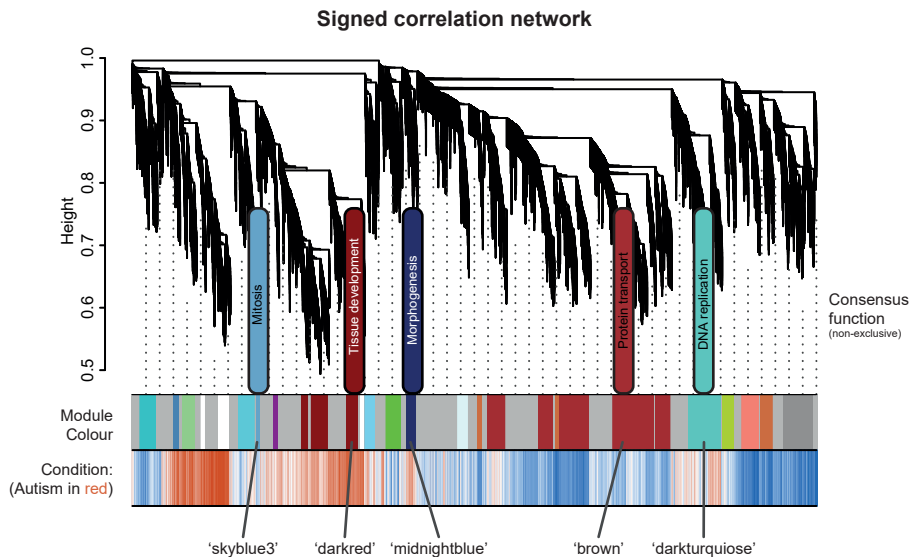


a



b

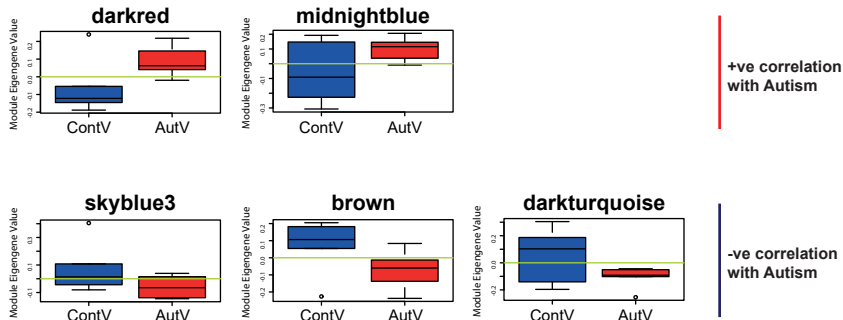


Figure S2

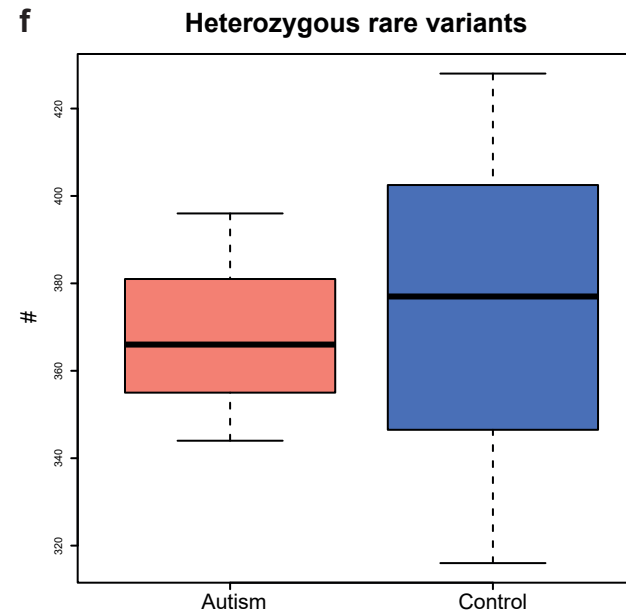
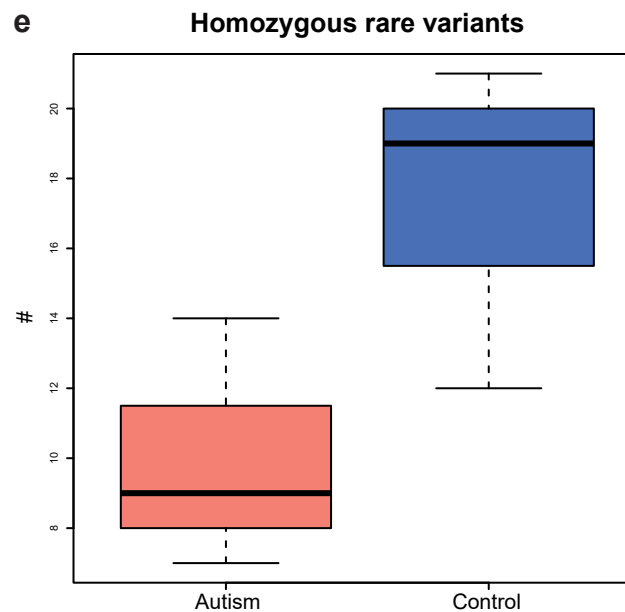
