# Product Information Sheet for MRA-861B

## *Anopheles gambiae*, Strain Pimperena, Bulk Frozen

## Catalog No. MRA-861B

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

### Contributor:
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### Manufacturer:
Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA

### Product Description:
Classification: Culicidae, *Anopheles*
Species: *Anopheles gambiae* (African malaria mosquito)
Strain: Pimperena
Original Source: The *Anopheles gambiae (An. gambiae)*, strain Pimperena colony was originally collected in 2005 by M. Coulibaly in Pimperena, Mali; single ovipositions were set up in the insectary at the University of Notre Dame.[1,2]
Comments: *An. gambiae*, strain Pimperena was deposited as the S molecular form of *An. gambiae*.[1,2] Approximately five isofemale families molecularly identified as *An. gambiae* S form were used to establish the stock, which was subsequently karyotyped as homokaryotypic 2Rb/b and heterokaryotypic 2La/+. The *An. gambiae*, strain Pimperena colony is the source of DNA for the *An. gambiae* S form genome sequencing project (GenBank: LCWJ00000000) supported by the National Human Genome Research Institute (NHGRI).[1,2]
Applications: MRA-861B is suitable for DNA and RNA isolation, protein extraction, etc.

### Material Provided:
Each tube of MRA-861B contains at least 100 adult male and female wild-type *An. gambiae*, strain Pimperena mosquitoes preserved in liquid nitrogen (quick-frozen).[3]

### Packaging/Storage:
MRA-861B is prepared and shipped by CDC. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival.

### Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Anopheles gambiae*, Strain Pimperena, Bulk Frozen, MRA-861B, 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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

### Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

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### References:
1. Lawniczak, M. K., et al. "Widespread Divergence Between Incipient *Anopheles gambiae* Species Revealed by Whole Genome Sequences." Science 330 (2010): 512-514. PubMed: 20966253.
2. Besansky, N. J., Personal Communication.
3. For details on authentication methods used to confirm the identity of this Pimperena stock, please refer to: https://www.beiresources.org/portals/2/MR4/pdfs/anopheles/pimperena stock auth sheet.pdf.
4. Yaro, A. S., et al. "Reproductive Output of Female *Anopheles gambiae* (Diptera: Culicidae): Comparison of Molecular Forms." J. Med. Entomol. 43 (2006): 833-839. PubMed: 17017216.
5. Yaro, A. S., et al. "The Distribution of Hatching Time in *Anopheles gambiae*." Malar. J. 22 (2006): 1-7. PubMed: 16553960.

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6. Neafsey, D. E., et al. "Mosquito Genomics. Highly Evolvable Malaria Vectors: The Genomes of 16 *Anopheles* Mosquitoes." Science 347 (2015): 1258522. PubMed: 25554792.



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