

Materials List for:

Single Cell Multiplex Reverse Transcription Polymerase Chain Reaction After Patch-clamp

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URL: <https://www.jove.com/video/57627>

DOI: [doi:10.3791/57627](https://doi.org/10.3791/57627)

Materials

Name	Company	Catalog Number	Comments
MACAW v.2.0.5	NCBI		Multiple alignement for primer design
Dithiothreitol	VWR	443852A	RT
Random primers	Sigma-Aldrich (Merck)	11034731001	RT
dNTPs	GE Healthcare Life Sciences	28-4065-52	RT and PCR
RNasin Ribonuclease Inhibitors	Promega	N2511	RT
SuperScript II Reverse Transcriptase	Invitrogen	18064014	RT
Taq DNA Polymerase	Qiagen	201205	PCR
Mineral Oil	Sigma-Aldrich (Merck)	M5904-5ML	PCR
PCR primers	Sigma-Aldrich (Merck)		PCR / desalted and diluted at 200 µM
Tubes, 0.5 mL, flat cap	ThermoFisher Scientific	AB0350	RT and PCR
BT10 Series - 10 µL Filter Tip	Neptune Scientific	BT10	RT and PCR
BT20 Series - 20 µL Filter Tip	Neptune Scientific	BT20	RT and PCR
BT200 Series - 200 µL Filter Tip	Neptune Scientific	BT200	RT and PCR
BT1000 Series - 1000 µL Filter Tip	Neptune Scientific	BT1000.96	RT and PCR
DNA Thermal Cycler	Perkin Elmer Cetus		PCR
Ethidium Bromide	Sigma-Aldrich (Merck)	E1510-10ML	Agarose gel electrophoresis
Tris-Borate-EDTA buffer	Sigma-Aldrich (Merck)	T4415-1L	Agarose gel electrophoresis
UltraPure Agarose	Life Technologies	16500-500	Agarose gel electrophoresis
ΦX174 DNA-Hae III Digest	NEB (New England BioLabs)	N3026S	Agarose gel electrophoresis
EDA 290	Kodak		Agarose gel electrophoresis
Electrophoresis Power supply EPS 3500	Pharmacia Biotech		Agarose gel electrophoresis
Midi Horizontal Electrophoresis Unit Model SHU13	Sigma-Aldrich (Merck)		Agarose gel electrophoresis
Smooth paper with satin appearance	Fisherbrand	1748B	Patch clamp internal solution
Potassium Hydroxyde	Sigma-Aldrich (Merck)	60377	Patch clamp internal solution
Ethylene glycol-bis(2-aminoethylether)-N,N',N'-tetraacetic acid	Sigma-Aldrich (Merck)	E3889	Patch clamp internal solution
HEPES	Sigma-Aldrich (Merck)	H4034	Patch clamp internal solution
Potassium D-gluconate	Sigma-Aldrich (Merck)	G4500	Patch clamp internal solution
Magnesium chloride solution	Sigma-Aldrich (Merck)	M1028	Patch clamp internal solution

5500 Vapor Pressure Osmometer	Wescor		Patch clamp internal solution
Biocytin	Sigma-Aldrich (Merck)	B4261	Patch clamp internal solution
Sucrose	Sigma-Aldrich (Merck)	S5016	Slice preparation
D-(+)-Glucose monohydrate	Sigma-Aldrich (Merck)	49159	Slice preparation
Sodium chloride	Sigma-Aldrich (Merck)	S6191	Slice preparation
Potassium chloride	Sigma-Aldrich (Merck)	60128	Slice preparation
Sodium bicarbonate	Sigma-Aldrich (Merck)	31437-M	Slice preparation
Sodium phosphate monobasic	Sigma-Aldrich (Merck)	S5011	Slice preparation
Magnesium chloride solution	Sigma-Aldrich (Merck)	63069	Slice preparation
Calcium chloride solution	Sigma-Aldrich (Merck)	21115	Slice preparation
Kynurenic acid	Sigma-Aldrich (Merck)	K3375	Slice preparation
Isoflurane	Piramal Healthcare UK		Slice preparation
VT 1000S	Leica Biosystems	14047235613	Slice preparation
Hydrogen peroxide solution	Sigma-Aldrich (Merck)	H1009	Patch Clamp set-up cleaning
Thin Wall Glass Capillaries with filament	World Precision Instruments	TW150F-4	Patch Clamp
PP-83	Narishige		Patch Clamp
Eppendorf Microloader	Eppendorf	5242956003	Patch Clamp
BX51WI Upright microscope	Olympus		Patch Clamp
XC-ST70/CE CCD B/W VIDEO CAMERA	Sony		Patch Clamp
Axopatch 200B Amplifier	Molecular Devices		Patch Clamp
Digidata 1440	Molecular Devices		Patch Clamp
pCLAMP 10 software suite	Molecular Devices		Patch Clamp
10 mL syringe	Terumo	SS-10ES	Expelling
E Series with Straight Body (Holder)	Phymep	64-0997	Expelling
Sodium phosphate dibasic	Sigma-Aldrich (Merck)	S7907	Histochemical revelation
Sodium phosphate monobasic	Sigma-Aldrich (Merck)	S8282	Histochemical revelation
Paraformaldehyde	Sigma-Aldrich (Merck)	P6148	Histochemical revelation
Triton X-100	Sigma-Aldrich (Merck)	X100	Histochemical revelation
Gelatin from cold water fish skin	Sigma-Aldrich (Merck)	G7041	Histochemical revelation
Streptavidin, Alexa Fluor 488 conjugate	ThermoFisher Scientific	S11223	Histochemical revelation
24-well plate	Greiner Bio-One	662160	Histochemical revelation