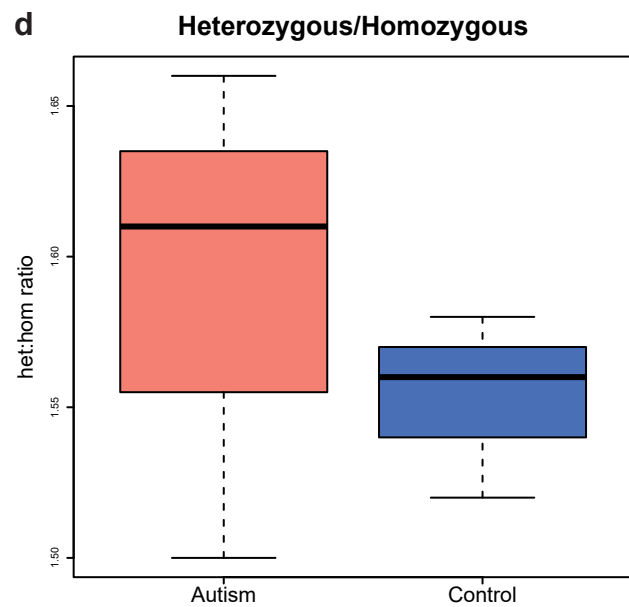
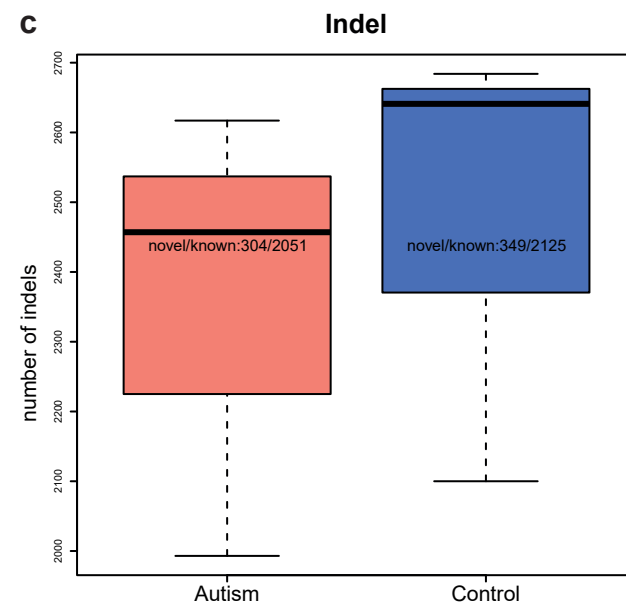
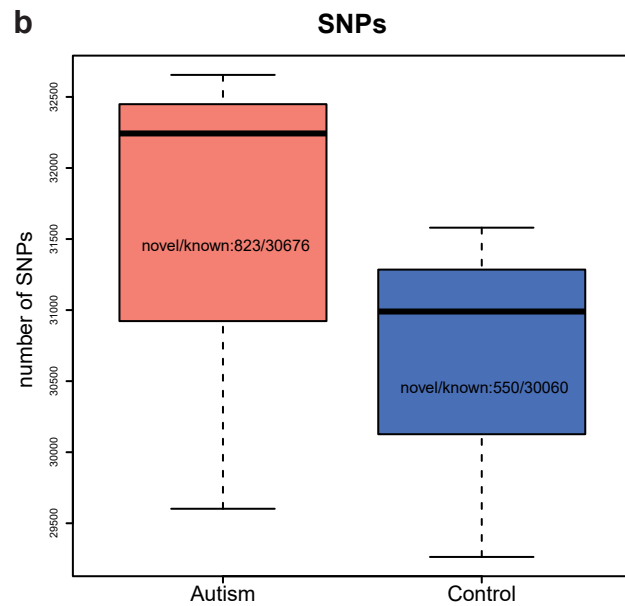
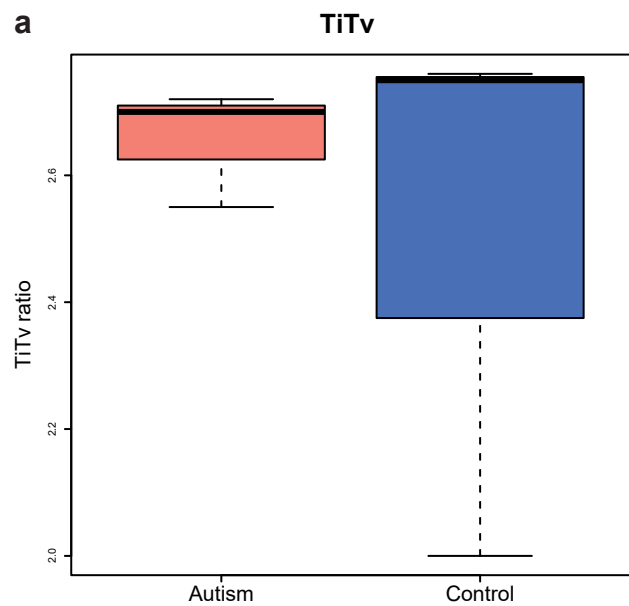


