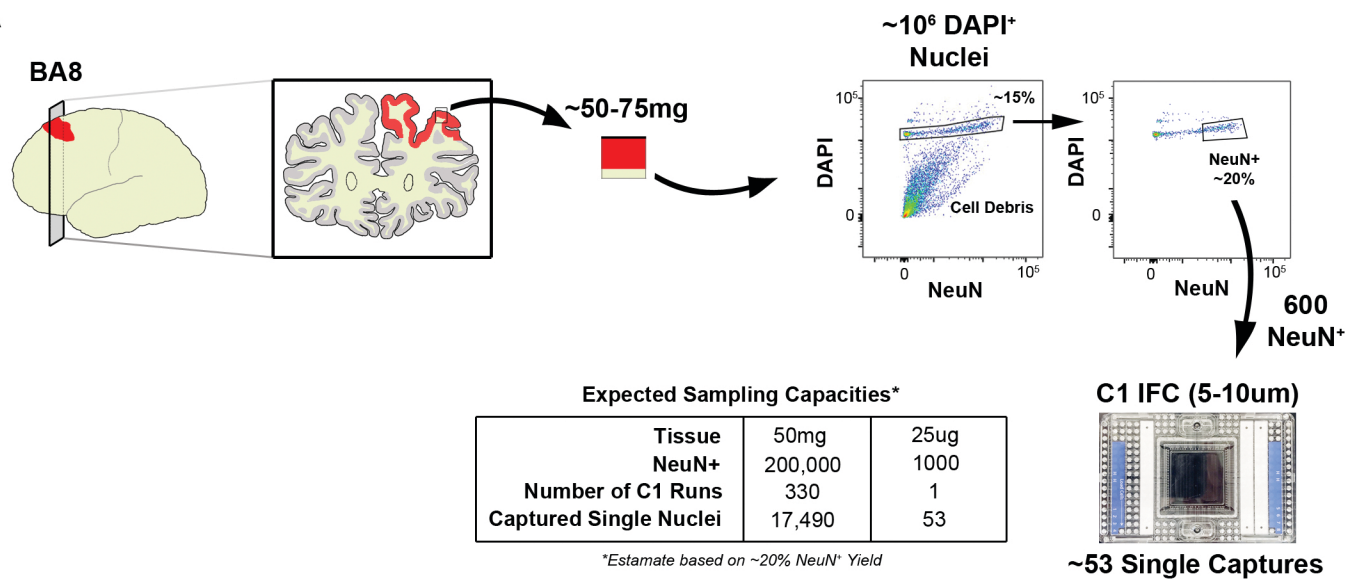
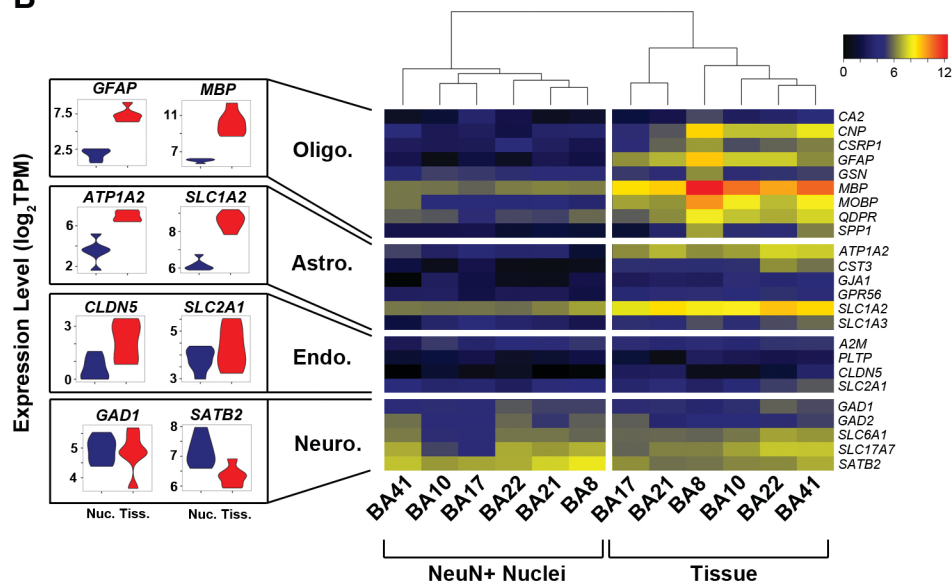


Fig. S1

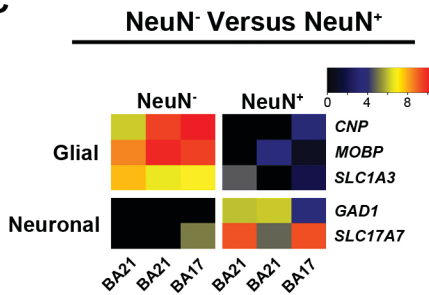
A



B



C



D

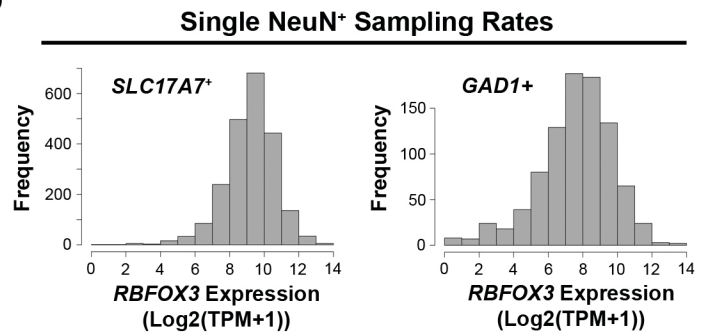
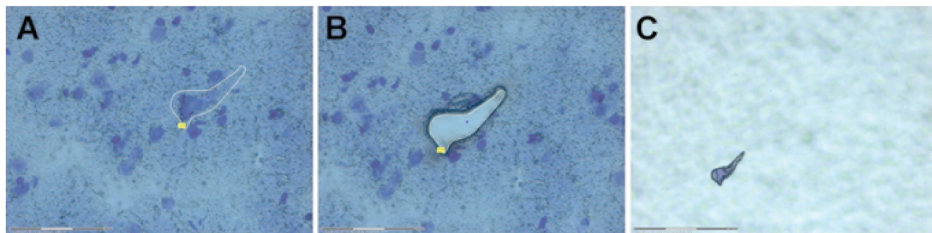
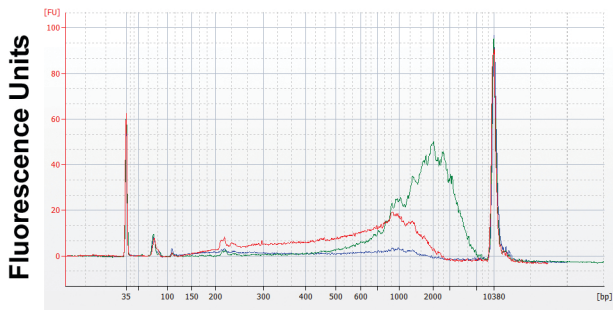


Fig. S2



D

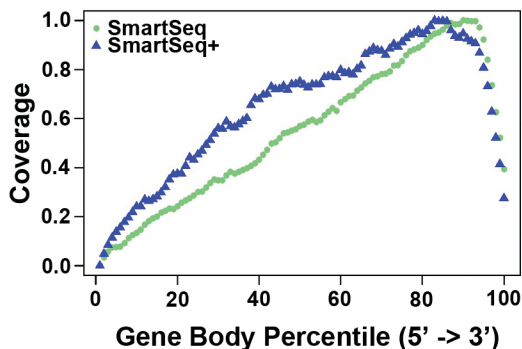


- 100 Cells Hand Cut
- 100 Cells LCM
- 1000pg Positive Control

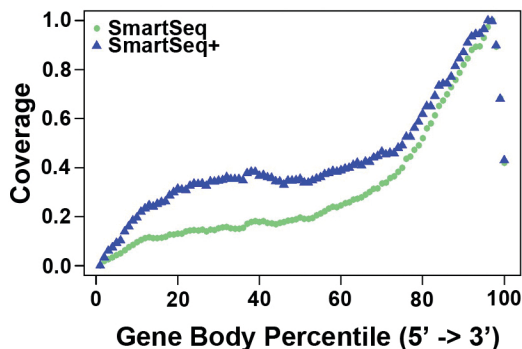
Size (Base Pairs)

Fig. S3

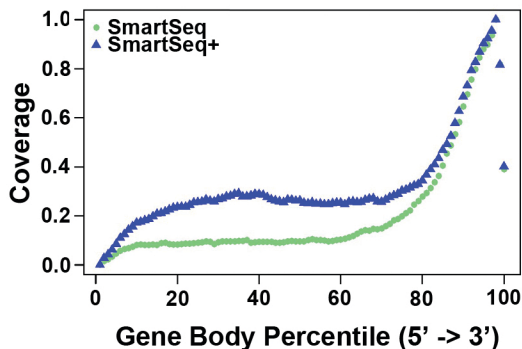
Transcript Coverage (0-1 kb)



