

Supplementary Figure 1. Marker expression analysis of aRGC, bRGC and StC 7 cells. (a,b) Examples of StC cells at P14 expressing Olig2 or GFAP, and 8 quantification (n = 47 cells, Olig2; 47 cells, GFAP; 2 kits per group). (**c-e**) GFP+ 9 bRGCs in ISVZ at P6 labeled after ventricular injection of rv:: Gfp at P1, displaying 10 PhVim label without or with a basal process, and relative abundance (n = 54 cells, 4 11 animals; mean value). (f-j) PhVim+ cells in VZ, ISVZ and OSVZ at P6 and E38, 12 without or with a basal process, expressing Pax6 or Tbr2, and relative abundance (i) 13 14 (P6: Pax6, n = 788 cells in VZ, 692 cells in ISVZ, 292 cells in OSVZ, 3 animals; Tbr2, n = 514 cells in VZ, 1,012 cells in ISVZ, 526 cells in OSVZ, 3 animals. E38: Pax6, n15 = 126 cells in VZ, 215 cells in ISVZ, 118 cells in OSVZ, 3 animals; Tbr2, n = 456 cells 16 in VZ, 420 cells in ISVZ, 237 cells in OSVZ, 3 animals; mean values + s.e.m.). Detail 17 images demonstrating co-localization are single confocal planes. Scale bars, 10 µm. 18

### 20 Martínez-Martínez et al., Supplementary Figure 2



Supplementary Figure 2. Laminar distribution and types of cells in postnatal 26 27 lineages. (a,b) Laminar distribution of GFP+ cells after injection of rv:: Gfp in VZ (lateral ventricle), ISVZ or OSVZ at P1, and analysis at the indicated postnatal ages. 28 (c) Relative abundance of non-RGC GFP+ cells within the indicated cortical layers 29 bearing the identified morphologies at the indicated postnatal ages after injection of 30 rv:: Gfp at P1 in VZ (lateral ventricle), in ISVZ or in OSVZ. (d) Relative abundance of 31 GFP+ MN and MP cells in the neocortex at the indicated postnatal ages after 32 33 injection of rv:: Gfp at P1 in VZ, ISVZ or OSVZ. Data are mean values ± s.e.m. Number of cells and animals analyzed is: infection of VZ, n = 1,094 cells, 4 animals, 34 P3; 5,544 cells, 4 animals, P6; 1,499 cells, 5 animals, P10; 4,196 cells, 3 animals, 35 P14. Injection in ISVZ, n = 962 cells, 2 animals, P3; 1,063 cells, 2 animals, P6; 2,705 36 cells, 3 animals, P10; 3,107 cells, 2 animals, P14. Injection in OSVZ: n = 420 cells, 2 37 animals, P3; 1,092 cells, 3 animals, P6; 3,742 cells, 3 animals, P10; 1,663 cells, 2 38 animals, P14. IZ, intermediate zone; CP, cortical plate. 39