Figure S3

Differential expression of ACP genes in iDN

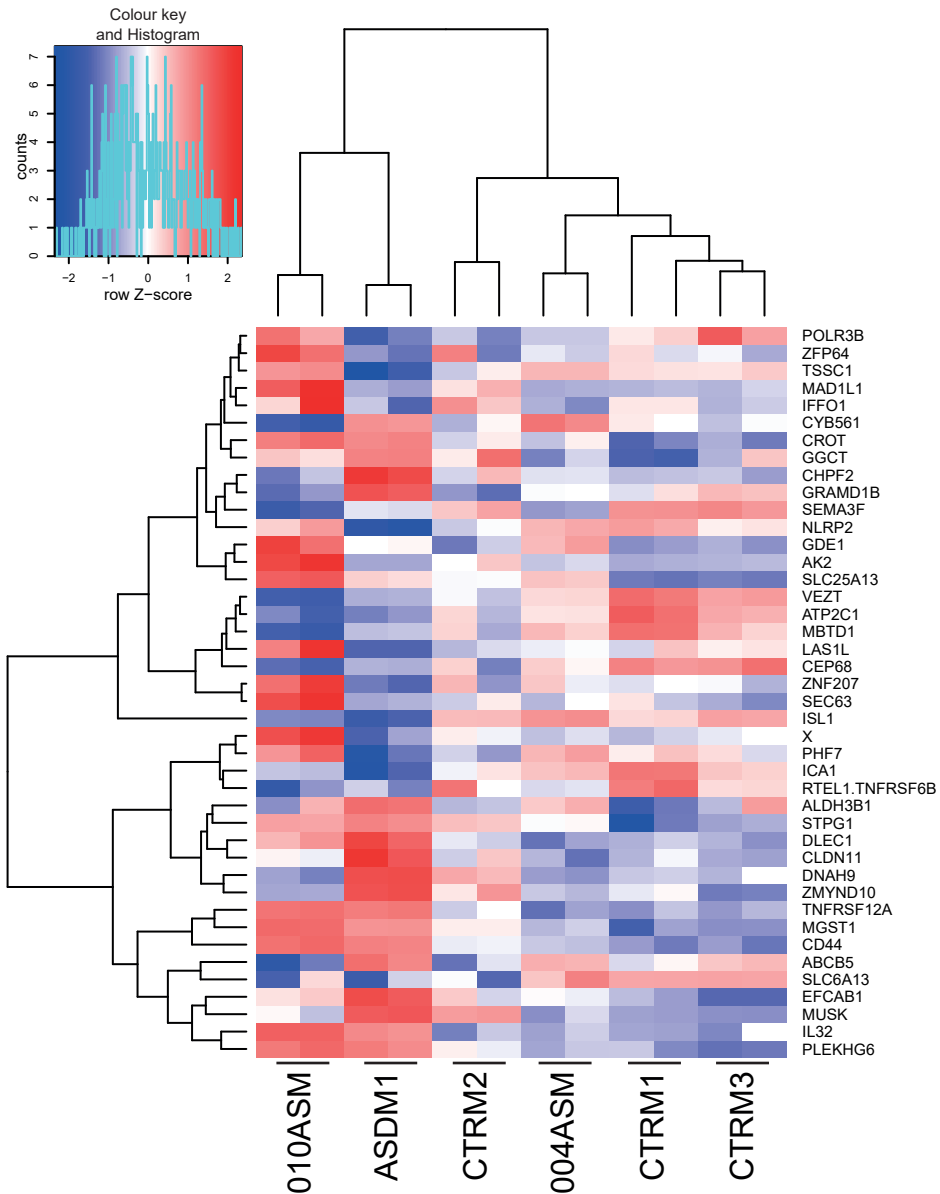


Figure S4

Sample collection and RNA-seq



Hair follicle

Keratinocytes

Reprogramming
(Takahashi et al., 2007)

iPSC

Cortical neuron differentiation
(Shi et al., 2012)