Transcript Coverage (1-2 kb)



Transcript Coverage (2-3 kb)



Transcript Coverage (3-4 kb)

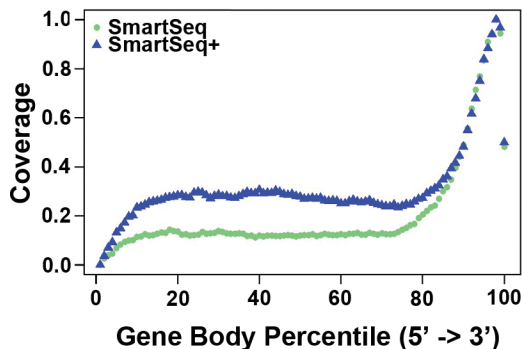
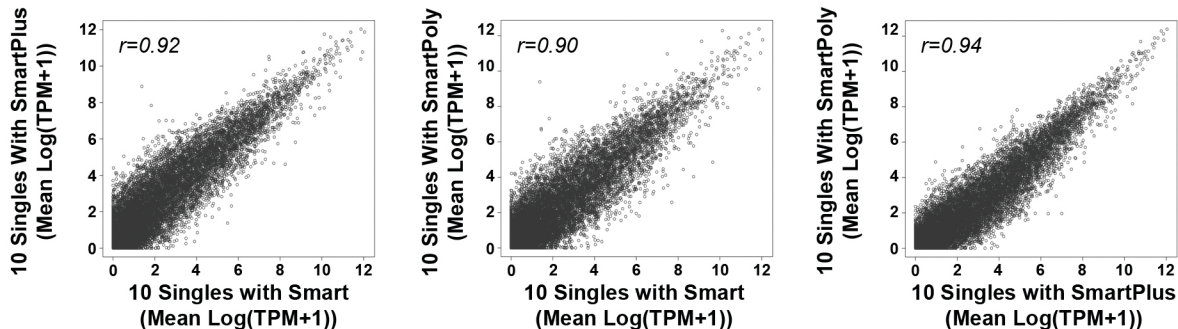
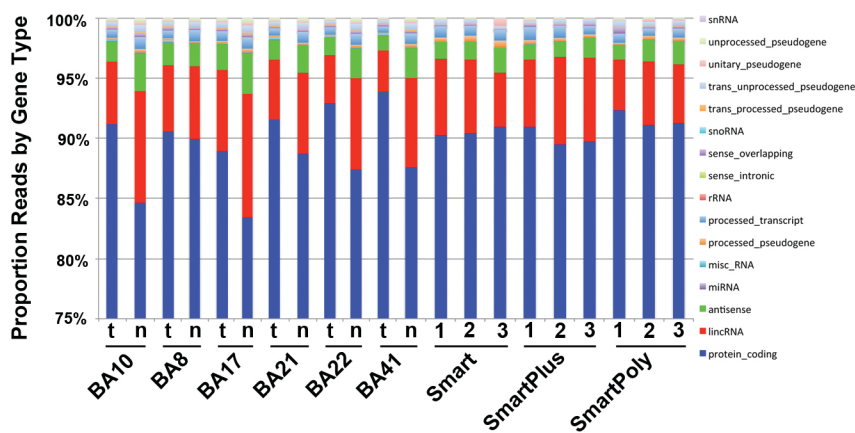


