Materials List for:

## Live Images of GLUT4 Protein Trafficking in Mouse Primary Hypothalamic Neurons Using Deconvolution Microscopy

Chun Austin Changou<sup>1,2,3</sup>, Reni Ajoy<sup>4,5</sup>, Szu-Yi Chou<sup>4,5,6</sup>

Correspondence to: Szu-Yi Chou at sichou@tmu.edu.tw

URL: https://www.jove.com/video/56409

DOI: doi:10.3791/56409

## **Materials**

Name	Company	Catalog Number	Comments
DeltaVision deconvolution microscope	Applied Precision Inc./(GE Healthcare Life Science)		equipped with 60x/1.42 NA oil immersion objective lens; used for taking live cell images
SoftWorX application software	Applied Precision Inc.		used to control microscope and camera
VoloCITY software	PerkinElmer		used to analyze the images
Insulin	Actrapid, Denmark		
Liposome	Invitrogen	11668019	Lipofectamine® 2000, used for plasmid DNA transfection
GFP control plasmid DNA			provided by Professor Samuel Cushman
GFP-GLUT4 plasmid DNA			provided by Professor Samuel Cushman
Anti-mouse Alex-488	Invitrogen	#A-11001	Secondary anitbody
Anti-rabbit IgG -Alex-568	Invitrogen	#A-11036	Secondary anitbody
CCL5/RANTES	R&D Systems	478-MR-025	10ng/ml
Kimwipes	Kimberly-Clark	#FL42572A	0.17mm thickness
12 mm Microscope coverglass	Deckglaser	#41001112	used for immmunstaining study
micro-dissecting scissors	Klappenecker		Surgical tool
curved-tipped forceps	Ideal-tek		Surgical tool
standard straight-tipped forceps	Ideal-tek		Surgical tool
EndoFree Plasmid Maxi Kit	QIAGEN	12362	Purify Endotoxin free plasmid DNA
5 ml pipette	Corning costar	4487	dissociate brain tissue

<sup>&</sup>lt;sup>1</sup>The Ph.D. Program for Cancer Biology and Drug Discovery, College of Medical Science and Technology, Taipei Medical University

<sup>&</sup>lt;sup>2</sup>Integrated Laboratory, Center of Translational Medicine, Taipei Medical University

<sup>&</sup>lt;sup>3</sup>Core Facility, Taipei Medical University

<sup>&</sup>lt;sup>4</sup>The Ph.D. Program for Neural Regenerative Medicine, College of Medical Science and Technology, Taipei Medical University

<sup>&</sup>lt;sup>5</sup>Graduate Institute of Neural Regenerative Medicine, College of Medical Science and Technology, Taipei Medical University

<sup>&</sup>lt;sup>6</sup>TMU research center for Neurotrauma and Neuroregeneration, College of Medical Science and Technology, Taipei Medical University