|  |
| --- |
| **Key Resources Table** |
| **Reagent type (species) or resource** | **Designation** | **Source or reference** | **Identifiers** | **Additional information** |
| Antibody | Rabbit polyclonal anti-Sox9 | Sigma-Aldrich | HPA001758, RRID:AB\_1080067 | 1:300 |
| Antibody | Rat monoclonal anti-RFP | ChromoTek | 5F8, RRID:AB\_2336064 | 1:500 |
| Antibody | Chicken polyclonal anti-GFP | Aves Labs | GFP-1020,RRID:AB\_10000240 | 1:500 |
| Antibody | Rabbit polyclonal anti-Ki67 | Abcam | ab15580, RRID:AB\_443209 | 1:200 |
| Antibody | Mouse monoclonal anti-PCNA  | Millipore  | CBL407, RRID:AB\_93501 | 1:300 |
| Antibody | Goat polyclonal anti-Sox2  | Santa Cruz Biotechnology | sc-17320,RRID:AB\_2286684 | 1:200 |
| Antibody | Rabbit polyclonal anti-Tbr2 | Abcam | ab23345, RRID:AB\_778267 | 1:200 |
| Antibody | Sheep polyclonal anti-Tbr2 | R and D Systems | AF6166, RRID:AB\_10569705 | 1:500 |
| Antibody | Mouse monoclonal anti-Olig2 | Millipore | MABN50, RRID:AB\_10807410 | 1:200 |
| Antibody | Mouse monoclonal anti-NeuN | Millipore | MAB377, RRID:AB\_2298772 | 1:200 |
| Antibody | Rat monoclonal anti-phosphohistone H3 | Abcam | ab10543, RRID:AB\_2295065 | 1:500 |
| Antibody | Mouse monoclonal anti-phosphovimentin | Abcam | ab22651, RRID:AB\_447222 | 1:300 |
| Antibody | Mouse monoclonal anti-Satb2 | Abcam | ab51502, RRID:AB\_882455 | 1:300 |
| Antibody | Rabbit monoclonal anti-Tbr1 | Abcam | ab31940, RRID:AB\_2200219 | 1:200 |
| Antibody | Rabbit polyclonal anti-Pax6 | Covance | PRB-278P, RRID:AB\_291612 | 1:200 |
| Antibody | Goat polyclonal anti- Rabbit Alexa Fluor 405 | ThermoFisher Scientific | A31556, RRID:AB\_221605 | 1:500 |
| Antibody | Donkey polyclonal anti- Rabbit Alexa Fluor 488 | ThermoFisher Scientific | A21206, RRID:AB\_141708 | 1:500 |
| Antibody | Goat polyclonal anti- Chicken Alexa Fluor 488 | ThermoFisher Scientific | A11039, RRID:AB\_142924 | 1:500 |
| Antibody | Donkey polyclonal anti-Mouse Alexa Fluor 555 | ThermoFisher Scientific | A31570, RRID:AB\_2536180 | 1:500 |
| Antibody | Goat polyclonal anti-Rat Alexa Fluor 555 | ThermoFisher Scientific | A21434, RRID:AB\_141733 | 1:500 |
| Antibody | Donkey polyclonal anti-Sheep Alexa Fluor 555 | ThermoFisher Scientific | A-21436, RRID:AB\_2535857 | 1:500 |
| Antibody | Donkey polyclonal anti-Rabbit Alexa Fluor 647 | ThermoFisher Scientific | A-31573, RRID:AB\_2536183 | 1:500 |
| Antibody | Goat polyclonal anti-Rat Alexa Fluor 647 | ThermoFisher Scientific | A-21247, RRID:AB\_141778 | 1:500 |
| Antibody | Donkey polyclonal anti-Goat Alexa Fluor 647 | ThermoFisher Scientific | A21447, RRID:AB\_141844 | 1:500 |
| Antibody | Donkey polyclonal anti-Mouse Alexa Fluor 647 | ThermoFisher Scientific | A31571, RRID:AB\_162542 | 1:500 |
| Biological sample (*Homo Sapiens*) | Human fetal brain tissue | Klinik und Poliklinik für Frauenheilkunde und Geburtshilfe, Universitätsklinikum Carl Gustav Carus of the Technische Universität Dresden |  |  |