Fig. S4

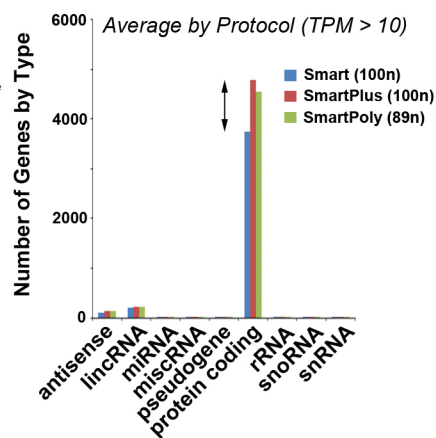
A



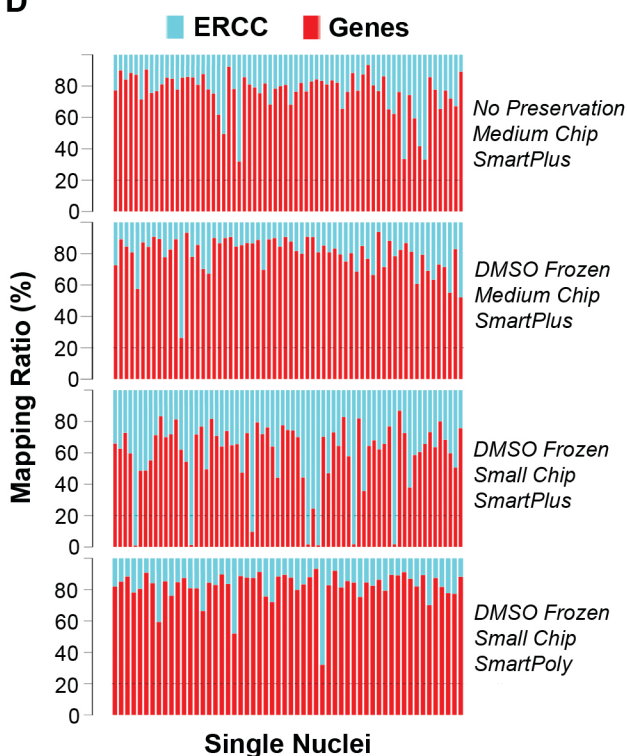
B



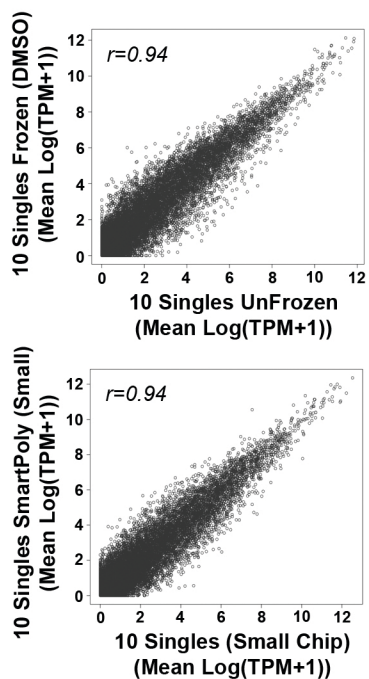
C



D



E



F

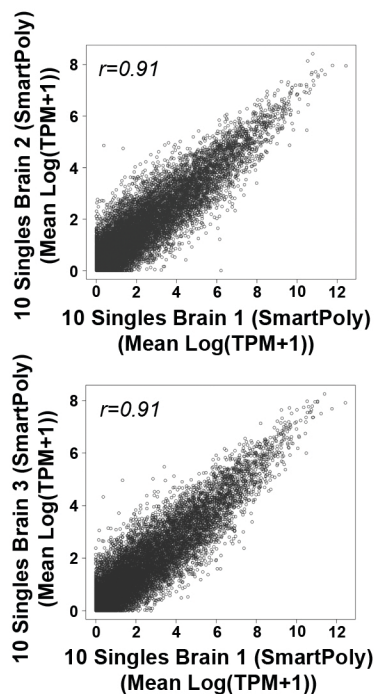


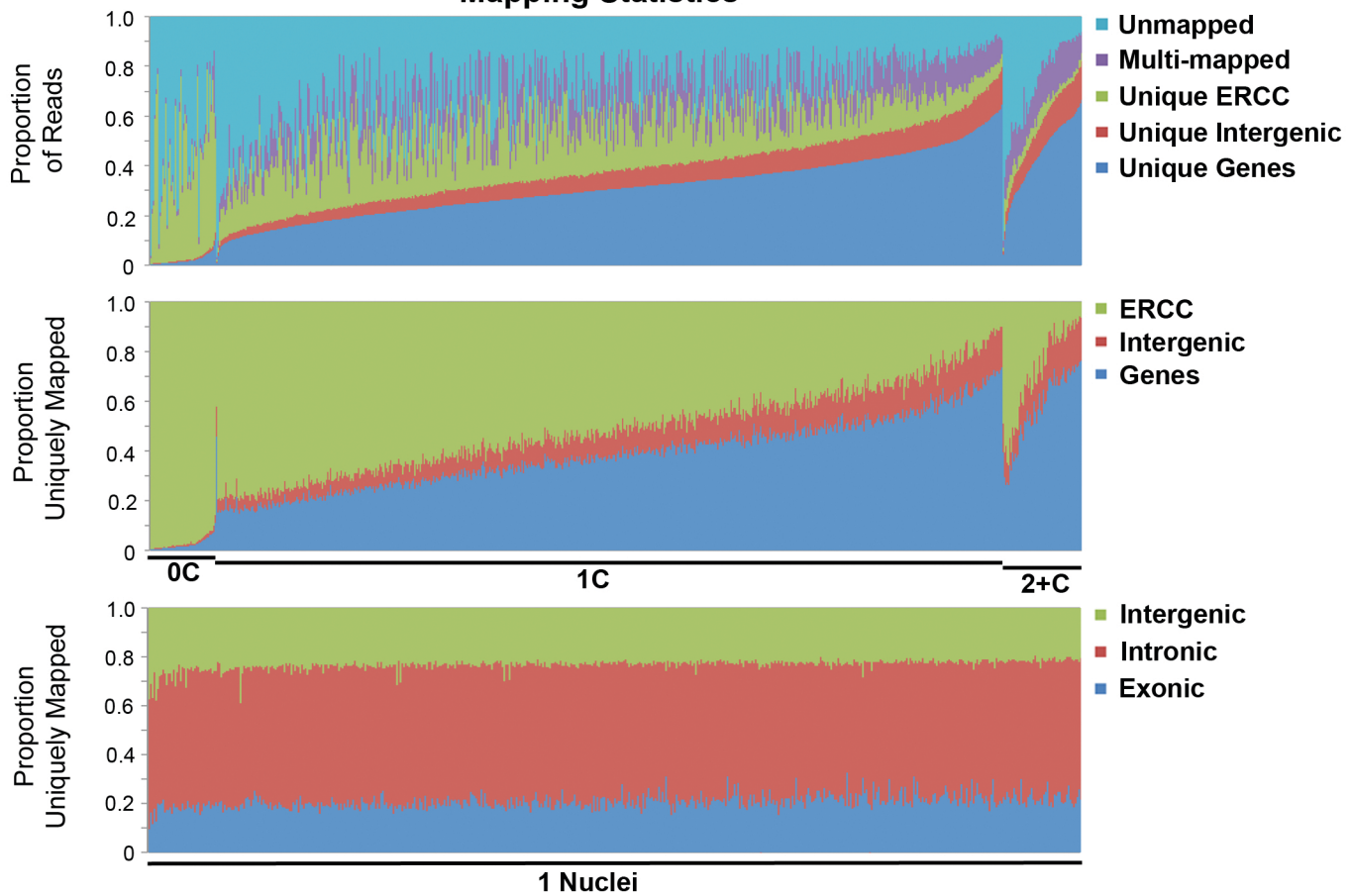
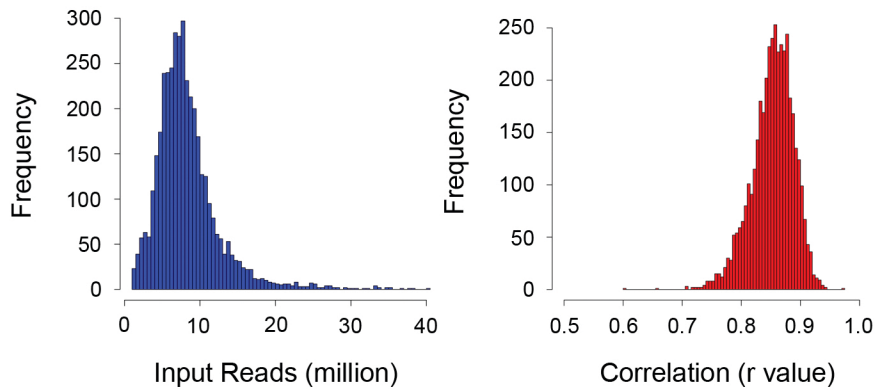
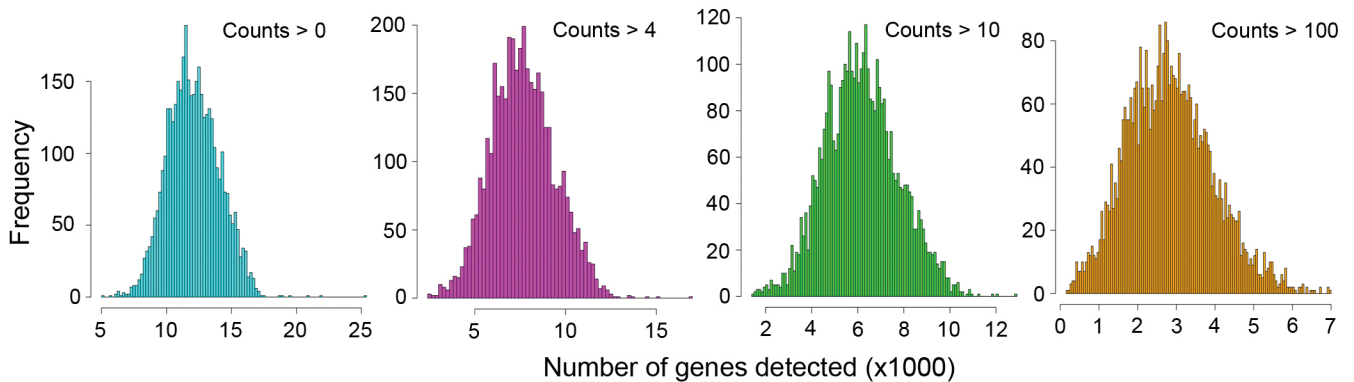
Fig. S5**A****Mapping Statistics****B****C**

