



# Product Information Sheet for MRA-1167

## MOSQUITO

**MRA No.:** MRA-1167

**Strain name:** F

**For research use only. Not for human use.**

**Donor:**

Dr. Gareth Lycett, Liverpool School of Tropical Medicine

**Manufacturer:**

Centers for Disease Control and Prevention

**Product description:**

**Classification:** *Culicidae*, *Anopheles*

**Species:** *Anopheles gambiae*

**Common name:** African malaria mosquito

**Original source:** derived from G3 colony

**Pathogens for which vector is transmission competent:**

*Plasmodium* spp.

**Genotype:**

pBac [dsRed 3xP3]; Gal4-F

**Phenotype:**

Transgenic GAL4 driver line with a GFY-GAL4 transactivator under carboxypeptidase promoter (midgut expression) using *piggyBac* with a DsRed eye marker. When crossed with a UAS-Mbl or UAS-Wnd responder line, heterozygous progeny midguts will express YFP and luciferase.

**Material provided:**

Approved registrants will receive approximately 1000 eggs shipped on moist filter paper.

**Packaging/Storage:**

This material is prepared and shipped from CDC, Atlanta, GA USA.

**Growth Conditions:**

Insects are reared according to Benedict 1997.

**Citation:**

Acknowledgement for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Anopheles gambiae* F, MRA-1167".

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: [Biosafety in Microbiological and Biomedical Laboratories](#), 5th ed. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. Washington DC: U.S. Government Printing Office; 2009. The text is available online at [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

**Disclaimers**

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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](http://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 information 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:**

Lynd A, Lycett GJ. Development of the bi-partite Gal4-UAS system in the African malaria mosquito, *Anopheles gambiae*. *PLoS One*. 7: e31552, 2012. PubMed: 22348104

Lynd A, Lycett GJ. Optimization of the Gal4-UAS system in an *Anopheles gambiae* cell line. *Insect Mol. Biol.* 20: 599-608, 2011. PubMed: 21699594

Benedict, MQ. (1997). Care and maintenance of anopheline mosquito colonies. *In* The Molecular Biology of Insect Disease Vectors. Crampton JM, Beard CB, Louis C, editors. Chapman & Hall, New York. 2-12.

BEI Resources is funded by the National Institute of Allergy and Infectious Diseases (NIAID).

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