

**Materials List for:**

# **A Possible Zebrafish Model of Polycystic Kidney Disease: Knockdown of *wnt5a* Causes Cysts in Zebrafish Kidneys**

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URL: <https://www.jove.com/video/52156>

DOI: [doi:10.3791/52156](https://doi.org/10.3791/52156)

## **Materials**

<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
0.5% Phenol-Red	Sigma	P0290	Color indicator for injection
Morpholino	Genn Tools, LLC	(customized)	Customized designed to the gene of interest
Pre-pulled needle	Tritech Research	MINJ-PP	If large amount of needle is required, you can also purchase a needle puller and prepare the needle in the lab
T7 mMessage Kit	Ambion	1344	For in vitro transcription to make capped mRNA for rescue experiment
N-Phenylthiourea	Sigma	P7629	For prevention of melanization
Tricaine	Sigma	A5040	Also called ethyl 3-aminobenzoate, for zebrafish anesthesia
Methyl Cellulose	Sigma	M-0387	For position of zebrafish
QIAquick PCR Purification Kit	Qiagen	28104	For purification of PCR product for cap RNA synthesis.
dNTP mix	Promega	U1511	For PCR
Tag DNA Polymerase	Invitrogen	10342-053	For PCR
NanoDrop spectrophotometer	Thermo Scientific	ND-1000	For measure morpholino and RNA concentration
Air Compressor	Werther International, Inc.	Panther Compact 106	Air source for injection
Pico micro-injection pump	World Precision Instruments Inc	PV830 Pneumatic PicoPump	Other types of microinjection system can be used.
Micro-manuplator	World Precision Instruments Inc	MMJR	Right-handed (MMJL for left handed)
Needle holder	World Precision Instruments Inc	5430-ALL	To hold needle for micromanipulation
Dumont Tweezers	Fine Surgical Tools	11253-20	For breaking off the needle tip
Dissecting microscope	Leica M205C		For observing and imaging zebrafish embryos
Fluorescence microscope	Zeiss Axio Observer D1m		For imaging zebrafish pronephros
Capillary tube (I.D. 0.15 mm)	VitroCom	CV1525Q-100	For measure the volume of each injected drop