- 41 Martínez-Martínez et al., Supplementary Figure 3



**Supplementary Figure 3.** Intermediate Progenitor Cells are scarce in the gyrated 47 ferret cortex. (a-d) GFP-labeling of MP and MN cells after intraventricular delivery of 48 rv:: Gfp at P1 and analysis at P6. All MP cells were positive for Tbr2 but few for Ki67 49 (**b**,**d**; n = 15 cells, 3 animals, Ki67; 17 cells, 3 animals, Tbr2), while few MN cells 50 51 were Tbr2+ and none were Ki67+ (c,d; n = 38 cells, 3 animals, Ki67; 40 cells, 3 animals, Tbr2; mean values + s.e.m.). (e-h) GFP-labeling of mouse MP and MN 52 cells after intraventricular delivery of rv:: Gfp in utero at E14.5 and analysis at E16.5, 53 stages of cortical development equivalent to P1-P6 in ferret. Arrows in (g) indicate 54 Ki67+ MP cells. (h) The abundance of MP cells (total) and Ki67+ MP cells in mouse 55 was much higher than in ferret (Mouse: MP, n = 338 cells, 7 embryos; Ki67+ MP, n =56 76 cells, 7 embryos. Ferret: MP, n = 5,544 cells, 4 animals; Ki67+ MP, n = 15 cells, 3 57 (i-o) Ferrets were electroporated with Gfp-encoding DNA at P1 and 58 animals). analyzed at P3 or P8. (k,l) Examples of MN (k) and MP (l) cells at P8 negative for 59 Ki67. (m,n) Abundance of GFP+ MP and MN cells at P3 and P8, showing that very 60 few GFP+ cells in ISVZ and OSVZ were MP at both stages, although their frequency 61 was higher after electroporation than after rv:: Gfp infection (compare to h) (P3: n =62 63 1,749 cells, ISVZ; 39 cells, OSVZ; 3 animals per group. P8: n = 2,314 cells, ISVZ; 3,799 cells, OSVZ; 4 animals per group). (o) Quantification of GFP+ MP and MN 64 65 cells within ISVZ and OSVZ positive for Ki67, demonstrating that very few MP and nearly none of the MN cells were Ki67+ (ISVZ, n = 172 cells, MP; 112 cells, MN; 66 67 OSVZ, n = 38 cells, MP; 282 cells, MN; 3 animals per group). Scale bars in **b**,**c**, 10 μm; in **f**, 30 μm; in **j**, 150 μm; in **k**, 5 μm; in **l**, 20 μm. 68

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Supplementary Figure 4. Transient increase of horizontal mitotic cleavage planes in VZ progenitors at E34. Distribution of orientations for apical mitoses in VZ with respect to the Radial Fiber scaffold (RF), and for basal mitoses in ISVZ and OSVZ with respect to RF, across embryonic stages. Each dot represents 2% of mitoses (VZ: n = 91 cells, 8 embryos, E30; 90 cells, 2 embryos, E34; 124 cells, 2 embryos, E36; 69 cells, 3 embryos, E38. ISVZ: n = 128 cells, 8 embryos, E30; 40 cells, 2 embryos, E34; 96 cells, 2 embryos, E36; 81 cells, 3 embryos, E38. OSVZ: *n* = 49 cells, 2 embryos, E36; 61 cells, 3 embryos, E38). Horizontal cleavage planes in VZ mitoses doubled in abundance transiently at E34, coincident with the onset of bRGC peak production.



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**Supplementary Figure 5.** Comparison of differentially-expressed gene sets and functional gene annotation between Trnp1 knock-down microarray data (Trnp1 KD) from ref. <sup>1</sup> and microarray data from this study. (a) None of the "early-change" genes or "late-change" genes identified in this study was reported as differentially expressed upon Trnp1 knock-down in mouse cortex. (b) Top five clusters of functional gene annotation terms with the highest enrichment scores for up- (red) and down-regulated (blue) genes upon Trnp1 knock-down.

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# 111 Supplementary Table 1 - Number of cells and animals analyzed for each

# survival period in the quantification of cell lineages shown in Figure 4.

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Layer of rv:: <i>Gfp</i> delivery	Age	P1-P3	P1-P6	P1-P10	P1-P14
VZ	N cells	1,094	5,544	1,499	4,196
	N kits	4	4	5	3
10)/7	NI II.	000	4 0 0 0	0 705	0.407
ISVZ	IN CEIIS	962	1,063	2,705	3,107
	N kits	2	2	3	2
	1	n	r	1	
OSVZ	N cells	420	1,092	3,742	1,663
	N kits	2	3	3	2

