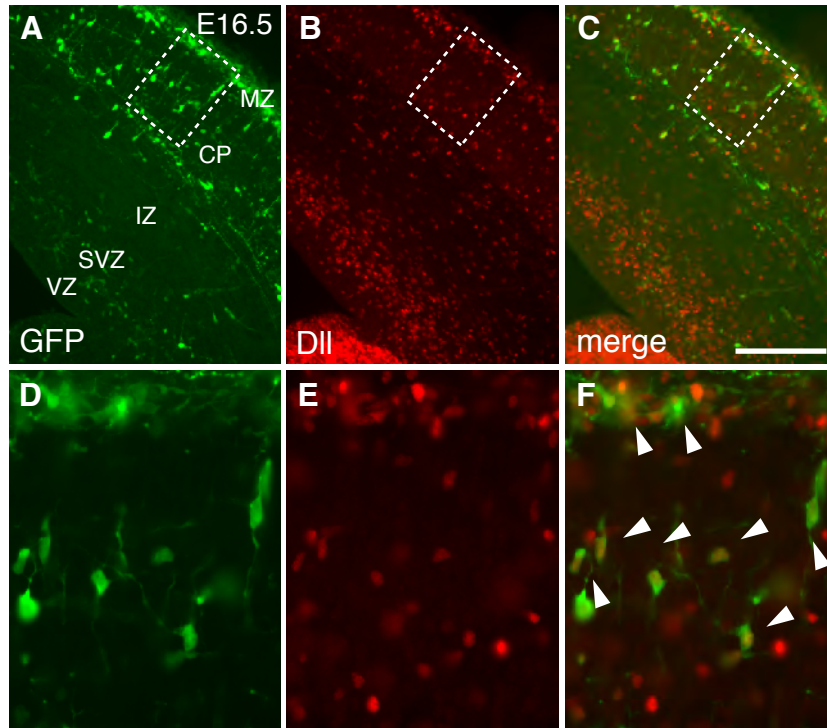
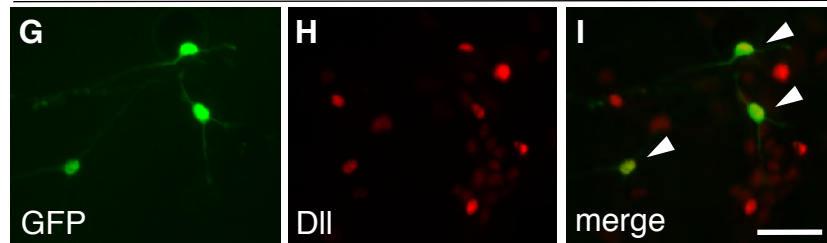
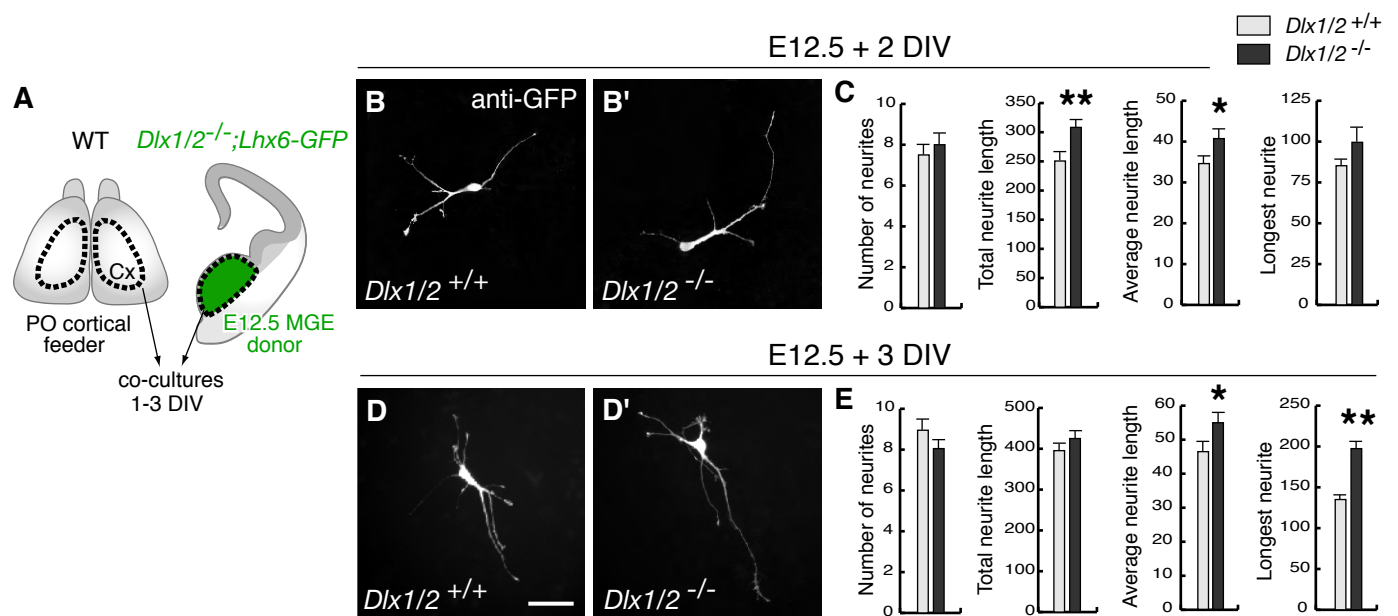


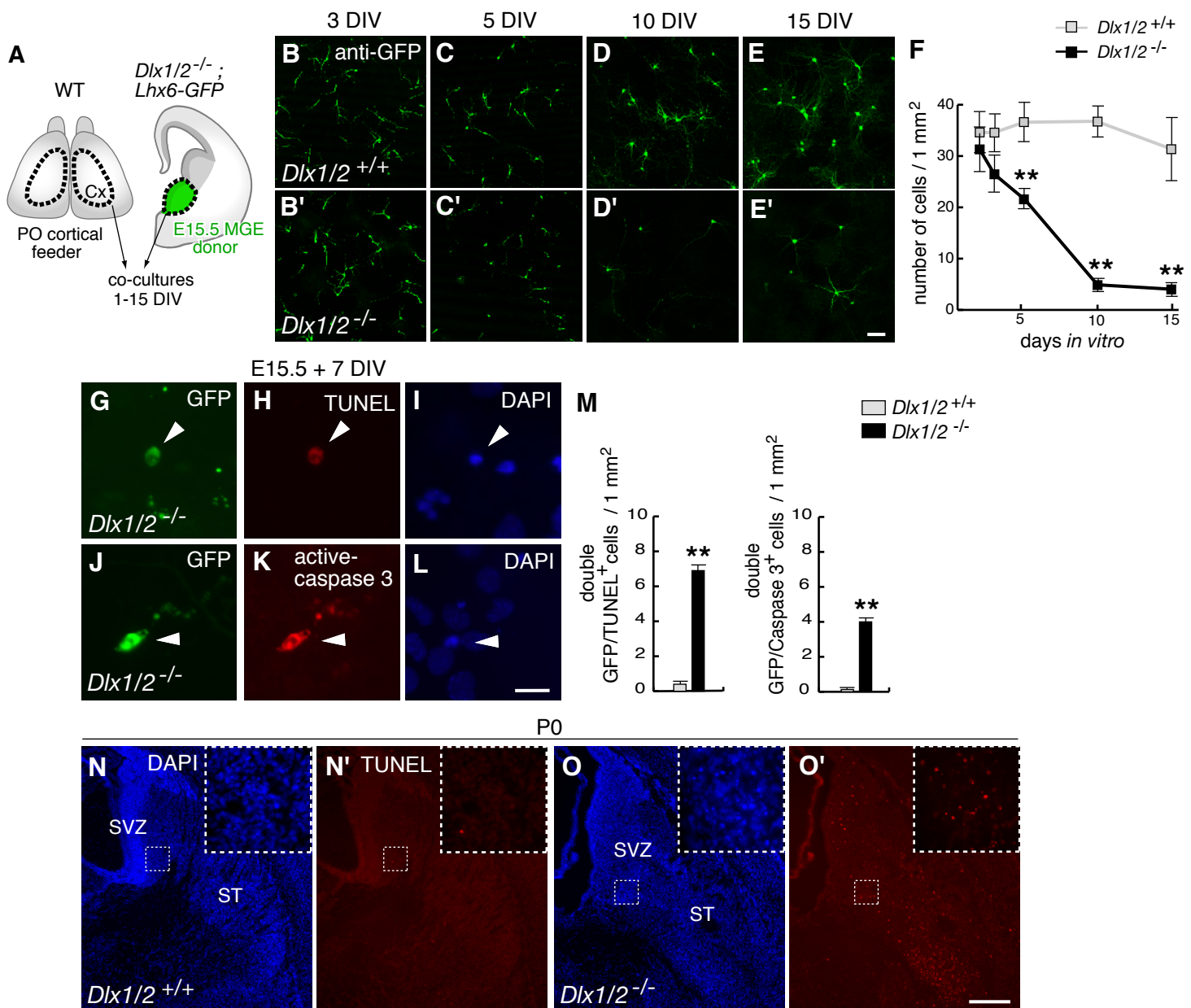
