

Materials List for:

Isolation and Culture of Oculomotor, Trochlear, and Spinal Motor Neurons from Prenatal *Isl^{mn}:GFP* Transgenic Mice

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Materials

Name	Company	Catalog Number	Comments
Alexa Fluor 488-conjugated goat anti-mouse IgG (H+L)	Thermo Fisher Scientific	A-11001	1:400
Alexa Fluor 594-conjugated F(ab') ₂ goat anti-rabbit IgG (H+L)	Thermo Fisher Scientific	A-11072	1:400
B27 Supplement (50X), serum free	Thermo Fisher Scientific	17504-044	
BD FACSAria IIu SORP Flow Cytometer	BD Bioscience	-	This has 4 laser system equipped with 405, 488, 594, and 640 nm lasers.
BD Falcon 70µm Nylon Cell Strainers	CORNING	352350	For filtering the dissociating cells before FACS.
BD Falcon Round Bottom Test Tubes With Snap Cap	CORNING	352054	
BDNF Human	ProSpec-Tany TechnoGene, Ltd.	CYT-207	
Cell Culture microplate, 96 well, PS, F-bottom (Chimney Well)	Greiner Bio-One International	655090	We tried multiple 96-well dishes and this was the best one for culture and analyses after ICC
Circular Cover Glasses for microscopy	Karl Hecht & Assistent	1001/14	We used this coverslip since the area was large (diamater: 14 mm).
CNTF Human	ProSpec-Tany TechnoGene, Ltd.	CYT-272	
Cyclopiazonic acid from <i>Penicillium cyclopium</i>	Sigma-Aldrich	C1530	CPA. One of ER stressors.
4',6-diamidino-2-phenylindole (DAPI)	Thermo Fisher Scientific	D1306	
Dimethyl sulfoxide	Sigma-Aldrich	D2650	DMSO
Dumont #5 Forceps Inox Tip Size .05 x .01 mm Biologie Tips	Roboz Surgical Instrument	RS-5015	
Forskolin	Thermo Fisher Scientific	BP25205	
GDNF Human	ProSpec-Tany TechnoGene, Ltd.	CYT-305	
GlutaMAX supplement	Thermo Fisher Scientific	35050-061	
Hanks' Balanced Salt Solution (HBSS)	Thermo Fisher Scientific	14175-095	

Hibernate E	BrainBits	HE	
Hibernate E low fluorescence	BrainBits	HELF	Fluorescence which hinders observation of embryo's GFP expressions should be low.
Horse serum, heat inactivated, New Zealand origin	Thermo Fisher Scientific	26050-070	
IBMX	Tocris Cookson	2845	Isobutylmethylxanthine
Laminin	Thermo Fisher Scientific	23017-015	
Leibovitz's L15 medium	Thermo Fisher Scientific	11415064	
2-Mercaptoethanol	Sigma-Aldrich	M6250	
Micro Dissecting Scissors	Roboz Surgical Instrument	RS-5913	
Micro Knife 4.75" 1.7 x 27 mm blade	Roboz Surgical Instrument	RS-6272	
Moria Mini Perforated Spoon	Fine Science Tools	10370-19	
mouse monoclonal antibody to neuronal class III β -tubulin (TUBB3)	BioLegend	801202	1:500, TUJ1
Nikon Perfect Focus Eclipse Ti live cell fluorescence microscope and Elements software	Nikon	-	Differential interference contrast images and immunocytochemistry images of the cell cultures were captured with these equipments
Nitric Acid 90%, Fuming (Certified ACS)	Fisher Scientific	A202-212	For rinsing coverslips
Olympus 1.7ml Microtubes, Clear	Genesee Scientific	22-281	These are the tubes that we described "1.7 mL microcentrifuge tubes" in the context.
Papain Dissociation System	Worthington Biochemical Corp	LK003150	Papain solution and albumin-ovomucoid inhibitor solution are prepared from this kit.
Penicillin-streptomycin (10,000 U/ml)	Thermo Fisher Scientific	15140-122	
Phosphate buffered saline (PBS)	Thermo Fisher Scientific	10010-023	
Poly D-lysine (PDL)	MilliporeSigma	A-003-E	
rabbit monoclonal antibody to Islet1	Abcam	ab109517	1:200
SMZ18 and SMZ1500 zoom stereomicroscopes with DS-Ri1 camera	Nikon	-	Dissection was performed and images of dissected embryos and tissues are captured under these fluorescence microscopes.
Sylgard 170 Black Silicone Encapsulant - A+B 0.9 Kg kit	Dow Corning	1696157	We make dissection dishes using this kit.
TC treated Dishes, 100 x 20 mm	Genesee Scientific	25-202	We make dissection dishes using this dish.
Thum Dressing Forceps 4.5" Serrated 2.2 mm Tip Width	Roboz Surgical Instrument	RS-8100	
Transducer for LOGOQ e VET	GE Healthcare	L8-18i-RS	For ultrasound on female mice
Veterinary ultrasound machine	GE Healthcare	LOGOQ e VET	For ultrasound on female mice
Zeiss LSM 700 series laser scanning confocal microscope and Zen Software	Carl Zeiss	-	Confocal image of the embryo was captured with these equipments