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.

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Contributor:

NIH - TB Vaccine Testing and Research Materials Contract

Product Description:

NR-13313 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3841, which encodes a probable bacterioferritin, BfrB.[1,2] Gene Rv3841 was amplified by PCR and cloned into pVV16 for expression in *Mycobacterium smegmatis.* The gene was cloned with a signal sequence. The expressed protein is histidine-tagged and has an observed molecular weight of 20 kDa.

A plasmid map of NR-13313 is attached.

Note: Plasmid pMRLB.63 contains the gene required for kanamycin (kan) resistance. The recommended concentration of kan in culture is 25 µg/mL.

Material Provided:

Each vial contains 1 µg of plasmid DNA in 10 mM Tris-HCl, pH 7.5. The concentration is shown on the Certificate of Analysis.

Packaging/Storage:

NR-13313 was packaged aseptically in 0.5 mL screw-capped cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infection Research Resources Repository, NIAID, NIH: Plasmid pMRLB.63 Containing Gene Rv3841 (Protein BfrB) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*, NR-13313."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

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References:

1. Cole, S. T., et al. "Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence." Nature 393 (1998): 537-544. PubMed: 9634230. Erratum in: Nature 396 (1998): 190-198.
2. TubercuList: Rv3841

Support Provided by NIAID

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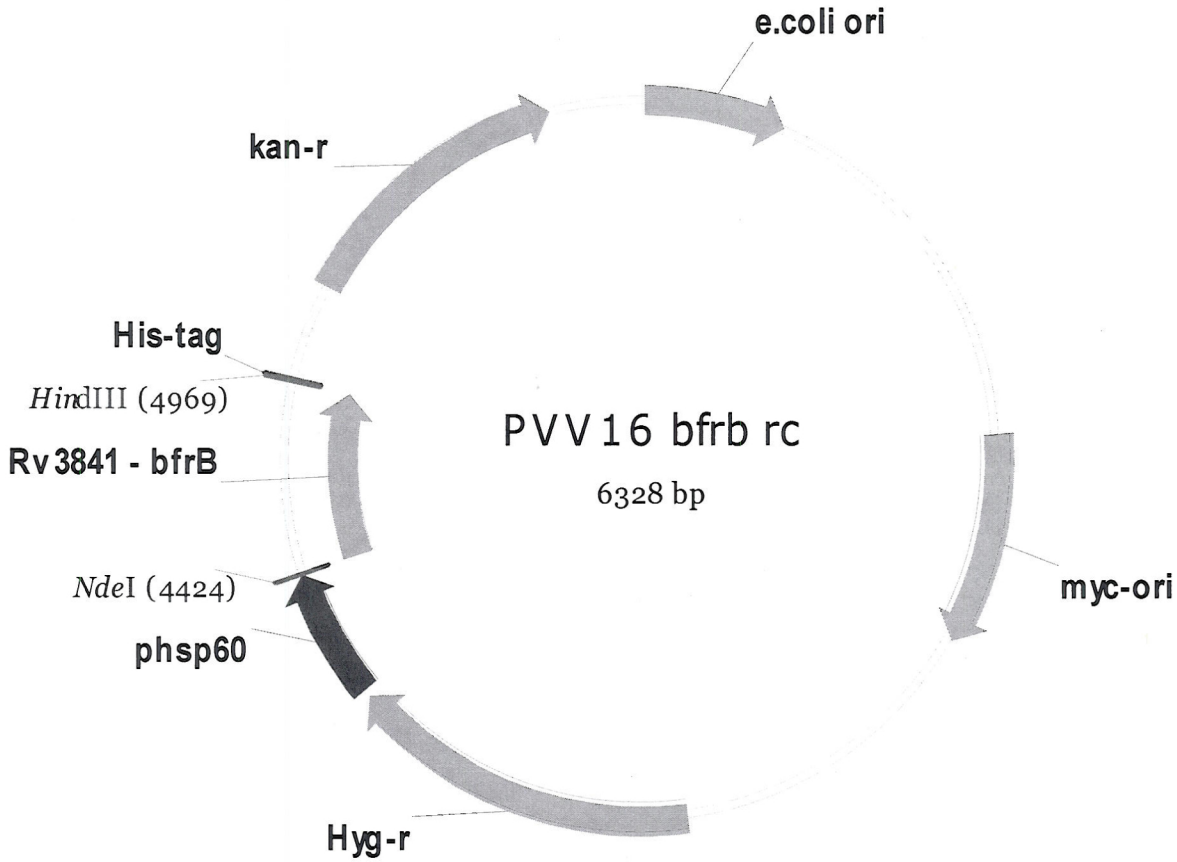
e.coli ori
kan-r
His-tag
HindIII (4969)
Rv3841 - bfrB
NdeI (4424)
phsp60
Hyg-r
myc-ori
PVV16 bfrb rc
6328 bp