

**Schistosoma mansoni, Protein Disulfide Isomerase (PDI) Gene Forward Primer**

**Catalog No. NR-41327**

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

**Product Description:** NR-41327 contains a twenty nucleotide forward primer designed to amplify the protein disulfide isomerase (PDI) gene from *Schistosoma mansoni* (*S. mansoni*) when paired with the PDI reverse primer (NR-41363). The sequence of the PDI forward 20-mer is 5'-TCGCTGCGTCAGAGGTCCT-3'.

**Lot<sup>1</sup>: 62128123**

**Manufacturing Date: 01OCT2013**

TEST	SPECIFICATIONS	RESULTS
<b>PCR Amplification and Sequencing<sup>2,3</sup></b> Amplicon size	~ 320 base pair amplicon	~ 320 base pair amplicon (Figure 1)
<b>Primer Characteristics<sup>1</sup></b> Molecular weight Primer melting temperature (T <sub>m</sub> ) GC content Primer concentration Moles of primer Micrograms of primer	Report results Report results Report results Report results Report results Report results	6109 g/mol 64.5°C 60.0% 100 µM 3.0 nmoles per vial 18.3 µg per vial
<b>Gene Stability by Quantitative Real-Time PCR</b>	Report results	No statistical significant difference in threshold cycle (Ct) <sup>4,5</sup>

<sup>1</sup>NR-41327 lot 62128123 was manufactured by Eurofins MWG Operon. Primer characteristics were determined by the manufacturer.

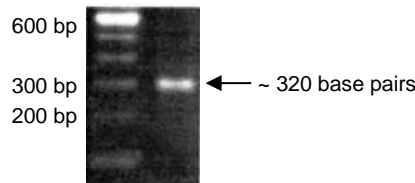
<sup>2</sup>PCR completed by the Biomedical Research Institute.

<sup>3</sup>Position 41 to 359 of GenBank: XM\_002576922

<sup>4</sup>20 individual snails were utilized for RT-PCR amplification

<sup>5</sup>ANOVA test (P value = 0.01)

**Figure 1: PCR Amplification of *S. mansoni* PDI Gene using NR-41327 and NR-41363**



**Date:** 24 MAR 2014

**Signature**

**Title:**

Technical Manager, BEI Authentication or designee

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