

**Plasmid pMRLB.7 Containing Gene Rv3875 (Protein ESAT-6) from *Mycobacterium tuberculosis***

**Catalog No. NR-50170**

This reagent is the tangible property of the U.S. Government.

**Product Description:**

NR-50170 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3875, which encodes the early secretory antigenic target ESAT-6, also known as esxA. NR-50170 was produced in *Escherichia coli* MAX Efficiency® DH5α™ cells (Invitrogen™ 18258-012) and extracted using the QIAGEN® Plasmid Maxi Kit.

**Lot: 70032422**

**Manufacturing Date: 14JAN2020**

| TEST  | SPECIFICATIONS  | RESULTS   |
|---|---|---|
| <b>PCR Amplification and Sequencing of Insert (~ 290 base pairs)</b>  | 100% sequence identity to <i>M. tuberculosis</i> , strain H37Rv gene Rv3875 (GenBank: FJ014499.1) | 100% sequence identity to <i>M. tuberculosis</i> , strain H37Rv gene Rv3875 (GenBank: FJ014499.1) |
| <b>Digital Restriction Digest<sup>1</sup></b><br>Linearization with <i>NdeI</i><br>Linearization with <i>XhoI</i><br>Digestion with <i>NdeI</i> and <i>XhoI</i> | ~ 3.9 kb<br>~ 3.9 kb<br>~ 0.3 kb (insert); ~ 3.6 kb (vector)                                      | ~ 3.9 kb<br>~ 3.9 kb<br>~ 0.3 kb (insert); ~ 3.6 kb (vector)                                      |
| <b>Concentration by PicoGreen® Measurement</b>  | Report results  | 0.14 µg in 50 µL per vial (2.8 µg/mL)   |

<sup>1</sup>Digital restriction digest was performed based on the NGS sequence of the complete plasmid. No enzyme digests were performed.

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04 MAY 2024

Technical Manager or designee, ATCC Federal Solutions

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