

Materials List for

Efficient and Cost Effective Electroporation Method to Study Primary Cilium-Dependent Signaling Pathways in the Granule Cell Precursor

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jove.com/video/63283

Materials

Name	Company	Catalog Number	Comments
GCP Culture			
B27 supplement	Life Technologies LTD	17504044	
Cell strainer, 70 µm	Corning	352350	
DNase I from bovine pancreas	Roche	11284932001	
Earle's Balanced Salt Solution	Gibco, Life Technologies	14155063	
FBS, qualified	Thermo Scientific	SH30028.02	
GlutamMAX™-I, 100x	Gibco, Life Technologies	35050061	L-glutamine substitute
L-cysteine	Sigma Aldrich	C7352	
Matrigel	BD Biosciences	354277	Basement membrane matrix
Neurobasal	Gibco, Life Technologies	21103049	
Papain, suspension	Worthington Biochemical Corporation	LS003126	
Poly-D-lysine Hydrobromide	Sigma Aldrich	P6407	
SAG	Cayman Chemical	11914-1	Smoothened agonist
IF staining			
Bovine Serum Albumin	Sigma Aldrich	A7906	
Paraformaldehyde	Sigma Aldrich	P6148	
Triton X-100	Sigma Aldrich	X100	
Primary antibody mix			
Anti-GFP-goat ab	Rockland	600-101-215	Dilution Factor: 1 : 1000
Anti-Arl13b mouse monoclonal ab	NeuroMab	75-287	Dilution Factor: 1 : 1000
Anti-Pax6 rabbit polyclonal ab	Covance	PRB-278P	Dilution Factor: 1 : 1000
Secondary antibody mix			
Alexa Fluor 488 donkey anti-goat IgG	Invitrogen	A-11055	Dilution Factor: 1 : 1000
Alexa Fluor 555 donkey anti-mouse IgG	Invitrogen	A-31570	Dilution Factor: 1 : 1000

Alexa Fluor 647 donkey anti-rabbit IgG	Invitrogen	A-31573	Dilution Factor: 1 : 1000
DAPI	Thermo Scientific	62247	Dilution Factor: 1 : 1000
Electroporation			
CU 500 cuvette chamber	Nepagene	CU500	
EPA Electroporation cuvette (2 mm gap)	Nepagene	EC-002	
Opti-MEM	Life Technologies LTD	31985070	reduced-serum medium for transfection
pEGFP-mSmo	Addgene	25395	
Super Electroporator NEPA21 TYPE II In Vitro and In Vivo Electroporation	Nepagene	NEPA21	electroporator