

**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<sup>®</sup> DH5 $\alpha$ <sup>™</sup> cells (Invitrogen<sup>™</sup> 18258-012) and extracted using the QIAGEN<sup>®</sup> Plasmid Maxi Kit.

**Lot: 70032422**

**Manufacturing Date: 14JAN2020**

| TEST  | SPECIFICATIONS  | RESULTS   |
|---|---|---|
| <b>PCR Amplification and Sequencing of Insert</b><br>(~ 530 bp)   | 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<sup>®</sup> Measurement</b>   | Report results  | 0.14 $\mu$ g in 50 $\mu$ L per vial (2.8 $\mu$ g/mL)  |

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

/Heather Couch/

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24 MAR 2020

Program Manager or designee, ATCC Federal Solutions

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