

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.

Lot¹: 64034836

Manufacturing Date: 14JUL2016

TEST	SPECIFICATIONS	RESULTS
PCR Amplification and Sequencing of Insert (~290 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)
Agarose Gel Electrophoresis Linearization with <i>NdeI</i> Linearization with <i>XhoI</i> Digestion with <i>NdeI</i> and <i>XhoI</i>	~ 3.9 kb ~ 3.9 kb ~ 0.3 kb (insert); ~ 3.6 kb (vector)	Pending Pending Pending
Concentration by PicoGreen[®] Measurement	Report results	0.29 µg in 50 µL per vial (5.8 µg/mL)
Effective Bacterial Transformation	≥ 100 colonies per 10 ng	≥ 100 colonies per 10 ng

¹Produced in *Escherichia coli* MAX Efficiency[®] DH5α[™] cells (Invitrogen[™] 18258-012) and extracted using the QIAGEN[®] Plasmid Maxi Kit.

Date: 31 OCT 2016

Signature:

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