

Materials List for

In Ovo and Ex Ovo Methods to Study Avian Inner Ear Development

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Materials

Name	Company	Catalog Number	Comments
Alexa Fluor 488 Phalloidin	Thermo Fisher Scientific	A12379	
Alexa Fluor 647 Phalloidin	Thermo Fisher Scientific	A22287	
Alt-R S.p. HiFi Cas9 Nuclease V3	Integrated DNA Technologies	1081061	High fidelity Cas9 protein
Anti-GFP antibody	Abcam	ab290	Rabbit polyclonal to GFP
Bovine Serum Albumin	Sigma-Aldrich	A9647	
Calcium Chloride Dihydrate	Thermo Fisher Scientific	Q12135	
Collagen I, rat tail	Thermo Fisher Scientific	A1048301	
Critical Point Dryer Leica EM CPD300	Leica		
CUY-21 Electroporator	Nepagene		
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	D8418	
DM5000B Widefield Microscope	Leica		
DMEM, high glucose, GlutaMAX Supplement, pyruvate	Thermo Fisher Scientific	10569010	
Dumont #5 Forceps	Fine Science Tools	11251-20	
Dumont #55 Forceps	Fine Science Tools	11255-20	
Fast Green FCF	Sigma-Aldrich	F7252	
Fluoroshield	Sigma-Aldrich	F6182	
FLUOVIEW 3000 Laser Scanning Microscope	Olympus		
Glutaraldehyde (25 %)	Sigma-Aldrich	340855	
Goat anti-Mouse IgG Secondary Antibody, Alexa Fluor 488	Thermo Fisher Scientific	A-11001	
Goat anti-Mouse IgG Secondary Antibody, Alexa Fluor 594	Thermo Fisher Scientific	A-11032	
Goat anti-Rabbit IgG Secondary Antibody, Alexa Fluor 488	Thermo Fisher Scientific	A-11008	
Goat Serum Sterile filtered	HiMedia	RM10701	Heat inactivated

Hanks' Balanced Salt Solution (HBSS)	Thermo Fisher Scientific	14025092	
LSM980 Airyscan Microscope	Zeiss		
Millicell Cell Culture Insert, 30 mm, hydrophilic PTFE, 0.4 μ m	Sigma-Aldrich	PICM03050	
MVX10 Stereo Microscope	Olympus		
MYO7A antibody	DSHB	138-1	Mouse monoclonal to Unconventional myosin-VIIa
MZ16 Dissecting microscope	Leica		
N-2 Supplement (100X)	Thermo Fisher Scientific	17502048	
Noyes Scissors, 14cm (5.5")	World Precision Instruments	501237	
Osmium tetroxide (4%)	Sigma-Aldrich	75632	
Paraformaldehyde	Sigma-Aldrich	158127	
PC-10 Puller	Narishige		
pcU6_1sgRNA	Addgene	92395	Mini vector with modified chicken U6 promoter
Penicillin G sodium salt	Sigma-Aldrich	P3032	
Phosphate Buffered Saline (PBS)	Thermo Fisher Scientific	10010023	
ProLong Gold Antifade Mountant	Thermo Fisher Scientific	P36934	
SMZ1500 Dissecting microscope	Nikon		
Sodium Cacodylate Buffer, 0.2M	Electron Microscopy Sciences	11652	
Sodium chloride	HiMedia	GRM853	
Sputtre Coater K550X	Emitech		
Standard Glass Capillaries 3 in, OD 1.0 mm, No Filament	World Precision Instruments	1B100-3	
Sucrose	Sigma-Aldrich	84097	
The MERLIN Compact VP	Zeiss		
Thiocarbohydrazide	Alfa Aesar	L01205	
TWEEN 20	Sigma-Aldrich	P1379	