*Lhx6-GFP* transgenic embryos

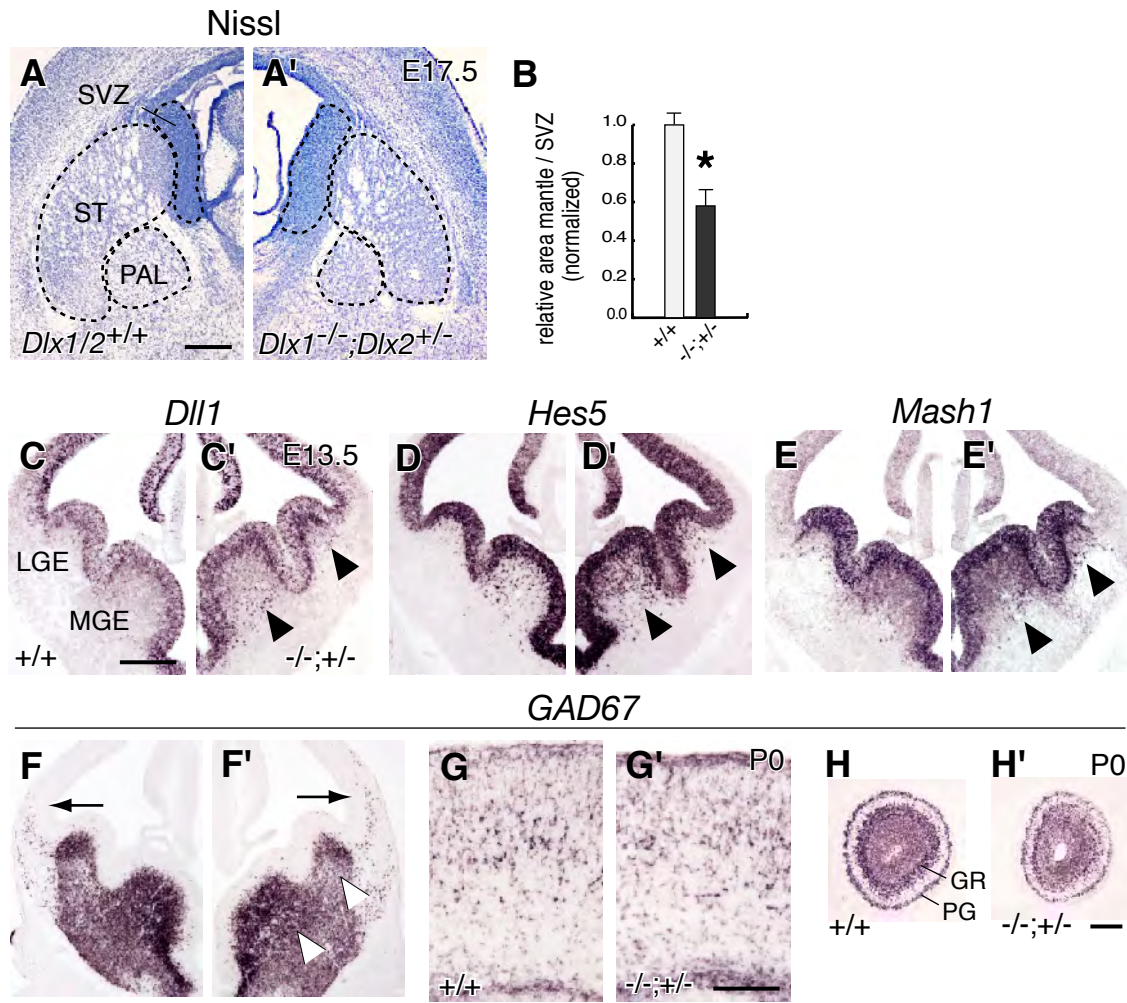


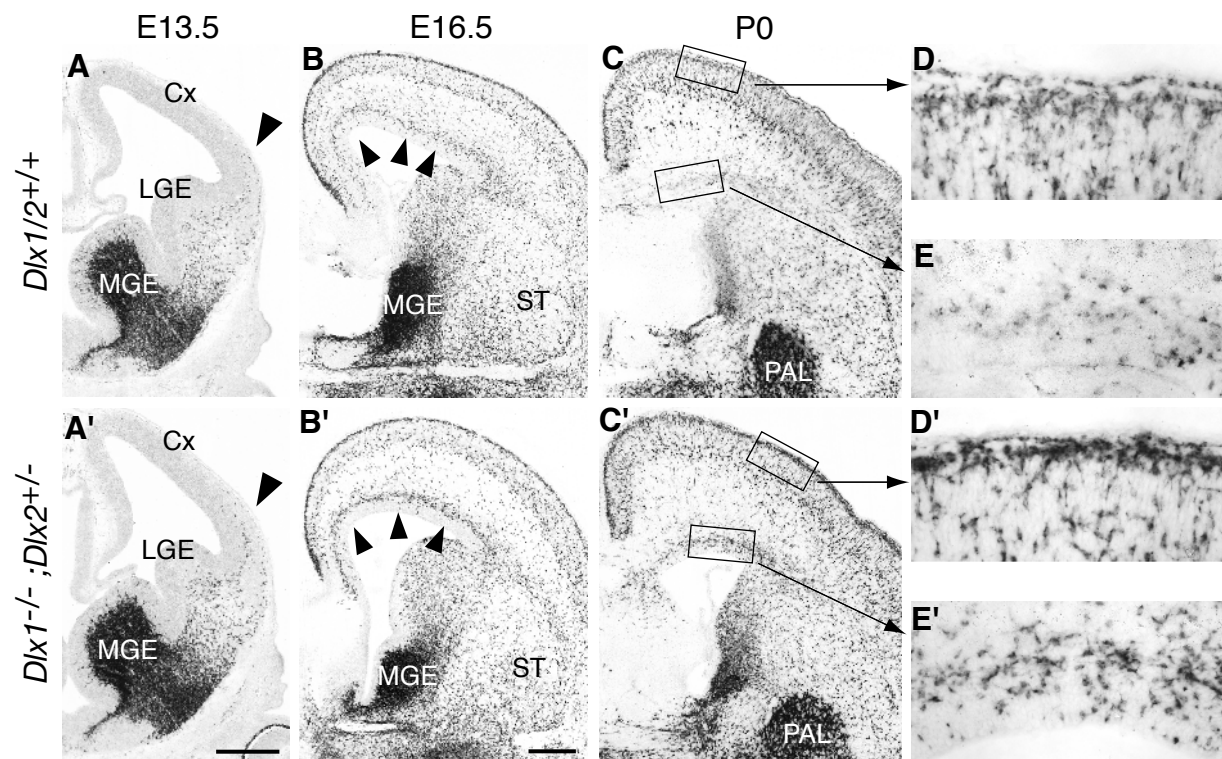
Dissociated cells from *Lhx6-GFP* neocortex





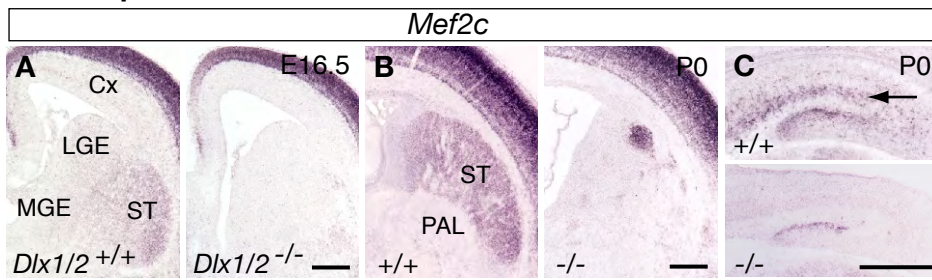




