

Schistosoma mansoni, Actin Gene Forward Primer

Catalog No. NR-41322

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

Product Description: NR-41322 contains a twenty-one nucleotide forward primer designed to amplify the actin gene from *Schistosoma mansoni* (*S. mansoni*) when paired with the actin reverse primer (NR-41358). The sequence of the actin forward 21-mer is 5'-AAGTGAACATGGCCGACGAGG-3'.

Lot¹: 61433113

Manufacturing Date: 17MAY2012

TEST	SPECIFICATIONS	RESULTS
PCR Assay of Extracted Nucleic Acid^{2,3,4} Amplicon size	~ 420 base pair amplicon	~ 420 base pair amplicon (Figure 1)
Primer Characteristics¹ Molecular weight Primer melting temperature (Tm) GC content Primer concentration Moles of primer Micrograms of primer	Report results Report results Report results Report results Report results Report results	6843 g/mol 64.5°C 54.5% 100 µM 3.0 nmoles per vial 20.5 µg per vial
Gene Stability by Quantitative Real-Time PCR	Report results	No statistical significant difference in threshold cycle (Ct) ^{5,6}

¹NR-41322 lot: 61433113 was manufactured by Eurofins MWG Operon. Primer characteristics were determined by the manufacturer. The bulk material was thawed and aliquoted at ATCC®.

²PCR completed by the Biomedical Research Institute prior to vialing at ATCC®.

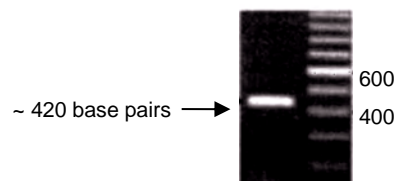
³Position 37 to 452 of GenBank: U19945.1

⁴This test showed no cross amplification in mice

⁵20 individual snails were utilized for RT-PCR amplification

⁶ANOVA test (P value = 0.01)

Figure 1: PCR Amplification of *S. mansoni* Actin Gene using NR-41322 and NR-41358



Date: 16 SEP 2013

Signature:

Title:

Technical Manager, BEI Authentication or designee

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