

Materials List for:

# Large-scale Reconstructions and Independent, Unbiased Clustering Based on Morphological Metrics to Classify Neurons in Selective Populations

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URL: <https://www.jove.com/video/55133>

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## Materials

Name	Company	Catalog Number	Comments
SADΔG-EGFP	E.M. Callaway Laboratory, Salk Institute		Prepared by Dr. F. Osakada. G-deleted rabies virus available through the Salk Institute Viral Core
Recording electrode: platinum/iridium or tungsten	FHC	UEPSGGSE1N2M	Visit website ( <a href="http://www.fh-co.com">www.fh-co.com</a> ) for alternative order specifications
Nanoject II	Drummod Scientific	3-000-204, 110V	Alternatives: picospritzer, Hamilton syringe
Freezing microtome	Thermo Scientific		
DAB	Sigma Aldrich	D5905-50TAB	3,3'-Diaminobenzidine tetrahydrochloride, tablet, 10 mg substrate per tablet. Caution: carcinogen - must be bleached before discarding
Cytochrome C	Sigma Aldrich	C2037-100MG	
Catalase	Sigma-Aldrich	C9322-5G	
Rabbit anti-GFP	Life Technologies/Thermo Fisher	#A-11122	Primary antibody
Biotinylated goat anti-rabbit	Vector Laboratories	#BA-1000	Secondary antibody
NeuroLucida System	MicroBrightField		Software for neuron tracing and analysis. <a href="http://www.mbfbioscience.com/neuroLucida">http://www.mbfbioscience.com/neuroLucida</a>
NeuroLucida Explorer	MicroBrightField		Data export software
Microfire Camera	Optronics		2-Megapixel true color microscope camera. <a href="http://www.simicroscopes.com/pdfs/microfire.pdf">http://www.simicroscopes.com/pdfs/microfire.pdf</a>
Nikon E800 Microscope	Nikon Instruments Inc.		Biological research microscope. <a href="http://www.microscopyu.com/museum/eclipseE800.html">http://www.microscopyu.com/museum/eclipseE800.html</a>
Matlab	The MathWorks Inc.		Matrix-based computational mathematics software. <a href="http://www.mathworks.com">http://www.mathworks.com</a>
Microsoft Office Excel	Microsoft		Spreadsheet program