

Supplementary material.

Gliogenic Potential Of Single Pallial Radial Glial Cells in Lower Cortical Layers

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Table S1. Clones analyzed in the progeny of E14-GFAP-progenitor cells

| Animal | Clone_digital code * | Clone cell type | Clone type | Clonal size | Number cells and location ** | R-C dispersión *** | Cortical dispersion **** | IHC ***** |
|--------|----------------------|-----------------|---------------|-------------|------------------------------|--------------------|--------------------------|-------------------------------------|
| A1 | 10a_103056 103056 | Astrocytes | uniform clone | 22 | 4- UL; 18-LL | 150 | LL+UL | Olig2 |
| A1 | 1c_120000 003056 | Astrocytes | uniform clone | 7 | 6-LL | 100 | LL | Olig2 |
| A1 | 2a_003006 003056 | Astrocytes | uniform clone | 10 | 10-LL | 250 | LL | Olig2; NeuN |
| A1 | 4a_000400 120400 | Astrocytes | uniform clone | 20 | 7-UL; 13-LL | 300 | LL+UL | Olig2; NeuN; APC |
| A1 | 9a_123056 123456 | Astrocytes | uniform clone | 30 | 30- LL | 250 | LL | NeuN; S100 β ; PDGFR α |
| A2 | 4a_120000 123400 | Astrocytes | uniform clone | 7 | 7-LL | 150 | LL | APC |
| A2 | 5b_123000 123006 | Astrocytes | uniform clone | 4 | 4-LL | 50 | LL | S100 β |
| A2 | 6a_003000 000406 | Astrocytes | uniform clone | 14 | 10-UL; 4 LL | 150 | LL+UL | Olig2; APC |
| A3 | 10a_123000 12000 | Astrocytes | uniform clone | 6 | 5-UL; 1-LL | 200 | LL+UL | Olig2; S100 β |
| A3 | 12c_000056 120056 | Astrocytes | uniform clone | 8 | 8_LL | 100 | LL | S100 β |
| A2 | 2b_000400 003456 | Astrocytes | uniform clone | 6 | 2-UL; 4-LL | 100 | LL+UL | PDGFR α |
| A2 | 8a_100000 000456 | Astrocytes | uniform clone | 12 | 7-UL; 5-LL | | LL+UL | APC; Olig2 |
| A1 | 4b_120000 000400 | NG2-glia | uniform clone | 18 | 8-LL; 3-CC | 150 | LL + CC | Olig2; PDGFFR α ; APC |
| A1 | 6a_003400 000400 | NG2-glia | uniform clone | 11 | 11-LL | 50 | LL | Olig2 |
| A1 | 7a_020006 000406 | NG2-glia | uniform clone | 29 | 29-LL | 250 | LL | Olig2-APC-S100 β |
| A1 | 9b_123000 100456 | NG2-glia | uniform clone | 5 | 5-LL | 50 | LL | PDGFR α |
| A2 | 10a_000000 123000 | NG2-glia | uniform clone | 14 | 14-LL | 50 | LL | PDGFR α |
| A2 | 1a_103000 023456 | NG2-glia | uniform clone | 21 | 22-LL | 100 | LL | S100 β |

