

Materials List for

# Isolating and Imaging Live, Intact Pacemaker Regions of Mouse Renal Pelvis by Vibratome Sectioning

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jove.com/video/62040

## Materials

Name	Company	Catalog Number	Comments
24-well culture plate	ThermoFisher Scientific	142485	To store kidney slices in
35 mm x 10 mm Petri dishes	Sigma Aldrich	CLS430165	Kidney slice calcium imaging dish
48-well culture plate	ThermoFisher Scientific	152640	To store kidney slices in
60 mm x 15 mm Petri dish	Sigma Aldrich	P5481	Kidney sharp dissection dish
Absorbent paper	Fisher Scientific	06-666A	To dry the kidney before applying glue
B6;129S-Gt(ROSA)26Sor/J	The Jackson Laboratory	13148	GCaMP3 Mice
B6;129S-Gt(ROSA)26Sor/J	The Jackson Laboratory	24105	GCaMP6f Mice
B6.FVB-Tg(Myh11-cre/ERT2)1Soff/J	The Jackson Laboratory	19079	smMHC-CRE Mice
C57BL/6-Tg(Pdgfra-cre)1Clc/J	The Jackson Laboratory	13148	PDGFRa-CRE Mice
Cyanoacrylate glue	Amazon	B001PILFVY	For adhering the kidney to the specimen plate
Ethanol	Phamco-Aaper	SDA 2B-6	For dissection
Extra-Fine Bonn Scissors	Fine Science Tools	14083-08	Used for internal dissecting scissors
Fine scissors	Fine Science Tools	14060-09	Used for external dissecting scissors
Fine-tip forceps	Fine Science Tools	11254-20	Used for fine dissection of kidney
Gillette Silver Blue double-edge blades	Amazon	B009XHQQYO	For insertion into blade holder of vibratome
ImageJ	NIH		For calcium imaging analysis
Isoflurane	Baxter	NDC 1001936060	For anesthesia
Minutien pins	Fisher Scientific	NC9677548	Pins were cut in half to reduce their length
Silicon elastomer	Fisher Scientific	NC9285739	Sylgard 184
Student Adson Forceps	Fine Science Tools	91106-12	For gently holding and moving the kidney
Student Dumont Forceps	Fine Science Tools	91150-20	Used for internal dissecting forceps
Vannas spring scissors	Fine Science Tools	15000-03	For sharp dissection and cleanup of isolated kidney

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Vibrocheck	Leica	14048142075	Optional component for calibrating blade movement during cutting
VT1200 S Vibrating Blade Microtome	Leica	14912000001	Configuration 1 is used in our protocol