

## *Wuchereria bancrofti* Cut-1 Forward Primer

### Catalog No. NR-42619

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

#### Contributor:

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#### Manufacturer:

Integrated DNA Technologies, Inc. (IDT<sup>®</sup>)

#### Product Description:

The Cut-1 forward primer is a 25 nucleotide primer<sup>2</sup> designed for use with the Cut-1 reverse primer (NR-42620) in quantitative real-time PCR detection of *Wuchereria bancrofti* (*W. bancrofti*) infective stage larvae (L3). The Cut-1 primer set amplifies 144 base pairs of an L3 activated cuticulin gene. The sequence of the Cut-1 forward primer is: 5'-CACACAAATTGAAGTTTCCGAAATT-3'.<sup>3</sup> The *W. bancrofti* Cut-1 primer set is designed to be used with a dual labeled probe: 6FAM-TGCCTGTATGTCGATATGAGATTCTTGATG GTG-TAMRA<sup>™</sup>.

#### Material Provided:

Each vial contains approximately 20 µL of forward primer in nuclease-free TE buffer (1 mM Tris-HCl, 0.1 mM EDTA, pH ~ 8). The concentration is shown on the Certificate of Analysis.

#### Packaging/Storage:

Primers were packaged aseptically in plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder upon arrival. Freeze-thaw cycles should be minimized.

#### Citation:

Acknowledgment for publications should read "The following reagent was provided by the NIH/NIAID Filariasis Research Reagent Resource Center for distribution by BEI Resources, NIAID, NIH: *Wuchereria bancrofti* Cut-1 Forward Primer, NR-42619."

#### 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).

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#### References:

1. Michalski, M. L., et al. "The NIH-NIAID Filariasis Research Reagent Resource Center." *PLoS Negl. Trop. Dis.* 5 (2011): e1261. PubMed: 22140585.
2. Laney, S.J., et al. "Detection of *Wuchereria bancrofti* L3 Larvae in Mosquitoes: A Reverse Transcriptase PCR Assay Evaluating Infection and Infectivity." *PLoS Negl. Trop. Dis.* 4 (2010): e602. PubMed: 20169115.
3. Williams, S.A., Personal Communication.

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