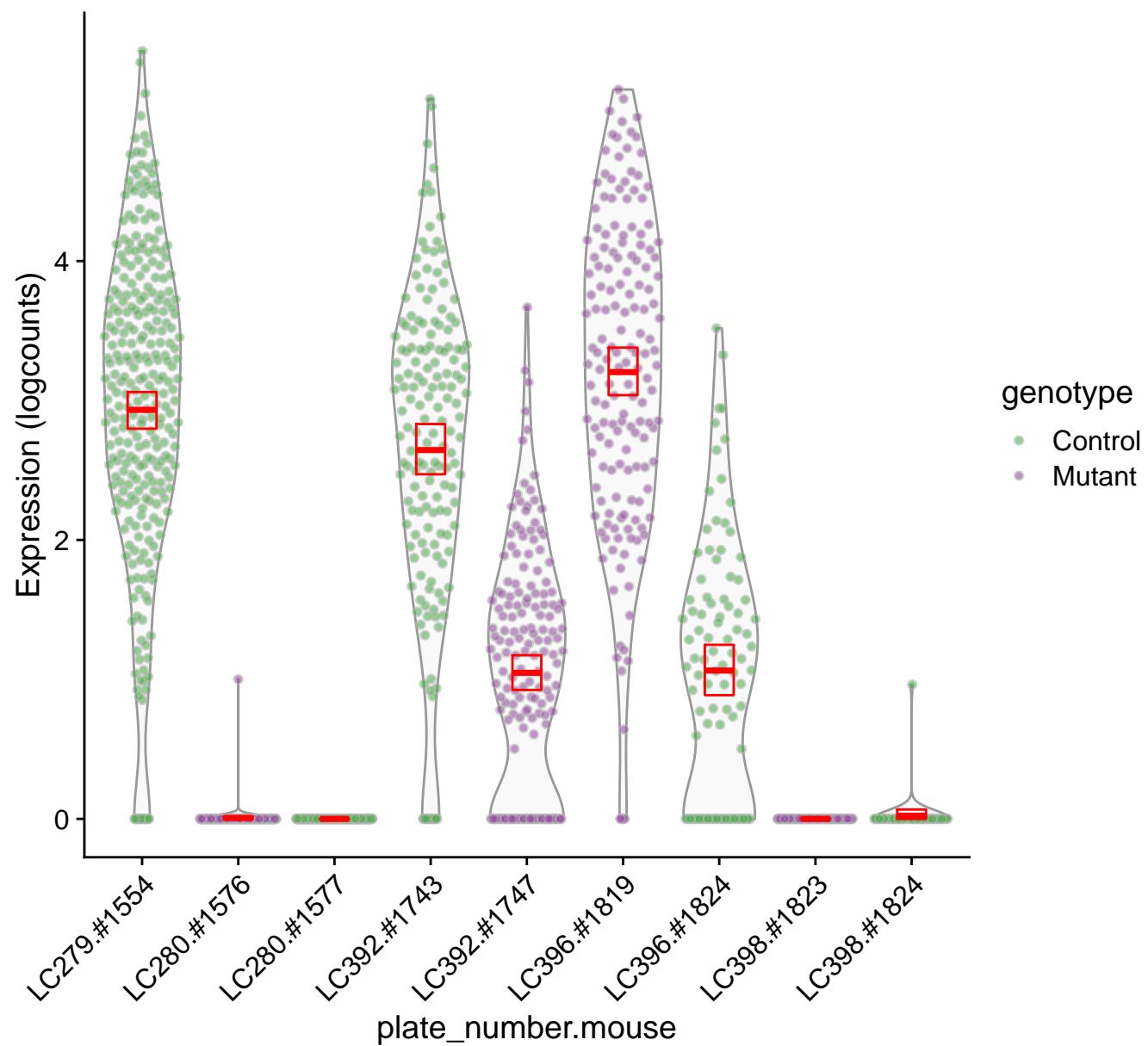


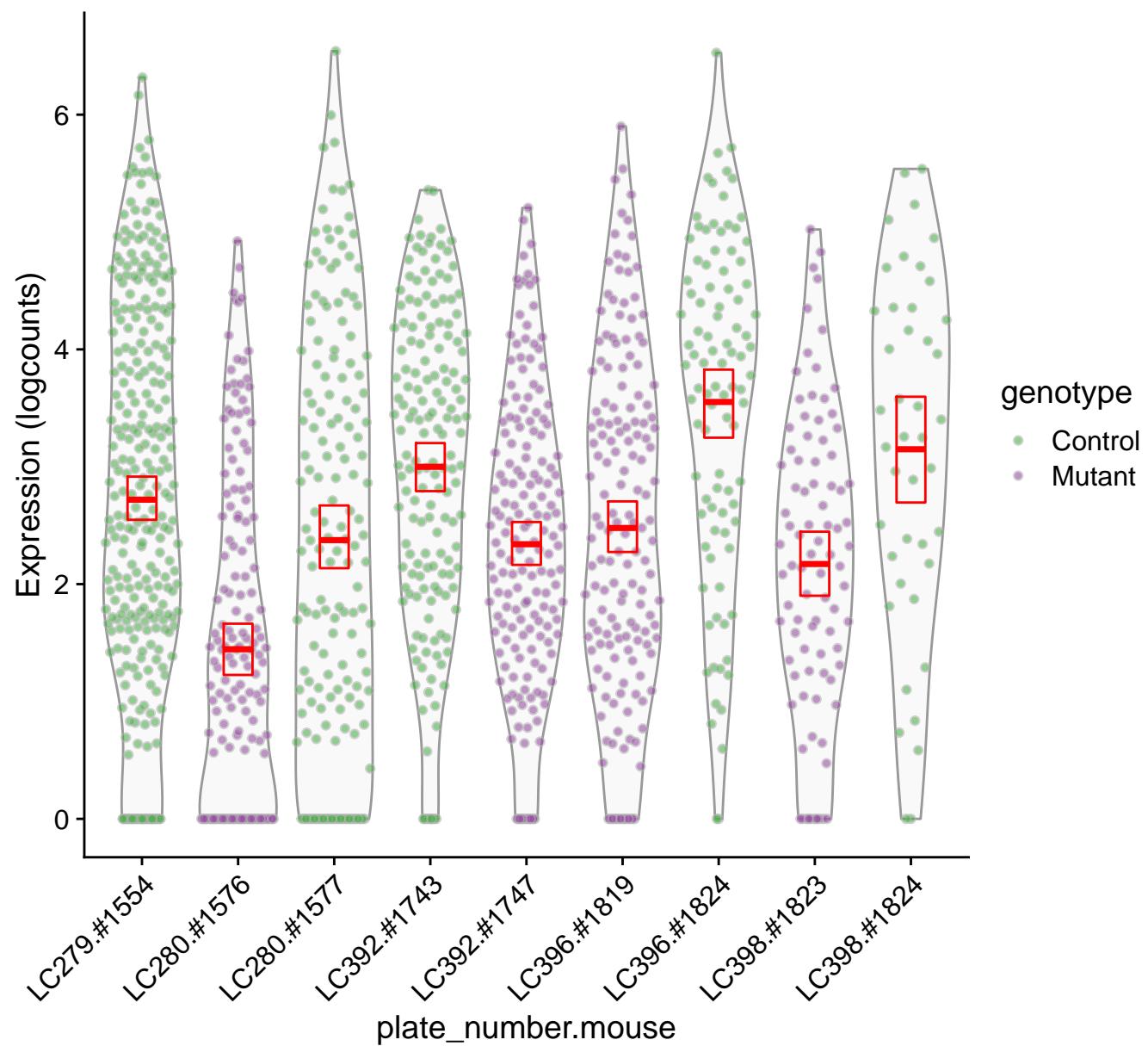
