

**Plasmid pUC19 Containing the Internal Transcribed Spacer (ITS)1-5.8S Ribosomal RNA Gene-ITS2 Region from *Babesia duncani*, Strain WA1**

**Catalog No. NR-50742**

**For research use only. Not for human use.**

**Contributor and Manufacturer:**

BEI Resources

**Product Description:**

The ITS1-5.8S rRNA-ITS2 region from *Babesia duncani* (*B. duncani*), strain WA1 was amplified by PCR and cloned into vector pUC19. The resulting plasmid, NR-50742, may be used in PCR assays for the detection of *B. duncani*.<sup>1</sup> 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-50742.

**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-50742 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-50742 was 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 duncani*, Strain WA1, NR-50742.”

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

**Disclaimers:**

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

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**

**This material is distributed for internal research, non-commercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

**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.

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

