

Materials List for:

Affinity-based Isolation of Tagged Nuclei from *Drosophila* Tissues for Gene Expression Analysis

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URL: <https://www.jove.com/video/51418>

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Materials

Name	Company	Catalog Number	Comments
Anti-chaoptin antibody (mouse, monoclonal)	Developmental Studies Hybridoma Bank	mAB24B10	
Anti-GFP antibody (mouse, monoclonal)	Roche	11814460001	This specific antibody is recommended for this protocol. However, alternative antibodies could also be used.
2x Bullseye EvaGreen qPCR Mastermix with ROX	MidSci	BEQPCR-R	
DAPI (4',6-diamidino-2-phenylindole, dihydrochloride salt)	Biotium	40011	
Dounce Homogenizer (1 ml)	VWR	62400-595	
Dumont #5 Tweezers, 11 cm	World Precision Instruments	14095	
Dynabeads Protein G for Immunoprecipitation	Invitrogen	10003D	This specific brand of magnetic beads is recommended for this protocol.
EpiScript Reverse Transcriptase	Epicentre	ERT12910K	http://www.epibio.com/docs/default-source/protocols/episcript-reverse-transcriptase.pdf
Falcon cell strainers, 40 µm pore size	VWR	21008-949	Alternative pore sizes could be used, depending on the size of the target cell nuclei.
Magnetic stand (8 x 1.5 ml tubes)	Millipore	LSKMAGS08	
Mini tube rotator	Genemate	H-6700	
Qubit starter kit	Life Technologies	Q32871	Similar fluorescence-based methods for quantifying RNA yield could be used. http://tools.invitrogen.com/content/sfs/manuals/mp32852.pdf
RNAsecure (Ambion)	Life Technologies	AM7010	The use of this reagent to inactivate RNAses is optional.
RT-PCR machine Thermal Cycler	BioRad	CFX Connect Thermal Cycler	
Siliconized 9-well glass plate	Hampton Research	HR3-134	
Stereomicroscope Fluorescence Adapter (Royal Blue (440-460 nm) excitation + yellow barrier)	Nightsea		This adaptor enables GFP fluorescence to be examined using a typical dissecting microscope (eg Nikon)
StereoZoom Microscope 83604 Set with 10X Wide Field Eyepieces and Universal Boom Stand	Nikon	SMZ 745	
Thermal Cycler	BioRad	T100	
Trizol reagent	Life Technologies	15596018	CAUTION; Alternative RNA extraction methods can be used.

			http://tools.invitrogen.com/content/sfs/manuals/trizol_reagent.pdf
Tween 20	Amresco	0777-1L	