# Xist (FDR = 6e-57)

ignoring\_cluster\_labels



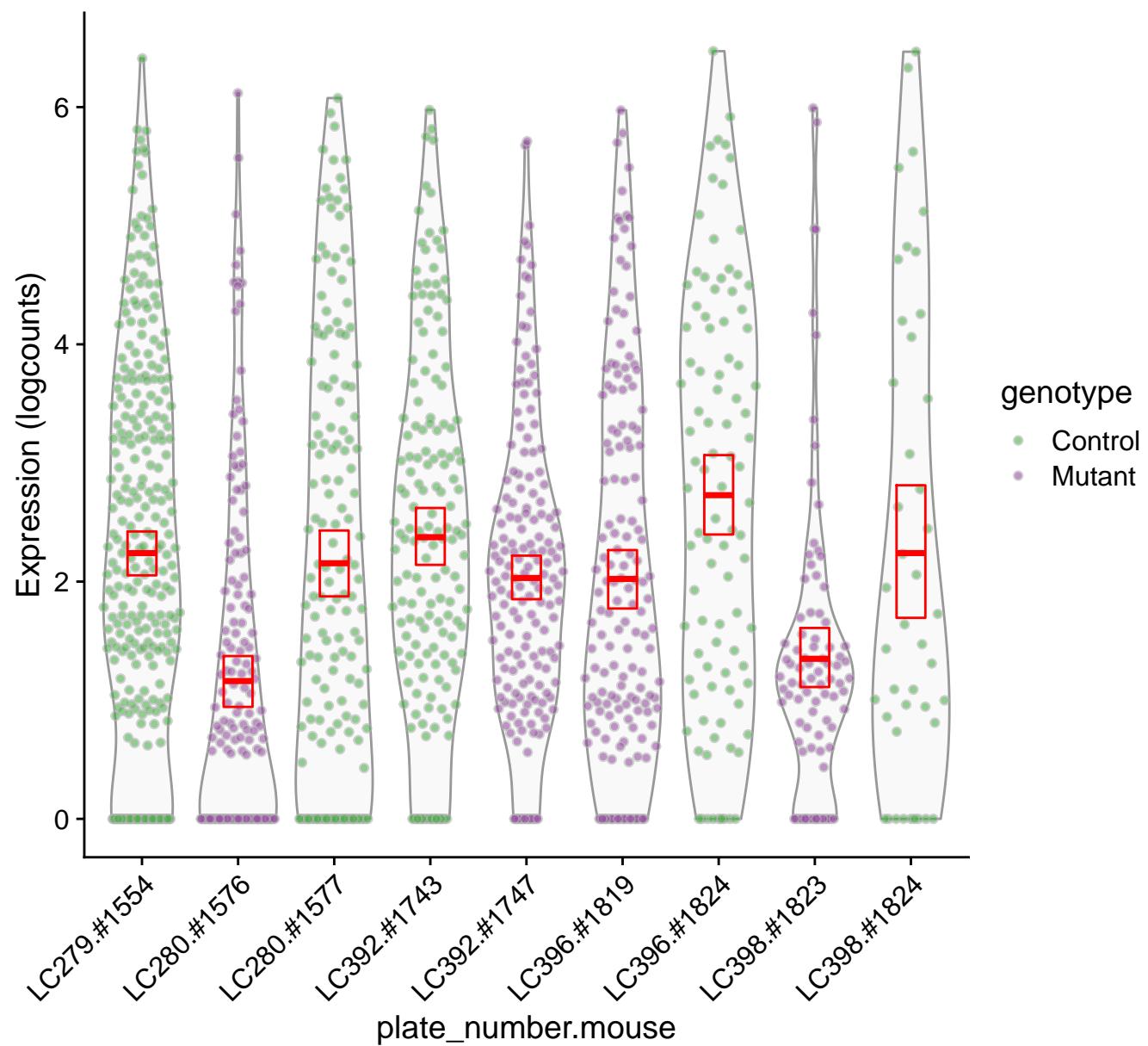
