

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-29379**

# Schistosoma mansoni, Microsatellite SMDA28 Forward Primer

## Catalog No. NR-29379

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# For research use only. Not for human use.

#### Contributor:

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#### Manufacturer:

Eurofins MWG Operon

# **Product Description:**

NR-29379 is a twenty nucleotide forward primer designed to amplify microsatellite SMDA28 from *Schistosoma mansoni* (*S. mansoni*) when paired with the SMDA28 reverse primer (NR-29380). The sequence of the SMDA28-F 20-mer is 5'-ATACGAGGCCGACCCGTGGA-3'.<sup>1,2</sup> Please see Appendix I for general PCR procedure details.

#### **Material Provided:**

Each vial contains approximately 30 µL of forward primer in nuclease-free distilled water. The concentration is shown on the Certificate of Analysis.

#### Packaging/Storage:

Primers were packaged aseptically in screw-capped 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. Note: For long-term storage it is strongly recommended that primers are kept in TE buffer (10 mM Tris, 1 mM EDTA), pH 8.0 at -20°C or colder.

#### Citation:

Acknowledgment for publications should read "The following reagent was provided by the NIAID Schistosomiasis Resource Center for distribution through BEI Resources, NIAID, NIH: Schistosoma mansoni, Microsatellite SMDA28 Forward Primer, NR-29379."

### 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.

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#### References:

- Gower, C. M., et al. "Development and Application of an Ethically and Epidemiologically Advantageous Assay for the Multi-Locus Microsatellite Analysis of Schistosoma mansoni." Parasitology 134 (2007): 523-536. PubMed: 17096873.
- Curtis, J., et al. "Microsatellite Loci in the Human Blood Fluke Schistosoma mansoni and their Utility for Other Schistosome Species." Mol. Ecol. Notes 1 (2001): 143-145.

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# **Product Information Sheet for NR-29379**

## **APPENDIX I**

## S. mansoni Microsatellite Primers

**Recommended Reagents/Equipment** 

recommended reagents/Equipment				
Reagent	Source	Catalog #		
S. mansoni microsatellite primers (forward and reverse)	BEI Resources	NR-29379 to NR-29395		
Genomic DNA from S. mansoni <sup>1</sup>	BEI Resources	NR-28910 to NR-28912		
10X PCR Buffer	No Manufacturer Recommended	N/A		
Taq <sup>®</sup> Polymerase	No Manufacturer Recommended	N/A		
dNTP Mix	No Manufacturer Recommended	N/A		
Molecular Biology Grade Water	No Manufacturer Recommended	N/A		

<sup>&</sup>lt;sup>1</sup>Primers can also be used with other S. mansoni nucleic acids.

#### Reaction Mix<sup>1</sup>

Reagent	Stock Concentration	Volume per Reaction (μL)
Molecular Biology Grade Water		16.5
10X PCR Buffer	10X	2.5
dNTP Mix	5 mM each	1
Taq <sup>®</sup> Polymerase	5 Units per μL	1
Forward and Reverse Primers <sup>2</sup>	10 μM (each primer)	1
Template DNA	25 ng per μL	2
		Total – 25 μL

**Cycling Protocol** 

	Cycling i Totocol				
Cycle	# of Repeats	Step	Conditions		
1	1	1	94°C for 15 minutes		
2	10	1	94°C for 30 seconds		
		2	68°C for 90 seconds (decrease temperature 1°C per cycle)		
3	20	1	94°C for 30 seconds		
		2	58°C for 90 seconds		
4	1	1	72°C for 60 seconds		
5	1	1	60°C for 30 minutes		

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<sup>&</sup>lt;sup>1</sup>Reaction mix should be kept on bench-top cooler until ready for use.
<sup>2</sup>Primers are supplied at a concentration of 100 μM and need to be diluted to the working stock concentrations.