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		Fold	
Gene Name	ProbeiD	Change	adj.P.Value
LYPD1	CUST_10832_PI427051300	4.30	1.51E-02
LYPD1	CUST_10833_PI427051300	4.29	2.15E-02
SLITRK2	CUST_34563_PI427051300	3.77	1.32E-02
SLITRK2	CUST_43074_PI427051300	3.53	1.32E-02
SLITRK2	CUST_34561_PI427051300	3.49	2.73E-02
SLITRK2	CUST_34560_PI427051300	3.46	1.40E-02
FAM167A	CUST_6407_PI427051300	2.36	1.51E-02
VCAM1	CUST_36846_PI427051300	2.08	1.32E-02
LOC100127983	CUST_10110_PI427051300	-2.05	4.85E-02
FRZB	CUST_7108_PI427051300	-2.13	4.62E-02
DCN	CUST_25383_PI427051300	-2.19	2.23E-02
WLS	CUST_21015_PI427051300	-2.33	1.57E-02
AHR	CUST_22367_PI427051300	-2.33	1.51E-02
ZFPM2	CUST_37486_PI427051300	-2.43	1.51E-02
SUSD1	CUST_18556_PI427051300	-2.44	2.23E-02
INA	CUST_8983_PI427051300	-2.46	2.86E-02
EDN3	CUST_5627_PI427051300	-2.60	1.32E-02
SLIT1	CUST_17682_PI427051300	-2.79	2.49E-02
EFNA5	CUST_26045_PI427051300	-2.95	1.77E-02
PTPRE	CUST_32592_PI427051300	-3.62	5.86E-03
COL21A1	CUST_4155_PI427051300	-3.74	2.41E-02

### 116 Supplementary Table 2 - List of genes with "Early" change profile.

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List of genes with "Early" change profile in ferret VZ (different between E30 and E34,

but not between E34 and P1), indicating microarray probe identification, value of fold-

120 change (E34 to E30) and adjusted *p* value.

# 122 Supplementary Table 3 - List of genes with "Late" change profile.

Gene Name	ProbeID	Fold Change	adj.P.Value
APOE	CUST_989_PI427051300	17.85	2.78E-06
APOE	CUST_988_PI427051300	16.05	1.42E-06
CTSW	CUST_4601_PI427051300	15.08	3.07E-03
GJB6	CUST_7477_PI427051300	13.08	1.69E-06
SLC7A11	CUST_17633_PI427051300	12.02	2.98E-04
ZCCHC24	CUST_21239_PI427051300	11.42	1.80E-04
ZCCHC24	CUST_21240_PI427051300	11.06	5.21E-05
LOC480072	CUST_41591_PI427051300	9.73	9.11E-05
TRIL	CUST_19952_PI427051300	9.51	2.79E-05
KLF9	CUST_28985_PI427051300	9.48	4.82E-05
BATF2	CUST_1620_PI427051300	9.43	8.91E-05
BBOX1	CUST_1626_PI427051300	9.31	5.17E-04
PID1	CUST_13954_PI427051300	9.26	1.80E-04
TRIL	CUST_19950_PI427051300	9.07	6.56E-05
MGLL	CUST_11413_PI427051300	8.86	4.82E-05
OLIG1	CUST_13076_PI427051300	8.79	6.39E-04
AQP4	CUST_22747_PI427051300	8.74	2.63E-03
GJB6	CUST_7478_PI427051300	8.61	1.42E-06
LTBP1	CUST_29561_PI427051300	8.48	6.78E-03
TIMP3	CUST_19212_PI427051300	8.46	3.68E-05
ZDHHC17	CUST_37412_PI427051300	8.15	5.56E-03
RFTN2	CUST_33105_PI427051300	7.99	1.65E-03
GHRL	CUST_7445_PI427051300	7.92	2.10E-03
C21orf63	CUST_2380_PI427051300	7.71	7.82E-05
MIER1	CUST_30123_PI427051300	7.65	3.10E-03
SCRG1	CUST_16613_PI427051300	7.61	5.24E-05
SMOX	CUST_34688_PI427051300	7.39	5.43E-03
LTBP1	CUST_29563_PI427051300	7.24	2.00E-03
NR1D1	CUST_12809_PI427051300	7.10	2.64E-03
FAM19A3	CUST_6464_PI427051300	6.87	8.97E-04
TRNP1	CUST_20041_PI427051300	2.86	2.44E-04
GTPBP8	CUST_8086_PI427051300	-5.25	1.68E-03
CSRP2	CUST_4506_PI427051300	-5.27	8.98E-04
CSRP2	CUST_4509_PI427051300	-5.27	2.40E-03
ATP11A	CUST_23113_PI427051300	-5.32	1.44E-02
HIF1AN	CUST_8349_PI427051300	-5.36	1.55E-02
HBD	CUST_27715_PI427051300	-5.37	7.60E-03
HIF1AN	CUST_8350_PI427051300	-5.38	1.78E-02
LRTOMT	CUST_10747_PI427051300	-5.40	1.40E-02
PRR13	CUST_14866_PI427051300	-5.41	9.19E-03
RBM10	CUST_32930_PI427051300	-5.41	1.76E-03

