Suppl Fig 1:
Strategy for modification of the Zic4 genomic BAC.
A, The unmodified BAC containing Zic4. B, Strategy for modification of the genomic BAC by insertion of iCre-polyA into the Zic4 gene. The bacterial Kanamycin resistance cassette was flanked by FRT sites (open circles) and removed prior to microinjection of the construct into fertilized eggs.
Suppl Fig 2:
Expression of YFP in Zic4-Cre$^{tg}$/ R26R-YFP$^{tg}$ transgenic embryos at E10.5.

A-F, YFP can be detected in the septum in the telencephalon and in more posterior forebrain midline regions. Scale bar: A, 300 µm.
Suppl Fig 3:
Expression of YFP and Ki67 in Zic4-CreTg/ R26R-YFP+/− transgenic embryos at E12.5.

B-E, All Ki67+ve cells in the septum co-express YFP indicating that the Zic4-CreTg transgenic mice can be used for lineage tracing of septal progenitors.
Suppl Fig 4:
The contribution of septal precursors to GABAergic interneuron populations of the cortex. The extent of co-localization between YFP and each of the interneuron markers examined in adult Zic4-CreTg/R26R-YFP+/− transgenic mice was quantified and the data are presented as percentage of the total number of cells expressing each of the markers.
Suppl Fig 5:
YFP and LHX6 expression in Zic4-CreTg/R26R-YFP+/− transgenic embryos at E18.5. All YFP+ve cells (B, D) co-express LHX6 (A, D). Scale bar: A, 50 µm.
Suppl Fig 6:
Venus and LHX6 expression near the corticostriatal boundary in Nkx2.1-Cre/ Dlx1-Venus\textsuperscript{fl} transgenic embryos at E13.5. The section was taken at the level of the septum. Venus\textsuperscript{+ve} cells entering the cortex do not express LHX6 confirming their LGE/dCGE origin. The dorsolateral edge of the LGE is indicated by an asterisk in A.
Suppl Fig 7:
Venus⁺ve cells in the adult cortex of Lhx6-CreTg/Dlx1-Venusfl transgenic mice express neuronal but not glial markers. A, C, D, E, Immunolabeling for Venus and NeuN, Olig2, S100β and GFAP. B, Detection of Venus protein and Gad67 RNA transcripts. Arrows point to cells showing co-localization. Arrowheads indicate lack of co-localization. Scale bar: 30 µm