

Materials List for:

Direct Delivery of MIF Morpholinos Into the Zebrafish Otocyst by Injection and Electroporation Affects Inner Ear Development

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Materials

Name	Type	Company	Catalog Number	Comments
Sutter P-97 electrode puller	Equipment			
PV820 Pneumatic PicoPump	Equipment	World Precision Instruments, Inc.		
M3301L Manual Micromanipulator	Equipment	World Precision Instruments, Inc.		
Leica S6D stereomicroscope	Equipment			
Protect CUY-21 Edit Square Wave Electroporator	Equipment			
Olympus FV500 confocal microscope	Equipment			
0.01 inch Platinum Wire	Supply	A-M Systems	711000	
Shrink Tubing	Supply	Newark Inc	03F3172	
Socket Crimp Terminal	Supply	Digi-Key	82PECT-ND	
Capillaries	Supply	Stoelting Co.	50613	
Modeling clay	Supply			
Plastic 100 mm Petri dishes	Supply	Falcon BD		
6 well plastic plates	Supply	Falcon BD		

- MOs: 0.3 mM of a combination of for *mif*, *mif-like* MO1, and *mif-like* MO2 was used. *Mif* MO is complimentary to the start codon of zebrafish *mif* mRNA: 5'-acatcgcatgactgacagagat-3'. Two MOs were used for *mif-like*. *mif-like* MO1 is complimentary to the translational start site: 5'-GTTTCTATATTTATGAACGGCATGA-3', while *mif-like* MO2 derived from AS sequence at the intron1/exon 2 boundary: 5'-GATTCATCCTCTGAAGACGTAAGCC-3'. Control MO was the scrambled nucleotide sequence from Gene Tools: 5'-CCTCTTACCTCAGTTACAATTTATA- 3'.
- methylene blue (0.3 ppm) in fish water
- MS222 (tricaine, Sigma; 0.64 mM in fish water)
- Low-melting point agarose (LMPA; Roche)
- phenol red (Sigma)
- Anti-acetylated tubulin (Sigma)
- Alexa Fluor® 488 goat anti-mouse second antibody (Molecular probes)
- Texas red-phalloidin (Molecular probes)