KCTD21	CUST_9436_PI427051300	-5.48	4.52E-03
DCC	CUST_4889_PI427051300	-5.56	3.26E-04
CXCR7	CUST_4677_PI427051300	-5.58	1.58E-03
HBM	CUST_8197_PI427051300	-5.58	5.64E-03
C14orf101	CUST_23694_PI427051300	-5.65	3.08E-03
FKBP4	CUST_6948_PI427051300	-5.68	3.92E-03
GRB10	CUST_7910_PI427051300	-5.86	1.36E-03
MTCH2	CUST_30311_PI427051300	-5.90	3.09E-03
NARS2	CUST_12260_PI427051300	-5.99	2.29E-03
JPH3	CUST_9259_PI427051300	-6.39	5.91E-03
HBA1	CUST_8191_PI427051300	-6.63	4.64E-04
MTCH2	CUST_30310_PI427051300	-6.69	3.94E-03
MTCH2	CUST_30309_PI427051300	-6.76	5.06E-03
NEUROD6	CUST_12506_PI427051300	-7.34	3.67E-04
HBA1	CUST_8192_PI427051300	-7.42	1.04E-03
HBM	CUST_8196_PI427051300	-7.45	1.55E-03
OBFC2A	CUST_31172_PI427051300	-8.20	5.59E-04
C3orf63	CUST_23857_PI427051300	-8.32	8.88E-04
NDNF	CUST_12338_PI427051300	-9.73	1.69E-06
CXCR7	CUST_4678_PI427051300	-16.11	1.11E-05

List of genes with "Late" change profile in ferret VZ (different between E34 and P1,

but not between E30 and E34) indicating microarray probe identification number,

value of fold-change (P1 compared to E34) and adjusted *p* value. Only the top 30

127 probes with highest positive fold-change, 30 with highest negative, plus TRNP1, are

included.

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# 131 Supplementary Table 4 - Number of cells and animals analyzed for each

# survival period in the quantification of cell lineages shown in Figures 6 and 7.

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	Age	Treatment	N cells	N embryos
Trnp1	E34-E36	Control	931	8
overexpression		Trnp1	302	7
Trnp1	P1-P3	Control	1,094	4
blockade		DN-Trnp1	731	2
Trnp1	E34-P0	Control	613	3
overexpression		Trnp1	211	4
Cdh1	E30-E32	Control	866	2
DIOCKADE		DIN-Can'i	1,001	2
Cdh1	E34-E36	Control	1,111	3
overexpression		Cdh1	954	2

