

Materials List for:

# Use of Pre-Assembled Plastic Microfluidic Chips for Compartmentalizing Primary Murine Neurons

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## Materials

Name	Company	Catalog Number	Comments
XonaChip	Xona Microfluidics, LLC	XC150	150 µm length microgroove barrier
	Xona Microfluidics, LLC	XC450	450 µm length microgroove barrier
	Xona Microfluidics, LLC	XC900	900 µm length microgroove barrier
XC pre-coat	Xona Microfluidics, LLC	XC Pre-Coat	included with XonaChips
XonaPDL	Xona Microfluidics, LLC	XonaPDL	
E17/E18 timed pregnant Sprague Dawley rats	Charles River	24100564	
<i>neuronal culture media:</i>			
- Neurobasal medium	ThermoFisher Scientific	21103049	
-B-27 Plus Supplement (50x)	ThermoFisher Scientific	A3582801	
-GlutaMAX Supplement	ThermoFisher Scientific	35050061	
-Antibiotic-Antimycotic (100x)	ThermoFisher Scientific	15240112	
fluorinated ethylene propylene film	American Durafilm	50A	0.5 mil thickness
modified rabies virus	Salk Institute for Biological Studies	G-deleted Rabies-eGFP	Material Transfer Agreement required
	Salk Institute for Biological Studies	G-deleted Rabies-mCherry	Material Transfer Agreement required
Alexa Fluor hydrazide 488	ThermoFisher Scientific	A10436	
Fluoromount G	ThermoFisher Scientific	00-4958-02	
Glass Pasteur pipettes	Sigma-Aldrich	CLS7095D5X SIGMA	5.75 in length
hibernate-E Medium	ThermoFisher Scientific	A1247601	
Pierce 16% formaldehyde	ThermoFisher Scientific	28906	
PBS (10x)	ThermoFisher Scientific	QVC0508	
normal goat serum	ThermoFisher Scientific	16210064	
triton X-100	ThermoFisher Scientific	28314	
anti-vGlut1 antibody	NeuroMab	75-066	clone N28/9, 1:100
anti-vGAT antibody	Synaptic Systems	131 003	1:1000
anti_beta-tubulin III	Aves	TUJ	1:1000
Alexa Fluor secondary antibodies	ThermoFisher Scientific		1:1000
Incubator, 5% CO <sub>2</sub> 37 °C			
Epifluorescence imaging system	EVOS Fluorescence imaging system	AMF4300	10x objective
Spinning disk confocal imaging system	Andor Technology	CSU-X1, iXon X3 EMCCD	60x silicone oil & 20x objectives

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Laser scanning confocal imaging system	Olympus	FV3000RS	30x silicone oil objective
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