

Schistosoma mansoni, Myoglobin (Mb) Gene Forward Primer

Catalog No. NR-41326

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Product Description: NR-41326 contains a twenty-two nucleotide forward primer designed to amplify the myoglobin (Mb) gene from *Schistosoma mansoni* (*S. mansoni*) when paired with the Mb reverse primer (NR-41362). The sequence of the Mb forward 22-mer is 5'-ACCGCAAGTGGACACAGAAGCA-3'.

Lot¹: 61433119

Manufacturing Date: 17MAY2012

| TEST | SPECIFICATIONS | RESULTS |
|---|--|--|
| PCR Assay of Extracted Nucleic Acid^{2,3,4} Amplicon size | ~ 190 base pair amplicon | ~ 190 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 | 6771 g/mol 64.5°C 54.5% 100 µM 3.0 nmoles per vial 20.3 µg per vial |
| Gene Stability by Quantitative Real-Time PCR | Report results | No statistical significant difference in threshold cycle (Ct) ^{5,6} |

¹NR-41326 lot: 61433119 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.

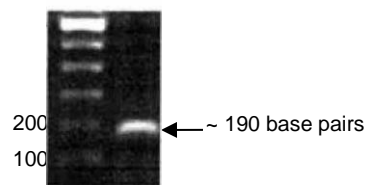
³Position 51 to 238 of GenBank: XM002578586

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* Mb Gene using NR-41326 and NR-41362



Date: 17 SEP 2013

Signature:

Title: Technical Manager, BEI Authentication or designee

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