



Product Information Sheet for MRA-1164

MOSQUITO

MRA No.: MRA-1164

Strain name: Mbl

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 [CFP 3xP3]; UAS-Mbl

Phenotype:

Transgenic UAS responder line with eYFPnls and luciferase gene markers using *piggyBac* with a CFP 3xP3 cyan eye marker. When crossed with a GAL4 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* Mbl, MRA-1164".

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.

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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.

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