Fig. S6

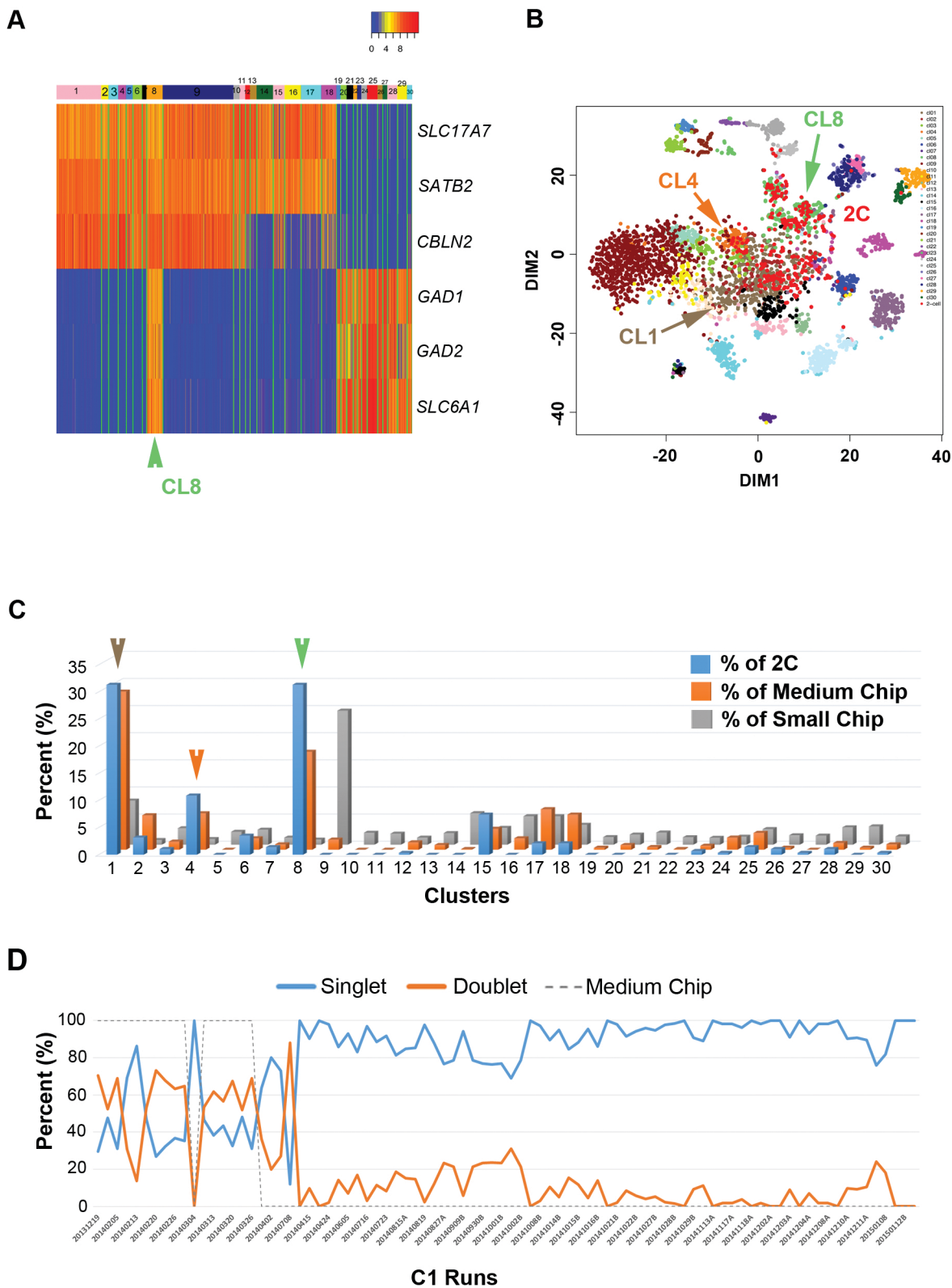


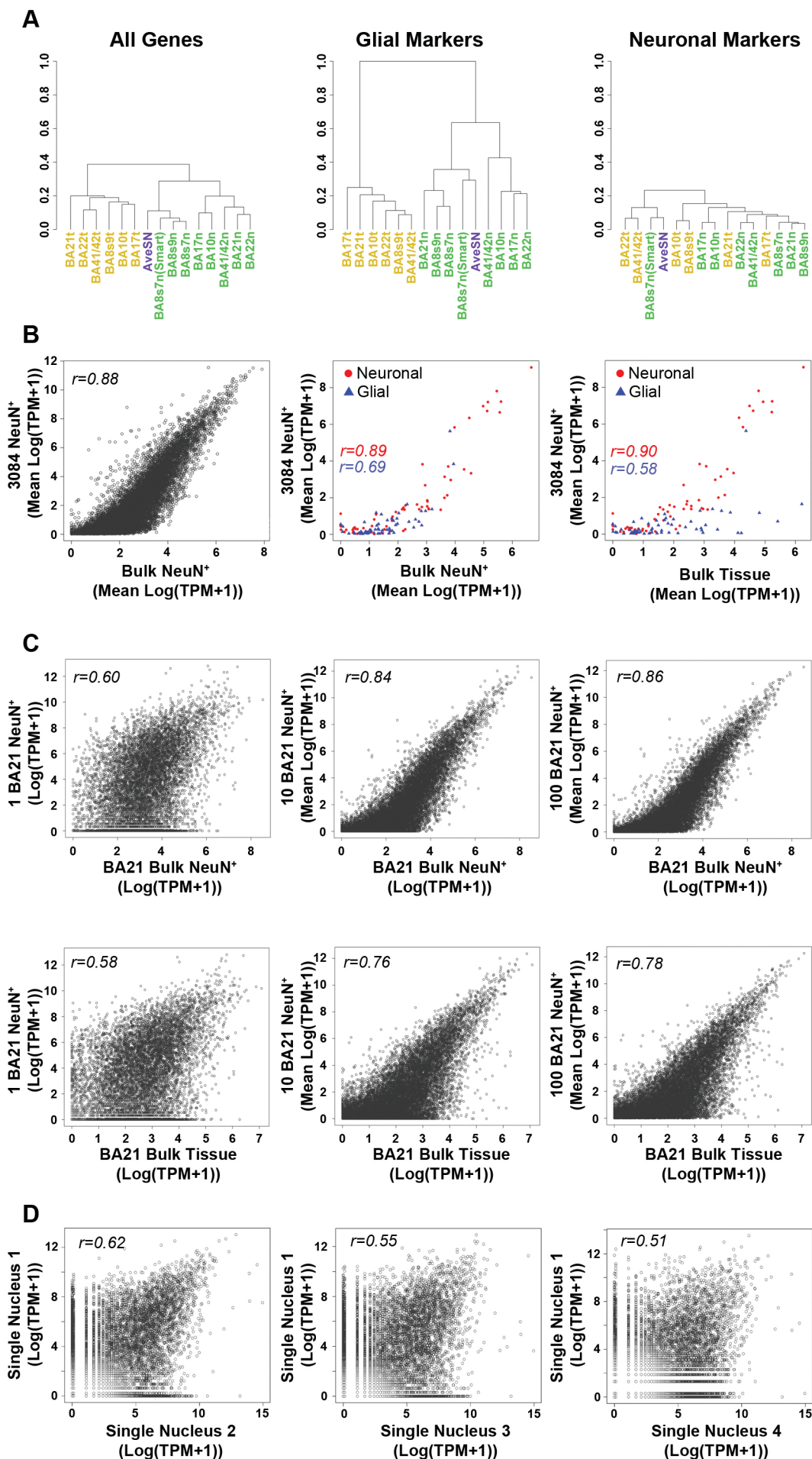
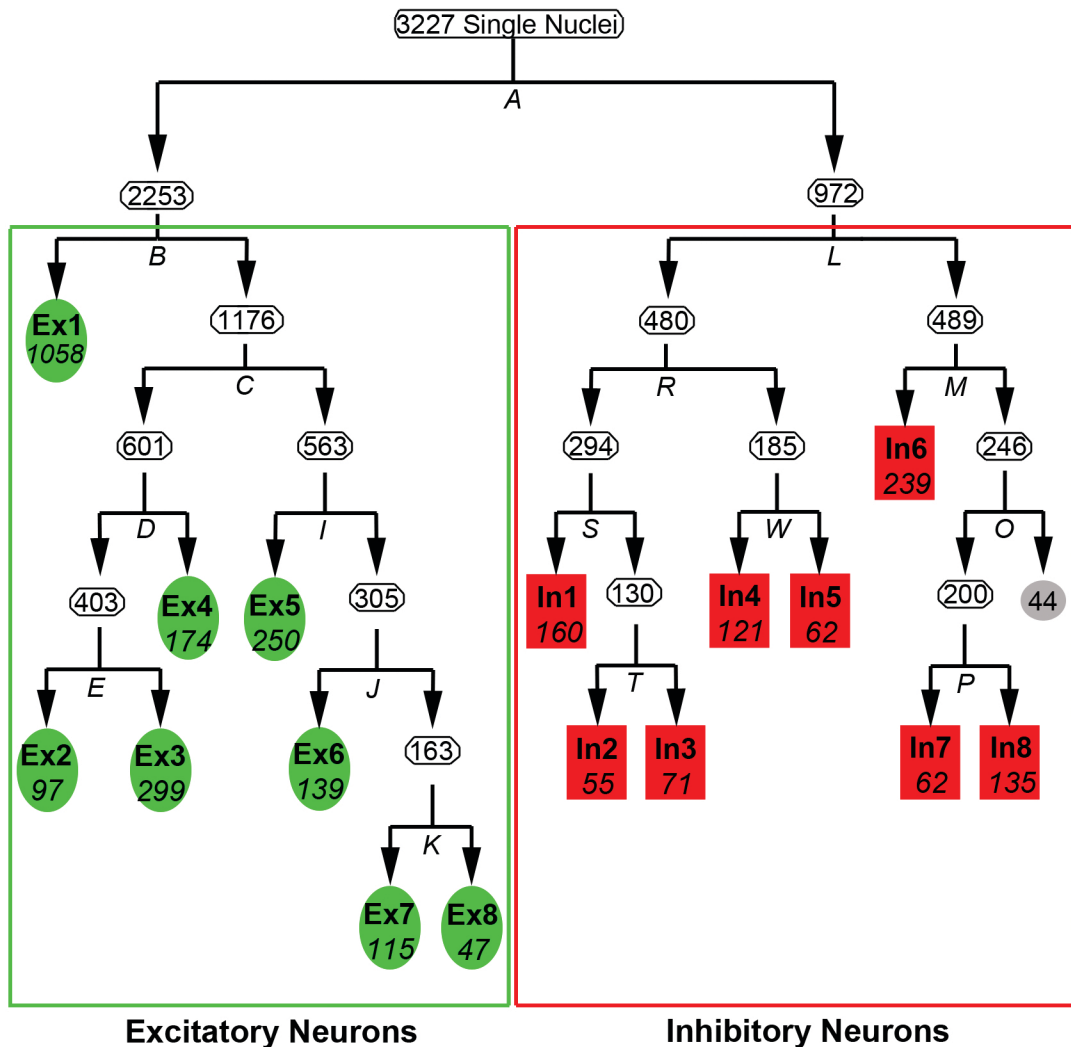
Fig. S7

