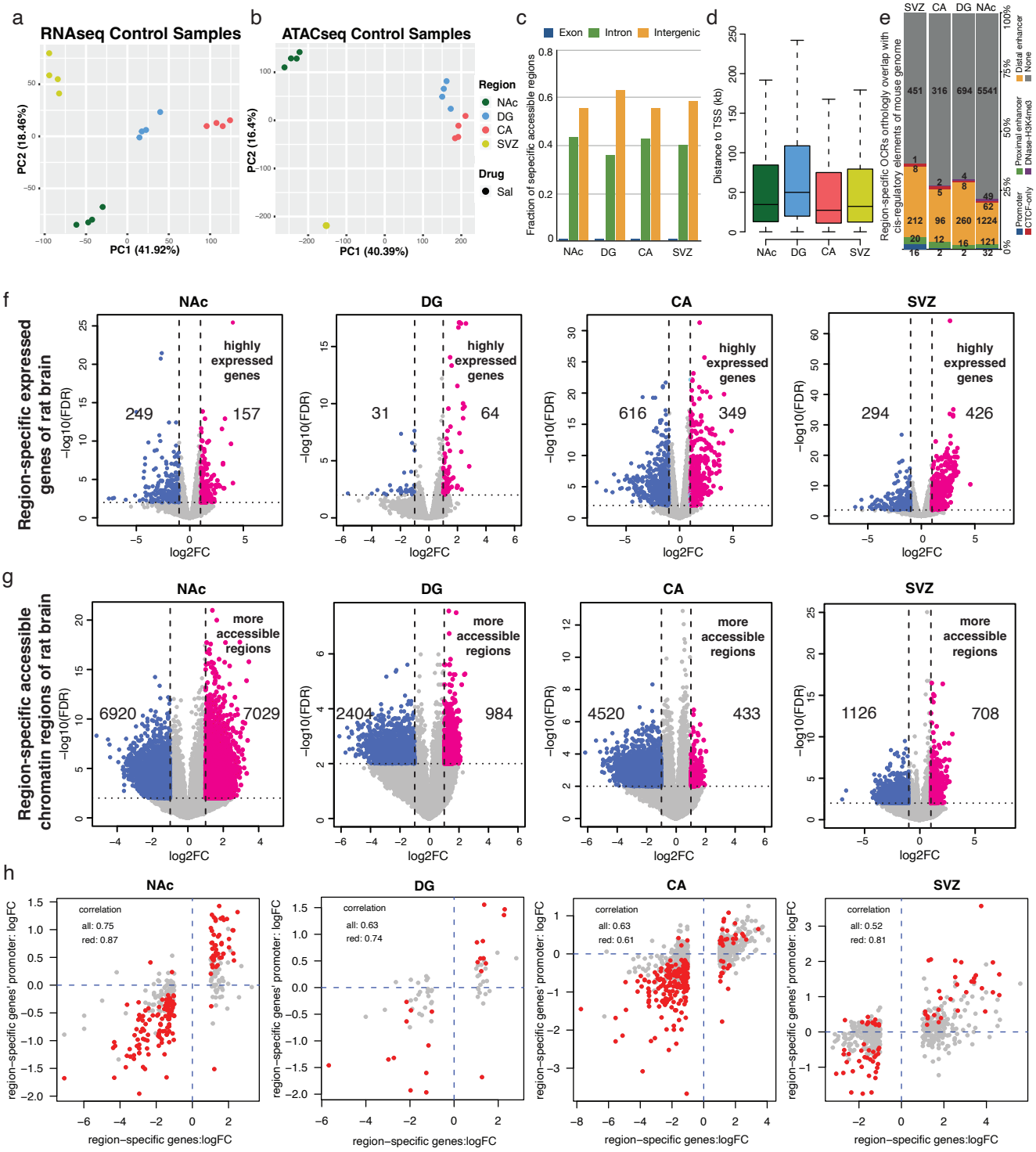
a
RNAseq Control Samples
PC2 (18.46%)
PC1 (41.92%)
b
ATACseq Control Samples
PC2 (16.4%)
PC1 (40.39%)
Region
NAc
DG
CA
SVZ
Drug
Sal
c
Exon
Intron
Intergenic
Fraction of sepecific accessible regions
NAc
DG
CA
SVZ
d
Distance to TSS (kb)
NAc
DG
CA
SVZ
e
SVZ
CA
DG
NAc
Region-specific OCRs orthology overlap with cis-regulatory elements of mouse genome
451
316
694
5541
1
8
2
5
4
8
212
96
260
1224
49
62
20
12
16
121
16
2
2
32
100%
75%
50%
25%
0%
Distal enhancer
None
Proximal enhancer
DNase-H3K4me3
Promoter
CTCF-only
f
NAc
DG
CA
SVZ
Region-specific expressed genes of rat brain
highly expressed genes
249
157
31
64
616
349
294
426
−log10(FDR)
log2FC
g
NAc
DG
CA
SVZ
Region-specific accessible chromatin regions of rat brain
more accessible regions
6920
7029
2404
984
4520
433
1126
708
−log10(FDR)
log2FC
h
NAc
DG
CA
SVZ
correlation
all: 0.75
red: 0.87
all: 0.63
red: 0.74
all: 0.63
red: 0.61
all: 0.52
red: 0.81
region−specific genes' promoter: logFC
region−specific genes:logFC