

Materials List for:

Generation of Genetically Modified Mice through the Microinjection of Oocytes

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Materials

| Name | Company | Catalog Number | Comments |
|---|--------------------------|----------------|--------------------|
| Micropipette 0.1-2.5 µL | Eppendorf | 4920000016 | |
| Micropipette 2 - 20 µL | Eppendorf | 4920000040 | |
| Micropipette 20 - 200 µL | Eppendorf | 4920000067 | |
| Micropipette 100 - 1,000 µL | Eppendorf | 4920000083 | |
| Molecular weight marker | Bioline | BIO-33025 | HyperLadder 1 kb |
| Molecular weight marker | Bioline | BIO-33056 | HyperLadder 100 bp |
| Agarose | Bioline | BIO-41025 | |
| EDTA buffer | Sigma-Aldrich | 93296 | 10x - Dilute to 1x |
| Ethidium bromide | Thermo Fisher Scientific | 15585011 | |
| SYBR Safe gel stain | Invitrogen | S33102 | |
| Gel extraction kit | Qiagen | 28706 | |
| PCR purification kit (Qiaquick) | Qiagen | 28106 | |
| Vacuum system (Manifold) | Promega | A7231 | |
| Nuclease-free microinjection buffer | Millipore | MR-095-10F | |
| Ultrafree-MC microcentrifuge filter | Millipore | UFC30GV00 | |
| Cas9 mRNA | Sigma-Aldrich | CAS9MRNA | |
| CRISPR expressing plasmid (px330) | Addgene | 42230 | |
| Nuclease free water | Sigma-Aldrich | W4502 | |
| Phusion polymerase | New England Biolabs | M0530L | |
| T7 Quick High Yield RNA kit | New England Biolabs | E2050S | |
| RNA purification spin columns (NucAway) | Thermo Fisher Scientific | AM10070 | |
| ssOligos | Sigma-Aldrich | OLIGO STANDARD | |
| Donor plasmid | Thermo Fisher Scientific | GeneArt | |
| Hyaluronidase | Sigma-Aldrich | H3884 | |
| KSOMaa embryo culture medium | Zenith Biotech | ZEKS-100 | |
| Mineral oil | Zenith Biotech | ZSCO-100 | |
| M2 Medium | Sigma-Aldrich | M7167 | |
| Cytochalasin B | Sigma-Aldrich | C6762 | |
| Mouthpiece | Sigma-Aldrich | A5177 | |
| Glass microcapillaries | Sutter Instrument | BF100-78-10 | |
| Proteinase K | Applichem | A3830.0100 | |
| Dumont #5 forceps | Fine Science Tools | 91150-20 | |
| Iris scissors | Fine Science Tools | 91460-11 | |
| Vessel clamp | Fine Science Tools | 18374-43 | |

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|---|--------------------------|----------------|--|
| Wound clips | Fine Science Tools | 12040-01 | |
| Clips applier | Fine Science Tools | 12018-12 | |
| Micro-scissors | Fine Science Tools | 15000-03 | |
| Cauterizer | Fine Science Tools | 18000-00 | |
| Non-absorbable surgical sutures (Ethilon 3-0) | Ethicon | 1691H | |
| 5% CO ₂ incubator | MG Scientific | Galaxy 14S | |
| Spectrophotometer | Thermo Fisher Scientific | Nanodrop 2000c | |
| Thermocycler | Eppendorf | 6321 000.515 | |
| Electrophoresis set up | BioRad | 1640300 | |
| UV Transilluminator | BioRad | 1708110EDU | |
| Thermocycler | Eppendorf | 6334000069 | |
| Stereoscopic microscope | Olympus | SZX7 | |
| Inverted microscope | Olympus | IX71 | |
| 2x Micromanipulators | Eppendorf | 5188000.012 | |
| Oocytes manipulator | Eppendorf | 5176000.025 | |
| Microinjector (Femtojet) | Eppendorf | 5247000.013 | |
| Mice C57BL/6J strain | Australian BioResources | C57BL/6JAusb | |