

Materials List for:

# Visualizing the Developing Brain in Living Zebrafish using Brainbow and Time-Lapse Confocal Imaging

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## Materials

Name	Company	Catalog Number	Comments
1.5mL transfer pipet	Globe Scientific, Inc.	134020	
1-phenyl-2-thiourea (PTU)	Alfa Aesar	L06690	Diluted to 0.2 mM in E3 to prevent embryo pigmentation
50ml conical tubes	Corning	352070	For heat shocking embryos
6 lb nylon fishing line	SecureLine	NMT250	For making embryo manipulators
7.5mL transfer pipet	Globe Scientific, Inc.	135010	
CaCl <sub>2</sub>	Sigma	C3881	For E3
Cotton swabs	Puritan	867-WC NO GLUE	For making embryo manipulators
Cre recombinase	New England Biolabs	M0298M	
Digital dry bath	Genemate	490016-616	Used to store LMA at 40°C
Epifluorescence dissection scope			
Glass capillary tubes	World Precision Instruments	TW100F-4	
Incubator	Forma Scientific	3158	To maintain embryos at 28°C
Injection plate molds	Adaptive Science Tools	TU-1	
Isotemp water bath	Fisher Scientific	2320	For heat shocking embryos
KCl	AMRESCO	0395	For E3 and for DNA solution for injections
Laser-scanning confocal microscope	Zeiss	LSM710	
LE agarose	Genemate	E3120	To create agarose injection plates
Low-melt agarose (LMA)	AMRESCO	J234	
Mating tanks	Aquaneering, Inc.	ZHCT100	
Methylene blue	Sigma	M9140	For E3
MgSO <sub>4</sub>	Sigma	9397	For E3
Micromanipulator	World Precision Instruments	M3301	
Micropipette Puller	Sutter Instrument Co.	P-97	
MS-222 Tricaine-S	Western Chemical, Inc.		Stock made at 4 mg/mL in reverse osmosis (RO) water, then added dropwise to E3 to final concentration of 0.2 mM to anesthetize embryos
NaCl	J.T. Baker	4058-01	For E3
Petri dishes (90 mm, 60 mm)	Genesee Scientific	32-107G	To house embryos and create imaging chamber (60 mm)
Phenol red	Sigma	P0290	
Soft stitch ring markers	Clover Needlecraft, Inc.	354	For creating imaging chamber with Petri dish

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Super glue (Ultra gel control)	Loctite	1363589	For making embryo manipulators
Syringe needles	Beckton Dickinson	BD329412	For dechorionating embryos