

Complementary DNA Synthesized from *Schistosoma mansoni*, Strain NMRI, Infected Mouse MicroRNA (acute)

Catalog No. NR-48854

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Product Description: Complementary DNA (cDNA) was synthesized from microRNA (miRNA) extracted from pooled plasma of mice infected for 3 weeks with *Schistosoma mansoni* (*S. mansoni*), strain NMRI.

Lot^{1,2}: 62854885

Manufacturing Date: 12JUL2014

TEST	SPECIFICATIONS	RESULTS
Concentration	Report results	1.0 µg in 20 µL per vial (0.05 µg/µL)
OD ₂₆₀ /OD ₂₈₀ Ratio	1.70 to 2.00	1.81
Quantification of miRNA by RT-PCR Fold change of parasite-derived miRNAs ^{3,4}	>2-fold change detected	>2-fold change detected (Figure 1)

¹QC testing was performed by the Biomedical Research Institute, Rockville, MD (NIH-NIAID Contract HHSN2722010000051)

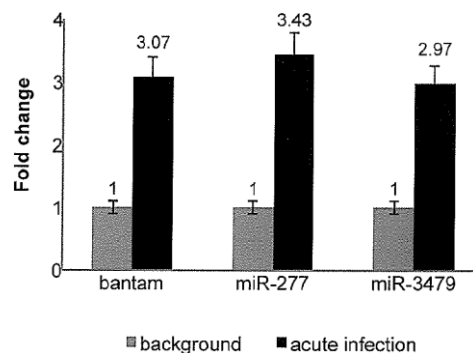
²miRNA from pooled plasma from mice infected 3 weeks was purified by NucleoSpin[®] miRNA-Plasma Kit (Clontech). cDNA was synthesized from the miRNA, using Mir-X[™] miRNA First Strand Synthesis (Clontech), according to the manufacturer's instructions.

³Real time PCR was performed using SYBR-qRT-PCR (Clontech) according to the manufacturer's instructions.

⁴Primers utilized for real time PCR are described in Hoy, A. M., et al. "Parasite-Derived MicroRNAs in Host Serum as Novel Biomarkers of Helminth Infection" *PLoS Negl. Trop. Dis.* 8 (2014): e2701. PubMed: 24587461.

Figure 1: Detection of *S. mansoni* Derived miRNAs (bantam, miR-277 and miR-3479) in Pooled Mouse Plasma after 3 Weeks Parasite Infection.

miRNA was quantified by real time PCR, normalized to a synthetic RNA spike-in and the fold change was calculated as the ratio of abundance in infected plasma compared to the background abundance level detected in normal samples.



Date: 22 APR 2015

Signature: 

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