

Supplemental Table S2. Descriptions of Canonical Pathways Constructed by Genes Differentially Expressed in Each cloned Group

| Order | ALL | CU | SR | ES |
|-------|--|-------------------------------------|--|--|
| 1 | Role of Oct4 in Mammalian Embryonic Stem Cell Pluripotency | Glycerophospholipid Metabolism | Inositol Metabolism | RhoA Signaling |
| 2 | Leukocyte Extravasation Signaling | Amyloid Processing | LXR/RXR Activation | Role of Oct4 in Mammalian Embryonic Stem Cell Pluripotency |
| 3 | p53 Signaling | Wnt/ β -catenin Signaling | LPS/IL-1 Mediated Inhibition of RXR Function | NRF2-mediated Oxidative Stress Response |
| 4 | Nicotinate and Nicotinamide Metabolism | p53 Signaling | Arginine and Proline Metabolism | Type I Diabetes Mellitus Signaling |
| 5 | Actin Cytoskeleton Signaling | Tight Junction Signaling | Biosynthesis of Steroids | IL-9 Signaling |
| 6 | Fructose and Mannose Metabolism | HER-2 Signaling in Breast Cancer | RAR Activation | Huntington's Disease Signaling |
| 7 | G α 12/13 Signaling | Pancreatic Adenocarcinoma Signaling | Aryl Hydrocarbon Receptor Signaling | DNA Methylation and Transcriptional Repression Signaling |
| 8 | Riboflavin Metabolism | VDR/RXR Activation | NRF2-mediated Oxidative Stress | IL-8 Signaling |
| 9 | Human Embryonic Stem Cell | Interferon Signaling | Calcium Signaling | Type II Diabetes Mellitus Signaling |
| 10 | Methionine Metabolism | Glioblastoma Multiforme Signaling | Aminosugars Metabolism | Growth Hormone Signaling |