Supplement

Table1. The detail information of antibodies

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| **Name** | **Dilution/**  **Concentration** | **Company Cat # and RRID** |
| Rabbit anti-OCT4 | 1:200 | Abcam Cat# ab18976, RRID:AB\_444714 |
| Mouse anti-NESTIN | 1:200 | Abcam Cat# ab6320, RRID:AB\_308832 |
| Anti-SOX2 antibody | 1:500 | Abcam Cat# ab97959, RRID:AB\_2341193 |
| Mouse anti-PAX6 | 1:200 | Abcam Cat# ab78545, RRID:AB\_1566562 |
| Nuclei antibody [235-1] | 1:200 | GeneTex Cat# GTX82624, RRID:AB\_11162242 |
| GFAP Polyclonal Antibody | 1:300 | Thermo Fisher Scientific Cat# PA5-85109, RRID:AB\_2792257 |
| Neuron specific beta III Tubulin antibody - Neuronal Marker | 1:300 | Abcam Cat# ab18207, RRID:AB\_444319 |
| Goat anti-Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, FITC | 1:100 | Thermo Fisher Scientific Cat# F-2765, RRID:AB\_2536525 |
| Goat anti-Mouse IgG (H+L) Secondary Antibody, DyLight 594 | 1:200 | Thermo Fisher Scientific Cat# 35510, RRID:AB\_1185569 |
| ProLong® Gold Antifade Reagent with DAPI #8961 | —— | Cell signaling, Cat#8961 |