Anopheles gambiae Patton (Cellia)

Strain Name: PIMPERENA, MRA-861

Place of Origin: Pimperena, Mali

Colonization date: 2005

Established by: Dr. Nora Besansky

Deposited by: Dr. Nora Besansky

Genotype: 2La/+, TEP1 r/s

Phenotype: monomorphic for c+ (*collarless*)

Karyotype: defined, 2Rbc/Rbc, 2La/+

Ribosomal DNA form: Savanna

Insecticide Resistance: none

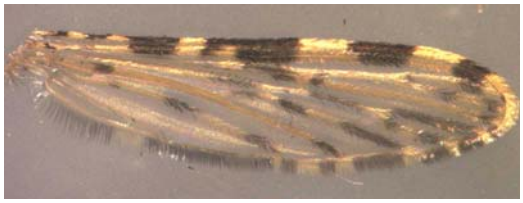
Larval Morphological Traits

Collarless (c+) is caused by a uric acid build-up in the larvae. Expression is often variable but best seen in L4 larvae. PIMPERENA is monomorphic for c+.

Red stripe-if present, individuals expressing red stripe are female. Not present in PIMPERENA.

When reared in a dark pan, larvae with wild-type eye color will melanize when compared to a cohort reared in a white pan.

Adult Morphological Traits



Morphological characteristics of *An. gambiae s.l.* adults.

Authentication Methods used to confirm stock identity

1. Examined immatures for the *collarless* (c+) trait: L4 larvae are monomorphic for c+.
2. Examined the color of the larvae when cultured in a black pan: larvae are distinctly melanized when compared to a cohort reared in a white pan.
3. Performed molecular *An. gambiae* identification authentication; all tested individuals are positive for both *An. gambiae* and Savanna rDNA form.
4. Performed molecular *An. gambiae* white gene identification PCR: all have Pimperena specific band.
5. Examined adults microscopically for morphological characters: all individuals had standard features of *An. gambiae* and wild eye color.

References referring to this stock:

Yaro AS et al. (2006) Reproductive output of female *Anopheles gambiae* (Diptera: Culicidae): comparison of molecular forms. J Med Entomol 43:833-839