

Materials List for

Whole-Mount Fluorescence *In Situ* Hybridization to Study Spermatogenesis in the *Anopheles* Mosquito

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Citation

Vitale, M., Liang, J., Sharakhov, I., Bernardini, F. Whole-Mount Fluorescence *In Situ* Hybridization to Study Spermatogenesis in the *Anopheles* Mosquito. *J. Vis. Exp.* (195), e65356, doi:10.3791/65356 (2023).

Date Published

May 26, 2023

DOI

10.3791/65356

URL

jove.com/video/65356

Materials

Name	Company	Catalog Number	Comments
Amersham CyDye Fluorescent Nucleotides, Cy3-dUTP	Cytiva	PA53022	
Amersham CyDye Fluorescent Nucleotides, Cy5-dUTP	Cytiva	PA55022	
ART Wide Bore Filtered Pipette Tips	ThermoFisher Scientific	2079GPK	
CytoBond Removable Coverslip Sealant	SciGene	2020-00-1	
Dextran sulfate sodium salt from <i>Leuconostoc</i> spp.	Sigma-Aldrich	D8906-5G	
DNeasy Blood & Tissue Kits	Qiagen	69504	
Embryo Dishes	VWR	70543-30	
Ethanol, molecular grade	Sigma-Aldrich	51976	
Formamide	ThermoFisher Scientific	17899	
GoTaq G2 DNA Polymerase	Promega	M7841	
Hydrochloric acid, 37%	Sigma-Aldrich	320331	
Microscope slides, SuperFrost	VWR	631-0114	
PBS (10x), pH 7.4	ThermoFisher Scientific	70011044	
Pierce 16% Formaldehyde (w/v), Methanol-free	ThermoFisher Scientific	28906	
ProLong Gold Antifade Mountant with DAPI	ThermoFisher Scientific	P36941	
RNase A/T1 Mix	ThermoFisher Scientific	EN0551	
Set of dATP, dCTP, dGTP, dTTP	Promega	U1330	
Sodium Acetate Solution	ThermoFisher Scientific	R1181	
SP8 inverted confocal microscope	Leica		
Triton X-100	Sigma-Aldrich	9036-19-5	
TWEEN 20	Sigma-Aldrich	P1379	
UltraPure Salmon Sperm DNA Solution	ThermoFisher Scientific	15632011	

UltraPure SSC 20x	ThermoFisher Scientific	15557044	
Primer sequences			
5'- CAATAAATTCCTTTTTAATGATGC AAAATCTACGTCTCTAGC-3'- [Fluorochrome]	Eurofins Genomics	Contig_240 (X)	
5'AGAAGAATAGAAATCAGAATAGT CGG TTTCTTCATCCTGAAAGCC-3'- [Fluorochrome]	Eurofins Genomics	AgY53B (Y)	
5'- TTCTAAGTTTCTAGGCTTTAAGGA T GAAGAAACCGACTATTC-3'- [Fluorochrome]	Eurofins Genomics	AgY477- AgY53B junction region (Y)	
F: AACTGTGGAAAAGCCAGAGC R: TCCACTTGATCCTTGCAAAA	Eurofins Genomics	18S rDNA (X)	
F: CCTTTAAACACATGCTCAAATT R: GTTTCTTCATCCTTAAAGCCTAG	Eurofins Genomics	AgY53B (Y)	