

Plasmid pMRLB76 Containing Gene ML2028 (Protein Ag85B) from *Mycobacterium leprae***Catalog No. NR-19392**

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

Product Description: NR-19392 is a recombinant expression vector containing *Mycobacterium leprae* gene ML2028, which encodes the antigen 85B protein [also known as fibronectin-binding protein B (FbpB)] that is involved in cell wall mycoloylation. Gene ML2028 was amplified by PCR and cloned into pET28b for expression in *Escherichia coli*, strain TOP10. The expressed protein is histidine-tagged and has an observed molecular weight of 34.8 kDa.

Lot: 61002001**Manufacturing Date: 12MAY2011**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for the bulk lot pMRLB76 02.04.2011 is attached. This lot was received as dry pellets from CSU and rehydrated in TE buffer (10 mM Tris-HCl, 1 mM EDTA buffer, pH 8) at ATCC®. Approximately 50 µL of a 0.02 µg/µL solution was dispensed per vial yielding a final amount of 1 µg per vial. A plasmid map is attached.

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



Recombinant Plasmid Quality Control Record

Plasmid designation pMRLB76 (pET28-Ag85B ML2028)
 Lot Number pMRLB76 02.04.2011

Notebook/Pgs JNKBook#1/ pp.126-127, 131
 Notebook detail Plasmid Prep pp. 126-127
A260 and stock dilution pp.126
QC gel pp. 131

Media used LB Broth 50 µg/mL Kanamycin
 Culture size 1 x 1L
 Growth conditions: Temp 37°C Time 16 hr. Shaker speed 130 rpm

Plasmid prep type (mini/maxi, kit name or protocol) Qiagen Maxi Prep protocol
 Plasmid prep detail: Maxi prep lysate and tip washing conditions
Purification (Wash & elution)- Qia500 tips-

Strain used to produce plasmid TOP-10

E. coli ori? Y/N Y

Contains Mycobacterial ori? Y/N N

Final concentration Dried, 20 µg/tube

Number of batches 3 x 20 µg
 Buffer TE Buffer

Method used for quantifying A260

QC gel


Restriction enzymes used in QC analysis NdeI, HindIII & PstI

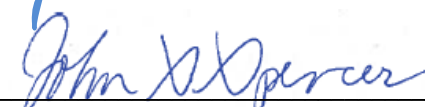
Expected size of restriction fragments
 Vector 5.369kb pET28b NdeI + HindIII
 Insert 0.920kb Ag85B NdeI + HindIII
 Other 6.289kb Linearized plasmid- NdeI, HindIII, PstI

Gel results: All predicted bands visible pp. 131

Gel description (file number, % agarose, buffer) ED Ag85B 2011.04.12.jpg, 1.5% 1 X TAE
 Sequence file: Ag85B sequence 02.01.2011.ppt

Plasmid Map: Attached

Generated by  Date 5/12/11

Supervisor  Date 5/12/11

pET28-Ag85B (ML2028)