# Spock2 (FDR = 9e-39)

ignoring\_cluster\_labels



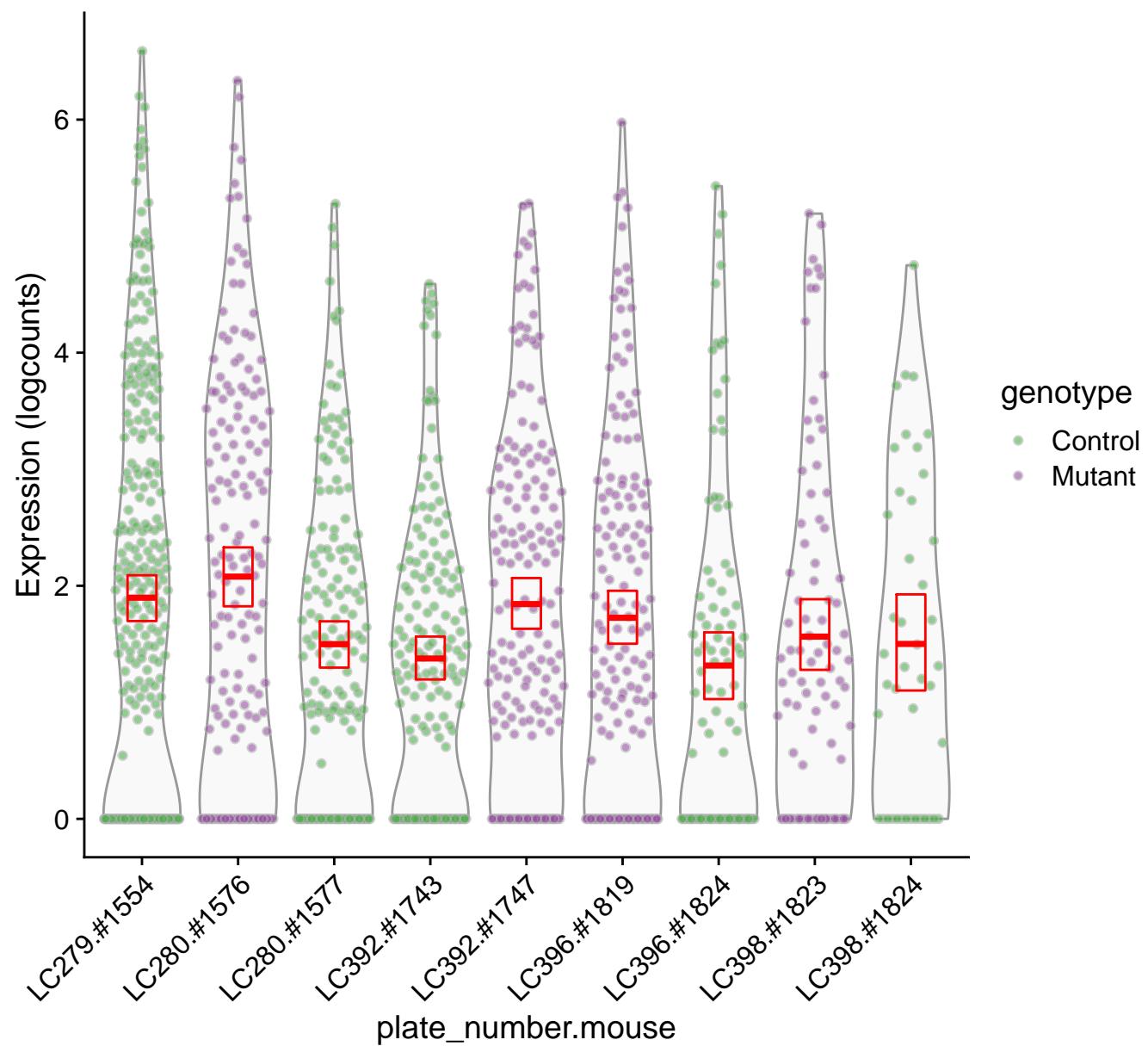