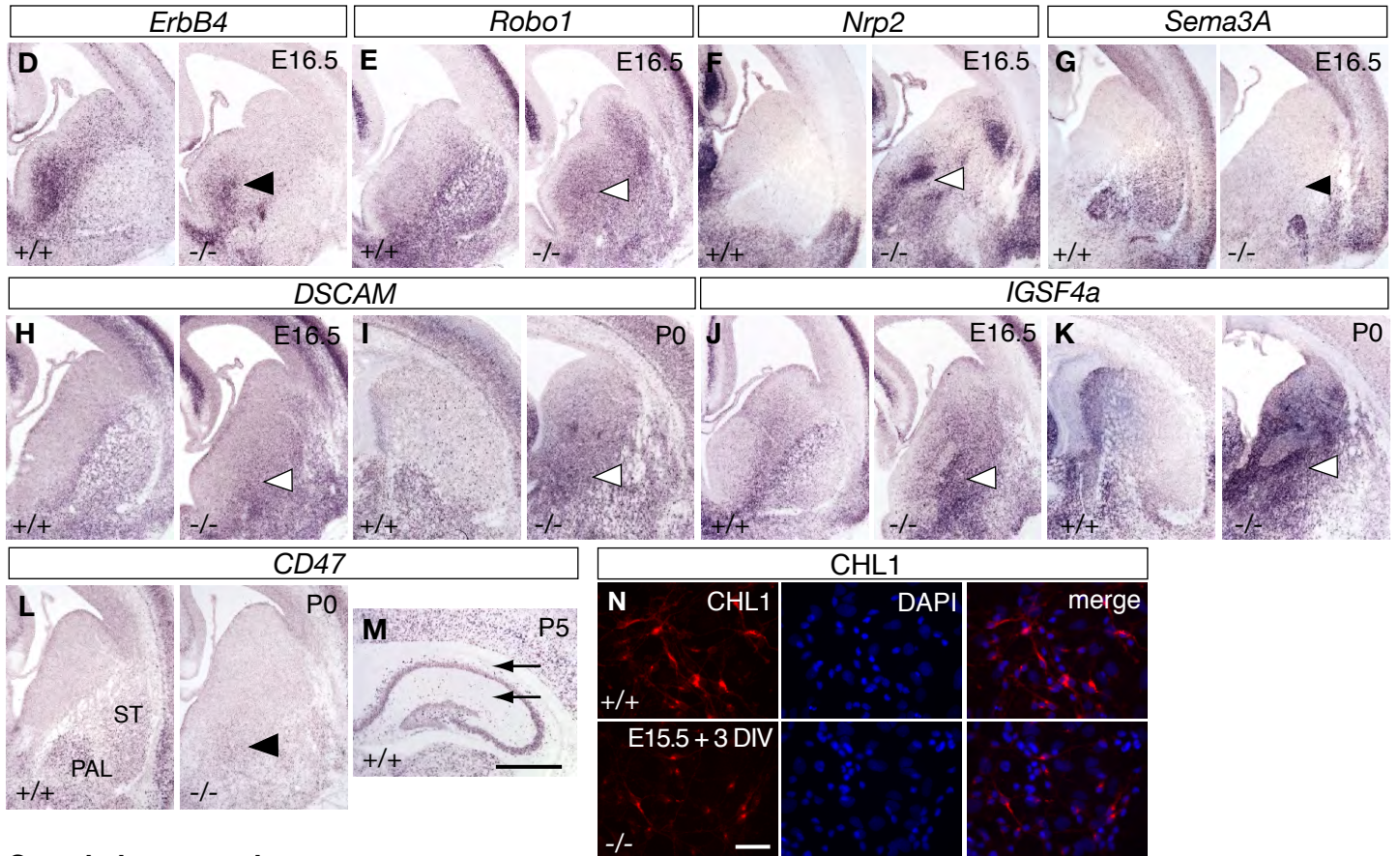




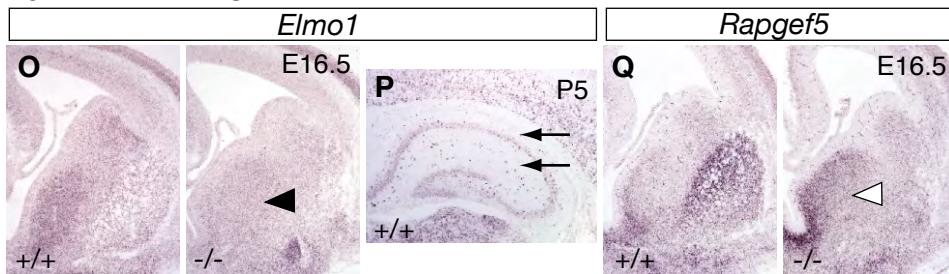
## Transcription factors

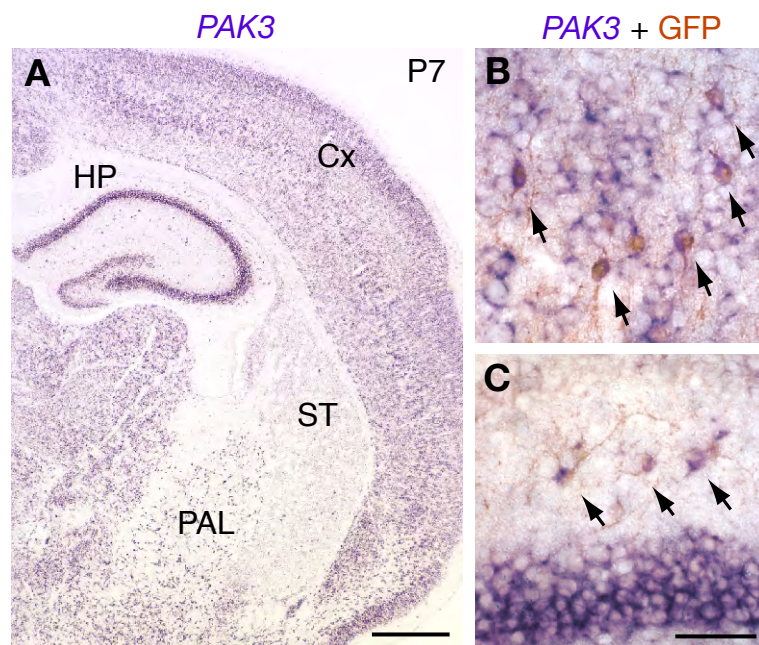


