

Product Information Sheet for MRA-860G

Genomic DNA from *Anopheles coluzzii*, Strain Mali-NIH

Catalog No. MRA-860G

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA

Product Description:

Genomic DNA was obtained from a preparation of *Anopheles coluzzii* (*A. coluzzii*), strain Mali-NIH. (MRA-860G was deposited as *Anopheles gambiae*. But, the mosquito species complex *Anopheles gambiae* M form strains are now referred to as *Anopheles coluzzii*. The species designation on the vial label refers to the old nomenclature.)¹

The *A. coluzzii*, strain Mali-NIH colony was established from blood-fed adult females collected resting inside houses in Niono, Mali in June 2005. Approximately 80 isofemale families molecularly identified as *A. coluzzii* M form were used to establish the colony, which was subsequently karyotyped as 2Rbc/bc; 2La/a.^{2,3} The most recent authentication was performed on the 14th generation of the Mali-NIH strain.⁴ The *A. coluzzii*, strain Mali-NIH colony is the source of DNA for the *A. coluzzii* M form genome sequencing project (GenBank: [ABKP00000000](#))² supported by the [National Human Genome Research Institute](#) (NHGRI).

Applications for MRA-860G include PCR, Southern hybridizations, gene cloning, and library construction.

Material Provided:

Each vial of MRA-860G contains approximately 1 µg of genomic DNA in buffer (10 mM Tris-HCl and 1 mM EDTA, pH 7.5). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

MRA-860G was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -80°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 *Anopheles coluzzii*, Strain MALI-NIH, MRA-860G, contributed by Nora J. Besansky."

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:

- Coetzee, M., et al. "*Anopheles coluzzii* and *Anopheles amharicus*, New Members of the *Anopheles gambiae* complex." *Zootaxa* 3619 (2013): 246-274. PubMed: 26131476.
- Grushko, O., Personal Communication.
- Lawniczak, M. K., et al. "Widespread Divergence between Incipient *Anopheles gambiae* Species Revealed by Whole Genome Sequences." *Science* 330 (2010): 512-514. PubMed: 20966253.
- Wilkins, E. E., et al. "Authentication Scheme for Routine Verification of Genetically Similar Laboratory Colonies: a Trial with *Anopheles gambiae*." *BMC Biotechnol.* 9 (2009): 91. PubMed: 19849838.

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