

# Schistosoma mansoni, Myoglobin (Mb) Gene Reverse Primer

## Catalog No. NR-41362

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

### Contributor:

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### Manufacturer:

Eurofins MWG Operon

### Product Description:

NR-41362 contains a twenty-three nucleotide reverse primer designed to amplify the myoglobin (Mb) gene from *Schistosoma mansoni* (*S. mansoni*) when paired with the Mb forward primer (NR-41326). The sequence of the Mb reverse 23-mer is 5'-TCATCGGCAAAAGAGCCGAAACA-3'. Please see Appendix I for general PCR procedure details.

### Material Provided:

Each vial contains approximately 30 µL of forward primer in TE buffer (100 mM Tris-HCl, 0.5 M EDTA, pH 7.5). 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.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Schistosoma mansoni*, Myoglobin (Mb) Gene Reverse Primer, NR-41362."

### 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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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## APPENDIX I

*S. mansoni* Mb Primers

## Recommended Reagents/Equipment

Reagent	Source	Catalog #
<i>S. mansoni</i> Mb primers (forward and reverse)	BEI Resources	NR-41326 and NR-41362
Genomic DNA from <i>S. mansoni</i> <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>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

<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.

## Cycling Protocol

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