# **Slc6a6 (FDR = 4e-30)**

ignoring\_cluster\_labels



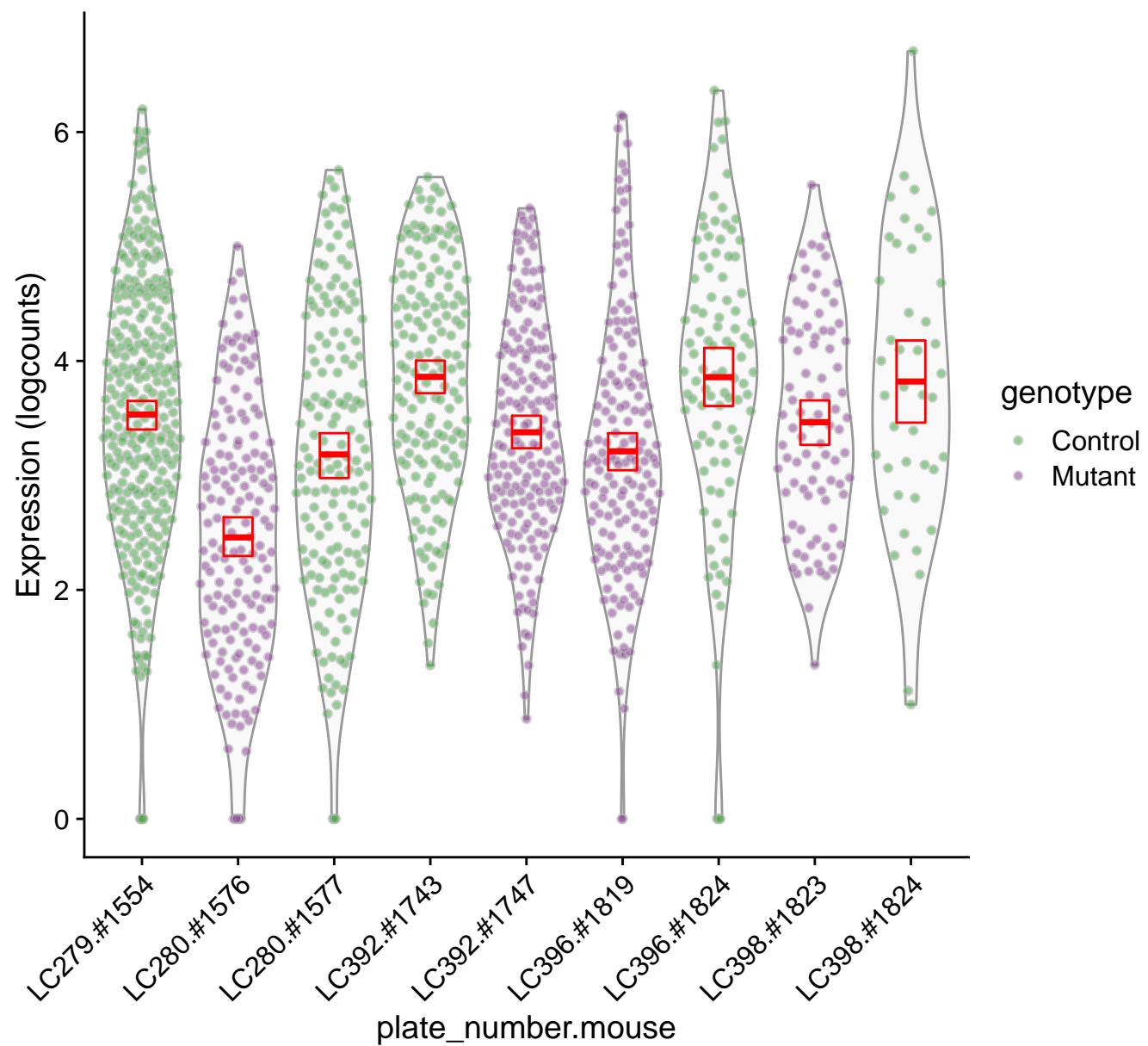
# Igfbp3 (FDR = 4e-30)

ignoring\_cluster\_labels



