Plasmid pMRLB.63 Containing Gene Rv3841 (Protein BfrB) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*

**Catalog No. NR-13313**
This reagent is the tangible property of the U.S. Government.

**Product Description:** NR-13313 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3841, which encodes a probable bacterioferritin, BfrB. Gene Rv3841 was amplified by PCR and cloned into pVV16 for expression in *Mycobacterium smegmatis*.

**Lot:** 09.EC.2.17  
**Manufacturing Date:** 17FEB2009

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<th>TEST</th>
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| Agarose Gel Electrophoresis (see attached QC Gel)† | Linearization with *NdeI*  
  Linearization with *HindIII*  
  Digestion with *NdeI* and *HindIII* | ~ 6.37 kb  
  ~ 6.37 kb  
  ~ 0.56 kb (insert); ~ 5.82 kb (vector) | Pending  
  ~ 6.37 kb  
  ~ 0.56 kb; ~ 5.82 kb |
| Concentration by OD₂₅₀                   | Report results                              | 0.08 µg/µL      |
| Absorbance Ratio (OD₂₅₀/OD₂₈₀)           | Report results                              | 1.7             |

†Performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)

**Date:** 09 NOV 2009  
**Signature:** Signature on File  
**Title:** Technical Manager, BEI Authentication or designee

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QC gel

Restriction enzymes used in QC analysis:

NdeI & HindIII

Expected size of restriction fragments

Vector 5.822 kb pVV16 + NdeI + HindIII
Insert 0.546 kb Rv3841 + NdeI + HindIII
Other 6.368 kb linearized plasmid – NdeI, HindIII single digests

Gel description (file number, % agarose, buffer) mmcontract1 pp79, 2%, 1X TAE
Molecular weight markers Invitrogen supercoiled DNA ladder, NEB 1kb DNA ladder

Left → Right:
1) Invitrogen supercoiled DNA ladder
2) pMRLB63.Rv3841 uncut
3) pMRLB63.Rv3841/NdeI
4) pMRLB63.Rv3841/HindIII
5) pMRLB63.Rv3841/NdeI + HindIII
6) NEB 1kb DNA ladder

Generated by Myra Lucas Date 11-5-09
Supervisor P. Date 11/5/2009

Created on 01/12/05 2