

Vector Containing the Cathepsin B Gene Fragment from *Schistosoma haematobium*

Catalog No. NR-49841

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Contributor and Manufacturer:

Michael H. Hsieh, M.D., Ph.D., Stirewalt Endowed Director, Biomedical Research Institute, Rockville, Maryland, USA (NIH-NIAID Contract HHSN2722010000051)

Product Description:

NR-49841 is the cathepsin B (CathB) gene fragment from *Schistosoma haematobium* (*S. haematobium*), cloned into Gateway® Entry Vector pDONR™222.^{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*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 10 µg of vector DNA in DNase/RNase-free distilled water.

Packaging/Storage:

NR-49841 was packaged aseptically in screw-capped cryovials. The product is provided frozen and should be stored at -20°C or colder 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*, NR-49841."

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. 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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