

Materials List for:

Assessment of Zebrafish Lens Nucleus Localization and Sutural Integrity

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Materials

Name	Company	Catalog Number	Comments
1-phenyl-2-thiourea (PTU)	Sigma	P7629	CAUTION – very toxic
4% Paraformaldehyde aqueous solution	Electron Microscopy Sciences	RT 157-4	CAUTION – health hazard, combustible
Confocal microscope	Nikon	Eclipse Ti-E	
Cryostat	Leica	CM3050S	Objective and chamber temperature set to -21 °C
DAPI	Invitrogen	D1306	CAUTION – irritating to eyes and skin
Dimethyl Sulfoxide (DMSO)	Fisher Scientific	D128	CAUTION – combustible, penetrates skin
Disposable base mold	VWR Scientific	15154-631	
Disposable Pasteur glass pipets	Fisherbrand	13-678-20A	
Dumont #5 forceps	Dumont & Fils		Keep forceps sharpened
Ethyl 3-aminobenzoate methanesulfonate salt (Tricaine)	Sigma-Aldrich	A5040	CAUTION - toxic
Glass bottom microwell dish (35mm Petri dish, 14 mm microwell, #1.5 coverglass)	MatTek Corporation	P35G-1.5-14-C	
Glycerol	Sigma	G2025	
huβB1cry:mAppleCAAX DNA construct	Addgene	ID:122451	
ImageJ	Wayne Rasband, NIH	v1.51n	
Low Melt Agarose (LMA)	Apex	902-36-6	
NIS-Elements	Nikon	V 4.5	
NIS-Elements AR software	Nikon		
Olympus with a model 2.1.1.183 controller	Olympus Corp	DP70	
Olympus microscope	Olympus Corp	SZX12	
Phalloidin-Alexa Flour 546	Thermo Fisher	A22283	
Phenol Red indicator (1% w/v)	Ricca Chemical Company	5725-16	
Phosphate buffered saline (PBS)	Fisher Scientific	BP399	
Photoshop	Adobe	CS5 v12.0	
Photoshop software	Adobe	CS5 v12.0	
Plan Apo 60x/1.2 WD objective	Nikon		
Power source	Wild Heerbrugg	MTr 22	Or equivalent power source
Slide warmer model No. 26020FS	Fisher Scientific	12-594	
Sodium Hydroxide beads	Fisher Scientific	S612-3	CAUTION - corrosive/irritating to eyes and skin, target organ -

			respiratory system, corrosive to metals
Superfrost/Plus microscope slide	Fisher Scientific	12-550-15	
Sylgard 184 silicone Dow Corning	World Prevision Instruments	SYLG184	
Tissue-Tek O.C.T. Compound	Sakura Finetek	4583	
Triton X-100 BioXtra	Sigma	T9284	CAUTION – Toxic, hazardous to aquatic environment, corrosive
Vannas micro-dissection scissors	Ted Pella Inc	1346	Sharp/sharp straight tips
Vectashield antifade mounting medium	Vector laboratories	H-1000	
Wheat Germ Agglutinin (WGA)-Alexa Flour-594	Life Technologies	W11262	