# Table S1. Compounds and reagents for differentiation and treatment

| Compounds/Reagents                        | Supplier            | Catalog Number |
|-------------------------------------------|---------------------|----------------|
| DMEM/F12 basal medium                     | ThermoFisher        | 11320033       |
| N2 Supplement                             | ThermoFisher        | 17502048       |
| B27 Supplement                            | ThermoFisher        | 12587-010      |
| Stemflex Medium Combo Kit                 | ThermoFisher        | A3349401       |
| Poly-L-ornithine                          | Sigma-Aldrich       | P3655          |
| Laminin mouse protein                     | Fisher Scientific   | 23017015       |
| Febronectin                                | Fisher Scientific   | 356008         |
| Matrigel Matrix                           | Corning             | 356234         |
| Neuronal basal medium                     | ThermoFisher        | 21103049       |
| Knockout DMEM                              | ThermoFisher        | 10829018       |
| Knockout serum replacement                 | ThermoFisher        | 10828028       |
| β-mercaptoethanol                         | ThermoFisher        | 21985023       |
| Glutamax                                  | ThermoFisher        | 35050061       |
| MEM nonessential amino acids              | ThermoFisher        | 11140050       |
| LDN-193189                                 | Selleck Chemical    | S7507          |
| SB431542                                   | Selleck Chemical    | S1067          |
| CHIR99021                                  | Selleck Chemical    | S1263          |
| SU5402                                     | Selleck Chemical    | SU5402         |
| DAPT                                       | Selleck Chemical    | S2215          |
| Recombinant Human NT3                     | PeproTech           | 450-03         |
| Recombinant Human GDNF                    | PeproTech           | 450-10         |
| Recombinant Human BDNF                    | PeproTech           | 450-02         |
| Recombinant Murine beta-NGF               | PeproTech           | 450-34         |
| Y27632                                     | Selleck Chemical    | S1049          |
| α,β-me-ATP                                | Sigma-Aldrich       | M6517          |
| Capsaicin                                  | EMD Millipore       | 211275         |
| Glutamate                                  | Sigma-Aldrich       | G3291          |
| KCl                                        | Sigma-Aldrich       | P5405          |
| Mitomycin C                               | Sigma-Aldrich       | M4287          |
| Paclitaxel                                 | Sigma-Aldrich       | T7402          |
| Docetaxel                                  | Sigma-Aldrich       | 01885          |
| Vincristine                                | Sigma-Aldrich       | V8388          |
| Bortezomib                                 | Selleck Chemicals   | S1013          |
| Hydroxyurea                                | Sigma-Aldrich       | H8627          |
### Table S2. Antibodies for immunocytochemistry

| Antibody Name | Dilution | Host     | Supplier     | Catalog Number |
|---------------|----------|----------|--------------|----------------|
| SOX10         | 1: 500   | Goat     | Santa Cruz   | SC17342        |
| PAX6          | 1: 500   | Rabbit   | Covance      | PRB-278P       |
| TUBB3         | 1: 1000  | Mouse    | Covance      | MMS-435P       |
| TUBB3         | 1: 1000  | Rabbit   | Covance      | MRB-435P       |
| Peripherin    | 1: 500   | Goat     | Santa Cruz   | SC7604         |
| Brn3A         | 1: 500   | Mouse    | Millipore    | Mab1585        |
| TRPV1         | 1: 200   | Guinea pig | ThermoFisher | PA1-29770     |
| TRKA          | 1: 50    | Rabbit   | Alomone Labs | ANT-018        |
| TRKB          | 1: 50    | Rabbit   | Alomone Labs | ANT-019        |
| TRKC          | 1: 50    | Rabbit   | Alomone Labs | ANT-020        |
| Goat anti-mouse Ig G | 1: 1000 | Goat     | ThermoFisher | A11029        |
| Chicken anti-goat Ig G | 1: 1000 | Chicken  | ThermoFisher | A21468        |
| Goat anti-guniea pig Ig G | 1: 1000 | Goat     | ThermoFisher | A11076        |
| Goat anti-rabbit Ig G (Alexa) | 1: 1000 | Goat     | ThermoFisher | A11011        |

### Table S3. Taqman probes for qPCR

| Gene   | Probe ID       |
|--------|----------------|
| NANOG  | Hs02387400_g1 |
| OCT4   | Hs00999632_g1 |
| SOX10  | Hs00366918_m1 |
| PAX6   | Hs01088114_m1 |
| TUBB3  | Hs00801390_s1 |
| TAC1   | Hs00243225_m1 |
| NTRK1  | Hs01021011_m1 |