

Genomic DNA from *Plasmodium falciparum*, Strain B1SD

Catalog No. MRA-160G

This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor:

Thomas E. Wellems, M.D., Ph.D., Chief, Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland, USA

Manufacturer:

BEI Resources

Product Description:

Genomic DNA was extracted from a preparation of *Plasmodium falciparum* (*P. falciparum*), strain B1SD. Strain B1SD is a genetic cross progeny of *P. falciparum* strains HB3 and Dd2.^{1,2}

MRA-160G has been qualified for PCR applications by amplification of 600 to 900 base pairs of the merozoite surface protein 2 (MSP2) gene.

Material Provided:

Each vial of MRA-160G contains approximately 0.5 µg of genomic DNA at a concentration of 10 µg per mL in TE buffer (10 mM Tris-HCl and 0.5 mM EDTA, pH 9). The vial should be centrifuged prior to opening.

Packaging/Storage:

MRA-160G was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen 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: Genomic DNA from *Plasmodium falciparum*, Strain B1SD, MRA-160G, contributed by Thomas E. Wellems."

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. Su, X., et al. "Complex Polymorphisms in an Approximately 330 kDa Protein are Linked to Chloroquine-Resistant *P. falciparum* in Southeast Asia and Africa." *Cell* 91 (1997): 593-603. PubMed: 9393853.
2. Wellems, T. E., Personal Communication.
3. Wellems, T. E., A. Walker-Jonah and L. J. Panton. "Genetic Mapping of the Chloroquine-Resistance Locus on *Plasmodium falciparum* Chromosome 7." *Proc. Natl. Acad. Sci. USA* 88 (1991): 3382-3386. PubMed: 1673031.
4. Su, X., et al. "A Genetic Map and Recombination Parameters of the Human Malaria Parasite *Plasmodium falciparum*." *Science* 286 (1999): 1351-1353. PubMed: 10558988.

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

