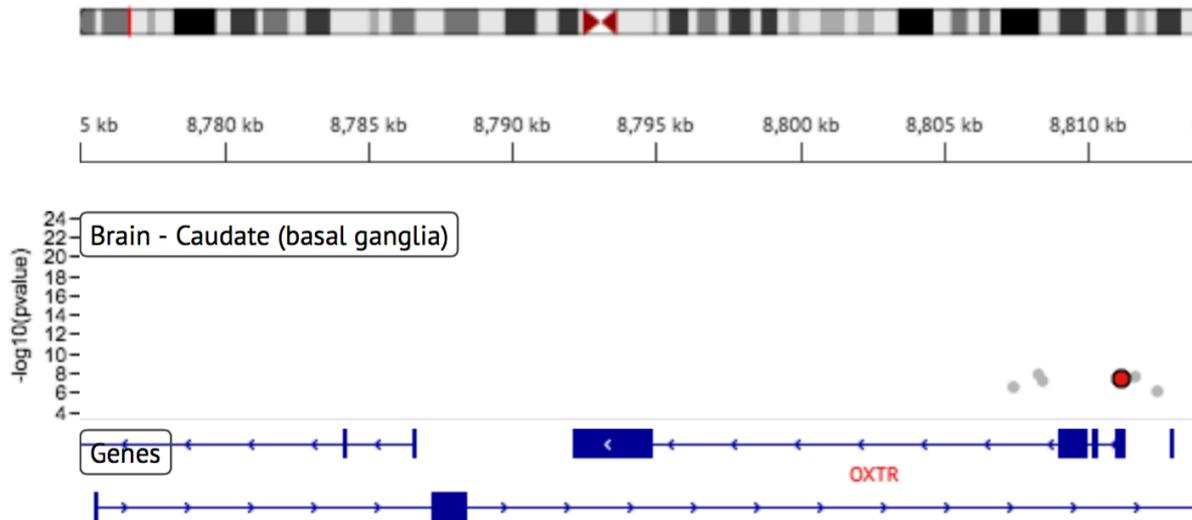
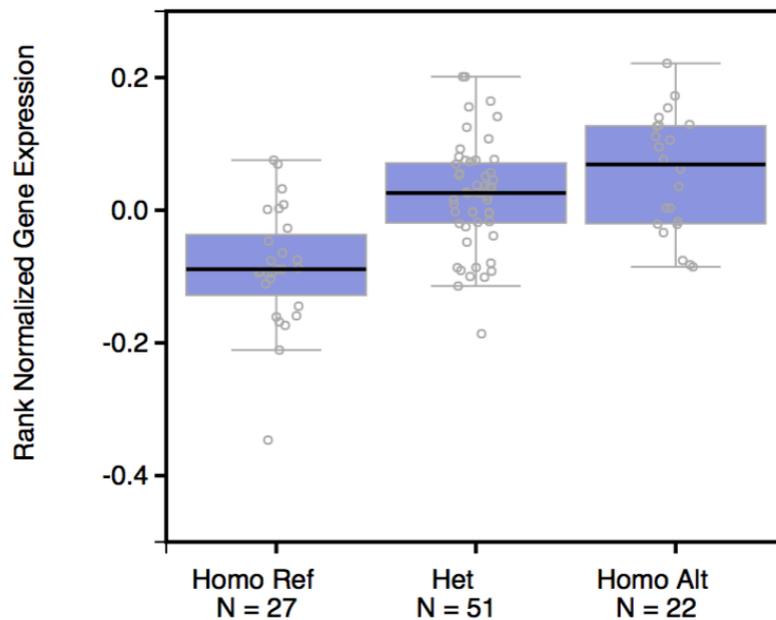


Supplementary Figure 1a

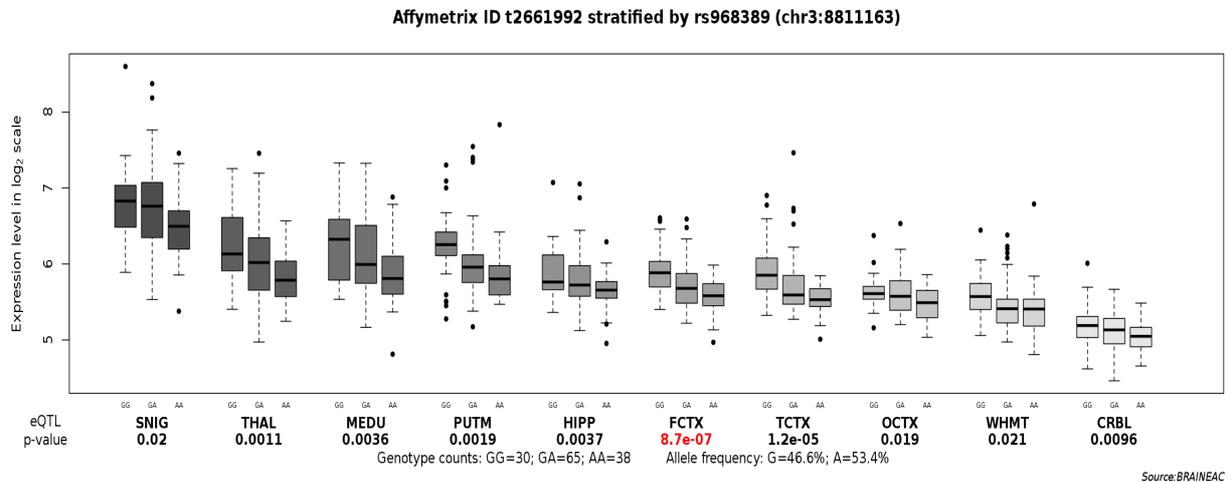


Brain_Caudate_basal_ganglia eQTL rs968389 ENSG00000180914.6



Supplementary Figure 1a: rs968389, located in the 5'UTR of the OXTR genes, is significantly associated with gene expression levels of OXTR gene in caudate basal ganglia in the brain, using the GTEX database [31]. Homo Ref refers to the AA genotype group, Het refers to the AG and Homo Alt refers to the GG genotype group.

Supplementary Figure 1b



Supplementary Figure 1b: Using the Braineac database (<http://www.braineac.org/>) from the UK Brain Expression Consortium, rs968389 was significantly associated with gene expression levels of OXTR gene in 10 brain regions: cerebellar cortex (CRBL), frontal cortex (FCTX), hippocampus (HIPP), medulla (specifically inferior olivary nucleus, MEDU), occipital cortex (specifically primary visual cortex, OCTX), putamen (PUTM), substantia nigra (SNIG), thalamus (THAL), temporal cortex (TCTX) and intralobular white matter (WHMT). Red denotes the frontal cortex region where the SNP showed the strongest association with gene expression. The risk genotype GG was associated with increased gene expression of the OXTR gene in the brain regions.