

Materials List for:

Measurement of Force-Sensitive Protein Dynamics in Living Cells Using a Combination of Fluorescent Techniques

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Materials

Name	Company	Catalog Number	Comments
0.05% Trypsin-EDTA	Thermo Fisher	25300062	
16% Paraformaldehyde	Electron Microscopy Sciences	30525-89-4	
60x Objective NA1.35	Olympus	UPLSAPO 60XO	
Antibiotic-Antimycotic Solution (100x)	Gibco	15240-062	
Automated Stage	Prior Scientific	H117EIX3	
Custom Dichroic Mirror	Chroma Technology Corp		T450/514rpc
Custom mTFP1 Emission Filter	Chroma Technology Corp		ET485/20m
Custom mTFP1 Excitation Filter	Chroma Technology Corp		ET450/30x
Custom Venus Excitation Filter	Chroma Technology Corp		ET514/10x
DMEM-gfp Live Cell Visualization Medium	Sapphire	MC102	
Dulbecco's Modified Eagle's Medium	Sigma Aldrich	D5796	with L-glutamine and sodium bicarbonate
Fetal Bovine Serum	HyClone	SH30396.03	
Fibronectin, Human	Corning	47743-654	
FRAPPA Calibration Slide	Andor		provided along with FRAPPA unit
FRAPPA System with 515 nm Laser	Andor		
Glass-bottomed Fluoro Dishes	World Precision Instruments	FD35	
HEK293-T Cells	ATCC	CRL-3216	
Hexadimethrine Bromide, Polybrene	Sigma Aldrich	H9268-5G	
High-glucose Dulbecco's Modified Eagle's Medium	Sigma Aldrich	D6429	
Inverted Fluorescent Microscope	Olympus	IX83	
JMP Pro Software	SAS		
Lambda 10-3 Motorized Filter Wheels	Sutter Instruments	LB10-NW	
LambdaLS Arc Lamp with 300W Ozone-Free Xenon Bulb	Sutter Instruments	LS/OF30	
Lipofectamine 2000	Invitrogen	11668-027	
MATLAB Software	Mathworks		
MEM Non-Essential Amino Acids	Thermo Fisher	11140050	
MetaMorph for Olympus	Olympus		
Micro-Humidification System	Biopetechs	130708	
MoFlo Astrios EQ Cell Sorter	Beckman Coulter	B25982	

Objective Heater Medium	Bioptechs	150819-13	
OptiMEM	Thermo Fisher	31985070	
Phosphate Buffered Saline	Sigma Aldrich	D8537	
pMD2.G Envelope Plasmid	Addgene	12259	
pRRL Vector			gift from Dr. Kam Leong (Columbia University)
psPax2 Packaging Plasmid	Addgene	12260	
sCMOS ORCA-Flash4.0 V2 Camera	Hamamatsu Photonics	C11440-22CU	
Sorvall Legend XT/XF Centrifuge	Thermo Fisher	75004505	
Stable Z Stage Warmer	Bioptechs	403-1926	
Venus Emission Filter	Semrock	FF01-571/72	