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|--------|----------------------|-------------------------------|---------------|-------------|-------------------------------|--------------------|--------------------------|---|
| A2 | 5a_120006 123006 | NG2-glia | uniform clone | 32 | 30-LL | 100 | LL+UL | PDGFR α , Olig2 |
| A2 | 8b_100000 100456 | NG2-glia | uniform clone | 11 | 11-LL | 100 | LL | Olig2 |
| A2 | 9a_023000 000400 | NG2-glia | uniform clone | 5 | 5-LL | 50 | LL | S100 β |
| A3 | 15a_000400 000456 | NG2-glia | uniform clone | 21 | 24-LL | 300 | LL | Olig2; S100 β |
| A3 | 15b_000456 000450 | NG2-glia | uniform clone | 12 | 6-LL; 6-CC | 50 | LL + CC | Olig2, PDGFR α |
| A3 | 4b_003406 000050 | NG2-glia | uniform clone | 11 | 12-LL | 50 | LL | Olig2 |
| A3 | 4c_000400 003456 | NG2-glia | uniform clone | 22 | 22-LL | 200 | LL | Olig2, APC; PDGFR α |
| A3 | 5a_100000 000400 | NG2-glia | uniform clone | 7 | 7_LL | 150 | LL | PDGFR α |
| A3 | 6c_123400 100056 | NG2-glia | uniform clone | 7 | 2-LL; 4-CC | 100 | LL | Olig2 |
| A1 | 1a_000000 123056 | Oligodendrocytes | uniform clone | 12 | 11-LL | 200 | LL | APC; Olig2; PDGFR α ; S100 β |
| A2 | 1b_100006 123456 | Oligodendrocytes | uniform clone | 19 | 10-LL; 8-CC | 50 | LL + CC | S100 β |
| A2 | 2a_003000 000456 | Oligodendrocytes | uniform clone | 7 | 7-LL | 50 | LL | PDGFR α |
| A2 | 9a_023000 000400 | Oligodendrocytes | uniform clone | 5 | 5-LL | 50 | LL | PDGFR α |
| A3 | 12d_100000 120056 | Oligodendrocytes | uniform clone | 13 | 3-LL; 10-CC | 150 | LL + CC | S100 β |
| A3 | 14a_120000 120006 | Oligodendrocytes | uniform clone | 23 | 6-LL; 17-CC | 200 | LL + CC | S100 β , PDGFR α |
| A3 | 16a_020400 003456 | Oligodendrocytes | uniform clone | 7 | 7-LL | 100 | LL | Olig2, PDGFR α |
| A3 | 6a_100006 123456 | Oligodendrocytes | uniform clone | 4 | 4-LL | 50 | LL | S100 β |
| A1 | 1b_120006 103050 | NG2-glia +Oligodendrcoytes | uniform clone | 19 | NG2glia: 7-CC + OLs: 11-LL | 150 | LL+UL | APC |
| A3 | 3a_100006 123456 | NG2-glia +Oligodendrcoytes | uniform clone | 22 | NG2glia: 19-UL + OLs: 3-LL | 150 | LL | S100 β ; Olig2 |

| Animal | Clone_digital code * | Clone cell type | Clone type | Clonal size | Number cells and location ** | R-C dispersión *** | Cortical dispersion **** | IHC ***** |
|--------|----------------------|----------------------------|---------------|-------------|--|--------------------|--------------------------|--|
| A2 | 8b_100000 100456 | NG2-glia +Oligodendrocytes | uniform clone | 10 | NG2glia: 6_LL + OLs: 4- CC | 100 | LL + CC | PDGFR α ; |
| A2 | 12a_ 100400 120456 | NG2-glia +Oligodendrocytes | uniform clone | 23 | NG2glia:18-LL+ OL:5-CC | 100 | LL+CC | S100 β ; Olig2 |
| A3 | 13a_000006 000400 | NG2-glia +Oligodendrocytes | uniform clone | 15 | NG2glia: 5-LL + OLs: 10-UL | 100 | LL | S100 β ; APC |
| A1 | 5a_000056 103456 | NG2glia + Astrocytes | mixed clone | 11 | Ast: 9-LL; 3-UL + NG2glia: 5-LL | 250 | LL+UL | S100 β ; APC |
| A2 | 3a_120000 100000 | NG2glia + Astrocytes | mixed clone | 49 | Ast: 8-UL; 21-LL;3-CC + NG2glia: 13-LL; 7 CC | 350 | LL+UL | S100 β , APC, PDGFR α , Olig2 |
| A2 | 7a_000006 003056 | NG2glia + Astrocytes | mixed clone | 38 | Ast: 3-UL + NG2glia: 30-LL; 5-CC | 300 | LL+UL | S100 β ; Olig2 |
| A1 | 3a_000000 103006 | OLs + Astrocytes | mixed clone | 15 | Ast.: 2-UL; 6-LL + OL: 7-CC | 250 | LL + CC | APC; S100 β |
| A3 | 1a_120406 123406 | OLs + Astrocytes | mixed clone | 11 | Ast: 6-LL + OL: 5-CC | 150 | LL + CC | S100 β ; Olig2; APC |
| A3 | 8a_100400 020400 | OLs + Astrocytes | mixed clone | 12 | Ast: 6-UL + OL: 6-LL | 100 | LL + CC | Olig2; S100 β |

* Twelve number code of the presence of YFP-1, mKO-2, mCerulean-3, mCherry-4, mT-sapphire-5, EGFP-6 or absence-0, first cytoplasm and later nuclear.

** Number of cells located in upper cortical layers (UL), lower cortical layers (LL) or corpus callosum (CC).Ast: astrocytes; OL: oligodendrocytes.

*** Total distance between the first and the last cells that compose a clone, considering that thickness of the sections are 50 μ m.

**** Dispersion of sibling cells that compose a clone in cortical layers.

***** Immunohistochemistry in section where sibling cells are located that help to corroborate or discard the cell type identified with morphological characteristics.