EC.05.23 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-13307 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 Infections Research Resources Repository, NIAID, NIH: Plasmid pMRLB.57 Containing Gene Rv0379 (Protein SecE2) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*, NR-13307.”

Biosafety Level: 1

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References:

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PVV16 secE2 rc
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