Neurons

cDNA library prep
(Illumina TruSeq)

cDNA library

Illumina HiSeq2500

Nucleotide sequences

Bioinformatic analysis

Genome alignment (STAR: RNAseq aligner)

Aligned sequences (RAW data)

Quality check (Picard tools, QoRTs)
Read counts (HTSeq)

Read counts

Quantile normalization (cqn)

Normalized counts

DEX (R function: lm)

Differential gene expression

Gene network analysis (WGCNA)

Gene co-expression modules

Logistic regression (R function: glm)
Fisher's exact test (R function: fisher.test)

Enriched gene modules

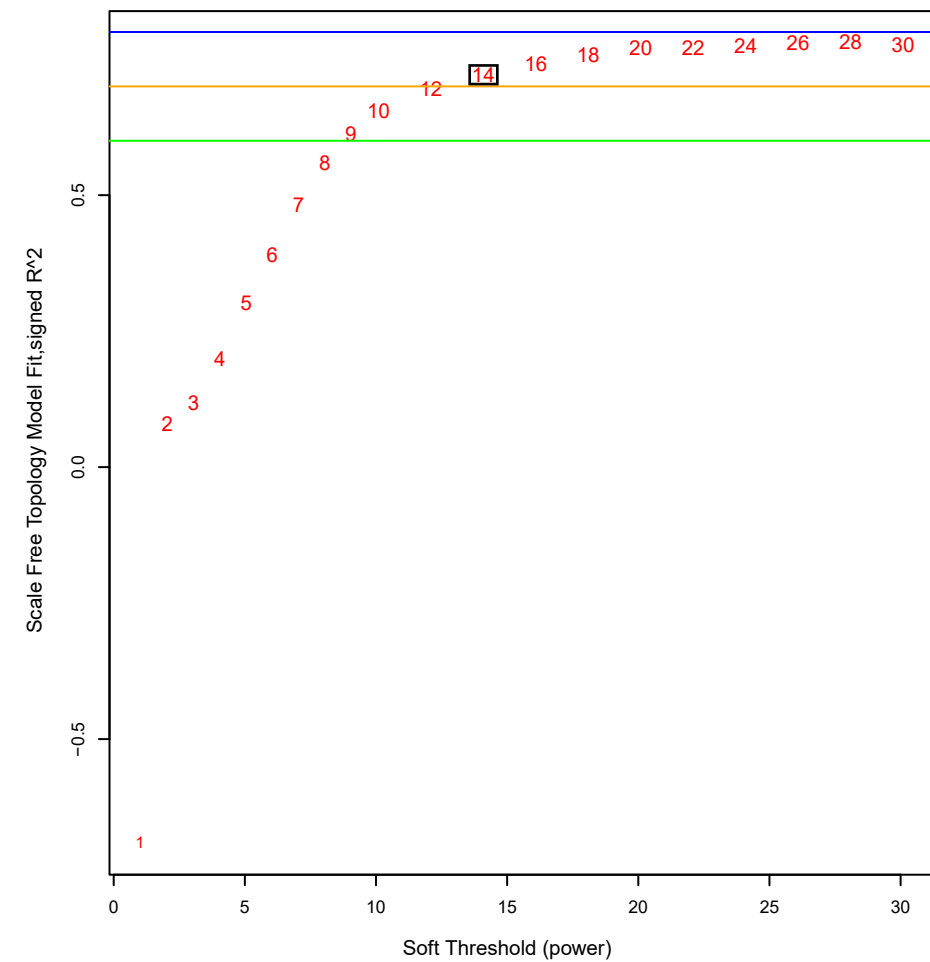
TFBS (Clover, MEME)

