

3 Materials

3.1 Chemicals

1-Methylimidazole	Sigma-Aldrich, St. Louis, MO
2-Mercaptoethanol	Sigma-Aldrich, St. Louis, MO
Acrylamide/Bis (40% solution, 19:1)	Bio-Rad Laboratories, Hercules, CA
Aprotinin	Sigma-Aldrich, St. Louis, MO
APS	Sigma-Aldrich, St. Louis, MO
Bovine serum albumin	Sigma-Aldrich, St. Louis, MO
Busulfan	ICN Biomedicals, Irvine, CA
Dimethyl sulfoxide (DMSO)	Calbiochem, San Diego, CA
Ethanol	Aaper Alcohol, Shelbyville, KY
Ethylenediaminetetraacetic acid (EDTA)	Sigma-Aldrich, St. Louis, MO
Glycerol	USB, Cleveland, OH
Hoechst 33342 dye	Molecular Probes, Inc., Eugene, OR
Leupeptin	Sigma-Aldrich, St. Louis, MO
Paraformaldehyde	Electron Microscopy Sciences, Fort Washington, PA
Saline sodium citrate (SSC)	Sigma-Aldrich, St. Louis, MO
Sodium chloride	Ambion, Austin, TX
Sodium hydroxide	Fisher Scientific, Pittsburgh, PA
Succinic anhydride	Sigma-Aldrich, St. Louis, MO
Sucrose	Sigma-Aldrich, St. Louis, MO
TEMED	Sigma-Aldrich, St. Louis, MO
Tris	Calbiochem, San Diego, CA
Triton X-100	Calbiochem, San Diego, CA
Trypan blue	Sigma-Aldrich, St. Louis, MO
Tween 20	Sigma-Aldrich, St. Louis, MO

3.2 Nucleotides, nucleic acids and primers

Cy3- and Cy5-CTP	Amersham, Piscataway, NJ
dNTPs	Stratagene, La Jolla, CA
Oligo dT primers	Invitrogen, Carlsbad, CA
Oligonucleotides	Sigma-Genosys, The Woodlands, TX
Random primers	Invitrogen, Carlsbad, CA
Yeast tRNA	Roche, Nutley, NJ
Cot-1 DNA	Invitrogen, Carlsbad, CA
³⁵ S-UTP	Amersham, Piscataway, NJ

3.3 Plasmids

pEGFP-1	Clontech, Palo Alto, CA
pcDNA6.0-V5-His-B	Invitrogen, Carlsbad, CA

3.4 Antibodies

AlexaFlour-594-conjugated goat anti-rabbit IgG	Molecular Probes, Inc., Eugene, OR
Mouse monoclonal anti-GFP IgG cocktail	Roche, Nutley, NJ
Peroxidase-conjugated goat anti-mouse IgG	Santa Cruz Biotechnology, Inc., Santa Cruz, CA
Rabbit anti-Dazl-3 IgG	Kent Hamra, Dallas, TX
Rabbit anti-Egr3 IgG (SC-191)	Santa Cruz Biotechnology, Inc., Santa Cruz, CA
Rabbit non-immune IgG (SC-2027)	Santa Cruz Biotechnology, Inc., Santa Cruz, CA
Rabbit preimmune-3 IgG	Kent Hamra, Dallas, TX

3.5 Animals and cell lines

C57BL/6 mice	Harlan Breeders, Indianapolis, IN
Sprague Dawley rats	Harlan Breeders, Indianapolis, IN
STO fibroblasts	Allan Bradley, Houston, TX
MSC-1 cells	Michael Griswold, Pullman, WA
COS-7 cells	ATCC, Manassas, VA

3.6 Tissue culture reagents and materials

Amphotericin B	Gibco/Invitrogen, Carlsbad, CA
Collagen-coated culture dishes	Fisher Scientific, Pittsburgh, PA
Dispase	Fisher Scientific, Pittsburgh, PA
DMEM	Gibco/Invitrogen, Carlsbad, CA
Fetal bovine serum (FBS)	Atlanta Biologicals, Inc., Norcross, GA
Fugene6 transfection reagent	Roche, Nutley, NJ
Ham's F12 medium	Gibco/Invitrogen, Carlsbad, CA
HEPES	Sigma-Aldrich, St. Louis, MO
Mitomycin C	Sigma-Aldrich, St. Louis, MO
Mouse laminin	Fisher Scientific, Pittsburgh, PA
Penicillin G sodium	Gibco/Invitrogen, Carlsbad, CA
Phosphate-buffered saline (PBS)	JRH Biosciences, Inc., Lenexa, KS
Protease inhibitors (EDTA-free tablets)	Roche, Nutley, NJ
Sodium phosphate	Sigma-Aldrich, St. Louis, MO
Sodium bicarbonate	Sigma-Aldrich, St. Louis, MO
Streptomycin sulfate	Gibco/Invitrogen, Carlsbad, CA
Trypsin	Gibco/Invitrogen, Carlsbad, CA

3.7 Microarray materials

GenePix 4000B scanner	Axon Instruments, Union City, CA
Hybridization cassettes	TeleChem International, Sunnyvale, CA
Lifterslip	Erie Scientific, Portsmouth, NH

Murine Genome U74v2 GeneChip Set	Affymetrix, Santa Clara, CA
Rat Expression Set 230	Affymetrix, Santa Clara, CA
SlideHyb Glass Array Hybridization Buffer #3	Ambion, Austin, TX
UltraGAPS slides	Corning Life Sciences, Acton, MA

3.8 Other materials

BioArray HighYield RNA Transcript Labeling Kit	Enzo Life Sciences, Farmingdale, NY
Lig'nScribe No-Cloning Promoter Addition Kit	Ambion, Austin, TX
MAXIscript T7 Kit	Ambion, Austin, TX
Multiscreen filter plates (384-well)	Millipore, Bedford, MA
NucAway Spin Columns	Ambion, Austin, TX
Restriction enzymes	New England BioLabs, Beverly, MA
RiboAmp RNA Amplification Kit	Arcturus, Mountain View, CA
RNA Stat-60	Teltest, Friendswood, TX
RNAqueous	Ambion, Austin, TX
RNeasy Mini	Qiagen, Valencia, CA
SDS gels (10-20% acrylamide gradient)	Invitrogen, Carlsbad, CA
Superscript II reagents	Invitrogen, Carlsbad, CA
SYBR Green PCR Master Mix	Applied Biosystems, Foster City, CA
Taq polymerase	Invitrogen, Carlsbad, CA
YM-30 microconcentrators	Millipore, Bedford, MA

3.9 Software

Affymetrix Microarray Suite (MAS) 5.0	Affymetrix, Santa Clara, CA
ArrayMiner 4.0	Optimal Design, Brussels, Belgium
GenePix Pro 4.0	Axon Instruments, Union City, CA
GeneSpring 5.1	Silicon Genetics, Redwood City, CA
Microarray Calculation and Visualization (Marc-V)	Jeff Schageman, UT Southwestern
Primer Express 2.0	Silicon Genetics, Redwood City, CA
Sequence Detection System 2.1	Silicon Genetics, Redwood City, CA