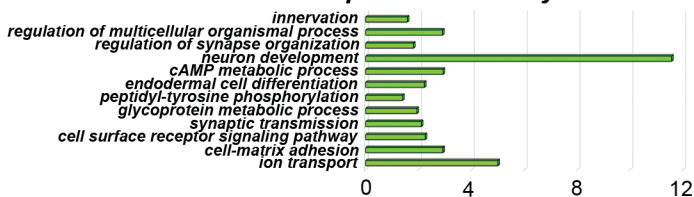
Fig. S8

A

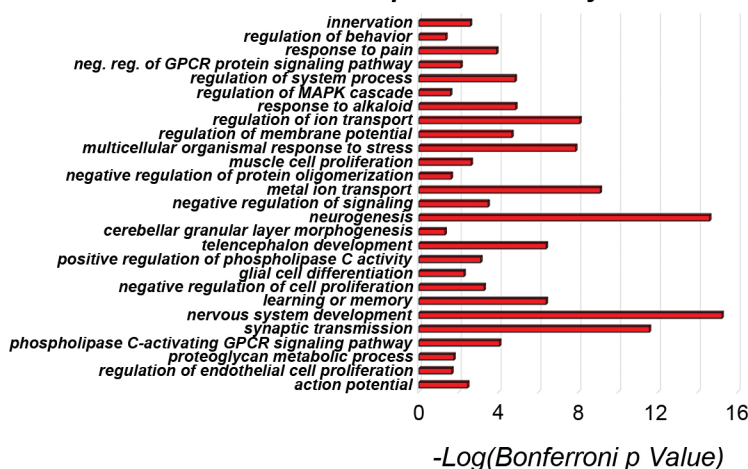


B

Ex Group DEG GO Analysis



In Group DEG GO Analysis



C

DEGs Across Splittings

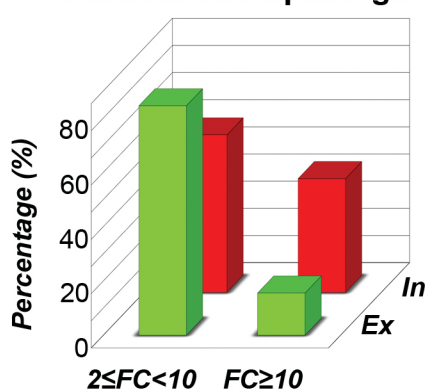


Fig. S9

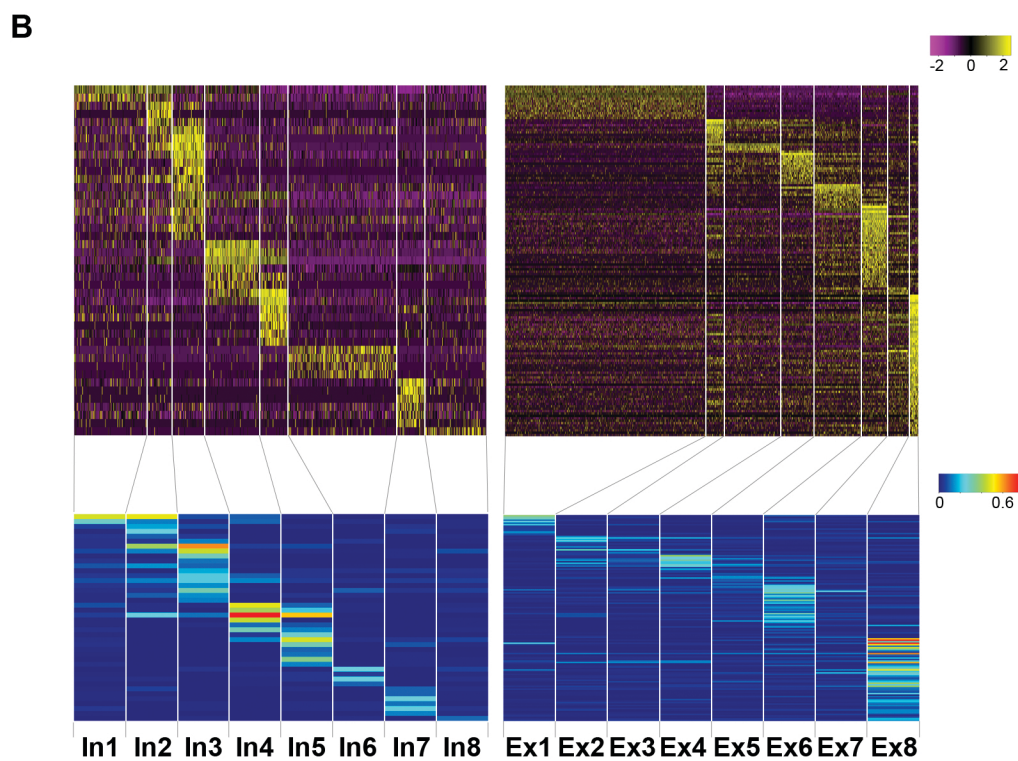
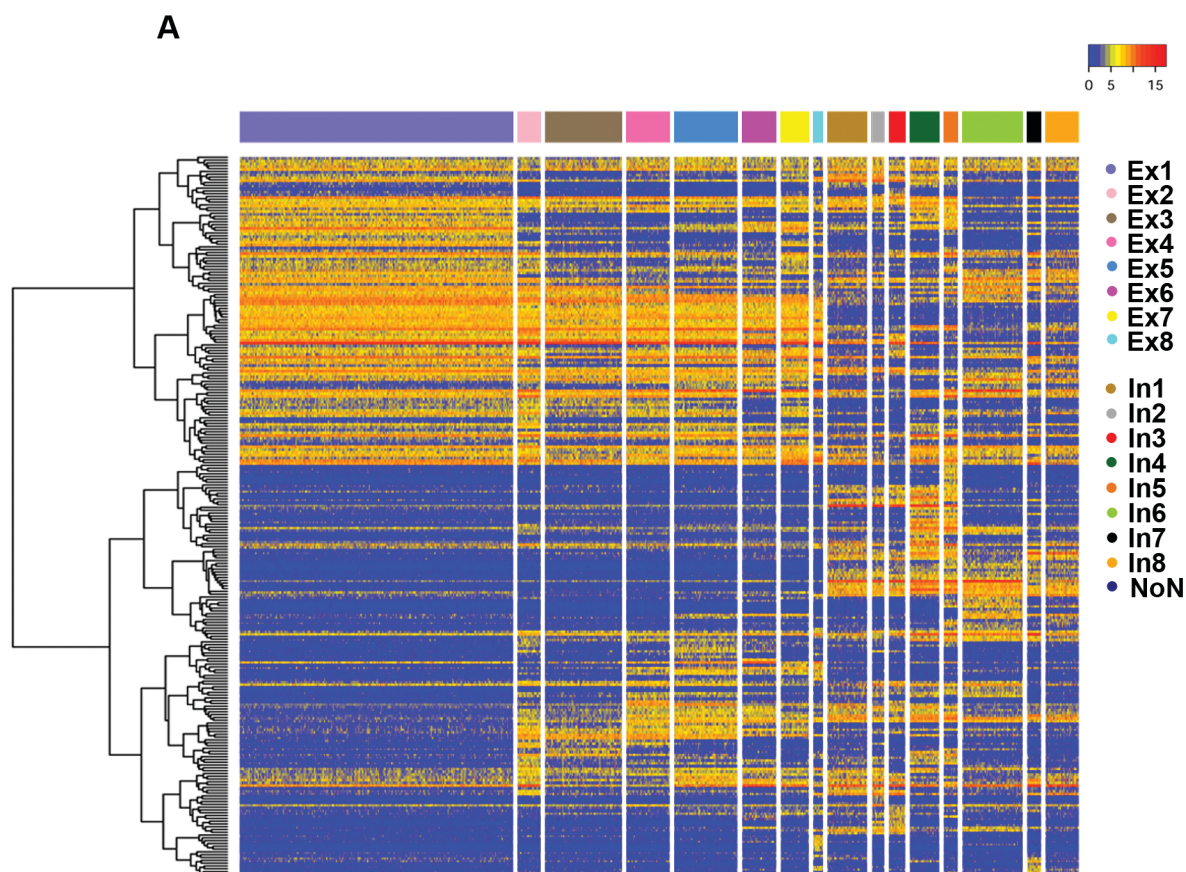
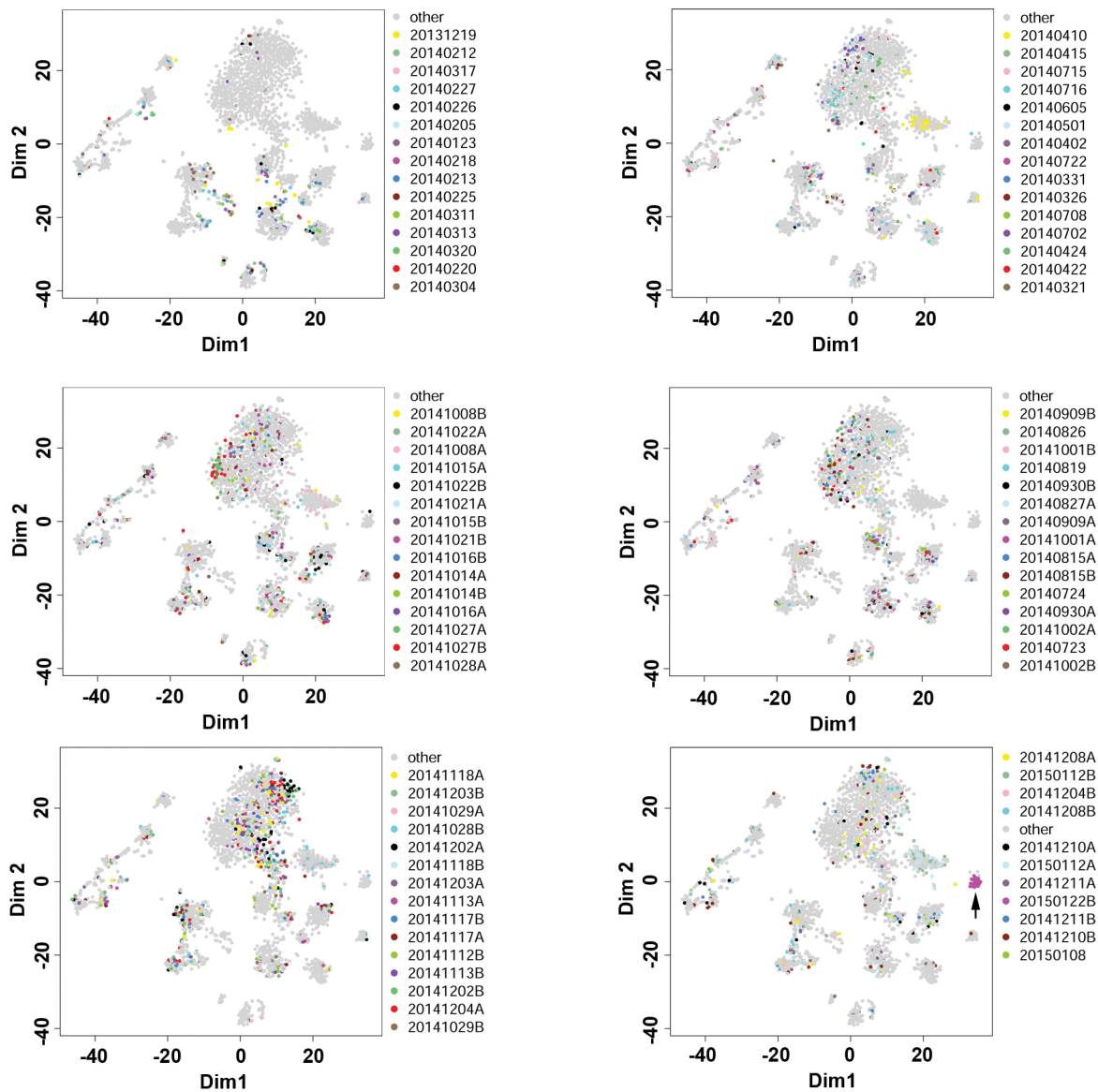


