

Filarial Forward S2 Primer for 5S rDNA Amplification

Catalog No. NR-42623

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For research use only. Not for human use.

Contributor:

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Manufacturer:

Integrated DNA Technologies, Inc. (IDT[®])

Product Description:

The filarial S2 forward primer is a 21 nucleotide primer² designed to amplify the 5S rDNA when paired with the S16 reverse primer (NR-42624). The S2 and S16 primers are designed to target a highly conserved region of the 5S rDNA and can be used to amplify DNA from the *Onchocercidae* family including, but not limited to: *Brugia*, *Wuchereria*, *Onchocerca*, *Mansonella*, *Dirofilaria* and *Ancanthocheilonema* genera. The amplified product ranges in size from approximately 400 to 600 base pairs, depending on the species. The sequence of the S2 forward primer is 5'-GTTAAGCAACGTTGGGCCTGG-3'.³

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: Filarial Forward S2 Primer for 5S rDNA Amplification, NR-42623."

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.

Disclaimers:

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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. Xie, H., O. Bain and S. A. Williams. "Molecular Phylogenetic Studies on Filarial Parasites Based on 5S Ribosomal Spacer Sequences." *Parasite* 1 (1994): 141-151. PubMed: 9140481.
3. Williams, S. A., Personal Communication.

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