

Materials List for:

# Biosensing Motor Neuron Membrane Potential in Live Zebrafish Embryos

Lorena Benedetti<sup>1,2,3</sup>, Anna Ghilardi<sup>4</sup>, Laura Proserpi<sup>4</sup>, Maura Francolini<sup>\*1</sup>, Luca Del Giacco<sup>\*4</sup>

<sup>1</sup>Department of Medical Biotechnology and Translational Medicine, Università degli Studi di Milano

<sup>2</sup>Department of Neuroscience; Department of Cell Biology, Howard Hughes Medical Institute, Yale University School of Medicine

<sup>3</sup>Program in Cellular Neuroscience, Neurodegeneration and Repair, Yale University School of Medicine

<sup>4</sup>Department of BioSciences, Università degli Studi di Milano

\*These authors contributed equally

Correspondence to: Luca Del Giacco at [luca.delgiacco@unimi.it](mailto:luca.delgiacco@unimi.it)

URL: <https://www.jove.com/video/55297>

DOI: [doi:10.3791/55297](https://doi.org/10.3791/55297)

## Materials

Name	Company	Catalog Number	Comments
Low Melting Point Agarose	Sigma-Aldrich	A9414	
DMSO	Sigma-Aldrich	W387520	
Riluzole	Sigma-Aldrich	R116	
Pfu Ultra HQ DNA polymerase	Agilent Technologies - Stratagene Products Division	600389	
T3 Universal primer	Sigma-Aldrich		
Wizard SV Gel and PCR Clean-Up system	Promega	A9280	
Universal Smal primer	Eurofins		
StrataClone Mammalian Expression Vector System / pCMV-SC blunt vector	Agilent Technologies - Stratagene Products Division	240228	
Smal	New England Biolabs	R0141S	
T4 DNA ligase	Promega	M1801	
Sall	New England Biolabs	R0138S	
EcoRV	New England Biolabs	R0195S	
35 mm, glass-bottomed imaging dish	Ibidi	81151	
forceps	Sigma-Aldrich	F6521	
Stereomicroscope	Leica Microsystems	M10 F	
Digital camera	Leica Microsystems	DFC 310 FX	
Leica Application Suite 4.7.1 software	Leica Microsystems		
QuickTime Player, v10.4	Apple		
Confocal microscope (inverted)	Leica Microsystems	TCS SP5	
Microinjector	Eppendorf	Femtojet	
ImageJ macro Biosensor_FRET			
GraphPad Prism 6.0c	GraphPad Software, Inc		