Vector pTREX-3flag-ddFKBP-EYFP for Regulated Gene Expression in *Trypanosoma cruzi*

Catalog No. NR-36603

For research use only. Not for human use.

Contributor:
Huan Huang, M.D., Associate Professor of Pathology, Department of Pathology, Albert Einstein College of Medicine, Bronx, New York, USA

Manufacturer:
BEI Resources

Product Description:
Vector pTREX-3flag-ddFKBP-EYFP is a modified pTREX vector which uses an N-terminal fusion of a ligand controlled destabilization domain (ddFKBP) to Enhanced Yellow Fluorescent Protein (EYFP) to regulate gene expression in *Trypanosoma cruzi* (*T. cruzi*).[2] The resulting plasmid, NR-36603, may be used as a vector for rapid and reversible protein expression and efficient functional analysis of proteins in different life cycle stages of *T. cruzi*.[2] The plasmid was produced in One Shot® TOP10 chemically competent *Escherichia coli* (Invitrogen™) and extracted using a QIAGEN® EndoFree® Plasmid Maxi Kit.

The protozoan parasite *T. cruzi* is the causative agent of Chagas' disease, a debilitating disease endemic in many Latin American countries.

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 8.0). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:
NR-36603 was packaged aseptically in screw-capped plastic 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 pTREX-3flag-ddFKBP-EYFP for Regulated Gene Expression in *Trypanosoma cruzi*, NR-36603."

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.

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

References:
1. Vazquez, M. P. and M. J. Levin. "Functional Analysis of the Intergenic Regions of TcP2beta Gene Loci Allowed the Construction of an Improved *Trypanosoma cruzi* Expression Vector." Gene 239 (1999): 217-225. PubMed: 10548722.
2. Ma, Y. F., et al. "A Method for Rapid Regulation of Protein Expression in *Trypanosoma cruzi*." Int. J. Parasitol. 42 (2012): 33-37. PubMed: 22138018.

ATCC® is a trademark of the American Type Culture Collection.

Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898