

Materials List for:

Using Whole Mount *in situ* Hybridization to Link Molecular and Organismal Biology

Nicole L. Jacobs¹, R. Craig Albertson¹, Jason R. Wiles^{1,2}

¹Department of Biology, Syracuse University

²Department of Science Teaching, Syracuse University

Correspondence to: Nicole L. Jacobs at njacobs@syr.edu, Jason R. Wiles at jwiles01@syr.edu

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Materials

Name	Company	Catalog Number	Comments
5 Prime Fast Plasmid Mini Kit (100 preps)	Fisher Scientific	2300000	
One Shot TOP10 Chemically Competent E. coli with SOC Medium	Invitrogen	C404003	
LB Agar	Fisher Scientific	BP1425-500	
LB Broth	Fisher Scientific	BP1426-500	
Ampicillin Sodium Salt	Fisher Scientific	BP1760-5	
Isopropanol	Acros Organics	42383-0010	
Petri Dish 100 x 20 mm non treated	Laboratory Products Sales	430591	
14 ml Culture Tube, Snap Top	Fisher Scientific	1495911B	
Restriction Enzymes & Buffers & 10xBSA	New England Biolabs	varies	
Diethyl Pyrocarbonate (DEPC) 25 ml	Sigma-Aldrich	D5758-25mL	
Sodium Acetate Trihydrate USP/ FCC 500g	Fisher Scientific	s608500	
Gal 200 proof Ethyl alcohol	Fisher Scientific	04-355-451	
Tris-Acetate-EDTA (TAE) 50x Sol 1L	Fisher Scientific	bp13321	
Agarose Low EEO 100 g	Fisher Scientific	BP160-100	
Ethidium Bromide 10 ml	Sigma-Aldrich	45-E1510	
Sucrose Gel Loading Dye 40% Sucrose	Fisher Scientific	BP655-1	
1 kb Full Scale DNA Ladder	Fisher Scientific	BP2582200	
DIG RNA Labeling Mix	Roche Group	11277073910	
T3 RNA Polymerase	Roche Group	1031163	
T7 RNA Polymerase	Roche Group	10881767001	
SP6 RNA Polymerase	Roche Group	810274	
Protector Rnase Inhibitor	Roche Group	3335399001	
Dnase I, Rnase Free 10,000 units	Roche Group	4716728001	
EDTA molecular biology reagent	Sigma-Aldrich	e5134-500G	
Lithium Chloride 100 g	Fisher Scientific	L121100	
Sodium Carbonate 1 kg	Fisher Scientific	BP357-1	
Sodium Bicarbonate, 500 g	Fisher Scientific	BP328-500	

Acetic Acid glacial ACS 500 ml	Fisher Scientific	a38500	
Paraformaldehyde R 500 g	Fisher Scientific	o4042500	
PBS Phosphate Buffer Saline 10X	Fisher Scientific	bp3991	
Tween 20 500 ml	Fisher Scientific	bp337500	
Methanol 5 L	Fisher Scientific	A4124	
Proteinase K 50 mg	Fisher Scientific	bp170050	
Formamide 1 L	Fisher Scientific	F841	
20x SSC 1 L	Fisher Scientific	bp13251	
Citric Acid Anhydrous ACS 500 g	Fisher Scientific	a940500	
Ribonucleic acid transfer type V	Sigma-Aldrich	r7876-2.5KU	
Heparin Sodium salt 50 mg	Fisher Scientific	bp252450	
Maleic acid R 500 g	Fisher Scientific	o3417500	
Sodium Chloride 500 g	Fisher Scientific	s271500	
Sodium Hydroxide 500 g	Fisher Scientific	s318500	
Blocking Reagent	Roche Group	11096176001	
Lamb Serum 500 ml	Invitrogen	16070096	
Anti DIG AP fragments	Roche Group	11093274910	
2M Tris Solution 500 ml	Fisher Scientific	bp1759500	
Magnesium Chloride 500 g	Fisher Scientific	m33500	
BCIP 3 ml	Roche Group	11383221001	
NBT 3 ml	Roche Group	11383213001	
Glycerol 99% 2.5 L	Fisher Scientific	AC158920025	
Plate 12 well PS ST w/Lid	VWR international	62406-165	
Tube 15 ml screw cap 50/rack 500/ cs	Laboratory Products Sales	L262861	
Tube 50 ml screw cap 25/rack 500/ cs	Laboratory Products Sales	L262890	
1.6 ml microfuge tube	Laboratory Products Sales	L234401	
2 Parafilm 2" x 250 ft	Fisher Scientific	s37441	
Transfer Pipet 7 ml	USA Scientific, Inc.	1020-2520	
.1-10 µl Pipet Tip, Bulk	USA Scientific, Inc.	1111-3000	
1-200 µl Pipet Tip, Bulk	USA Scientific, Inc.	1111-0006	
101-1000 µl Pipet Tip, Bulk	USA Scientific, Inc.	1111-2021	
Aluminum Foil	Grocery Store		

- Autoclave
- Micro-centrifuge
- 37°C incubator (with shaker)
- 4°C micro-centrifuge
- Water bath
- Vortex
- Gel electrophoresis apparatus
- -20°C freezer
- -80°C freezer
- Rocker/shaker
- 4°C refrigerator
- Dissecting microscope (preferably with a teaching screen or camera)