

Materials List for:

Micromanipulation Techniques Allowing Analysis of Morphogenetic Dynamics and Turnover of Cytoskeletal Regulators

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Materials

Name	Company	Catalog Number	Comments
B16-F1 mouse skin melanoma cells	American Type Culture Collection, Manassas, VA	CRL-6323	
NIH-3T3 cells	American Type Culture Collection, Manassas, VA	CRL-1658	
DMEM 4.5g/L glucose	Life Technologies, Thermo Fisher Scientific, Germany	41965-039	
Ham's F-12 medium	Sigma-Aldrich	N8641	
Fetal calf serum (FCS)	PAA Laboratories, Linz, Austria	A15-102	
Fetal bovine serum (FBS)	Sigma-Aldrich, Germany	F7524	Lot054M3396
MEM Non essential amino acids	Gibco, ThermoFisher Scientific, Germany	11140035	
L-Glutamine 200mM (100x)	Life Technologies	25030-024	
Pen-Strep 5000 U/mL	Life technologies	15070063	
Sodium Pyruvate (100 mM)	Gibco, ThermoFisher Scientific, Germany	11360-039	
Laminin	Sigma-Aldrich	L-2020	
Laminin coating buffer			Self-made: 50mM Tris pH7.4, 150mM NaCl
Fibronectin from human plasma	Roche Diagnostics, Mannheim, Germany	11 051 407 001	
Jetpei	Polyplus Transfection, Illkirch, France	101-10N	
JetPei buffer	Polyplus Transfection, Illkirch, France	702-50	150mM NaCl
PA-GFP-actin plasmid DNA			described in Koestler et al.2008
pEGFP-actin plasmid DNA	Clontech, Mountain View, CA, USA		
Rac1 protein for microinjection			Purified as GST-tagged version, and cleaved from GST prior to injection
Microinjection buffer			Self-made: 100mM NaCl, 50mM Tris-HCl pH7.5, 5mM MgCl ₂ , 1mM DTT
Dextran, Texas Red, 70,000 MW, Lysine Fixable	Molecular Probes, Thermo Fisher Scientific, Germany	D1864	
Microscope circular cover glasses 15mm, No.1	Karl Hecht, Aisstent, Sondheim, Germany	1001/15	
Eppendorf Femtotips Microloader Tips	Eppendorf, Hamburg, Germany	5242 956 003	

Eppendorf Femtotip Microinjection Capillary Tips	Eppendorf, Hamburg, Germany	930000035	
Silicone Grease	ACC Silicones, Bridgewater, England	SGM494	
Aluminium Open Diamond Bath Imaging Chamber	Warner instruments	RC-26	
Automatic temperature controller	Warner Instruments	TC-324B	
Microscope: Axio Observer	Carl Zeiss, Jena, Germany		
CoolSnap-HQ2 camera	Photometrics, Tucson, AZ		
Lambda DG4 light source	Sutter Instrucment, Novato, CA		
Laser source	Visitron Systems		
Eppendorf FemtoJet microinjector	Eppendorf, Hamburg, Germany		With built-in compressor for pressure supply
Nikon Narishige Micromanipulator system	Nikon Instruments, Japan		
Visiview software v2.1.4	Visitron Systems, Puchheim, Germany		
Metamorph software v7.8.10	Molecular Devices, Sunnyvale, CA		
Sigma Plot v.12	Systat Software Inc.		