Plasmid pUC19 Containing the Internal Transcribed Spacer (ITS)1-5.8S Ribosomal RNA Gene-ITS2 Region from *Babesia microti*, Strain GI

Catalog No. NR-50741

For research use only. Not for human use.

Contributor and Manufacturer:
BEI Resources

Product Description:
The ITS1-5.8S rRNA-ITS2 region from *Babesia microti (B. microti)*, strain GI was amplified by PCR and cloned into vector pUC19. The resulting plasmid, NR-50741, may be used in PCR assays for the detection of *B. microti*.[1] The plasmid was produced in MAX Efficiency™ DH5α Competent *Escherichia coli* (Invitrogen™) and extracted using a QIAGEN® Plasmid Midi Kit. Ampicillin was incorporated as a selectable marker.

The resulting size of the plasmid is approximately 3500 to 3600 base pairs. The complete plasmid sequence and plasmid map are provided on the Certificate of Analysis for NR-50741.

Material Provided:
Each vial contains 0.7 µg to 1.5 µg of plasmid DNA in EB buffer (10 mM Tris-HCl, pH ~ 8.5). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:
NR-50741 was packaged aseptically in screw-capped plastic 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.

Note: NR-50741 is provided in buffer without ethylenediamine-tetraacetic acid (EDTA); for long-term storage, EDTA may be added to a final concentration of 1 mM.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Plasmid pUC19 Containing the Internal Transcribed Spacer (ITS)1-5.8S Ribosomal RNA Gene-ITS2 Region from *Babesia microti*, Strain GI, NR-50741."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:
1. Wilson, M., et al. "Development of Droplet Digital PCR for the Detection of *Babesia microti* and *Babesia duncani*." Exp. Parasitol. 149 (2015): 24-31. PubMed: 25500215.

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