Aedes aegypti, Strain exu-Cas9 (AAEL010097), Eggs

Catalog No. NR-51478

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:
Classification: *Culicidae, Aedes*
Species: *Aedes aegypti*
Strain: exu-Cas9 (AAEL010097)
Original Source: *Aedes aegypti* (*Ae. aegypti*), strain exu-Cas9 (AAEL010097) was derived from wild-type strain Liverpool.[1,2]
Genotype: *Ae. aegypti*, strain exu-Cas9 (AAEL010097) is a transgenic strain endogenously expressing Cas9 under control of the *Exuperentia* (*exu*) (AAEL010097) promoter.[1,2]
Comments: *Ae. aegypti,* strain exu-Cas9 (AAEL010097) was generated by the introduction of a piggybac transposon containing the *exu* (AAEL010097) promoter upstream of the coding sequence for Cas9.[2] Downstream of Cas9, T2A peptide and eGFP genes under the control of the *exu* promoter provide visual confirmation of promoter expression. dsRed expression driven by the baculovirus-derived Opie2 promoter serves as a transgenesis marker.[2]

Material Provided:
NR-51478 contains a suitable number of live eggs to establish a stock. Eggs are provided on damp filter paper and should be hatched immediately upon receipt.

Packaging/Storage:
NR-51478 is prepared and shipped by the CDC. The product is provided at room temperature.

Growth Conditions:
Standard *Ae. aegypti* rearing procedures are recommended.

Citation:
Acknowledgment for publications should read "The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: *Aedes aegypti,* Strain exu-Cas9 (AAEL010097), Eggs, NR-51478."

Biosafety Level: 2
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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:
1. Akbari, O., Personal Communication.
2. Li, M., et al. "Germline Cas9 Expression Yields Highly Efficient Genome Engineering in a Major Worldwide Disease Vector, *Aedes aegypti*." Proc. Natl. Acad. Sci. USA 114 (2017): E10540-E10549. PubMed: 29138316.

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