

# **Product Information Sheet for NR-41872**

SUPPORTING INFECTIOUS DISEASE RESEARCH

Expression Vector Containing the Melanogenic Peroxidase Gene Fragment from *Biomphalaria glabrata*, Recombinant in *Escherichia coli* 

# Catalog No. NR-41872

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

# For research use only. Not for human use.

#### **Contributor and Manufacturer:**

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## **Product Description:**

NR-41872 is an expression vector (pCR®2.1-TOPO®) containing a fragment of the melanogenic peroxidase gene from *Biomphalaria glabrata* (*B. glabrata*), transformed into *Escherichia coli* (*E. coli*), strain DH5α.1

To create the insert, RNA was extracted from juvenile *B. glabrata*, strain BS90, that were exposed to *Schistosoma mansoni*. First strand cDNA was synthesized with oligopoly(dT)15. To construct the library, first strand cDNA was processed into all steps of suppression subtractive hybridization (SSH) using the Clontech® PCR-Select™ cDNA Subtraction Kit. PCR was performed using adaptor-specific primers for the melanogenic peroxidase gene fragment. The amplified product was cloned into pCR®2.1-TOPO® (Invitrogen™ Life Technologies™) cloning vector, and was transformed into *E. coli*, strain DH5 $\alpha$ . Life the coli, strain DH5 $\alpha$ .

The expressed sequence tag (EST) of the melanogenic peroxidase gene fragment is available (GenBank: GH716074).

#### **Material Provided:**

Each vial contains approximately 1 mL of *E. coli*, strain DH5 $\alpha$ , in Luria Bertani (LB) broth containing 100  $\mu$ g/mL of ampicillin supplemented with 15% glycerol.

# Packaging/Storage:

NR-41872 was packaged aseptically in screw-capped cryovials. The product is provided frozen on dry ice and should be stored at -80°C or colder immediately 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: Expression Vector Containing the Melanogenic Peroxidase Gene Fragment from *Biomphalaria glabrata*, Recombinant in *Escherichia coli*, NR-41872."

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

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### References:

- 1. Tucker, M.S., Personal Communication.
- Ittiprasert, W., et al. "Identification of Immediate Response Genes Dominantly Expressed in Juvenile Resistant and Susceptible *Biomphalaria glabrata* Snails Upon Exposure to Schistosoma mansoni." Mol. Biochem. Parasitol. 169 (2010): 27-39. PubMed: 19815034.

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