

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-13311

Plasmid pMRLB.61 Containing Gene Rv0432 (Protein SodC) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*

Catalog No. NR-13311

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

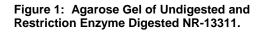
Product Description: NR-13311 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv0432, which encodes a probable periplasmic superoxide dismutase, SodC. Gene Rv0432 was amplified by PCR and cloned into pVV16 for expression in *Mycobacterium smegmatis*.

Lot¹: 58730808 Manufacturing Date: 08MAR2010

TEST	SPECIFICATIONS	RESULTS
PCR Amplification and Sequencing of Insert (723 bp)	Insert identical to <i>M. tuberculosis</i> , strain H37Rv gene Rv0432	Insert identical to <i>M. tuberculosis</i> , strain H37Rv gene Rv0432
Agarose Gel Electrophoresis Linearization with Ndel ² Linearization with HindIII ³ Digestion with Ndel and HindIII ^{2,3}	~ 5.8 kb ~ 5.8 kb ~ 0.7 kb (insert); ~ 6.5 kb (vector)	~ 5.8 kb (Figure 1) ~ 5.8 kb (Figure 1) ~ 0.7 kb; ~ 6.5 kb (Figure 1)
Concentration by PicoGreen® Measurement	0.7 to 1.5 μg in 25 to 100 μL per vial	1.6 μg in 57 μL per vial (28 μg/mL) ⁴
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 1.9	1.9
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 Mega Kit (QIAGEN[®] 12181)

⁴The μg of DNA in the vials is greater than required by current specifications.

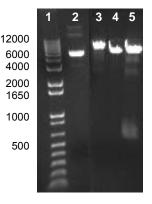


Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™

Lane 2: Undigested NR-13311

Lane 3: NR-13311 digested with *Ndel*Lane 4: NR-13311 digested with *HindIII*Lane 5: NR-13311 digested with *Ndel* and

HindIII



Date: 17 MAY 2010 **Signature:** Signature on File

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected 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.

Biodefense and Emerging Infections Research Resources Repository

www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

NR-13311_58730808_17MAY2010

²Ndel (New England BioLabs, Inc. R0111L)

³HindIII (New England BioLabs, Inc. R0104M)