Fig. S10

A



B

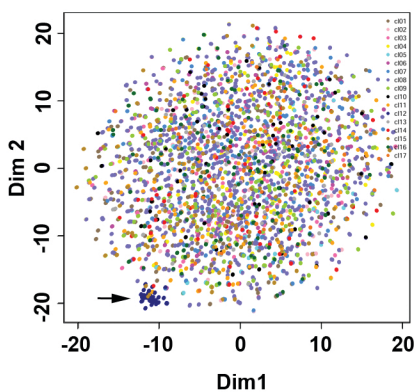


Fig. S11

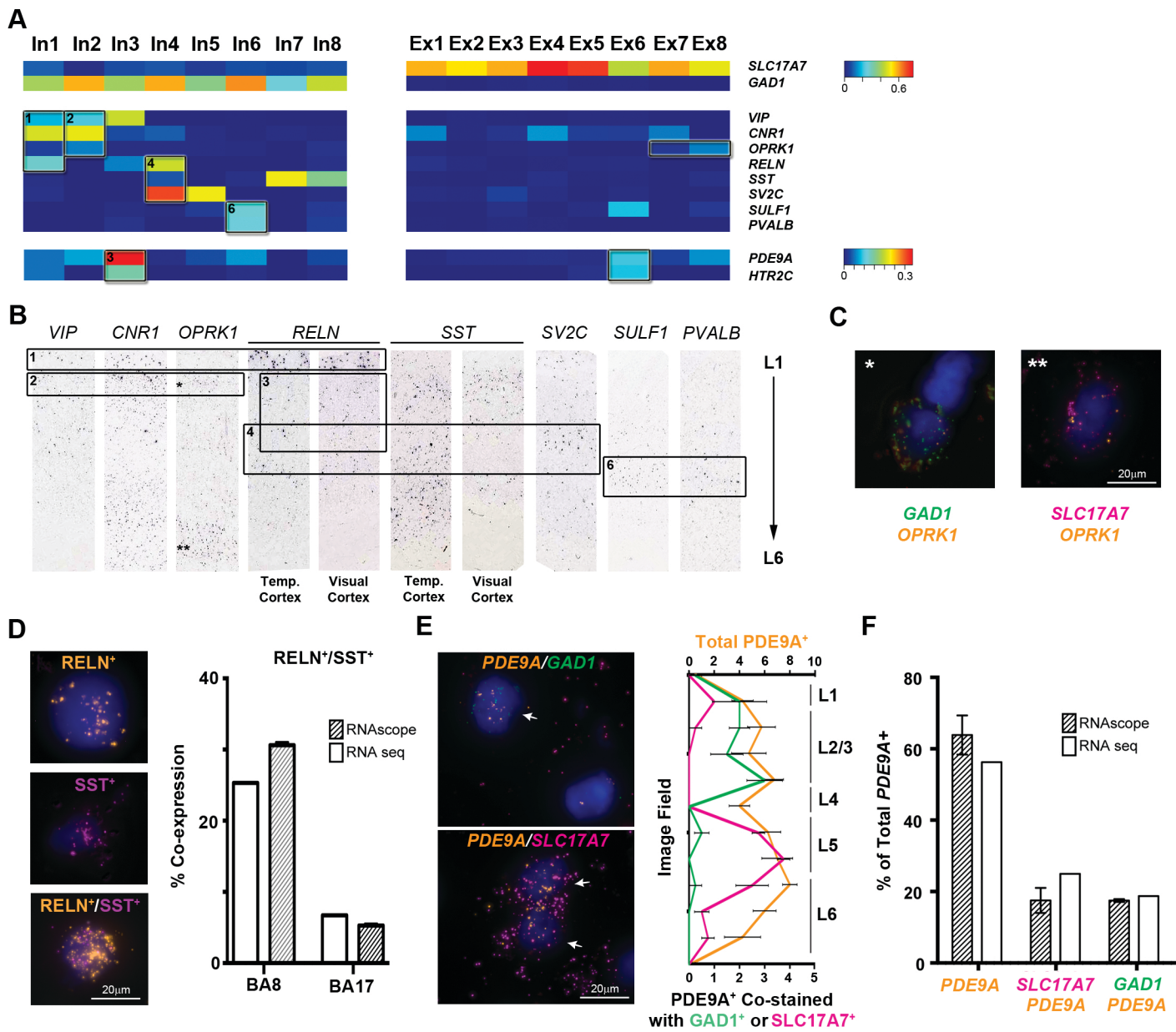
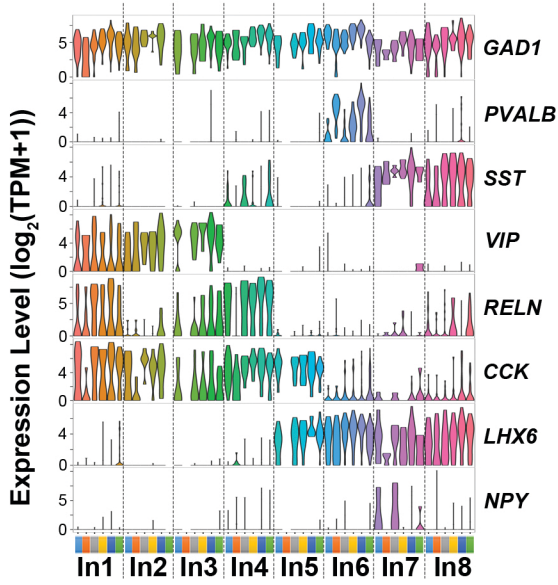


