

Table S1 Summary of RNA-seq Data Used in this study

Abbreviation	Sample	Dissection method	Age of animal	Type of Reads	Reads length	Reads Number	GEO #	Reference
ESC	mouse embryonic stem cell	cell culture	-	Paired	76 bp	115 million	GSE20851	Guttman 2010
NPC	mouse embryonic stem cell derived neural progenitor cells	cell culture	-	Paired	76 bp	119 million	GSE20851	Guttman 2010
E14.5_VZ	mouse E14.5 ventricular zone	Laser dissection	E14.5	Paired	75 bp	107 million	GSE30765	Ayoub 2011
E14.5_SVZ/IZ	mouse E14.5 subventricular zone/ intermediate zone	Laser dissection	E14.5	Paired	75 bp	103 million	GSE30765	Ayoub 2011
E14.5_CP	mouse E14.5 cortical plate	Laser dissection	E14.5	Paired	75 bp	110 million	GSE30765	Ayoub 2011
E17-Cortex	mouse E17 cortex	microdissection	E17	Single	80 bp	159 million	GSE39866	Dillman 2013
E10.5-Cortex	ENCODE mouse E10.5 embryonic forebrain	microdissection	E10.5	Single	100 bp	101 million	GSE88173	ENCODE
E11.5-Cortex	ENCODE mouse E11.5 embryonic forebrain	microdissection	E11.5	Single	100 bp	80 million	GSE78335	ENCODE
E12.5-Cortex	ENCODE mouse E12.5 embryonic forebrain	microdissection	E12.5	Single	100 bp	126 million	GSE82852	ENCODE
E13.5-Cortex	ENCODE mouse E13.5 embryonic forebrain	microdissection	E13.5	Single	100 bp	106 million	GSE78493	ENCODE
E14.5-Cortex	ENCODE mouse E14.5 embryonic forebrain	microdissection	E14.5	Single	100 bp	93 million	GSE78340	ENCODE
E15.5-Cortex	ENCODE mouse E15.5 embryonic forebrain	microdissection	E15.5	Single	100 bp	100 million	GSE78448	ENCODE
E16.5-Cortex	ENCODE mouse E16.5 embryonic forebrain	microdissection	E16.5	Single	100 bp	82 million	GSE78323	ENCODE
P0-Cortex	ENCODE mouse postnatal 0 forebrain	microdissection	P0	Single	100 bp	92 million	GSE78374	ENCODE
aRG	mouse E14.5 apical radial glia	Fluorescence activated Cell Sorting	E14.5	Single	75 bp	150 million	GSE65000	Huttner 2015
bRG	mouse E14.5 basal (outer) radial glia	Fluorescence activated Cell Sorting	E14.5	Single	75 bp	136 million	GSE65000	Huttner 2015
bIP	mouse E14.5 basal intermediate progenitor	Fluorescence activated Cell Sorting	E14.5	Single	75 bp	133 million	GSE65000	Huttner 2015
Neuron	mouse E14.5 neuron	Fluorescence activated Cell Sorting	E14.5	Single	75 bp	168 million	GSE65000	Huttner 2015
Tis+	mouse E14.5 Tis21+ apical radial glia	Fluorescence activated Cell Sorting	E14.5	Single	75 bp	172 million	GSE65000	Huttner 2015
Tis-	mouse E14.5 Tis21- apical radial glia	Fluorescence activated Cell Sorting	E14.5	Single	75 bp	162 million	GSE65000	Huttner 2015
E10.5_DFB (Cortex)	ribosomal-depleted and strand-specific mouse E10.5 embryonic dorsal forebrain	microdissection	E10.5	Paired	90 bp	202 million	GSE55600	This work
E12.5_DFB (Cortex)	ribosomal-depleted and strand-specific mouse E12.5 embryonic dorsal forebrain	microdissection	E12.5	Paired	90 bp	208 million	GSE55600	This work