

Materials List for:

# Efficient Differentiation of Pluripotent Stem Cells to NKX6-1<sup>+</sup> Pancreatic Progenitors

Emily C. McGaugh<sup>1,2,3</sup>, M. Cristina Nostro<sup>1,2,3</sup>

<sup>1</sup>Toronto General Research Institute, University Health Network

<sup>2</sup>McEwen Centre for Regenerative Medicine, University Health Network

<sup>3</sup>Department of Physiology, University of Toronto

Correspondence to: M. Cristina Nostro at [cnostro@uhnresearch.ca](mailto:cnostro@uhnresearch.ca)

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## Materials

| Name                                                           | Company           | Catalog Number | Comments |
|----------------------------------------------------------------|-------------------|----------------|----------|
| <b>Media and cytokines</b>                                     |                   |                |          |
| 1-Thioglycerol (MTG)                                           | Sigma             | M6145          |          |
| Activin A                                                      | R&D               | 338-AC/CF      |          |
| Ascorbic Acid                                                  | Sigma             | A4544          |          |
| B-27 Supplement                                                | Life Technologies | 12587-010      |          |
| BD Cytofix/Cytoperm Buffer                                     | BD Bioscience     | 554722         |          |
| BD Perm/Wash buffer, 1x                                        | BD Bioscience     | 554723         |          |
| bFGF                                                           | R&D               | 233-FB         |          |
| CHIR990210                                                     | Tocris            | 4423a          |          |
| Dulbecco's Modified Eagle Medium (DMEM)                        | Life Technologies | 11995          |          |
| DNase I                                                        | VWR               | 80510-412      |          |
| Dorsomorphin                                                   | Sigma             | P5499          |          |
| EGF                                                            | R&D               | 236-EG         |          |
| Fetal Bovine Serum (FBS)                                       | Wisent            | 88150          |          |
| FGF10                                                          | R&D               | 345-FG         |          |
| Gelatin from porcine skin                                      | Sigma             | G1890          |          |
| Glutamine                                                      | Life Technologies | 25030          |          |
| Nicotinamide                                                   | Sigma             | NO636          |          |
| NOGGIN                                                         | R&D               | 3344-NG        |          |
| Penicillin/Streptomycin                                        | Life Technologies | 15070-063      |          |
| Retinoic acid                                                  | Sigma             | R2625          |          |
| RPMI Medium 1640                                               | Life Technologies | 11875          |          |
| SANT-1                                                         | Tocris            | 1974           |          |
| TrypLE Express Enzyme (1x), phenol red                         | Life Technologies | 12605-010      |          |
| <b>Antibodies for flow cytometry (working dilutions)</b>       |                   |                |          |
| CD117 PE (1:100)                                               | Life Technologies | CD11705        |          |
| CXCR4 APC (1:50)                                               | BD Bioscience     | 551966         |          |
| Donkey Anti-Mouse IgG (H+L), Alexa Fluor 647 conjugate (1:400) | Life Technologies | A-31571        |          |

|                                                     |                                          |             |  |
|-----------------------------------------------------|------------------------------------------|-------------|--|
| Donkey Anti-Goat IgG (H+L), Alexa Fluor 488 (1:400) | Jackson ImmunoResearch Laboratories Inc. | 705-546-147 |  |
| Isotype Control Mouse IgG                           | Jackson ImmunoResearch Laboratories Inc. | 015-000-003 |  |
| Isotype Control Goat IgG                            | R&D                                      | AB-108-C    |  |
| NKX6-1 (1:2,000)                                    | DSHB                                     | F55A10      |  |
| PDX1 (1:100)                                        | R&D                                      | AF2419      |  |