

Materials List for:

# Analysis of Zebrafish Kidney Development with Time-lapse Imaging Using a Dissecting Microscope Equipped for Optical Sectioning

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## Materials

Name	Company	Catalog Number	Comments
<b>Material</b>			
Control Morpholino	Gene tools, LLC	Standard control oligo	Prepared control oligo
<i>wt1a</i> Morpholinos	Gene tools, LLC	customized	Designed to target the first splice donor site, sequence as published in Ref. <sup>9</sup>
0.5% Phenol red solution	Sigma	P0290	Injection tracer
peqGOLD universal agarose	peqlab	35-1020	To prepare microinjection dish
Glass capillaries (GC100F-10)	Hugo Sachs Elektronik	30-0019	To generate injection needles
Microloader tips	Eppendorf	5242956003	To load the microinjection needle
Dumont forceps	Fine Science Tools	91150-20	To generate an opening at the needle tip
Embryo water (0.3x Danieaus' solution)			1x: 58 mM NaCl, 0.7 mM KCl, 0.4 mM MgSO <sub>4</sub> , 0.6 Ca(NO <sub>3</sub> ) <sub>2</sub> , 5 mM HEPES, pH: 7,5; Do not add methylene blue!
Graticule 5 mm/0.05 mm	Science Services	PY68039-02	For calculation of injection amount
Pasteur pipette 137 mm, 4.8 ml	Roth	E305.1	To collect eggs, to transfer embryos and to remove dead embryos
Pasteur pipette with ultra-thin tip 157 mm, 3.5 ml	Roth	E304.1	To remove excess of water
N-Phenylthiourea (PTU)	Sigma	P7629	For suppression of melanization
Ethyl 3-aminobenzoate methanesulfonate (Tricaine)	Sigma	E10521	To anesthetize zebrafish
Low melting agarose	Biozym	850111	For embedding
μ-dish <sup>35 mm, high</sup> Glass Bottom Grid-50	ibidi	81148	Imaging chamber
Gel loader tips	Hartenstein	GS05	To orient the embryo for proper embedding
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Equipment</b>			
Micropipette puller (model P-97)	Sutter Instrument		To generate injection needles
Micromanipulator	Saur Laborbedarf		For microinjection
Thermomixer compact	Eppendorf		Thermoblock for tempering the low melting agarose
SZ61 (Stereomicroscope)	Olympus		For injection control

Axio Zoom. V16	Zeiss		For embedding and imaging
ApoTome.2 slider	Zeiss		For optical sectioning
AxioCam MRm	Zeiss		For image acquisition
ZEN 2012	Zeiss		Imaging software