

Materials List for:

Utilizing pHluorin-tagged Receptors to Monitor Subcellular Localization and Trafficking

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Materials

Name	Company	Catalog Number	Comments
Reagent/Material			
Cell Culture Flasks with Filter Cap, Sterile, Greiner Bio One, 75 cm ²	VWR	82050-856	
35 mm glass bottom Petri dishes, sterile	Cell E&G	GBD00002-200	
Poly-D-lysine	vwr	215017510	
Dulbecco Modified Eagle Medium* (DMEM), High Glucose	Fisher Scientific	11-965-084	
Opti-MEM I Reduced Serum Medium	Gibco / Fisher Scientific	31-985-088	
Fetal Bovine Serum, Certified, US Origin, Standard (Sterile-Filtered)	Gibco / Fisher Scientific	16-000-044	
TrypLE Express Enzyme (1x), no phenol red	Fisher Scientific	12604-021	
Penicillin-Streptomycin Solution	VWR	45000-652	
Leibovitz's L-15 Medium, no phenol red	Gibco / Fisher Scientific	21083027	Optional
Lipofectamine	Fisher Scientific	11668030	Gently mix; Do not vortex
Sodium chloride	Fisher Scientific	BP358-1	
Potassium chloride	Fisher Scientific	P217-10	
Magnesium chloride	Fisher Scientific	BP214-500	
Calcium chloride	Fisher Scientific	C79-500	
HEPES	Fisher Scientific	BP310-500	
D-Glucose	Fisher Scientific	D16-1	
Objective immersion oil	Olympus	Type F	
Equipment			
Microscope	Olympus	IX81	
Camera	Andor	iXon Ultra 897	
60X, 1.49 NA oil immersion objective	Olympus	APON 60XOTIRF	
Motorized stage	Prior	IXPROXY	
Motorized actuator (stepper motor)	Thorlabs	ZST213	
MetaMorph (or other imaging program)	Metamorph		
488 nm laser	Market Tech		

Single mode fiber	Thorlabs	SM450	
Mirrors	Thorlabs	BB1-E01	
Dichroic 488 nm LP	Semrock	Di02-R488-25x36	
Bandpass filter, 488 nm	Semrock	LL01-488-12.5	
Bandpass filter, 525/50	Semrock	FF03-525/50-25	