| Biological sample (*Homo Sapiens*) | Human fetal brain tissue | Novogenix Laboratories |  |  |
| Commercial assay or kit | Click-iT EdU Alexa Fluor 647 Imaging Kit | Invitrogen |  C10340 |   |
| Commercial assay or kit | Maxi Prep Kit | Qiagen | Cat#12362 |  |
| Commercial assay or kit | RNeasy Micro Kit | Qiagen | Cat#74004 |  |
| Commercial assay or kit | MACS Neural Tissue Dissociation kit (P) | Miltenyi Biotec | Cat#130-092-628 |  |
| Peptide, recombinant protein | Human recombinant laminin 211 | BioLamina |  LN211 | 0.1 mg/ml |
| Peptide, recombinant protein | Native human Collagen IV (FAM) | Abcam | ab123531 | 0.1 mg/ml |
| Recombinant DNA reagent | pCAGGS-LoxP-membraneGAP43-GFP-LoxP-IRES-nRFP  | Wong et al., 2015 |   |   |
| Recombinant DNA reagent | pCAGGS-LoxP-membraneGAP43-GFP-LoxP-Sox9-IRES-nRFP | This paper |  | See Materials and Methods section, and Fig. 4 |
| Recombinant DNA reagent | FUW-TetO-Sox9 plasmid | Addgene | Cat#41080 |  |
| Recombinant DNA reagent | LacZ CRISPR/Cas9 plasmid | Kalebic et al., 2016 |  |  |
| Recombinant DNA reagent | Sox9 KO CRISPR/Cas9 plasmid | This paper |  | See Materials and Methods section, and Fig. 3 Supplement 1 |
| Sequence-based reagent | **Sox9-F** AGGAAGCTGGCAGACCAGT | This paper |   | Oligonucleotide |
| Sequence-based reagent | **Sox9-R** CTCCTCCACGAAGGGTCTCT | This paper |   | Oligonucleotide |
| Sequence-based reagent | **Olig2-F:** CCCCAGGGATGATCTAAGC | This paper |  | Oligonucleotide |
| Sequence-based reagent | **Olig2-R:** CAGAGCCAGGTTCTCCTCC | This paper |  | Oligonucleotide |
| Sequence-based reagent | **Tbr2-F:** GACCTCCAGGGACAATCTGA | This paper |  | Oligonucleotide |
| Sequence-based reagent | **Tbr2-R:** GTGACGGCCTACCAAAACAC | This paper |  | Oligonucleotide |
| Sequence-based reagent | **Gapdh-F:** TGAAGCAGGCATCTGAGGG | This paper |  | Oligonucleotide |
| Sequence-based reagent | **Gapdh-R:** CGAAGGTGGAAGAGTGGGAG | This paper |  | Oligonucleotide |
| Software, algorithm | Prism | GraphPad |  |  |
| Software, algorithm | ZEN | Carl Zeiss |  |  |
| Software, algorithm | Fiji/ImageJ | Fiji/ImageJ |  | https://imagej.net/Fiji |
| Software, algorithm | R Software | R project |  | https://www.r-project.org/ |
| Software, algorithm | DAVID | Laboratory of Immunopathogenesis and Bioinformatics |  | https://david.ncifcrf.gov/ |
| Software, algorithm | Enrichr | Ma'ayan Lab |  | https://amp.pharm.mssm.edu/Enrichr/ |
| Strain, strain background (*Mustela* *putorius furo*) | Ferret | Marshall Bioresources |   |   |
| Strain, strain background (*Mustela* *putorius furo*) | Ferret | EuroFerret |  |  |
| Strain, strain background (*Mus Musculus*) | *Tis21*-CreERT2 transgenic mice | Wong et al., 2015 |  |  |
| Strain, strain background (*Mus Musculus*) | C57BL/6JOlaHsd | Envigo |  |  |