

Materials List for

Whole Ovary Immunofluorescence, Clearing, and Multiphoton Microscopy for Quantitative 3D Analysis of the Developing Ovarian Reserve in Mouse

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Materials

| Name | Company | Catalog Number | Comments |
|---|-------------------------|---|---|
| Benchtop Incubator | Benchmark Scientific | H2200-H | 37 °C incubator |
| Bovine Serum Albumin (BSA) | VWR | 97061-416 | |
| C57BL/6J | The Jackson Laboratory | 000664 | mouse inbred strain |
| Dimethyl sulfoxide (DMSO) | Sigma-Aldrich | D1435 | Hazardous material |
| D-Sorbitol | Sigma-Aldrich | S6021 | |
| Dumont #5 Forceps | FST | 91150-20 | |
| FastWells Reagent Barriers | GraceBio | 664113 | Sticky and flexible silicone gasket (adhesive well) |
| Fine Scissors | FST | 91460-11 | |
| Glycerol | Sigma-Aldrich | G2025 | |
| Glycine | ThermoFisher Scientific | BP381-500 | |
| Goat anti-Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 647 | Invitrogen | A-21246 | Dilution 1:1000 |
| Goat anti-Rat IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 555 | Invitrogen | A-21434 | Dilution 1:1000 |
| Goat serum | Sigma-Aldrich | G9023 | |
| IMARIS Software | Oxford Instruments | Version 9.7.0 | Image visualization and analysis software |
| Insight X3 | Spectra-Physics | InSight X3 Tunable Ultrafast Laser | Laser for Multiphoton Imaging |
| LASX software | Leica | Version 3.5.6 | Image acquisition software |
| Leica DIVE/4TUNE/FALCON | Leica | Leica Dmi8, 2P-M-ready: # 158005406 | Multiphoton Microscope |
| MaiTai HP | Spectra-Physics | Mai Tai DeepSee One Box Ultrafast Laser | Laser for Multiphoton Imaging |
| Masterflex Pump Controller | SPW Industrial | Model: 7553-50 | Peristaltic pump for perfusion |

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|---|------------------------------|------------------|--|
| Mayo Scissors | FST | 14010-17 | 5" –7" blunt/blunt scissors for decapitation |
| Micro Cover Glasses, Square, No. 1.5 25x25mm | VWR | 48366-249 | |
| Mini BioMixer | Benchmark Scientific | B3D1020 | shaker/nutator for 37 °C incubator |
| Nikon Ergonomic SMZ1270 | Leica | SMZ1270 | stereomicroscope |
| Paraformaldehyde 16% (formaldehyde aqueous solution) | Electron Microscopy Sciences | 15710 | Hazardous material |
| PBS Tablets, Phosphate-buffered Saline | ThermoFisher Scientific | BP2944100 | Dissolve in Milli-Q water |
| Penicillin-Streptomycin, 200x, Dual Antibiotic Solution | ThermoFisher Scientific | ICN1670249 | |
| Polyvinyl alcohol (PVA) | Sigma-Aldrich | P8136 | |
| Quadrol (N,N,N',N'-Tetrakis(2-Hydroxypropylethylenediamine) | Sigma-Aldrich | 122262 | |
| Rabbit anti-DDX4/MVH | Abcam | ab27591 | Dilution 1:500 |
| Rabbit anti-LINE-1 ORF1p | Abcam | ab216324 | Dilution 1:500 |
| Rat anti-TRA98/GCNA | Abcam | ab82527 | Dilution 1:500 |
| Sodium azide | Sigma-Aldrich | S2002 | Hazardous material |
| Sodium borohydride | Sigma-Aldrich | 452882 | Hazardous material |
| Sucrose | ThermoFisher Scientific | S0389 | |
| Tekmar Orbital Shaker | Bimedis | VXR-S10 | shaker for room temperature |
| Triethanolamine | Sigma-Aldrich | 90279 | |
| Triton X-100 | Sigma-Aldrich | X100 | |
| UNOLOK Infusion Set | MYCO Medical | 7001-23 | needles for perfusion |
| Urea | Amresco | 97061-920 | |
| X-Cite 120LED | Excelitas | S/N XT640-W-0147 | low-power LED fluorescence lamp |