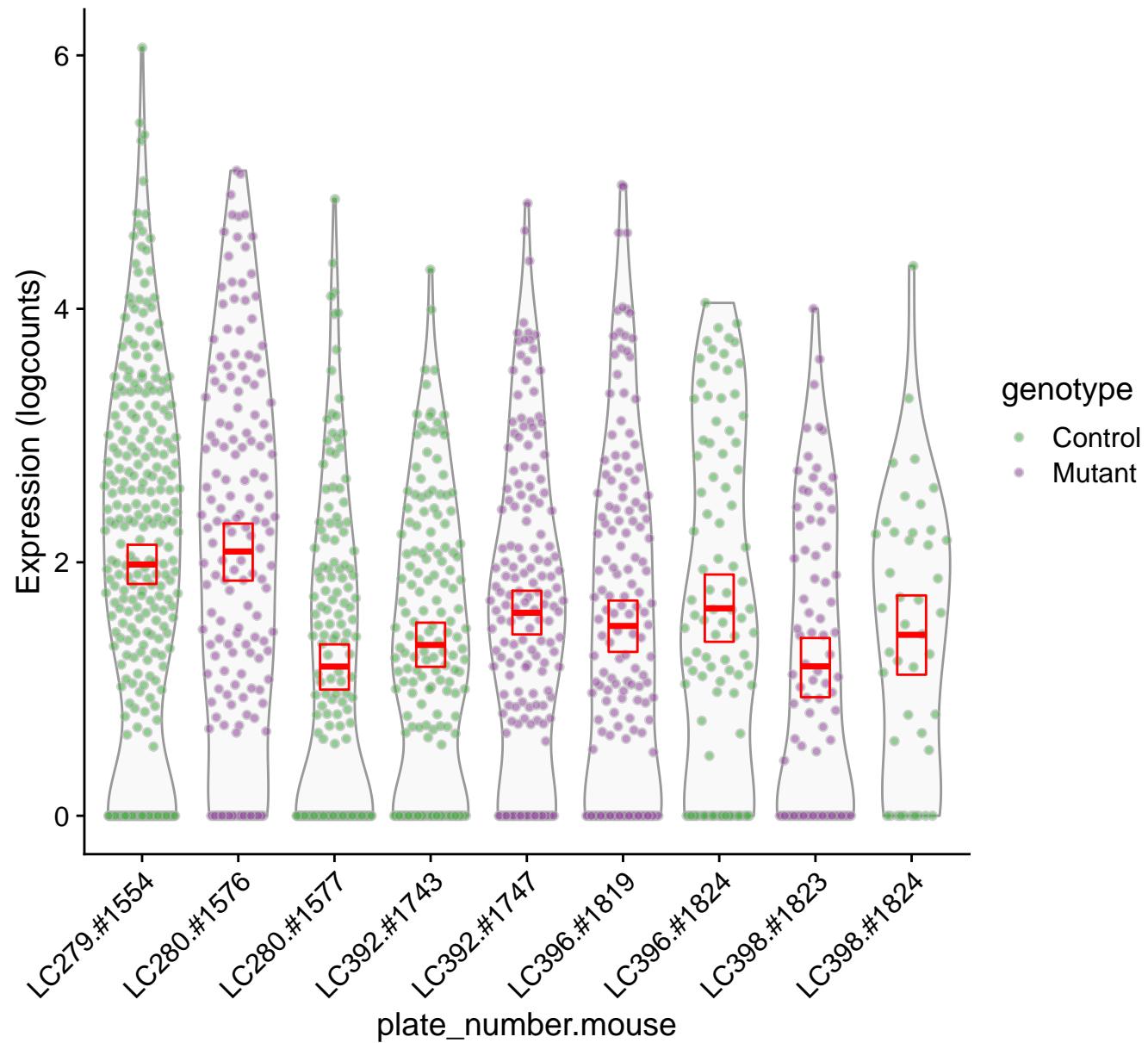
# Bsg (FDR = 1e-22)

ignoring\_cluster\_labels