Transcription factors

Figure S5

a

Scale independence



b

Mean connectivity

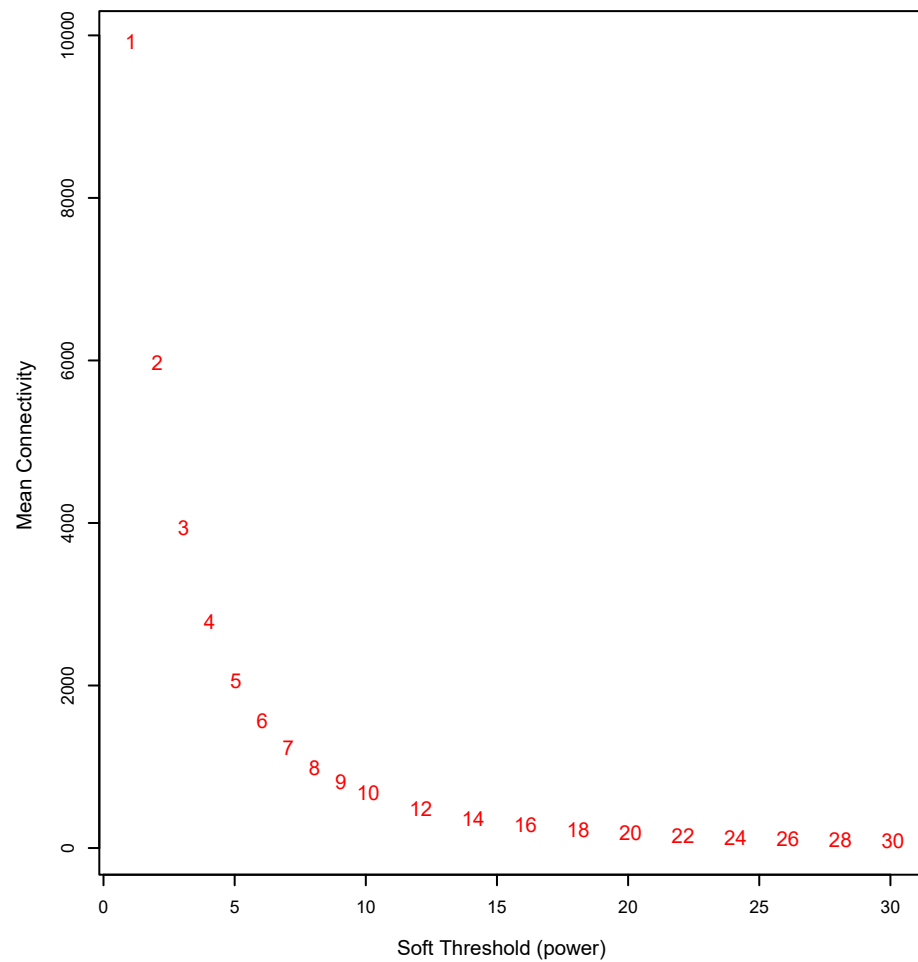
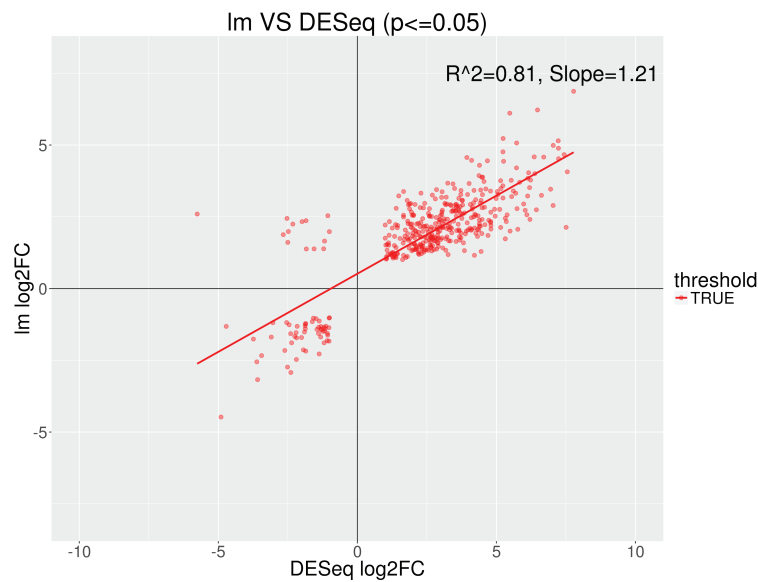
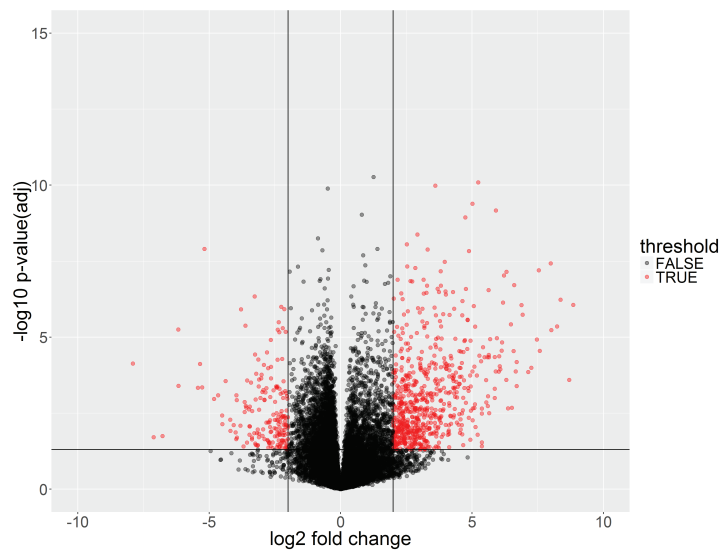