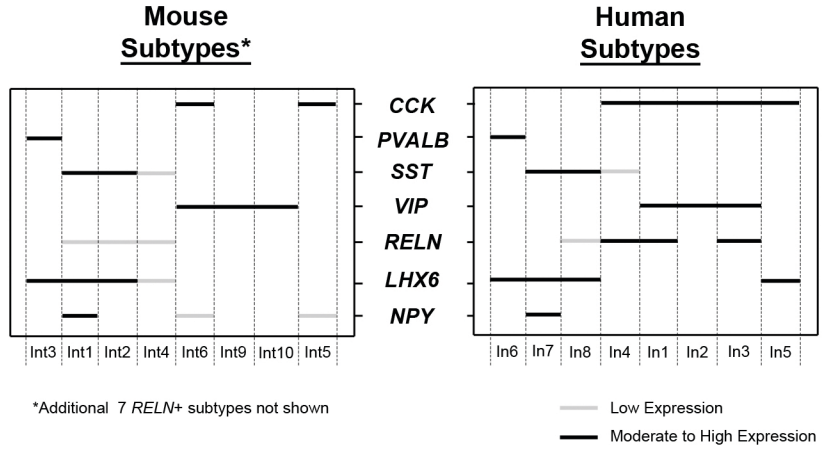
Fig. S12

A

Inhibitory Neurons

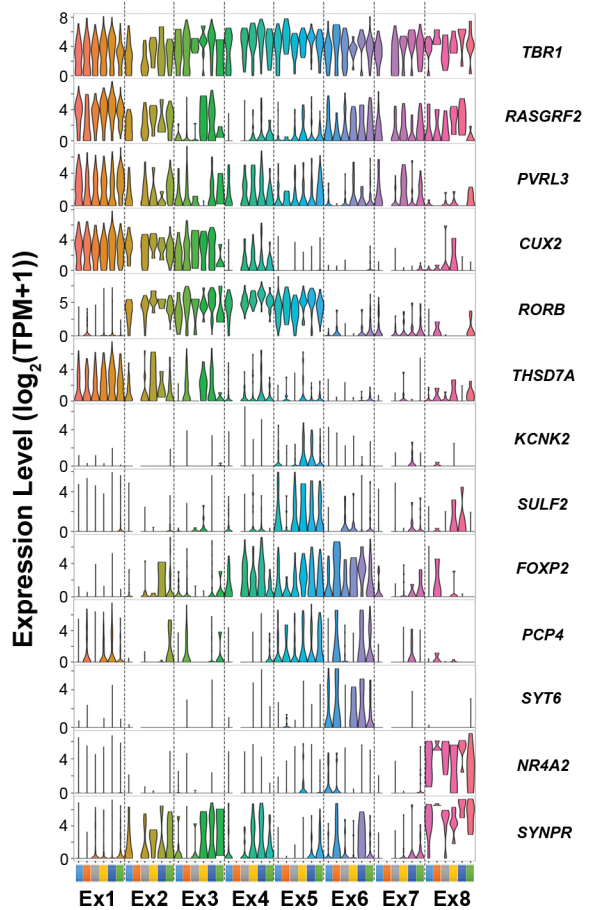


Combinatorial Marker Profiles

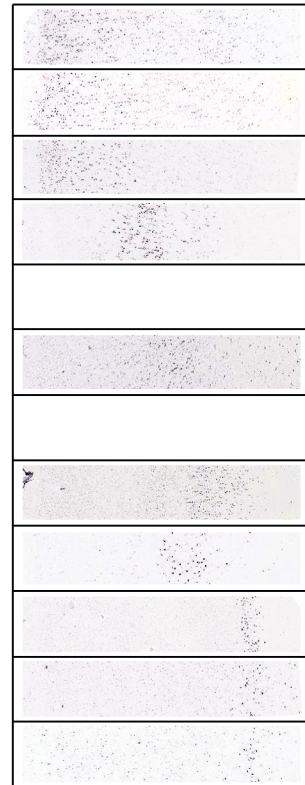


B

Excitatory Neurons



RNA ISH (human)



ISH Region Mouse Pattern Human Pattern

Gene	ISH Region	Mouse Pattern	Human Pattern
TBR1	Temporal Cortex	L2/3/4/5a	L2-6
RASGRF2	Temporal Cortex	L2/3/5a	L2-6
PVRL3	Temporal Cortex	L2-5a	L2-4
CUX2	Temporal Cortex	L4-5a	L4-5
RORB	Temporal Cortex	L5a	L2-4
THSD7A	Temporal Cortex	L5a	L5
KCNK2	Temporal Cortex	L5	L5
SULF2	Temporal Cortex	L6	L5/6
FOXP2	Temporal Cortex	L5-6b	L5
PCP4	Visual Cortex	L6	L6b
SYT6	Visual Cortex	ClauPyr	L6b
NR4A2	Temporal Cortex	ClauPyr	L6b
SYNPR	Temporal Cortex		

■ BA10 ■ BA17 ■ BA21 ■ BA22 ■ BA41/42 ■ BA8

Fig. S13

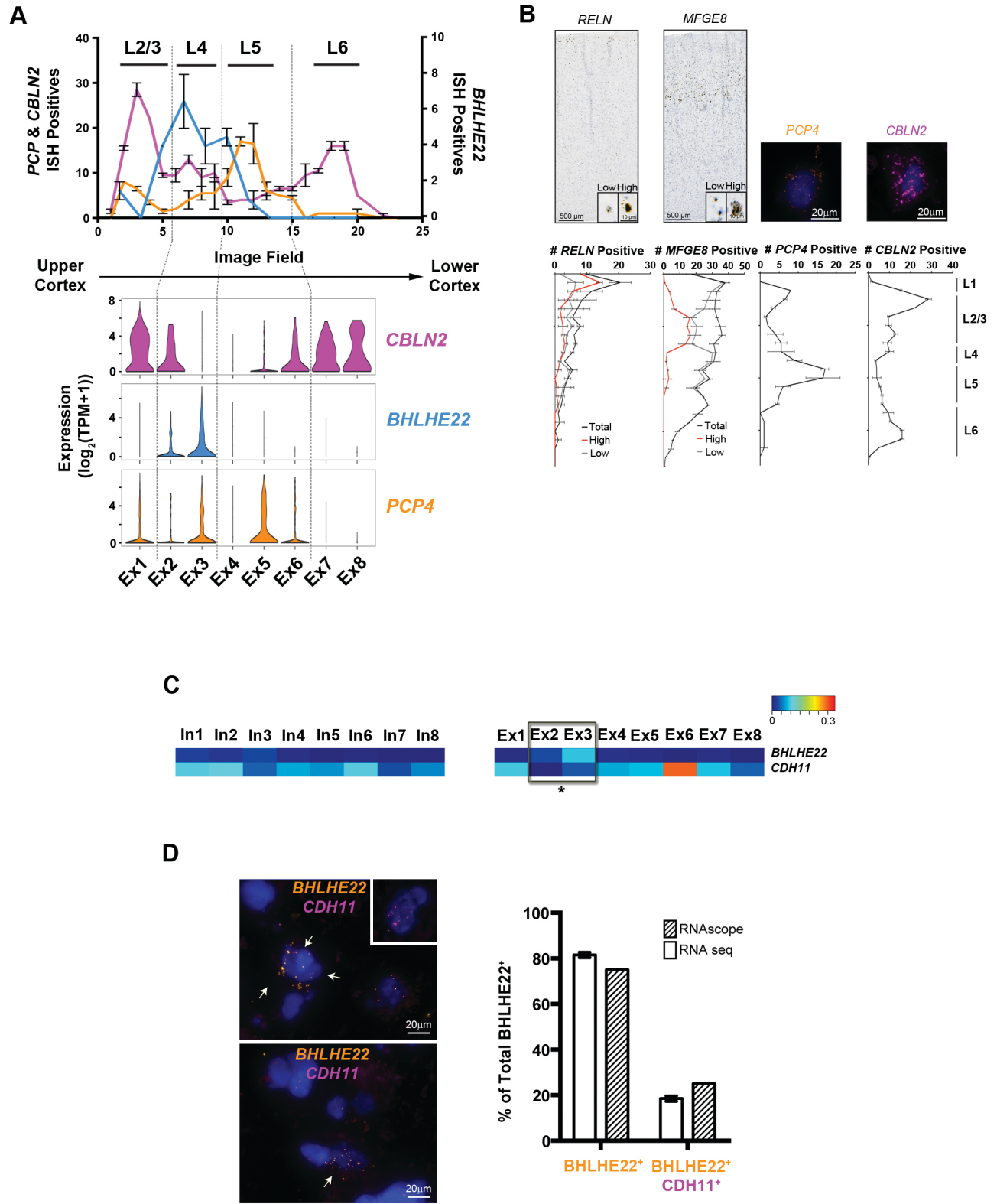
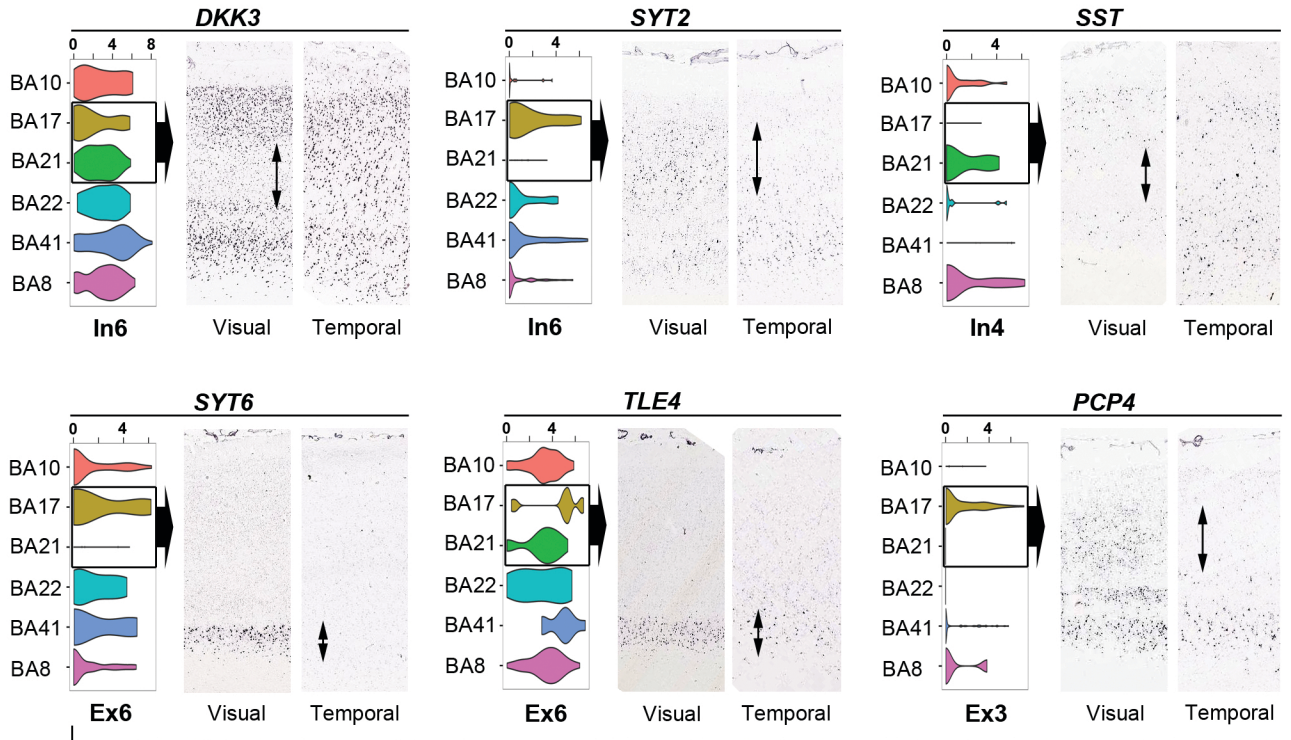


