

Materials List for

# Microdissection and Dissociation of the Murine Oviduct: Individual Segment Identification and Single Cell Isolation

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## Citation

Radecki, K.C., Lorenson, M.Y., Carter, D.G., Walker, A.M. Microdissection and Dissociation of the Murine Oviduct: Individual Segment Identification and Single Cell Isolation. *J. Vis. Exp.* (177), e63168, doi:10.3791/63168 (2021).

## Date Published

November 4, 2021

## DOI

10.3791/63168

## URL

jove.com/video/63168

## Materials

| Name                                                     | Company                     | Catalog Number | Comments                                                                       |
|----------------------------------------------------------|-----------------------------|----------------|--------------------------------------------------------------------------------|
| 0.5 mm Stainless steel bead mix                          | Next Advance                | SSB05          | Mix 1:1 with 1.4 mm SSB14B, sterilized                                         |
| 1.4 mm Stainless steel bead mix                          | Next Advance                | SSB14B         | Mix 1:1 with 0.5 mm SSB05, sterilized                                          |
| 1X Dulbecco's Phosphate Buffered Saline A, pH 7.4 (DPBS) | Gibco                       | 21600-010      | Cold, sterile                                                                  |
| 25G needle                                               | BD                          | 305122         |                                                                                |
| 60 mm sterile petri dishes                               | Corning                     | 430166         |                                                                                |
| 70 µm cell meshes                                        | Fisherbrand                 | 22-636-548     |                                                                                |
| Agilent Eukaryote Total RNA 6000 Pico Chip kit           | Agilent 2100 Bioanalyzer    | 5067-1513      |                                                                                |
| Bead Bullet Blender Tissue Homogenizer                   | Next Advance                | BBY24M         |                                                                                |
| Bioanalyzer                                              | Agilent 2100 Bioanalyzer    |                |                                                                                |
| Bovine serum albumin                                     | Sigma Aldrich               | A7906          |                                                                                |
| Cold plate/pack/surface of choice                        | N/A                         | N/A            | Kept at -20 °C for dissection                                                  |
| Dental wax                                               | Polysciences Inc.           | 403            |                                                                                |
| Dulbecco's Modified Eagle's Medium (DMEM)/ Ham's F12     | Corning                     | 10-090-CV      | Prepare dissection medium: DMEM/ Ham's F12, 10% FBS, 25 mM Hepes, 1% Pen-Strep |
| Fetal Bovine Serum                                       | Corning                     | 35-015CV       |                                                                                |
| Fine point forceps of choice                             | N/A                         | N/A            |                                                                                |
| Glycine                                                  | Sigma Aldrich               | G712b          | Immunocytochemical validation images                                           |
| Goat anti-mouse IgG Alexa Fluor 555                      | Invitrogen                  | A-21422        | Immunocytochemical validation images                                           |
| Goat anti-rabbit IgG Alexa Fluor 488                     | Invitrogen                  | A-11001        | Immunocytochemical validation images                                           |
| Hepes                                                    | Sigma Aldrich               | H-3784         |                                                                                |
| Hoescht 33342                                            | Cell Signaling Technologies | 4082S          | Immunocytochemical validation images                                           |

|                                      |                             |                |                                                                                                                                                                                 |
|--------------------------------------|-----------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inverted compound microscope         | Keyence BZ-X700             |                |                                                                                                                                                                                 |
| Mouse anti-mouse Occludin            | Invitrogen                  | 33-1500        | Immunocytochemical validation images                                                                                                                                            |
| Non-enzymatic dissociation buffer    | N/A                         |                | 5 mM EDTA, 1 g/L glucose, 0.4% BSA, 1X DPBS                                                                                                                                     |
| Nylon macro-mesh 1 mm x 1 mm         | Thomas Scientific           | 1210U04        |                                                                                                                                                                                 |
| Paraformaldehyde                     | Sigma Aldrich               | P-6148         | Immunocytochemical validation images                                                                                                                                            |
| Pen-Strep                            | MP Biomedicals              | 10220-718      |                                                                                                                                                                                 |
| Prolong Gold Antifade Reagent        | Cell Signaling Technologies | 9071S          | Immunocytochemical validation images: antifade mounting medium                                                                                                                  |
| Pronase                              | Sigma Aldrich               | 10165921001    | Prepare pronase digestion medium: 0.15% pronase in DMEM/Ham's F12, sterile                                                                                                      |
| Propidium Iodide                     | Roche                       | 11 348 639 001 | Viability validation images                                                                                                                                                     |
| Rabbit anti-mouse Acetylated-Tubulin | Abcam                       | ab179484       | Immunocytochemical validation images                                                                                                                                            |
| RBC lysis buffer                     | BD Biosciences              | 555899         |                                                                                                                                                                                 |
| RNeasy Mini Kit                      | Qiagen                      | 74134          | Utilized for on-column purification in text                                                                                                                                     |
| Spring form microdissection scissors | Roboz Surgical              | RS-5610        |                                                                                                                                                                                 |
| Sterile 3 mL bulb pipettors          | Globe Scientific            | 137135         |                                                                                                                                                                                 |
| Toluidine blue                       | Alfa Aesar                  | J66015         | Prepare toluidine blue solution: 1% in 1X DPBS, sterile                                                                                                                         |
| Tris-Buffered Saline-Tween (TBST)    | N/A                         | N/A            | Immunocytochemical validation images; 0.1 N NaCl, 10 mM Tris-Cl pH 7.5, 1% Tween 20                                                                                             |
| Triton-X-100                         | Mallinckrodt Inc.           | 3555           | Immunocytochemical validation images                                                                                                                                            |
| Trizol RNA Extraction Reagent        | Invitrogen                  | 15596026       | Referred to as RNA extraction reagent. Nuclease-free water, chloroform and isopropanol are required in supplement of performing Trizol extraction per manufacturer's guidelines |