

Plasmid pL0028, for Transfection in *Plasmodium berghei*

Catalog No. MRA-797

For research use only. Not for human use.

Contributor:

Professor Andrew P. Waters, Ph.D., Malaria Research Group, Department of Parasitology, Centre for Infectious Diseases, Leiden University Medical Centre, Leiden, The Netherlands

Manufacturer:

BEI Resources

Product Description:

MRA-797 is a *Plasmodium berghei* (*P. berghei*) transformation plasmid, pAmalGFPM3LucIΔVssu, used for insertion (single crossover) with the *Toxoplasma gondii* dihydrofolate reductase-thymidylate synthase (*tgdhfr/ts*) selectable marker.^{1,2} Plasmid pL0028 contains a *pbamal*-promoter-driven *gfp mutant3-lucIΔV* expression cassette. The targeted integration locus is *c-* and *d-ssu-rrna*.^{1,2}

The resulting size of the plasmid is approximately 13600 base pairs. A plasmid map is provided in Figure 1.¹ The complete plasmid sequence is provided on the Certificate of Analysis for MRA-797.

Material Provided:

Each vial contains approximately 0.2 µg of plasmid DNA in 10 mM Tris-HCl, pH 8.5. The amount per vial and concentration are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

MRA-797 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.

Note: MRA-797 was not provided in ethylenediamine-tetraacetic acid (EDTA); for long-term storage, EDTA may be added to a final concentration of 1 mM.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Plasmid pL0028, for Transfection in *Plasmodium berghei*, MRA-797, contributed by Andrew P. Waters.”

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.

References:

1. Waters, A. P., Personal Communication.
2. Franke-Fayard, B., et al. “Murine Malaria Parasite Sequestration: CD36 Is the Major Receptor, but Cerebral Pathology Is Unlinked to Sequestration.” [Proc. Natl. Acad. Sci. USA](#) 102 (2005): 11468-11473. PubMed: 16051702.

ATCC® is a trademark of the American Type Culture Collection



Figure 1: Plasmid Map of pL0028

