

Materials List for:

Manipulating the Murine Lacrimal Gland

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Materials

Name	Company	Catalog Number	Comments
DMEM/F12 without HEPES	SH3027101	Thermo Scientific	
Penicillin-Streptomycin	P0781	Sigma-Aldrich	
Albumin solution from bovine serum	A9576	Sigma-Aldrich	
Paraformaldehyde 16% Solution	15710	Electron Microscopy Sciences	Diluted to 4% in 1x PBS
Phosphate Buffered Saline 10x	BP665-1	Fisher Scientific	
Phosphate Buffered Saline 1x			Prepared from 10x stock
holo-Transferrin bovine	T1283	Sigma-Aldrich	25 mg/ml stock solution in water. Freeze single-use aliquots at -20 °C. Add to DMEM/F12 media to a final concentration of 50 µg/ml.
L-ascorbic acid (Vitamin C)	A4544	Sigma-Aldrich	25 mg/ml stock solution in water. Freeze single-use aliquots at -20 °C. Add to DMEM/F12 media to a final concentration of 50 µg/ml.
BioLite 100 mm Tissue Culture Treated Dishes	130182	Thermo Scientific	Non-tissue culture-treated plates can also be used.
Stereo Microscope with substage illuminator	Stemi 2000	Carl Zeiss	Any stereo dissecting microscope can be used that has a transmitted light base.
Substage Illuminator Base for Stereo Microscope	TLB 4000	Diagnostics Instruments, Inc.	
Falcon 35 mm Tissue Culture Treated Dishes	353001	Corning	Non-tissue culture-treated plates can also be used.
50 mm uncoated glass bottom dishes	P50G-1.5-14-F	MatTek Corporation	
Widefield fluorescence microscope	Axio Observer Z1	Carl Zeiss	Any fluorescence microscope (upright, inverted or stereo dissecting microscope) can be used to monitor GFP expression at low magnification with an attached digital camera.
Confocal Microscope	TCS SP5	Leica Microsystems	Confocal microscopy is necessary to see detailed cell structures. Any confocal microscope can be used.
SWISS Micro-Fine Forceps, #5 (11.2 cm)	17-305X	Integra LifeSciences Corporation	Fine tips are required for removing mesenchyme from epithelium. Tungsten needles can also be used.
Dumont Standard Tip Forceps, #5 (11 cm)	91150-20	Fine Science Tools (USA), Inc.	Ideal for harvesting glands from embryos.
Reusable Plastic Surgical Knife Handles, style no. 3.	4-30	Integra LifeSciences Corporation	

Stainless Steel Sterile Surgical Blades, no. 10	4-310	Integra LifeSciences Corporation	
RNAqueous-Micro Total RNA Isolation Kit	AM1931	Life Technologies	
Cultrex 3D Culture Matrix Laminin I	3446-005-01	Trevigen	6 mg/ml stock diluted 1:1 with DMEM/F12
Timed-pregnant Crl:CD1(ICR) mice		Charles River Labs	Embryos are harvested on day 14 (with day of plug discovery designated as day 0).
Nucleopore Track-Etched Hydrophilic Membranes, 0.1 μ m pore size, 13 mm	110405	Whatman	
Timed-pregnant Pax6-Cre, GFP mice	Tg(Pax-Cre, GFP)1Pgr	The Jackson Laboratory	Optional mice for learning how to locate the LG.