

Materials List for:

# In Vivo Forward Genetic Screen to Identify Novel Neuroprotective Genes in *Drosophila melanogaster*

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URL: <https://www.jove.com/video/59720>

DOI: [doi:10.3791/59720](https://doi.org/10.3791/59720)

## Materials

Name	Company	Catalog Number	Comments
<b>Major equipment</b>			
Fume hood for histology			
Light Microscope	Nikon	Eclipse E100	Preferred objective for imaging is 20x
Imaging software	Nikon		
Microscope Camera	Nikon		
Thermal cycler	Eppendorf		
<b>Fly pushing and climbing assay</b>			
VWR® Drosophila Vial, Narrow	VWR	75813-160	
VWR® General-Purpose Laboratory Labeling Tape	VWR	89097-912	
Standard mouse pad			
Stereoscope	Motic		Model SMZ-168
CO <sub>2</sub> anesthesia station (Blowgun, foot valve, Ultimate Flypad)	Genesee Scientific	54-104, 59-121, 59-172	Doesn't include CO <sub>2</sub> tank
Fine-Tip Brushes	SOLO HORTON BRUSHES, INC.		
<i>Drosophila</i> Incubator	VWR	89510-750	
<b>Gene mapping</b>			
CantonS	Bloomington Drosophila Stock Center	9517	
w <sup>1118</sup>	Bloomington Drosophila Stock Center	5905	
yw	Bloomington Drosophila Stock Center	6599	
<i>Drosophila</i> line used for recombination mapping	Bloomington Drosophila Stock Center	3227	Genotype: wg[Sp-1] J[1] L[2] Pin[1]/CyO, P{ry[+t7.2]=ftz/lacB}E3
CyO/sno[Sco]	Bloomington Drosophila Stock Center	2555	<i>Drosophila</i> balancer line used for recombination mapping
Deficiency Kit for chromosome 2L	Bloomington Drosophila Stock Center	DK2L	Cook et al., 2012
<b>Histology analysis</b>			
Ethanol, (100%)	Thermo Fischer Scientific	A4094	
Chloroform	Thermo Fischer Scientific	C298-500	
Glacial Acetic Acid	Thermo Fischer Scientific	A38-500	
Fisherbrand™ Premium Microcentrifuge Tubes: 1.5 mL	Thermo Fischer Scientific	05-408-129	

Histochoice clearing agent 1x	VWR Life Sciences	97060-934	
Harris Hematoxylin	VWR	95057-858	
Eosin	VWR	95057-848	
Thermo Scientific™ Richard-Allan Scientific™ Mounting Medium	Thermo Scientific™ 4112	22-110-610	CyO/sna[Sco]
Unifrost Poly-L-Lysine microscope slides, 75 mm x 25 mm x 1 mm, EverMark Select Plus	Azer Scientific		
Fisherbrand™ Cover Glasses: Rectangles	Fisherbrand	12-545M	Dimensions: 24 mm x 60 mm
Traceable timer	VWR		
Slide Warmer	Barnstead International		model no. 26025
Slide tray and racks	DWK Life Sciences		Rack to hold 20 slides
Fisherbrand™ General-Purpose Extra-Long Forceps	Fisherbrand	10-316A	
Kimwipes™	Kimberly-Clark™ Professional		
6 inch Puritan applicators	Hardwood Products Company, Guilford, Maine	807-12	
VWR® Razor Blades	VWR	55411-050	
Tupperware or glass containers for histology liquids			16 + 1 for running water
High Profile Coated Microtome Blades	VWR	95057-834	
Corning™ Round Ice Bucket with Lid, 4 L	Corning™		
Beaker			Or other container for ice water and cassettes
Tissue Bath	Precision Scientific Company	66630	
Microtome	Leica Biosystems		
<b>Molecular analysis</b>			
Wizard® SV Gel and PCR Clean-Up System	Promega	A9282	
Ex Taq DNA polymerase	TaKaRa		5 U/μl
Invitrogen™ SYBR™ Safe™ DNA Gel Stain	Invitrogen™		
UltraPure™ Agarose	Invitrogen™		
1 Kb Plus DNA Ladder	Invitrogen™		
ApE-A plasmid Editor software			Available for free download
<b>Statistical analysis</b>			
R software package			
<b>Further analysis</b>			
y[1] w[*]; wg[Sp-1]/CyO; Dr[1]/TM3, Sb[1]	Bloomington Drosophila Stock Center	59967	