

Genomic DNA from *Plasmodium falciparum*, Strain B4R3

Catalog No. MRA-163G

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Genomic DNA was extracted from a preparation of *Plasmodium falciparum* (*P. falciparum*), strain B4R3. Strain B4R3 is a genetic cross progeny of *P. falciparum* strains HB3 and Dd2.^{1,2}

MRA-163G 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-163G 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-163G 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 B4R3, MRA-163G, 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.

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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.

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