

Materials List for:

Lineage Tracing and Clonal Analysis in Developing Cerebral Cortex Using Mosaic Analysis with Double Markers (MADM)

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Materials

Name	Company	Catalog Number	Comments
1 mL tuberculin syringe (Omnifix Luer Lock)	Braun	9204512N	
1,4-diazabicyclooctane (DABCO)	Roth	0718.2	
10 mL Syringe (Omnifix Luer Lock)	Braun	8508429N	
15 mL conical centrifuge	Sarstedt	65.554.502	
24 multi-well dishes	Roth/Greiner Bio-one	CE56.1	
27- gauge x 3/4 needle (Sterican)	Braun	16010256E	
Corn oil	Sigma	C8267-500ML	
Coverslips (24 x 60 mm #1)	Thermo Fisher Scientific (Menzel)	15747592	
Cryostat Cryostar NX70	Thermo Fisher Scientific	957000H	
Dako Pen (Wax marker)	Agilent	S200230-2	
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride)	Invitrogen	D1306	
Disposable microtome blade (MX35 Ultra)	Thermo Fisher Scientific	705830	
Fine Forceps (Dumont #5)	Fine Science Tools (FST)	11254-20	
Glass anti-roll plate	Histocom	M 449980	
Glycerol	Sigma	G5516	
LSM 800 Confocal	Zeiss		
Mounting medium			25 mg/mL DAPCO, 6 g Glycerol, 2.4 g Mowiol 4-88, 6 mL dH ₂ O, 12 mL 0.2 M Tris-HCl (pH 8.5)
Mowiol 4-88	Roth	0713.2	
Normal donkey serum	Innovative Research	IGDNSER100ML	
Paraformaldehyde	Sigma	441244-1KG	
Peristaltic pump 323E/D 400RPM	Watson-Marlow	036.3124.00A	
Sucrose	Sigma	S8501-5KG	
Superfrost plus glass slides	Thermo Fisher Scientific	J1800AMNT	
Tamoxifen	Sigma	T5648	
Tissue Embedding mold T-12 (22mm square)	Polysciences Inc.	18986-1	
Tissue-Tek O.C.T	Sakura	4583	
Triton X-100	Sigma	T8787-250ML	
Trizma hydrochloride	Sigma	93363	
Tween-20	Sigma	P9416-100ML	
Software and Plugins:			

Fiji	1.52p	Fiji	
MultiStackReg	1.45	Download link	
TurboReg		EPFL Bioimaging	
Zen Blue	2.6	Zeiss	
Experimental Models: Organisms/Strains:			
Mouse: <i>Emx1-CreER</i>	The Jackson Laboratory	JAX:027784	
Mouse: <i>MADM-11-GT</i>	The Jackson Laboratory	JAX:013749	
Mouse: <i>MADM-11-TG</i>	The Jackson Laboratory	JAX:013751	
Primary antibodies:			
Chicken anti-GFP 1:500	Aves Labs	GFP-1020	
Goat anti-tdTomato 1:500	Sicgen Antibodies	AB8181-200	
Rabbit anti-RFP 1:500	MBL	PM005	
Secondary antibodies:			
Donkey Anti-Chicken Alexa Fluor 488 1:500	Jackson Immuno Research	715-475-150	
Donkey Anti-Goat Cy3 1:500	Jackson Immuno Research	705-165-147	
Donkey Anti-Rabbit Cy3 1:500	Jackson Immuno Research	711-165-152	