

# **Product Information Sheet for NR-41873**

SUPPORTING INFECTIOUS DISEASE RESEARCH

# Expression Vector Containing the Receptor Activated C-Kinase (RACK) Gene Fragment from *Biomphalaria glabrata*, Recombinant in *Escherichia coli*

## Catalog No. NR-41873

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-41873 is an expression vector (pCR®2.1-TOPO®) containing a fragment of the RACK gene from *Biomphalaria glabrata* (*B. glabrata*), transformed into *Escherichia coli* (*E. coli*), strain DH5α.1.2

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 RACK 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 $\alpha$ . $^{1,2}$ 

The expressed sequence tag (EST) of the RACK gene fragment is available (GenBank: GH716153).

#### **Material Provided:**

Each vial contains approximately 1 mL of *E. coli*, strain DH5α, in Luria Bertani (LB) broth containing 100 μg/mL of ampicillin supplemented with 15% glycerol.

#### Packaging/Storage:

NR-41873 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. Freezethaw 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 Receptor Activated C-Kinase (RACK) Gene Fragment from *Biomphalaria glabrata*, Recombinant in *Escherichia coli*, NR-41873."

#### 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*." <u>Mol. Biochem. Parasitol.</u> 169 (2010): 27-39. PubMed: 19815034.

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