

Materials List for:

Real-time Bioluminescence Imaging of Notch Signaling Dynamics during Murine Neurogenesis

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URL: <https://www.jove.com/video/60455>

DOI: [doi:10.3791/60455](https://doi.org/10.3791/60455)

Materials

Name	Company	Catalog Number	Comments
Bioluminescence Imaging System			
Chilled water circulator (chiller)	Julabo	Model: F12-ED	
Cooled CCD camera	Andor Technology	Model: iKon-M 934	
Incubator system	TOKAI HIT	Model: INU-ONICS	
Inverted microscope	Olympus	Model: IX81	
Inverted microscope	Olympus	Model: IX83	
LED illumination device	CoolLED	Model: pE1	
MetaMorph	MOLECULAR DEVICES	Model: 40000	
Mix gas controller	Tokken	Model: TK-MIGM OLO2	
Objective lens	Olympus	Model: UPLFLN 40X O	
Preparations for Dissection			
Dissection microscope	Nikon	Model: SMZ-2B	
Fluorescence stereoscopic microscope	Leica	Model: MZ16FA	
Fine forceps	DUMONT	INOX No.5	
Scissors, Micro scissors			
Forceps			
Ring-shaped forceps			
10-cm plastic petri dish	greiner	664160-013	
35-mm plastic petri dish	greiner	627160	
PBS	Nacalai Tesque	14249-24	
DMEM/F12	invitrogen	11039-021	
Reagents for NPC dissociation culture			
B27 supplement	invitrogen	12587-010	
bFGF	invitrogen	13256-029	Stock solution: 1 µg/ml in 0.1% BSA/PBS
D-luciferin	Nacalai Tesque	01493-85	Stock solution: 100mM in 0.9% saline
DNase	Worthington Biochemical Corporation	LK003172	Stock solution: 1000U/ml in EBSS
EBSS	Worthington Biochemical Corporation	LK003188	

Glass bottom dish	IWAKI	3910-035	
N2 supplement (100x)	invitrogen	17502-048	
N-acetyl-cystein	Sigma	A-9165-25G	
Papain	Worthington Biochemical Corporation	LK003178	Stock solution: 7U/ml in EBSS
Penicillin/Streptomycine	Nacalai Tesque	09367-34	
Poly-L-lysine	Sigma	P-6281	40 mg/ml in DW
Preparations for in utero electroporation			
50-ml syringe	TERUMO	181228T	
Electrode	Neppagene	7-mm	
Electroporator	Neppagene	CUY21 EDIT	
Forceps			
Gauzes	Kawamoto co.	7161	
Micro capillary	Made in-house		
PBS	Nacalai Tesque	14249-24	
Pentobarbital	Kyoritsuseiyaku	Somnopentyl	
Ring-shaped forceps			
Scissors, Micro scissors			
Suture needle	Akiyama MEDICAL MFG. CO	F17-40B2	
Xylazine	Bayer	Seractal	
Preparations for Slice culture			
10-cm plastic petri dish	greiner	664160-013	
35-mm plastic petri dish	greiner	627160	
Culture insert	Millipore	PICM01250	
DMEM/F12	invitrogen	11039-021	
Fetal Bovine Serum	Sigma	172012-500ML	
Fine forceps	DUMONT	INOX No.5	
Forceps			
Horse Serum	Gibco	16050-122	
Micro surgical knife	Alcon	19 Gauge V-Lance	
Multi-gas incubator	Panasonic	MCO-5MUV-PJ	
N2/B27 media	Made in-house		ref. NPC dissociation culture
PBS	Nacalai Tesque	14249-24	
Ring-shaped forceps			
Scissors, Micro scissors			
Silicon rubber cutting board	Made in-house		