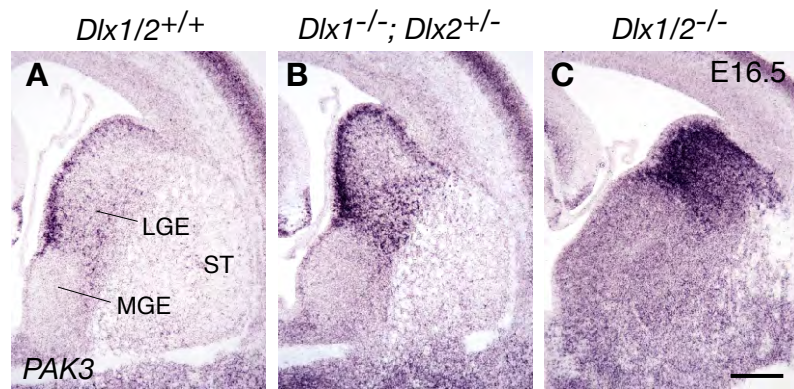
## Cell-surface receptors and cell adhesion molecules



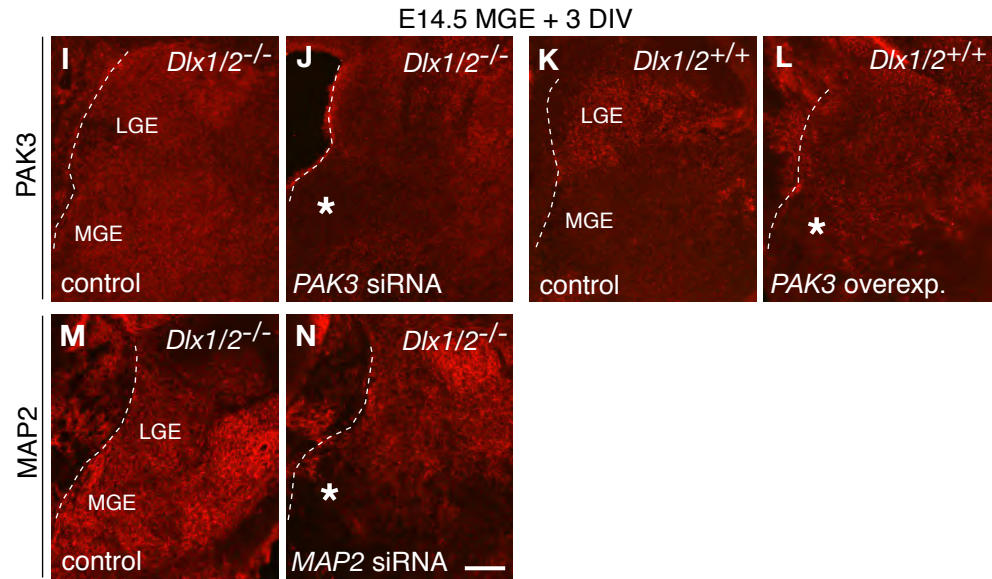
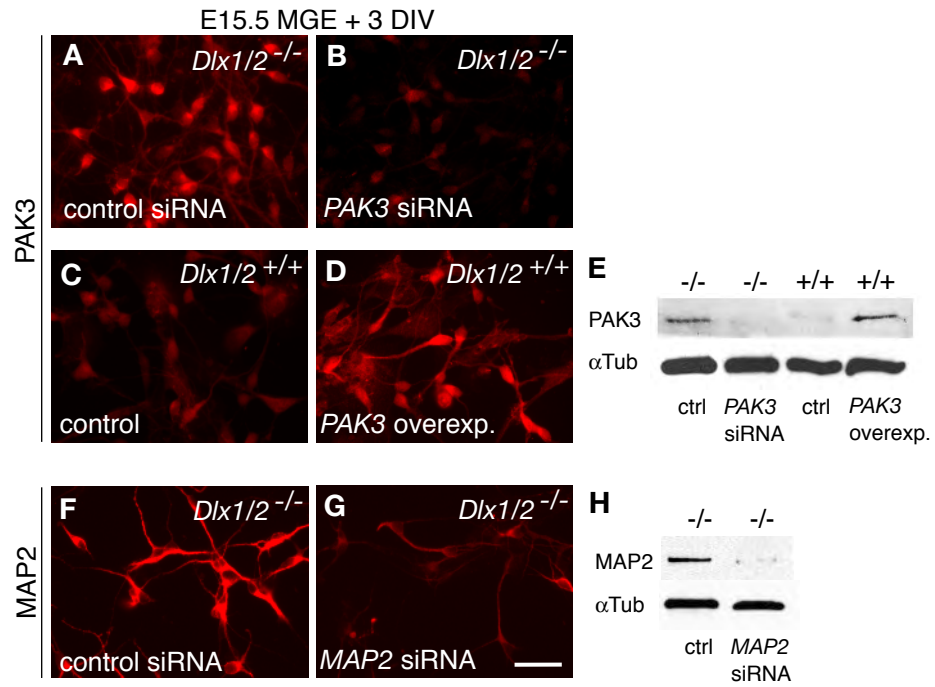
## Cytoskeleton regulators











**Table 1.** List of selected genes that showed altered expression in microarrays comparing gene expression of MGE-derived cells from wild-type versus *Dlx1/2<sup>-/-</sup>* embryos. Arrows indicate up- or down-regulation in *Dlx1/2<sup>-/-</sup>*. Their biological functions, with emphasis to their known functions in neuronal differentiation, are briefly summarized. Confirmation of these data by mRNA *in situ* hybridization and/or immunocytochemistry can be found in Supplemental Figure S6.

