

Materials List for:

Photoactivated Localization Microscopy with Bimolecular Fluorescence Complementation (BiFC-PALM)

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Materials

Name	Company	Catalog Number	Comments
Microscope frame	Nikon	Ti-U	
60X oil immersion TIRF objective with 1.49 NA	Nikon	CFI Apo TIRF 60x H	
EMCCD camera	Andor	iXon Ultra 897	
561 nm laser	Opto Engine	MGL-FN-561	
405 nm laser	Coherent	CUBE-405 50mW	
561 nm dichroic mirror	Semrock	Di01-R405/488/561/635-25x36	
561 nm filter	Semrock	FF01-525/45-25	
405/561 nm notch filter	Semrock	NF01-405/488/568-25	
Temperature and CO ₂ controlled stage	Tokai Hit	INUBG2ATW-PLAM	
pENTR-D-TOPO-PAmCherry1_1-159-MCS	Addgene	60545	
pENTR-D-TOPO-PAmCherry160-236-MCS	Addgene	60546	
pcDNA3.2-DEST	Life Technologies	12489-019	
pLenti-DEST	Addgene		http://www.addgene.org/Eric_Campeau/
Phusion High-Fidelity DNA Polymerase	Thermo Scientific	F-531	
In-Fusion HD Cloning	Clontech	639649	
LR Clonase	Life Technologies	11791	
Vira Power Lentivirus Packaging	Life Technologies	K497500	
X-tremeGENE Transfection Reagent	Roche	13873800	
Lab-Tek II Chambered Coverglass	Thermo Scientific	155409	#1.5 glass bottom dishes
U2OS cells	ATCC	HTB-96	
293T/17 cells	ATCC	CRL-11268	
DMEM with phenol red	Life Technologies	11995	
DMEM no phenol red	Life Technologies	21063	
Fetal bovine serum	Life Technologies	10082	
Leibovitz's L-15, no phenol red	Life Technologies	21083-027	
Reduced serum medium	Life Technologies	31985	
Phosphate Buffered Saline	Life Technologies	14040	
Syringe	BD Biosciences	309604	

Syringe filter	Millipore	SLHV033RB	
Lentiviral concentrator	Clontech	631231	
Retroviral concentrator	Clontech	631455	
10 cm culture dish	BD Biosciences	353003	
6-well culture plate	BD Biosciences	353046	
Polybrene	Sigma	107689	
Puromycin	Life Technologies	A11138	
G-418	Calbiochem	345812	Neomycin
Doxycycline	Fisher	BP2653	
Tris base	Fisher	BP152	
EDTA	Sigma	EDS	
Sodium Hydroxide	Sigma	S5881	
Paraformaldehyde	Sigma	158127	
Glutaraldehyde	Sigma	G6257	
PIPES	Sigma	P6757	
HEPES	Sigma	H4034	
EGTA	Sigma	3777	
Magnesium Sulfate	Sigma	M2643	
Potassium Hydroxide	Sigma	221473	
Sodium chloride	Fisher	BP358	
Magnesium chloride	Fisher	M33	
100 nm gold particles	BBI Solutions	EM.GC100	
Molecular grade water	Life Technologies	10977	
Dpn1	New England Biolabs	R0176	
PCR purification kit	Qiagen	28104	
Miniprep kit	Qiagen	27104	
Midiprep kit	Macherey-Nagel	740410	
0.6 ml microcentrifuge tubes	Fisher	05-408-120	
1.5 ml microcentrifuge tubes	Fisher	05-408-137	
15 ml tubes	Fisher	05-539-12	
5 ml polypropylene round-bottom tubes	BD Biosciences	352063	
14 ml polypropylene round-bottom tubes	BD Biosciences	352059	
50 ml tube	BD Biosciences	352070	
PCR tube	GeneMate	C-3328-1	
SOC medium	Life Technologies	15544	
LB broth	BD Biosciences	244610	
Kanamycin sulfate	Fisher	BP906	
Competent cells	Life Technologies	C4040	
Matlab	Mathworks		