Figure S6

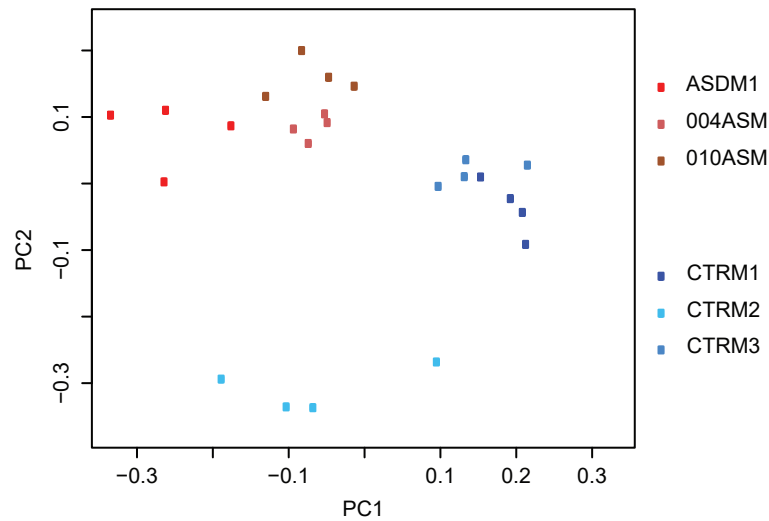
a



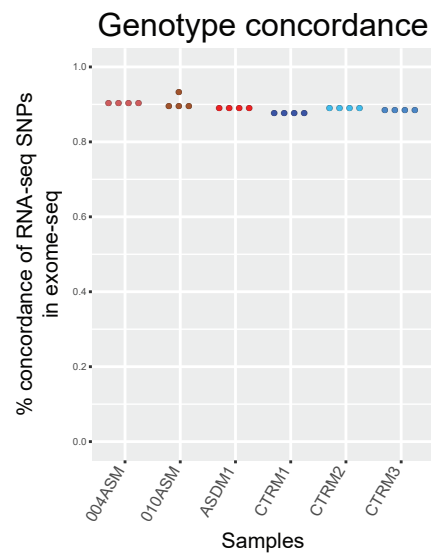
b



c



d



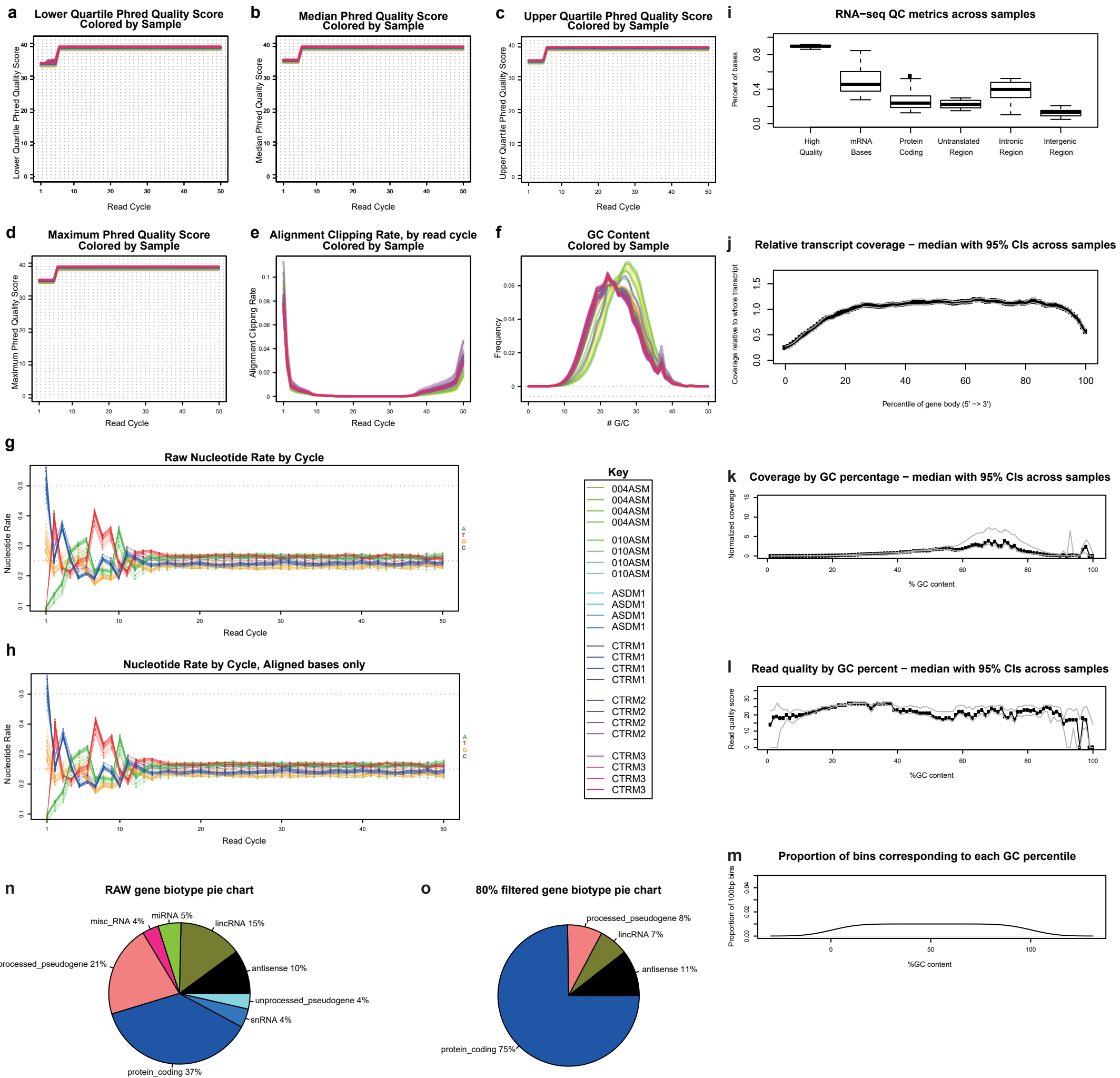


Figure S8

