

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-41336

Biomphalaria glabrata, 28\$ Ribosomal RNA Gene Forward Primer

Catalog No. NR-41336

This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor:

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Manufacturer:

Eurofins MWG Operon

Product Description:

NR-41336 contains a twenty nucleotide forward primer designed to amplify the 28S ribosomal RNA gene from *Biomphalaria glabrata (B. glabrata)* when paired with the 28S ribosomal RNA reverse primer (NR-41372). The sequence of the 28S ribosomal RNA forward 20-mer is 5'-TCGCCGCGTGCACTTTCCAT-3'. Please see Appendix I for general PCR procedure details.

Material Provided:

Each vial contains approximately 30 μ L 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 provided by the NIAID Schistosomiasis Resource Center for distribution through BEI Resources, NIAID, NIH: *Biomphalaria glabrata*, 28S Ribosomal RNA Gene Forward Primer, NR-41336."

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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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APPENDIX I

B. glabrata 28S Ribosomal RNA Primers

Recommended Reagents/Equipment

Recommended Reagents/Equipment				
Reagent	Source	Catalog #		
B. glabrata 28S ribosomal RNA primers (forward and reverse)	BEI Resources	NR-41336 and NR-41372		
Genomic DNA from B. glabrata ¹	BEI Resources	NR-29375 to NR-29377		
10X PCR Buffer	No Manufacturer Recommended	N/A		
Taq [®] Polymerase	No Manufacturer Recommended	N/A		
dNTP Mix	No Manufacturer Recommended	N/A		
Molecular Biology Grade Water	No Manufacturer Recommended	N/A		

¹Primers can also be used with other *B. glabrata* nucleic acids.

Reaction Mix¹

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 [®] Polymerase	5 Units per μL	1
Forward and Reverse Primers ²	10 µM (each primer)	1
Template DNA	25 ng per μL	2
		Total – 25 μL

¹Reaction mix should be kept on bench-top cooler until ready for use.

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	

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 $^{^2}$ Primers are supplied at a concentration of 100 μ M and need to be diluted to the working stock concentrations.