Plasmid pMRLB.24 Containing Gene Rv0577 from *Mycobacterium tuberculosis*

**Catalog No. NR-13288**
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**For research use only. Not for human use.**

**Contributor:**
NIH - TB Vaccine Testing and Research Materials Contract

**Product Description:**
NR-13288 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv0577, which encodes a conserved hypothetical protein, TB27.3.1,2 Gene Rv0577 was amplified by PCR and cloned into pET23b for expression in *Escherichia coli*. The gene was cloned with a signal sequence. The expressed protein is histidine-tagged and has an observed molecular weight of 27 kDa.

A plasmid map of NR-13288 is attached.

**Note:** Plasmid pMRLB.24 contains the gene required for ampicillin (Ap) resistance. The recommended concentration of Ap in culture is 130 µg/mL.

**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-13288 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.24 Containing Gene Rv0577 from *Mycobacterium tuberculosis*, NR-13288.”

**Biosafety Level:** 1

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**References:**

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