

Materials List for:

Preparing Developing Peripheral Olfactory Tissue for Molecular and Immunohistochemical Analysis in *Drosophila*

Scott Barish¹, Pelin C. Volkan¹

¹Department of Biology, Duke University

Correspondence to: Pelin C. Volkan at pc72@duke.edu

URL: <https://www.jove.com/video/57716>

DOI: [doi:10.3791/57716](https://doi.org/10.3791/57716)

Materials

Name	Company	Catalog Number	Comments
10X Phosphate-buffered Saline	Gibco	70011-044	Dilute to 1X in RNase free water
CO ₂ tank	Air Gas	CD R200	
Two sharp forceps (Dumont #55)	Fine Science Tools	11255-20	
Trizol	Invitrogen	15596-026	RNA isolation solutions
Dissecting Microscope			
Small bucket with ice			
P20 and P200 micropipettes and tips			
1.7 mL Microfuge tubes			Purchase nuclease free for best results
0.2 mL PCR tubes			
Paraformaldehyde powder	Polysciences	380	
10% Triton X-100	Teknova	T1105	Dilute to 0.2% v/v in 1X PBS
2" petri dishes			
55mm filter paper	Whatman	1001-055	Wet with water and place in a petri dish to keep pupae moist
25 C incubator			
deionized H ₂ O			Purchase nuclease free or treat with DEPC
Sylgard 184 Silicone Elastomer Kit	Dow Corning		to be used for making dissection pads from Terizaki plate covers.
MicroWell Mini Trays with lids	Nunc	438733	Lids can be used to make silicone dissection pads
Rabbit anti-GFP antibody	MBL international corpor	PM005	primary antibody
Mouse anti RAT CD2	AbD seroTec	MCA154RHDL	primary antibody
ADL195 (anti lamin, mouse)	Dev studies hydroma ban	ADL195-s	primary antibody
Alexa Fluor® 488 goat anti-rabbit IgG (H+L)	invitrogen	A11008	Secondary antibody
Cy3 Goat Anti-Mouse IgG	Jackson ImmunoResearch	115-166-003	Secondary antibody
Triton X-100, Protein Grade Detergent, 10% Solution, Sterile-Filtered	CALBIOCHEM	648463	detergent
Lab Rotator	Thermo scientific		Rotator
Nuclease Free Water	Growcells.com	NUPW-0125	Water
Light-Duty Tissue Wipers	VWR	82003-822	For cleaning dissection supplies
Superscript II	invitrogen	18064014	Reverse Transcriptase
QIAshredder (50)	RNA extraction	QIAGEN	79654

Oligo(dT)12-18 Primer	RT	life technologies	18418012
RNeasy MinElute Cleanup Kit (50)	RNA extraction	QIAGEN	74204
FASTSTART UNIV SG MASTER (5 ML)(500 RXN)	qPCR	Roche	04913850001
FASTSTART ESSENTIAL GREEN DNA MASTER	qPCR	Roche	06402712001
LIGHTCYCLER 480 - MULTIWELL PLATE 96	qPCR	Roche	04729692001
NEBNext High-Fidelity 2X PCR Master Mix	qPCR	NEB	M0541S