#### 138 Supplementary Note

#### 139 PhVim labeling does not faithfully recapitulate progenitor cell morphology

140 Our marker expression analyses demonstrated that the vast majority of GFP+ cells morphologically identified as aRGCs and bRGCs were positive for Ki67 and Pax6, and in 141 142 addition that 23.7% of aRGCs and 34.3% of bRGCs also expressed Tbr2 (Fig. 1). This was surprising because in mouse Tbr2 is a marker of IPCs but not RGCs<sup>2-4</sup>, also reported 143 previously in ferret and human<sup>5-8</sup>. However, these observations were fully consistent with 144 more recent analyses in macaque embryos<sup>9</sup>. To confirm these findings we performed anti-145 phosphovimentin (PhVim) stains. PhVim is commonly used to identify the morphology of 146 progenitor cells at mitosis, thus to distinguish progenitor cells with a basal process (putative 147 RGCs) from those without one (putative IPCs) $^{4-6,10-14}$ . First we investigated the pattern of 148 PhVim labeling in morphologically-identified GFP+ bRGCs. Unexpectedly, we found that of 149 all GFP+ bRGCs positive for PhVim (in mitosis), only 56.9% had a basal process, whereas 150 43.1% lacked a PhVim+ basal process (Supplementary Fig. 1c-e). To reconcile these results 151 152 with our above marker expression analyses, we studied the expression of Pax6 and Tbr2 in 153 PhVim+ cells with and without a basal process. At two different developmental stages we found nearly identical results, and very similar to our above analyses using rv:: Gfp: Pax6 was 154 155 expressed by 96.0-100% of cells with a PhVim+ basal process, but then also by 90-100% of cells without a PhVim+ basal process (Supplementary Fig. 1f,g,j). Similarly, Tbr2 was 156 157 expressed at similar frequencies by cells with and without a PhVim+ basal process in all three germinal layers (Supplementary Fig. 1h-j). This was contrary to mouse, where bRGCs are 158 Pax6+/Tbr2-, and IPCs are mostly Pax6-/Tbr2+ $^{2,4,15}$ . These results demonstrated that PhVim 159 labeling patterns do not recapitulate progenitor cell morphology, and also that bRGCs in 160 161 gyrencephalic species are molecularly diverse, varying in Tbr2 expression and PhVim pattern. 162 In addition, the frequent expression of Tbr2 in bRGCs suggested that these might be the main neurogenic progenitors in the ferret cortex as recently shown in macaque embryos, where 163 164 IPCs are very scarce as we found in ferret<sup>9</sup>.

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### 166 **IPCs are very scarce in ferret**

Our cell lineage tracing experiments in early postnatal ferrets labeled a variety of cell types 167 168 across cortical layers that included, in addition to aRGCs and bRGCs, cells with multipolar 169 morphology (MP), bipolar cells resembling migrating neurons (MN), differentiating neurons 170 with a branched apical dendrite (DN) and cells with a star-like morphology (StC), the latter including cells in the astrocyte and oligodendrocyte lineages (Fig. 1, Supplementary Fig. 171 172 **1a,b**). All these cell types were revealed by GFP regardless of the layer of rv::*Gfp* delivery, 173 progressively accumulated in IZ and CP at late stages (Supplementary Fig. 2a,b), and systematically predominated in the OSVZ and IZ/CP, particularly MNs and DNs 174 175 (Supplementary Fig. 2c). As expected, DNs were only found in the upper CP and increased in abundance at later stages (P14; Supplementary Fig. 2c). 176

MP cells had the typical morphology of IPCs <sup>16,17</sup>, but their relative abundance was 177 very low (<7% of GFP+ cells; **Supplementary Fig. 2c,d**), especially considering that many 178 cells in GFP+ clones eventually differentiated as neurons (Supplementary Fig. 2c). 179 Moreover, SVZ cells with multipolar morphology include IPCs and newborn neurons<sup>18</sup>. To 180 181 specifically identify IPCs we stained against Ki67 (marker of cycling cells) and Tbr2 (marker 182 of IPCs and newborn neurons). This analysis was performed at P6 after rv:: Gfp injection in 183 VZ at P1, to obtain the largest number of GFP+ MP cells (Supplementary Fig. 2, 3a). 184 Whereas 100% of MPs were Tbr2+, only 14.3% were Ki67+, indicating that only a minority 185 of the already few MPs were IPCs (Supplementary Fig. 3b.d). In contrast to the unexpected 186 scarcity of MP cells, MN cells were very abundant (Supplementary Fig. 2), so we analyzed if these could be IPCs with bipolar morphology. Only 25.0% of MNs were Tbr2+ and none 187

were Ki67+ (Supplementary Fig. 3c,d), consistent with these cells not being IPCs but rather
newborn cortical neurons.

