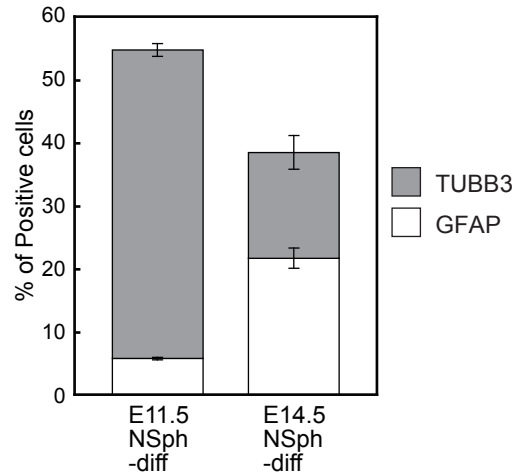
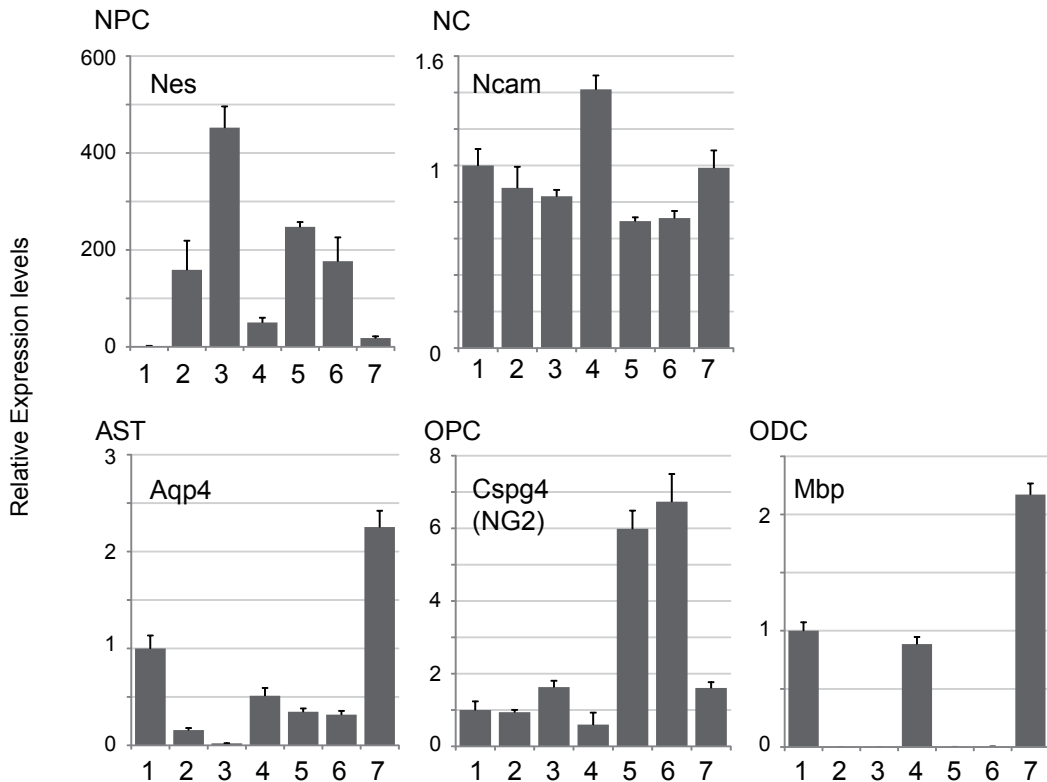


A



B



### Figure S1. Expression of marker genes for neural cell lineage.

A: Immunocytochemical staining of differentiated E11.5NSph (E11.5NSph-diff) and E14.5NSph (E14.5NSph-diff) was conducted using antibodies against TUBB3 and GFAP. Percentages of TUBB3-positive and GFAP-positive cells in DAPI-positive cells were counted and are presented as mean  $\pm$  SE of 3 visual fields.

B: Quantitative RT-PCR for marker genes. Expression levels of marker genes—nestin (Nes): neural progenitor cells (NPC); neural cell adhesion molecule (Ncam): neuronal cells (NC); aquaporin 4 (Aqp4): astrocytes (AST); NG2 (Cspg4): oligodendrocyte progenitor cells (OPC); myelin basic protein (Mbp): oligodendrocytes (ODC)— were normalized with the expression levels of  $\beta$ -actin (Actb) and indicated by relative expression levels to those of adult brain (AdBr). Error bars indicate SE of triplicated wells of a sample (1: AdBr; 2, 3: E11.5 NSphs; 4: differentiated E11.5 NSphs; 5, 6: E14.5 NSphs; 7: differentiated E14.5 NSphs).