Schizophrenia and Cancer gene module enrichment in iDN

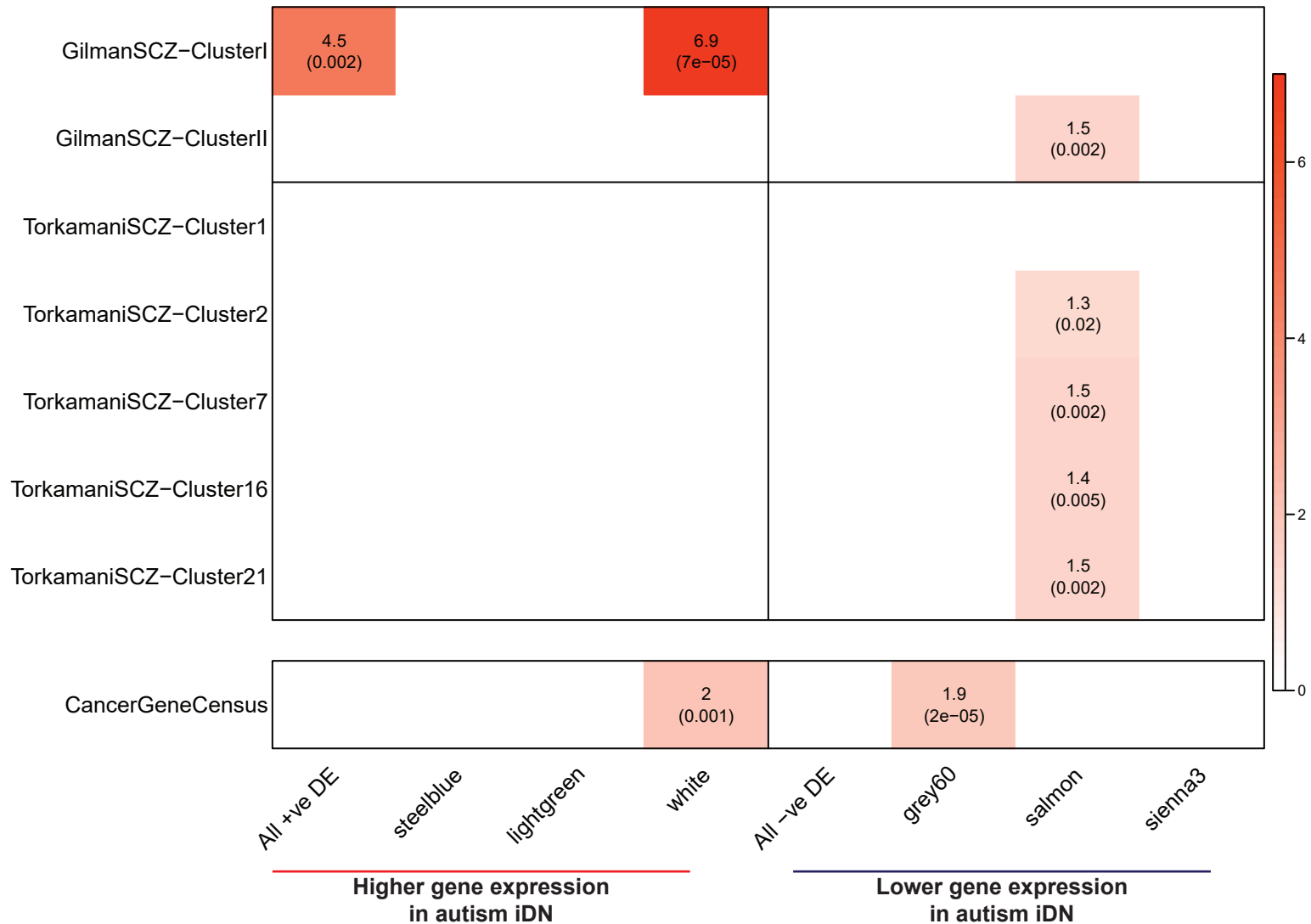
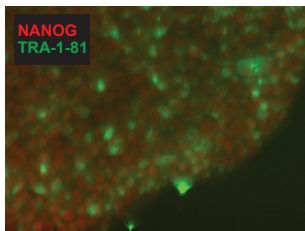
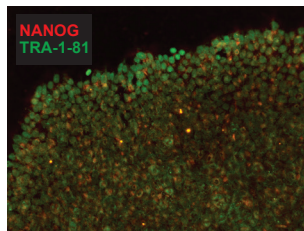


