

Materials List for:

Viral-mediated Labeling and Transplantation of Medial Ganglionic Eminence (MGE) Cells for *In Vivo* Studies

Daniel Vogt¹, Pei-Rung Wu¹, Shawn F. Sorrells², Christine Arnold², Arturo Alvarez-Buylla², John L. R. Rubenstein¹

¹Department of Psychiatry, University of California San Francisco

²Department of Neurological Surgery, University of California San Francisco

Correspondence to: Daniel Vogt at daniel.vogt@ucsf.edu

URL: <https://www.jove.com/video/52740>

DOI: [doi:10.3791/52740](https://doi.org/10.3791/52740)

Materials

Name	Company	Catalog Number	Comments
Reagents and equipment for MGE cell transplantation			
1 ml syringe	REF 309602	BD, Becton Dickinson and company	
30 1/2 G needle	305106	BD, Becton Dickinson and company	
Precision bore to deliver 5 µl (comes with plunger)	5-000-1005	Drummond scientific company	
Parafilm	PM-999	Polysciences, Inc.	
Stereo microscope with boomstand **	MZ6	Leica	
Digital just for mice stereotaxic instrument **	51725D	Stoelting company	
Single-axis oil hydraulic fine micromanipulator **	MO-10	Narishige	
Diamond coated rotary beveler		made in house	
Needle pipette puller	730	Kopf instruments	
Mineral oil		Any drug store or pharmacy	
Any pipette and tips that can reliably measure 1 µl of volume			
** These are the particular models we use, but many other setups should work			
Optional Reagents (for making Lentiviruses)			
25 mm, 0.45 µm filter	09-719B	Fisher Scientific	
Ultra-clear centrifuge tubes (25 x 89 mm)	344058	Beckman Coulter®	
Lipofectamine ²⁰⁰⁰ (1.5 ml size)	11668019	Invitrogen	
Other commercially available supplies			
pMDLg/pRRE plasmid encoding gag/pol	12251	Addgene	
pRSV-Rev plasmid encoding Rev	12253	Addgene	
pMD2.G plasmid encoding VSVG	12259	Addgene	
pAAV-Flex-GFP	28304	Addgene	