

Vector pEi-ck-myc-Luc for Gene Expression in *Entamoeba invadens*

Catalog No. NR-42013

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

pEi-ck-myc-Luc is an expression vector for use in *Entamoeba invadens* (*E. invadens*).¹ The pBluescript SK- vector was modified to contain the luciferase gene from *Photinus pyralis* flanked by promoter sequences from the CKII gene to drive gene expression. A Myc tag and *NheI* and *AvrII* sites have been introduced for inserting the gene of interest. The vector also contains the gene for neomycin resistance flanked by 5' and 3' regions of *enlase* for selection. The resulting plasmid, NR-42013, may be used as a vector for both transient and stable transfection of *E. invadens*.¹ The plasmid was produced in One Shot[®] TOP10 chemically competent *Escherichia coli* (Invitrogen[™]) and extracted using a QIAGEN[®] EndoFree[®] Plasmid Maxi Kit.

Material Provided:

Each vial contains 0.7 µg to 1.5 µg of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-42013 was packaged aseptically in screw-capped cryovials. The product is provided frozen on dry ice and should be stored at -20°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 pEi-ck-myc-Luc for Gene Expression in *Entamoeba invadens*, NR-42013."

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. Ehrenkauf, G. M. and U. Singh. "Transient and Stable Transfection in the Protozoan Parasite *Entamoeba invadens*." Mol. Biochem. Parasitol. 184 (2012): 59-62. PubMed: 22561071.

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