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

**Catalog No. NR-49841**
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**For research use only. Not for human use.**

**Contributor and Manufacturer:**
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**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-afB-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.

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**References:**

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