

Materials List for:

# Monitoring ER/SR Calcium Release with the Targeted Ca<sup>2+</sup> Sensor CatchER<sup>+</sup>

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## Materials

Name	Company	Catalog Number	Comments
4-Chloro-3-methylphenol (4-CmC)	Sigma-Aldrich	C55402	
515DCXR dichroic mirror	Chroma Technology Corp.	NC338059	
Adenosine 5'-triphosphate disodium salt hydrate	Sigma-Aldrich	A26209	
Calcium chloride dihydrate	EMD Millipore	102382	
Corning tissue-culture treated culture dishes (100 mm)	Sigma-Aldrich	CLS430167	
Corning tissue-culture treated culture dishes (60 mm)	Sigma-Aldrich	CLS430166	
Cyclopiazonic Acid (CPA)	EMD Millipore	239805	
D(+)-Glucose	ACROS Organics	41095-0010	
Dow Corning 111 Valve Lubricant & Sealant	Warner Instruments	64-0275	
Dulbecco's Modified Eagle's Medium (DMEM)	Sigma-Aldrich	D7777	
Ethylenebis(oxyethylenenitrilo) tetraacetic Acid (EGTA)	ACROS Organics	409911000	
Fetal Bovine Serum (FBS)	ThermoFisher	26140087	
Fisherbrand Cover Glasses 22x40 mm	Fisher Scientific	12-544B	
Hanks' Balanced Salts (HBSS)	Sigma-Aldrich	H4891	
HEPES, Free Acid, Molecular Biology Grade	EMD Millipore	391340	
Immersion Oil without autofluorescence	Leica	11513859	
Ionomycin, Free Acid	Fisher Scientific	50-230-5804	
Leica DM6100B inverted microscope with a cooled EM-CCD camera	Hamamatsu	C9100-13	
Lipofectamine 2000 Transfection Reagent	ThermoFisher	11668019	
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Low Profile Open Diamond Bath Imaging Chamber	Warner Instruments	RC-26GLP	
Magnesium Chloride Hexahydrate	Fisher Scientific	M33-500	
Opti-MEM	ThermoFisher	51985034	
Potassium Chloride	EMD Millipore	PX1405	
Potassium Phosphate, Dibasic	EMD Millipore	PX1570	
Potassium Phosphate, Monobasic	EMD Millipore	PX1565	

Saponin	Sigma-Aldrich	47036	
SimplePCI Image Analysis Software	Hamamatsu	N/A	
Sodium Bicarbonate	Fisher Scientific	S233-3	
Sodium Chloride	Fisher Scientific	S271-500	
Sterivex-GV 0.22 µm filter	EMD Millipore	SVGVB1010	
Till Polychrome V Xenon lamp	Till Photonics	N/A	
Trypsin (2.5%), no phenol red (10x)	ThermoFisher	15090046	