

Product Information Sheet for MRA-847

Plasmid pINT, for Transfection in *Plasmodium falciparum*

Catalog No. MRA-847

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

MRA-847 is a *Plasmodium falciparum* (*P. falciparum*) plasmid that expresses integrase (INT) from mycobacteriophage Bxb1 to catalyze rapid, site-specific integration of cotransfected *attP* plasmids (e.g. pLN-ENR-GFP, available as BEI Resources [MRA-846](#)) into *attB*⁺ parasites ([MRA-843](#) and [MRA-845](#)).^{1,2} The resulting size of the plasmid is approximately 8,000 base pairs. The complete plasmid sequence and map are provided on the BEI Resources webpage. MRA-847 was produced in *Escherichia coli* (*E. coli*) and extracted.

Material Provided:

Each vial of MRA-847 contains approximately 0.5 µg of plasmid DNA in TE buffer (10 mM Tris-HCl and 0.5 mM EDTA). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

MRA-847 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: Plasmid pINT, for Transfection in *Plasmodium falciparum*, MRA-847, contributed by David A. Fidock."

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. Fidock, D. A., Personal Communication.
2. Nkrumah, L. J., et al. "Efficient Site-Specific Integration in *Plasmodium falciparum* Chromosomes Mediated by Mycobacteriophage Bxb1 Integrase." *Nat. Methods* 3 (2006): 615-621. PubMed: 16862136.

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