

Materials List for:

Quick Fluorescent *In Situ* Hybridization Protocol for Xist RNA Combined with Immunofluorescence of Histone Modification in X-chromosome Inactivation

Minghui Yue*^{1,2}, John Lalith Charles Richard*^{1,2}, Norishige Yamada^{1,2}, Akiyo Ogawa¹, Yuya Ogawa^{1,2}

¹Division of Reproductive Sciences, Cincinnati Children's Hospital Medical Center

²Department of Pediatrics, University of Cincinnati College of Medicine

*These authors contributed equally

Correspondence to: Yuya Ogawa at Yuya.Ogawa@cchmc.org

URL: <https://www.jove.com/video/52053>

DOI: [doi:10.3791/52053](https://doi.org/10.3791/52053)

Materials

| Name | Company | Catalog Number | Comments |
|--|-------------------|----------------|----------|
| oligonucleotides with 5'-amino modification | IDT | | |
| Alexa Fluor 488 Reactive Dye | Life Technologies | A32750 | |
| MicroSpin G-25 columns | GE Healthcare | 27-5325-01 | |
| Cytospin 2 | Shandon | 59900102 | |
| Bovine Serum Albumin, Molecular Biology Grade (for hybridization buffer) | Roche | 10715859103 | |
| Histone H3K27me3 antibody | Active Motif | 61017 | |
| Alexa Fluor 555 Goat Anti-Mouse, highly cross-adsorbed | Life Technologies | A21424 | |
| ProLong Gold antifade reagent | Life Technologies | P36931 | |