

Vector Containing the Cathepsin B Gene Fragment from *Schistosoma haematobium*, Recombinant in *Escherichia coli*

Catalog No. NR-49848

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Contributor and Manufacturer:

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Product Description:

NR-49848 is the cathepsin B (CathB) gene fragment from *Schistosoma haematobium* (*S. haematobium*), cloned into Gateway® Entry Vector pDONR™222, recombinant in *Escherichia coli*.^{1,2}

To create the insert, RNA was extracted from *S. haematobium*. First strand cDNA was synthesized using Biotin-attB-Oligo(dT) primer. To construct the library, first strand cDNA was processed into all steps of CloneMiner™ II cDNA Library Construction Kit (Life Technologies™). The amplified product was cloned into pDONR™222 (Invitrogen™ Life Technologies™) cloning vector, and was transformed into ElectroMAX™ DH10B™ T1 phage resistant cells. Random colonies were individually screened by *Bsr*G I digestion to check the presence and size of insert.^{1,2}

The expressed sequence tag (EST) of the CathB gene fragment is available (GenBank: JZ822469).

Material Provided:

Each vial contains approximately 500 µL of cultured transformant in 10% glycerol.

Packaging/Storage:

NR-49848 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: Vector Containing the Cathepsin B Gene Fragment from *Schistosoma haematobium*, Recombinant in *Escherichia coli*, NR-49848."

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/bmb15/index.htm.

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References:

1. Hsieh, M. H., Personal Communication.
2. 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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