Figure S9

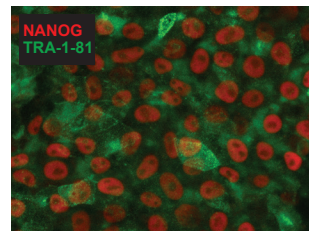
a. Control iPSC lines



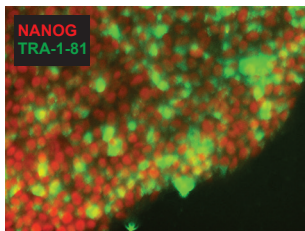
CTR.M1.04



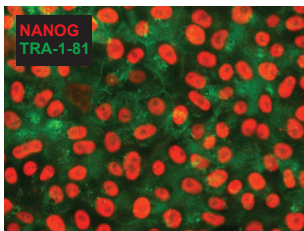
CTR.M3.22



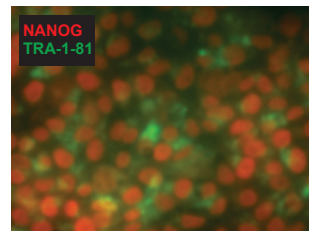
CTR.M2.42



CTR.M1.11

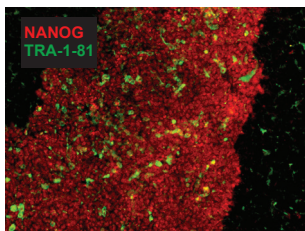


CTR.M3.15

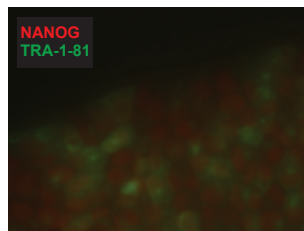


CTR.M2.05

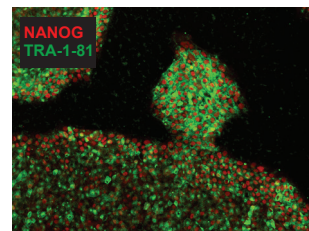
b. Autism iPSC lines



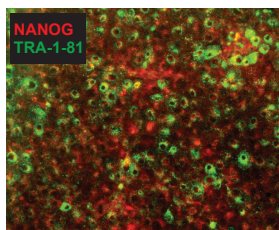
010.ASM.06



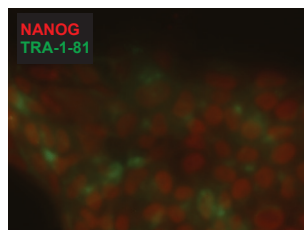
ASD.M1.08



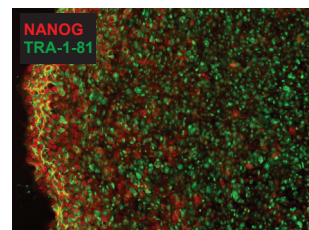
004.ASM.09



010.ASM.05



ASD.M1.01



004.ASM.01