The above results using rv:: Gfp seemed to indicate that IPCs were extremely rare in 190 ferret, contrary to  $mouse^{2,3,19}$ . An alternative was that our pleiotropic retroviral vectors might 191 somehow have a different cellular specificity between mouse and ferret. To discard this 192 193 possibility we injected ry:: Gfp in mouse embryos at E14.5 and analyzed at E16.5, a period of 194 cortical development equivalent to P1-P6 in ferret (Supplementary Fig. 3e). MP cells represented 29.7% of all GFP+ cells in mouse, eight times more than in ferret (3.6%; 195 Supplementary Fig. 3f-h). Ki67 stains revealed that in mouse embryos 12.4% of all GFP+ 196 197 cells were putative IPCs (Ki67+ MP cells; Supplementary Fig. 3g), while these represented 198 only 0.5% in ferret (Supplementary Fig. 3h). This further supported that IPCs may be very scarce in ferret, representing very few of the already small population of MP cells. To further 199 200 confirm the unexpected scarcity of IPCs in ferret we electroporated *Gfp*-encoding plasmids in VZ of newborn kits, because this method labels abundant pyramidal neurons in the juvenile 201 ferret cortex <sup>20</sup> and so it must label their cellular lineage earlier in development 202 203 (Supplementary Fig. 3i,j). In contrast to retroviral infection, electroporation labeled a much 204 greater proportion of cells with MP and MN morphology along the same developmental 205 period (Supplementary Fig. 3j-n). However, the proportion of MP and MN cells positive for 206 Ki67 was again extremely low or null (Supplementary Fig. 30), demonstrating that their vast 207 majority was non-proliferative and, thus, that IPCs are extremely scarce in the early postnatal 208 ferret.

209 Taken together, our analyses demonstrated that RGCs (apical and basal) represented 210 the vast majority of progenitor cells in the developing ferret cerebral cortex, and that while nearly all expressed Pax6, they were heterogeneous in Tbr2 expression and in the pattern of 211 212 PhVim stain, where presence or absence of a PhVim+ basal process did not recapitulate actual 213 progenitor cell morphology at mitosis. Importantly, our analyses demonstrated that non-RGC progenitors are extremely infrequent in ferret compared to RGCs. Therefore, ferret cortical 214 neurogenesis does not rely on multipolar IPCs, as in rodents<sup>2,16,17</sup>, but RGCs seem to be the 215 main neurogenic progenitors, thus departing from rodents and resembling macaques, where 216 IPCs are also very scarce and bRGCs are highly neurogenic<sup>2,9,16,17</sup>. 217

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### 219 Comparison between DEGS across the critical period and upon Trnp1 knock-down

220 Our microarray gene expression analysis revealed the existence of two sets of differentially-221 expressed genes (DEGs): "Early-change" genes, whose expression levels changed significantly only between E30 and E34; and "Late-change" genes, whose expression changed 222 only between E34 and P1 (Fig. 5). This distinguished those genes that changed early with the 223 224 increase in bRGC generation, and those that changed late with the decrease of bRGC generation. Among the "late" genes we found Trnp1, a gene encoding for a DNA-associated 225 protein which has been suggested to regulate the expression or function of other genes, and 226 previously shown to block bRGC production in the embryonic mouse cortex<sup>1</sup>. We compared 227 228 our lists of early and late DEGs with the list of genes differentially-expressed upon experimental knock-down of Trnp1 in mouse embryos, obtained from ref.<sup>1</sup>. None of the 17 229 230 "early" or 1,671 "late" genes was present among the 149 DEGs identified upon Trnp1 knock-231 down (Supplementary Fig. 5a). Because similar biological functions may be performed by 232 redundant genes, we next compared the functional gene annotation term clusters between 233 these three sets of DEGs (Supplementary Fig. 5b). With this analysis we found some coherent similarities, such as with the term "organelle": top 3 cluster in down-regulated late 234 235 genes and top 4 cluster in up-regulated Trnp1-KD genes; and also the related terms "ribonucleotide binding" and "regulation of transcription", top 2 cluster in down-regulated 236 237 late genes and top 1 cluster in up-regulated Trnp1-KD genes, respectively.

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