

Materials List for:

In Vivo Microinjection and Electroporation of Mouse Testis

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Materials

| Name | Company | Catalog Number | Comments |
|--|--|------------------------------|--|
| Centrifuge | Sigma | 1-15 PK | |
| Spectrophotometer | Nanodrop | ND-1000 | |
| Micropipette puller | Narishige | PC-10 | vertical capillary puller |
| Microinjection capillaries | Clark | GC100-10 | borosilicate standard wall |
| Micropipette beveler | Bachofer | Typ 462 | rotating disk beveler |
| Electroporator | Nepagene | CUY 21EDIT | square wave electroporator |
| Tweezer electrodes | Nepagene | CUY 650P5 | 5 mm Ø disk electrodes |
| Stereo microscope | Zeiss | Stemi 2000-C | |
| Cold light source | Zeiss | KL 1500LCD | |
| Microinjection pump | Eppendorf | Femtojet | |
| Micromanipulator | homemade | | XYZ cross table |
| Surgical instruments | FST | | scissors, forceps, needle holder |
| Fine forceps | FST | Dumont #5, #7 | efferent ducts preparation |
| Michel clip applying stapler | FST | Michel, 12029-12 | |
| Michel suture clips | FST | Michel, 12040-01 | 7.5 x 1.75 mm |
| Surgical suture | Catgut, Markneukirchen, Germany | Catgut 00 | |
| Syringe with 30 G needle | B. Braun | Omnican 40 | to load micropipette and for anesthesia |
| Plasmid isolation kit | Promega | Cat. # A2495 | plasmid Midiprep |
| Plasmid pEGFP-C1 | Clontech | Cat. #6084-1 | CMV-promoter + EGFP |
| Plasmid pDsRed2-N1 | Clontech | Cat. #6084-1 | CMV-promoter + DsRed2 |
| Fast Green dye | Sigma | F7258-25G | for dilution in ddH ₂ O |
| 10% Ketamine | Serum Werk, Bernburg, Germany | Urotamin | mix in a rate 1:1 with xylazine |
| 2% Xylazine | Serum Werk, Bernburg, Germany | Xylazin | mix in a rate 1:1 with ketamine |
| Sterillium | Bode Chemie | Sterillium | disinfection |
| Vet ointment | S&K Pharma, GmbH | Kerato Bicion 5%, Augensalbe | ophthalmic ointment to prevent eye dryness |
| To-Pro-3 iodide | Invitrogen | T3605 | |
| 10x PBS, pH 7.4 | | | |
| 1.37 M NaCl | Carl Roth | 3957.1 | |
| Ibuprofen, Dolormin | Johnson & Johnson Consumer Health Care Germany | 01094902 | analgesic pediatric solution (NSAID) for postsurgery pain relief |
| 27 mM KCl | Carl Roth | 6781.1 | |
| 100 mM Na ₂ HPO ₄ ·2H ₂ O | Carl Roth | T106.2 | |
| 18 mM KH ₂ PO ₄ | Carl Roth | 3904.1 | |