Fig. S14

A



BA17 (Visual Cortex) vs BA21 (Temporal Cortex)

B

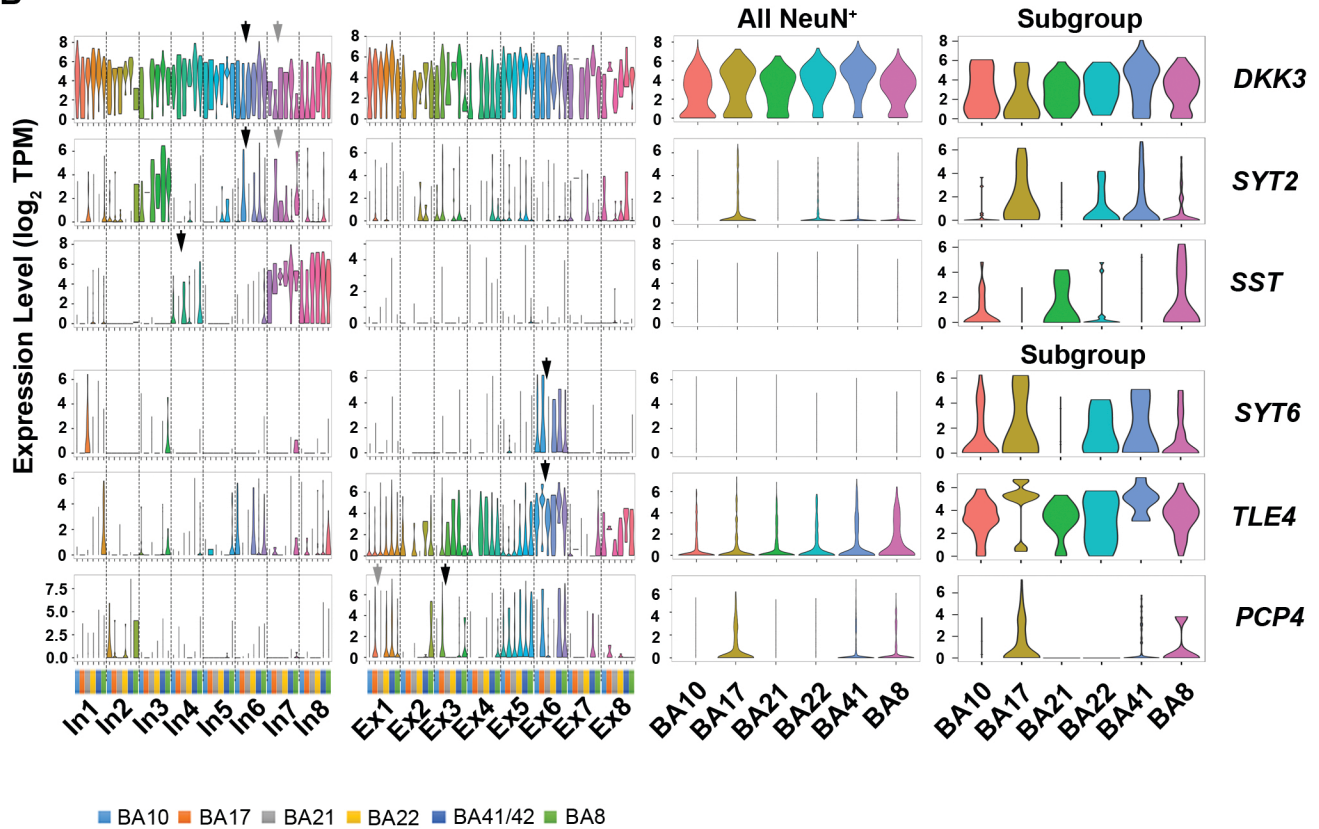
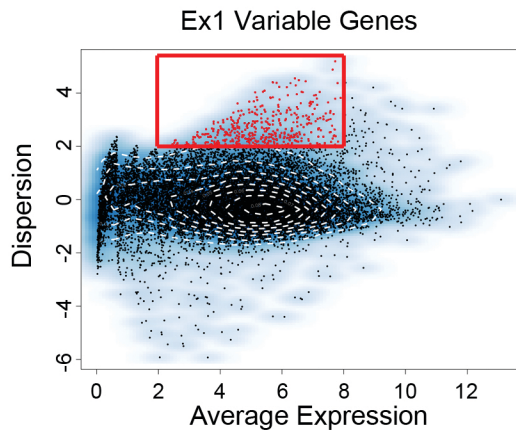
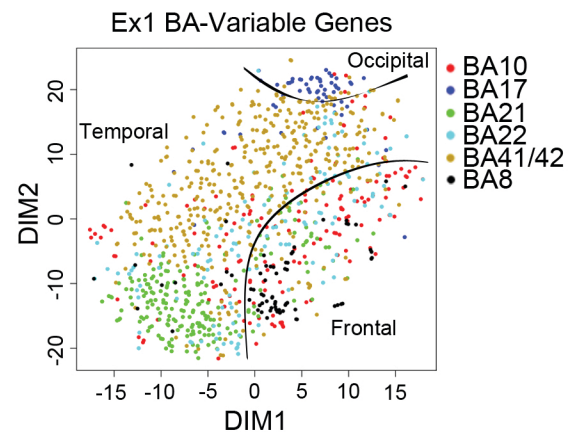


Fig. S15

A



B



C

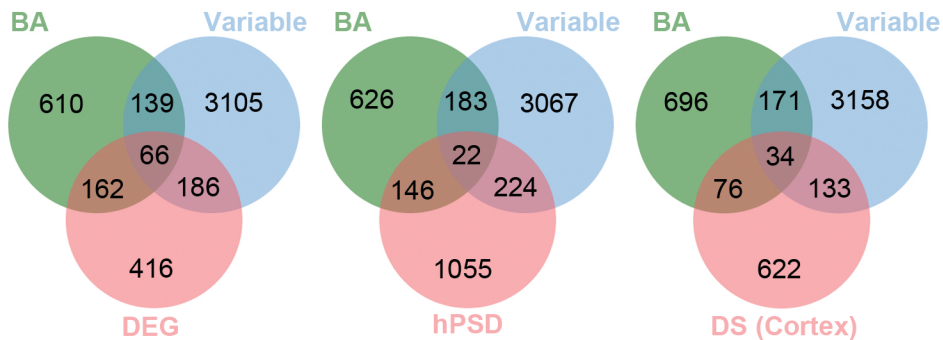


Fig. S16

