Vector pLNHXΔD70 for Expression in *Schistosoma,* Recombinant in *Escherichia coli*

Catalog No. NR-36059

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For research use only. Not for human use.

Contributor:

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Manufacturer:

Biomedical Research Institute, Rockville, MD (NIH-NIAID Contract HHSN272201000005I)

Lot Number: 03232012

Manufacturing Date: FEB2012

Product Description:

Vector pLNHXΔD70 was derived from the Clontech Laboratories vector pLNHX, a vector designed for retroviral gene delivery and expression. Once pLNHX is transfected into a packaging cell line, it can express a transcript containing the viral packaging signal, the neomycin selection marker and a target gene. To produce pLNHXΔD70, pLNHX was digested with *Xho*I to remove the *Drosophila* heat shock protein 70 promoter (5,301 bp).[1] pLNHXΔD70 was further modified by insertion of a portion of the cHS4 insulator into the U3 region of the 3'-LTR region to produce pLNHX-cHS4-650 (available from BEI Resources as NR-36060). Both vectors can be used for transduction of *Schistosoma*.[1]

Vector: pLNHXΔD70 (pLNHX sequence is available from Clontech)
Selection: Ampicillin (Prokaryotic) and Neomycin (Eukaryotic)

Material Provided:

Each vial contains approximately 1 mL of *Escherichia coli* DH5α, transformed with vector pLNHXΔD70, in SOC media (Super Optimal broth with Catabolite repression) supplemented with 15% glycerol.

Packaging/Storage:

NR-36059 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Vector pLNHXΔD70 for Expression in *Schistosoma*, Recombinant in *Escherichia coli,* NR-36059."

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. Suttiprapa, S., Rinaldi, G. and Brindley, P. "Prototypic Chromatin Insulator cHS4 Protects Retroviral Transgene from Silencing in *Schistosoma mansoni."* Transgenic Res. 21 (2012): 555-566. PubMed: 21918820.
2. Rinaldi, G., et al. "An Antibiotic Selection Marker for Schistosome Transgenesis." Int. J. Parasitol. 42 (2012): 123-130. PubMed: 22155152.

3. Mann, V., et al. "Establishing Transgenic Schistosomes." PLoS Negl. Trop. Dis. 5 (2011): e1230. PubMed: 21912709.
4. Mann, V., et al. "Culture for Genetic Manipulation of Developmental Stages of *Schistosoma mansoni*." Parasitology 137 (2010): 451-462. PubMed: 19765348.

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