

**Genomic DNA from *Glossina morsitans* subsp. *morsitans***

**Catalog No. NR-44340**

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

**Contributor and Manufacturer:**

Serap Aksoy, Ph.D., Professor, Epidemiology and Public Health, Yale University, New Haven, Connecticut, USA

**Product Description:**

Genomic DNA was obtained from a preparation of *Glossina morsitans* (*G. morsitans*; tsetse fly) subsp. *morsitans* using a TRIzol® (Life Technologies™) extraction protocol.

The original *G. morsitans* subsp. *morsitans* colony was established from Tanga, Tanzania in June, 1973.<sup>1</sup> The colony was transferred to Yale University via the Bristol Laboratory, United Kingdom and Peter Takac, Slovakia.<sup>1</sup> The whole genome shotgun sequence of a representative *G. morsitans* colony is available (GenBank: [JXPS000000000](http://www.ncbi.nlm.nih.gov/GenBank/JXPS000000000)).

**Protocol:**

The control PCR amplification parameters for *Glossina* spp. internal transcribed spacer 2 (ITS-2) are 1 min. at 94°C, 55°C, and 72°C, for 35 cycles in a buffer containing 2.5 mM MgCl<sub>2</sub>, 0.25 mM dNTPs, and 500 nM concentration of each primer with Taq polymerase in a DNA thermal cycler. DNA corresponding to the ITS-2 region was amplified using the oligonucleotide primer set ITS-2F/ITS-2R corresponding to the *Anopheles gambiae* mosquito 5.8S and 28S rDNA conserved sequences (GenBank: X67157)<sup>2</sup>:

ITS-2F: 5'-TGTGAACTGCAGGACACATGAAC-3'  
ITS-2R: 5'-AATGCTTAAATTTAGGGGGTAGTC-3'.

**Material Provided:**

Each vial of NR-44340 contains approximately 2.5 µg of genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-44340 was packaged in cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Glossina morsitans* subsp. *morsitans*, NR-44340."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Aksoy, S., Personal Communication.
2. Chen, X., S. Li and S. Aksoy. "Concordant Evolution of a Symbiont with Its Host Insect Species: Molecular Phylogeny of Genus *Glossina* and Its Bacteriome-Associated Endosymbiont, *Wigglesworthia glossinidia*." [J. Mol. Evol.](#) 48 (1999): 49-58. PubMed: 9873076.

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