

Materials List for:

Expression of Fluorescent Proteins in *Branchiostoma lanceolatum* by mRNA Injection into Unfertilized Oocytes

Estelle Hirsinger¹, João Emanuel Carvalho², Christine Chevalier^{1,3}, Georges Lutfalla⁴, Jean-François Nicolas¹, Nadine Peyri ras⁵, Michael Schubert²

¹D partement de Biologie du D veloppement et Cellules Souches, Institut Pasteur

²Laboratoire de Biologie du D veloppement de Villefranche-sur-Mer (UMR7009 CNRS/UPMC Univ Paris 06), Sorbonne Universit s

³Equipe Epigenetic Control of Normal and Pathological Hematopoiesis, Centre de Recherche en Canc rologie de Marseille

⁴Unit  de Dynamique des Interactions Membranaires Normales et Pathologiques, CNRS UMR5235/DAA/cc107/Universit  Montpellier II

⁵Plateforme BioEmergences IBiSA FBI, CNRS-NED, Institut de Neurobiologie Alfred Fessard

Correspondence to: Nadine Peyri ras at nadine.peyrieras@inaf.cnrs-gif.fr

URL: <https://www.jove.com/video/52042>

DOI: [doi:10.3791/52042](https://doi.org/10.3791/52042)

Materials

Name	Company	Catalog Number	Comments
Consumables			
35 mm Petri dishes	Falcon	353001	Culture-treated
Filtration unit (Stericup 1 L)	Fisher	W21719	0.22 µm
Spin-X tubes	Costar	8160	0.22 µm
Needle storage jar for 1.2 mm diameter capillaries	WPI	E212	
Pasteur pipettes			230 mm long
Aspiration tube	Dutscher	75056	
Capillaries for injection needles	Sutter	BF 120-94-10	Borosilicate glass with filament, OD 1.20 mm, ID 0.94 mm, length 10 mm
Reagents			
Low-melting agarose	Sigma	A9414	
Phenol Red	Sigma	114537	
Glycerol	Sigma	G2025	
Poly-L-lysine hydrobromide	Sigma	P9155	
H ₂ O, DNase/RNase-free	Gibco	10977-035	
mMessage mMachine SP6 Transcription kit	Ambion	AM1340	mRNA synthesis kit
Phenol pH 8	Sigma	P4557	
24:1 chloroform:isoamyl alcohol	Sigma	C0549	
5:1 phenol pH 4.7:chloroform	Sigma	P1944	
Reef Crystal salts (200 kg)	Europrix		Commercial salts
NaHCO ₃	Sigma	S6014	
Equipment			
Fluorescent dissecting scope with 200X magnification	Leica	MZ16F	25X oculars, DSR and GFP2 filters
Micromanipulator	Marzhauzer	M-33	
Injector	Picospritzer	model II or III	
Needle puller	Sutter	P97	Heating-filament needle puller
Fine forceps	Fine Science Tools GmbH	11252-30	Dumont #5