GENES	EXPRESSION	GENE DESCRIPTION	BIOLOGICAL FUNCTION	REFERENCES
<b>TRANSCRIPTION FACTORS</b>				
<i>Mef2c</i>	↓	myocyte enhancer factor 2C transcription factor	calcium-dependent regulation of cell differentiation and survival	Mckinsey <i>et al.</i> , 2002; Shalizi & Bonni, 2005
<b>CELL-SURFACE RECEPTORS AND CELL ADHESION MOLECULES</b>				
<i>ErbB4</i>	↓	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	receptor protein-tyrosine kinase, cell cycle progression, cell differentiation, migration	Buonanno & Fischbach, 2001; Flames <i>et al.</i> , 2004
<i>Robo1</i>	↑	roundabout homolog 1 ( <i>Drosophila</i> )	receptor activity, axon guidance and branching, cell migration	Kidd <i>et al.</i> , 1998; Sang <i>et al.</i> , 2002; Andrews <i>et al.</i> , 2006
<i>Nrp2</i>	↑	neuropilin 2	semaphorin receptor activity, axon guidance, cell migration	Giger <i>et al.</i> , 2000; Marin <i>et al.</i> , 2001
<i>DSCAM</i>	↑	Down syndrome cell adhesion molecule, Ig superfamily	homophilic cell adhesion, axon and dendrite guidance and branching, axon-target recognition	Schmucker <i>et al.</i> , 2000; Chen <i>et al.</i> , 2006; Zhu <i>et al.</i> , 2006
<i>IGSF4a</i>	↑	immunoglobulin superfamily factor 4a	homophilic cell adhesion, synaptogenesis	Biederer <i>et al.</i> , 2002
<i>Cd47</i>	↓	CD47 antigen, integrin-associated protein (IAP)	cell adhesion, neurite outgrowth, synapse associated protein	Miyashita <i>et al.</i> , 2004; Ohnishi <i>et al.</i> , 2005
<i>Chl1</i>	↓	cell adhesion molecule with homology to L1CAM	cell adhesion, neurite morphogenesis, migration	Montag-Sallaz <i>et al.</i> , 2002; Demyanenko <i>et al.</i> , 2004
<b>SECRETED PROTEINS</b>				
<i>Reln</i>	↓	reelin	cell adhesion, cellular morphogenesis, migration, synaptic function	Rice and Curran, 2001
<i>Sema3a</i>	↓	semaphorin 3A	cell differentiation, axon guidance, negative regulation of axon extension	Polleux <i>et al.</i> , 1998, 2000; Marin <i>et al.</i> , 2001
<b>CYTOSKELETON REGULATORS</b>				
<i>Elmo1</i>	↓	engulfment and cell motility 1	Rac activation, cytoskeletal regulation, cell migration	Gumienny <i>et al.</i> , 2001; Katoh <i>et al.</i> , 2006
<i>Rapgef5</i>	↑	Rap guanine nucleotide exchange factor (GEF) 5	small GTPase mediated signal transduction	Bithell <i>et al.</i> , 2003; Rossman <i>et al.</i> , 2005
<i>PAK3</i>	↑	p21-activated serine/threonine kinase	cell-cycle progression, regulation of cytoskeletal dynamics, cell polarity, motility	Bokoch, 2003; Hofmann <i>et al.</i> , 2004; Meng <i>et al.</i> , 2005
<i>Gap43</i>	↑	growth associated protein 43	cell growth and differentiation, axonal growth	Aigner <i>et al.</i> , 1995
<i>Mapt</i>	↑	microtubule-associated protein tau	cytoskeletal regulatory protein binding, negative regulation of microtubule depolymerization	Dehmelt & Halpain, 2005

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