

**Plasmid pMRLB.51 Containing Gene Rv3763 (Protein LpqH) from *Mycobacterium tuberculosis***

**Catalog No. NR-13302**

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

**Product Description:** NR-13302 is a recombinant expression vector containing *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv, gene Rv3763, which encodes the conserved 19 kDa lipoprotein antigen precursor, LpqH. Gene Rv3763 was amplified by PCR and cloned into pET23b for expression in *Escherichia coli*.

**Lot<sup>1</sup>: 58821025**

**Manufacturing Date: 16NOV2009**

TEST	SPECIFICATIONS	RESULTS
<b>PCR Amplification and Sequencing of Insert (474 bp)</b>	Insert identical to <i>M. tuberculosis</i> , strain H37Rv gene Rv3763	Insert identical to <i>M. tuberculosis</i> , strain H37Rv gene Rv3763
<b>Agarose Gel Electrophoresis</b> Linearization with <i>Nde</i> I <sup>2</sup> Linearization with <i>Hind</i> III <sup>3</sup> Digestion with <i>Nde</i> I and <i>Hind</i> III <sup>2,3</sup>	~ 4.1 kb ~ 4.1 kb ~ 0.5 kb (insert); ~ 3.6 kb (vector)	~ 4.1 kb (Figure 1) ~ 4.1 kb (Figure 1) ~ 0.5 kb; ~ 3.6 kb (Figure 1)
<b>Concentration by PicoGreen<sup>®</sup> Measurement</b>	0.75 to 1.25 µg in 25 to 100 µL per vial	1.1 µg in 74 µL per vial (14 µg/mL)
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 1.9	1.9
<b>Effective Bacterial Transformation</b>	≥ 100 colonies per 10 ng	≥ 100 colonies per 10 ng

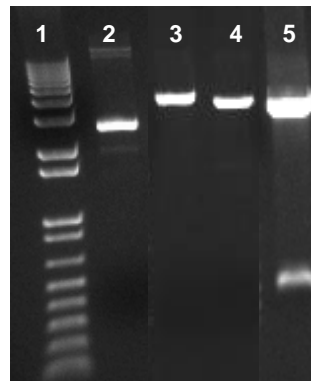
<sup>1</sup>Produced in *Escherichia coli* MAX Efficiency<sup>®</sup> DH5α<sup>™</sup> cells (Invitrogen<sup>™</sup> 18258-012) and extracted using the Qiafilter Plasmid Midi Kit (QIAGEN<sup>®</sup> 12243)

<sup>2</sup>*Nde*I (New England BioLabs, Inc. R0111L)

<sup>3</sup>*Hind*III (New England BioLabs, Inc. R0104M)

**Figure 1: Agarose Gel of Undigested and Restriction Enzyme Digested NR-13302.**

Lane 1: Invitrogen<sup>™</sup> TrackIt 1 Kb Plus DNA Ladder<sup>™</sup>  
Lane 2: Undigested NR-13302  
Lane 3: NR-13302 digested with *Nde*I  
Lane 4: NR-13302 digested with *Hind*III  
Lane 5: NR-13302 digested with *Nde*I and *Hind*III



**Date:** 16 APR 2010

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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