

Materials List for:

# Kinetic Measurement and Real Time Visualization of Somatic Reprogramming

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## Materials

| Name  | Company                  | Catalog Number | Comments |
|---|--------------------------|----------------|----------|
| DMEM, high glucose, GlutaMAX Supplement, pyruvate                                 | Thermo Fisher Scientific | 10569-010      |          |
| Fetal Bovine Serum, embryonic stem cell-qualified, US origin                      | Thermo Fisher Scientific | 16141-061      |          |
| MEM Non-Essential Amino Acids Solution (100x)                                     | Thermo Fisher Scientific | 11140-050      |          |
| Trypsin-EDTA (0.05%), phenol red  | Thermo Fisher Scientific | 25300-054      |          |
| Mouse (ICR) Inactivated Embryonic Fibroblasts                                     | Thermo Fisher Scientific | A24903         |          |
| Attachment Factor Protein (1x)  | Thermo Fisher Scientific | S-006-100      |          |
| DMEM/F-12, GlutaMAX supplement  | Thermo Fisher Scientific | 10565-018      |          |
| KnockOut Serum Replacement  | Thermo Fisher Scientific | 10828010       |          |
| 2-Mercaptoethanol (55 mM)   | Thermo Fisher Scientific | 21985-023      |          |
| Collagenase, Type IV, powder  | Thermo Fisher Scientific | 17104-019      |          |
| TrypLE Select Enzyme (1x), no phenol red  | Thermo Fisher Scientific | 12563-011      |          |
| DPBS, no calcium, no magnesium  | Thermo Fisher Scientific | 14190-144      |          |
| Geltrex LDEV-Free, hESC-Qualified, Reduced Growth Factor Basement Membrane Matrix | Thermo Fisher Scientific | A1413302       |          |
| Essential 8 Medium  | Thermo Fisher Scientific | A1517001       |          |
| FGF-Basic (AA 1-155) Recombinant Human Protein                                    | Thermo Fisher Scientific | PHG0264        |          |
| UltraPure 0.5 M EDTA, pH 8.0  | Thermo Fisher Scientific | 15575-020      |          |
| Bovine Albumin Fraction V (7.5% solution)   | Thermo Fisher Scientific | 15260-037      |          |
| HEPES (1 M)   | Thermo Fisher Scientific | 15630-080      |          |
| Penicillin-Streptomycin (10,000 U/ml)   | Thermo Fisher Scientific | 15140-122      |          |
| InSolution Y-27632  | EMD Millipore            | 688001         |          |
| CytoTune-iPS Sendai Reprogramming Kit   | Thermo Fisher Scientific | A1378001       |          |
| CytoTune-iPS 2.0 Sendai Reprogramming Kit   | Thermo Fisher Scientific | A16517         |          |
| Countess II Automated Cell Counter  | Thermo Fisher Scientific | AMQAX1000      |          |
| Countess Cell Counting Chamber Slides   | Thermo Fisher Scientific | C10228         |          |

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|---|--------------------------|-------------------------------|--|
| BJ ATCC Human Foreskin Fibroblasts, Neonatal                            | ATCC                     | CRL-2522                      |  |
| DF1 Adult Human Dermal Fibroblast                                       | Thermo Fisher Scientific | N/A                           |  |
| BG01V/hOG Cells Variant hESC hOct4-GFP Reporter Cells                   | Thermo Fisher Scientific | R7799-105                     |  |
| IncuCyte ZOOM   | Essen BioScience         |                               |  |
| SSEA-4 Antibody, Alexa Fluor 647 conjugate (MC813-70)                   | Thermo Fisher Scientific | SSEA421                       |  |
| SSEA-4 Antibody, Alexa Fluor 488 conjugate (eBioMC-813-70 (MC-813-70))  | Thermo Fisher Scientific | A14810                        |  |
| SSEA-4 Antibody (MC813-70)  | Thermo Fisher Scientific | 41-4000                       |  |
| TRA-1-60 Antibody (cl.A)  | Thermo Fisher Scientific | 41-1000                       |  |
| CD44 Rat Anti-Human/Mouse mAb (clone IM7), PE-Cy5 conjugate             | Thermo Fisher Scientific | A27094                        |  |
| CD44 Alexa Fluor 488 Conjugate Kit for Live Cell Imaging                | Thermo Fisher Scientific | A25528                        |  |
| CD44 Rat Anti-Human/Mouse mAb (Clone IM7)                               | Thermo Fisher Scientific | RM-5700 (no longer available) |  |
| Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor 488 conjugate | Thermo Fisher Scientific | A-11029                       |  |
| Goat anti-Rat IgG (H+L) Secondary Antibody, Alexa Fluor 594 conjugate   | Thermo Fisher Scientific | A-11007                       |  |
| Alkaline Phosphatase Live Stain   | Thermo Fisher Scientific | A14353                        |  |
| TRA-1-60 Alexa Fluor 488 Conjugate Kit for Live Cell Imaging            | Thermo Fisher Scientific | A25618                        |  |
| CD24 Mouse Anti-Human mAb (clone SN3), FITC conjugate                   | Thermo Fisher Scientific | MHCD2401                      |  |
| beta-2 Microglobulin Antibody, FITC conjugate (B2M-01)                  | Thermo Fisher Scientific | A15737                        |  |
| EpCAM / CD326 Antibody, FITC conjugate (VU-1D9)                         | Thermo Fisher Scientific | A15755                        |  |
| CD73 / NT5E Antibody (7G2)  | Thermo Fisher Scientific | 41-0200                       |  |
| VECTOR Red Alkaline Phosphatase (AP) Substrate Kit                      | Vector Laboratories      | SK-5100                       |  |
| Zeiss Axio Observer.Z1 microscope                                       | Carl Zeiss               | 491912-0003-000               |  |
| FlowJo Data Analysis Software   | FLOJO, LLC               | N/A                           |  |
| Attune Accoustic Focusing Cytometer, Blue/Red Laser                     | Thermo Fisher Scientific | Use Attune NXT                |  |
| S3e\ Cell Sorter (488/561 nm)   | BIO-RAD                  | 1451006                       |  |
| Falcon 12 x 75 mm Tube with Cell Strainer Cap                           | Corning                  | 352235                        |  |
| Falcon 15 ml, high-clarity, dome-seal screw cap                         | Corning                  | 352097                        |  |
| Falcon T-75 Flask   | Corning                  | 353136                        |  |
| Falcon T-175 Flask  | Corning                  | 353112                        |  |
| Falcon 6-well dish  | Corning                  | 353046                        |  |
| Heraeus Heracell CO <sub>2</sub> Rolling Incubator                      | Thermo Fisher Scientific | 51013669                      |  |

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|--|--|---------|--|
| Nonstick, RNase-free Microfuge Tubes, 1.5 ml |  | AM12450 |  |
| HulaMixer Sample Mixer                       |  | 15920D  |  |