

Materials List for:

Double whole mount in situ hybridization of early chick embryos

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Materials

Name	Type	Company	Catalog Number	Comments
Eggs	Animal	Charles River Laboratories	Premium Fertile	incubated to HH10 (33 hr)
Stereomicroscope	Microscope	Leica Microsystems	MZ9.5 or SV11	
Marsh Automatic Incubator	Equipment	Lyon	RX	
Hybridization Incubator	Equipment	Hybaid	Micro-4	Use with staining dish containing H2O
Staining dish	Tool	Fisher Scientific	08-812	
Adams Nutator orbital mixer	Equipment	Fisher Scientific	14-062	
Scintillation vials	Tool	Fisher Scientific	03-341-25G	
Curved Forceps (1)	Tool	Electron Microscopy Sciences	72991-4C	
Forceps (2)	Tool	Fine Science Tools	11002-13	blunt ended using sharpening stone and 100ul mineral oil
Sharpening stone Dan's Black Arkansas	Tool	Electron Microscopy Sciences	62082-00	use to blunt end fine forceps with 100ul mineral oil
Fine scissors	Tool	Fine Science Tools	14161-10	
Spoon	Tool	Fine Science Tools	10370-18	
Rubber Bulb	Tool	Electron Microscopy Sciences	70980	
Pasteur Capillary Pipette	Tool	Electron Microscopy Sciences	70950-12	round edge under flame ; autoclave
Microcapillary tube	Tool	Sigma-Aldrich	P1049-1PAK	Pull using vertical micropipette puller; blunt end with fine forceps
Microdissecting knife	Tool	Fine Science Tools	10056-12	Use to puncture cavities prior to in situ hybridization
Minuten pins 0.2mm diam	Tool	Fine Science Tools	26002-20	Use magnetic stirrer to store; Use protective eyewear and blunt ended forceps
Sylgard 184 Silicon Elastomer Curing Agent and Base	Tool	Dow Corning	0001986475	Mix 1 part Curing Agent, 9 parts Base; set O/N at 37C
Diethylpyrocarbonate (depc)	Reagent	Acros Organics	10025025	Add 1ml depc to 1l PBS; shake; autoclave
16% PFA	Reagent	Electron Microscopy Sciences	15710	Use within 1 week at 4%
Tween-20	Reagent	Sigma-Aldrich	P1379-100ML	use 10% stock
Proteinase K	Reagent	Sigma-Aldrich	P2308-5MG	Stock at 10 mg/ml in depc-H2O in 10ul aliquots. Store at -20C.

Formamide, deionized	Reagent	Ambion	9342	
Yeast tRNA-25 mg	Reagent	Invitrogen	15401-011	Stock at 20 mg/ml in depc-H ₂ O in 125ul aliquots. Store at -20C.
Heparin Sodium salt	Reagent	Sigma-Aldrich	H4784-250MG	Stock at 50 mg/ml in depc-H ₂ O in 100ul aliquots. Store at -20C.
SSC x20 pH5.5	Reagent	Fisher Scientific	PR-V4261	
EDTA (0.5M)	Reagent	Fisher Scientific	PR-V4231	
SDS	Reagent	Fisher Scientific	BP166-100	
Maleic acid	Reagent	Fluka	63189	
B-hringer Blocking Reagent	Reagent	Roche Group	11096176001	Use at 2% in MABT. To make, heat with MABT for 20 mn at 60C. Can make a stock and store in 1-5 ml aliquots at 20C.
Sheep serum	Reagent	Jackson ImmunoResearch	013-000-121	Dissolve in 10 ml H ₂ O; heat 55C, 30 mn. Aliquot at 1ml, -20C.
Anti-Digoxigenin-AP, Fab fragments	Reagent	Roche Group	11093274910	
NBT/BCIP stock solution	Reagent	Roche Group	11681451001	
Anti-Fluorescein-AP, Fab fragments	Reagent	Roche Group	11426338910	
2M Tris	Reagent	Fisher Scientific	BP1759-500	
Vector Red Alkaline Phosphatase Substrate Kit	Reagent	Vector Laboratories	SK-5100	
1,2,3,4-tetrahydronaphthalene	Reagent	Sigma-Aldrich	429325-100ML	Under hood