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| **Germ layer and early commitment markers** | |
| Sox1 | Early marker of neuronal commitment |
| N-Cadherin | Neural cadherin |
| Nanog | Pluripotency marker |
| Oct4 | Pluripotency marker |
| Sox17 | Endoderm marker |
| T | Mesoderm marker |
| **Brain regional markers** | |
| Foxg1 | Forebrain |
| Otx2 | Midbrain, retina, thalamas |
| Gbx2 | Hindbrain, thalamus |
| Emx1 | Dorsal cortex |
| Gsh2 | Ventral forebrain |
| Nkx2.1 | Medial ganglionic eminence |
| TTR | Choroid plexus |
| En2 | Cerebellum, inferior colliculus |
| Math1 | Cerebellum |
| **Cell type markers** | |
| Sox2 | Neural stem cells: neuroepithelial cells and radial glia. Also in pluripotent stem cells. |
| Tbr2 | Cortical intermediate progenitors |
| Neurod2 | Cortical neurons |
| NeuN | Mature neurons |
| DCX | Immature neurons |
| Tuj1 | Broad marker of neurons |
| MAP2 | Dendrites |
| SMI312 | Axons |
| GLAST | Glia |
| GFAP | Astrocytes |
| O4 | Oligodendrocytes |
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