

**Genomic DNA from *Plasmodium falciparum*, Strain 3D7 (GL Clone)**

**Catalog No. MRA-1001G**

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

**For research use only. Not for use in humans.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Genomic DNA was extracted from a preparation of *Plasmodium falciparum* (*P. falciparum*), strain 3D7 (GL Clone).

The GL clone of 3D7 stock parasites was amplified in a volunteer patient "L", who participated in a clinical trial in August 1995 at WRAIR.<sup>1</sup> *P. falciparum*, strain 3D7 (available as BEI Resources MRA-102) was cloned from the NF54 strain (available as BEI Resources MRA-1000) by limiting dilution.<sup>2</sup> The parent NF54 isolate was derived from a patient living near an airport in the Netherlands, who had never left the country.<sup>3</sup> The complete genome of *P. falciparum*, strain 3D7 has been sequenced (BioProject: [PRJNA13173](https://www.ncbi.nlm.nih.gov/bioproject/PRJNA13173)).<sup>4</sup>

MRA-1001G has been qualified for PCR applications by amplification of approximately 900 base pairs of the merozoite surface protein 2 (MSP2) gene.

**Material Provided:**

Each vial of MRA-1001G contains approximately 0.5 µg of genomic DNA in buffer. The amount per vial, concentration and buffer composition are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

MRA-1001G was packaged aseptically in 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 3D7 (GL Clone), MRA-1001G, contributed by Megan G. Dowler."

**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). Current Edition. Washington, DC: U.S. Government Printing Office.

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**References:**

1. Dowler, M. G., Personal Communication.
2. Walliker, D., et al. "Genetic Analysis of the Human Malaria Parasite *Plasmodium falciparum*." *Science* 236 (1987): 1661-1666. PubMed: 3299700.
3. Ponnudurai, T., A. D. Leeuwenberg and J. H. Meuwissen. "Chloroquine Sensitivity of Isolates of *Plasmodium falciparum* Adapted to *In Vitro* Culture." *Trop. Geogr. Med.* 33 (1981): 50-54. PubMed: 7018038.
4. Gardner, M. J., et al. "Genome Sequence of the Human Malaria Parasite *Plasmodium falciparum*." *Nature* 419 (2002): 498-511. PubMed: 12368864.

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