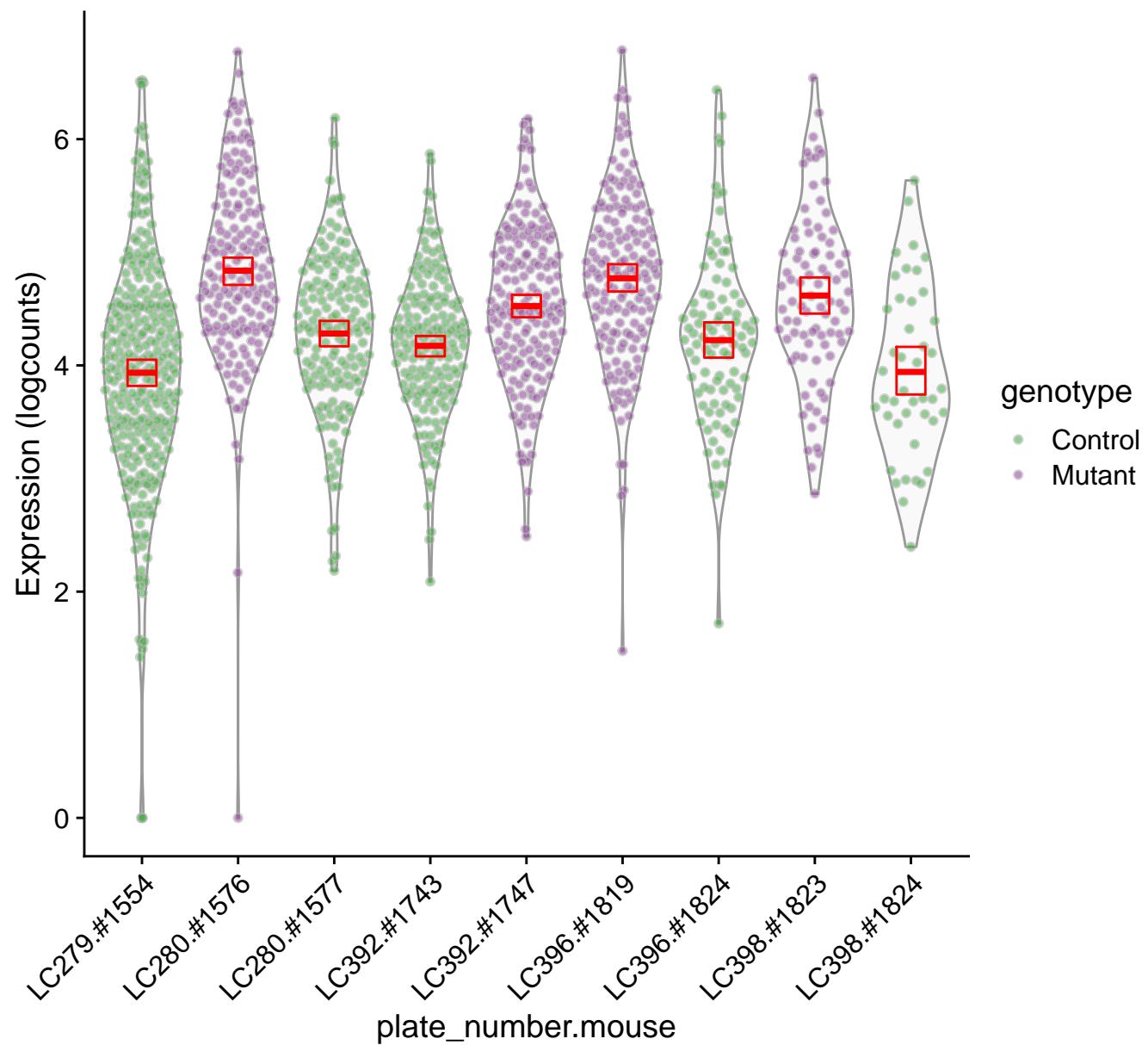
# Col15a1 (FDR = 2e-22)

ignoring\_cluster\_labels



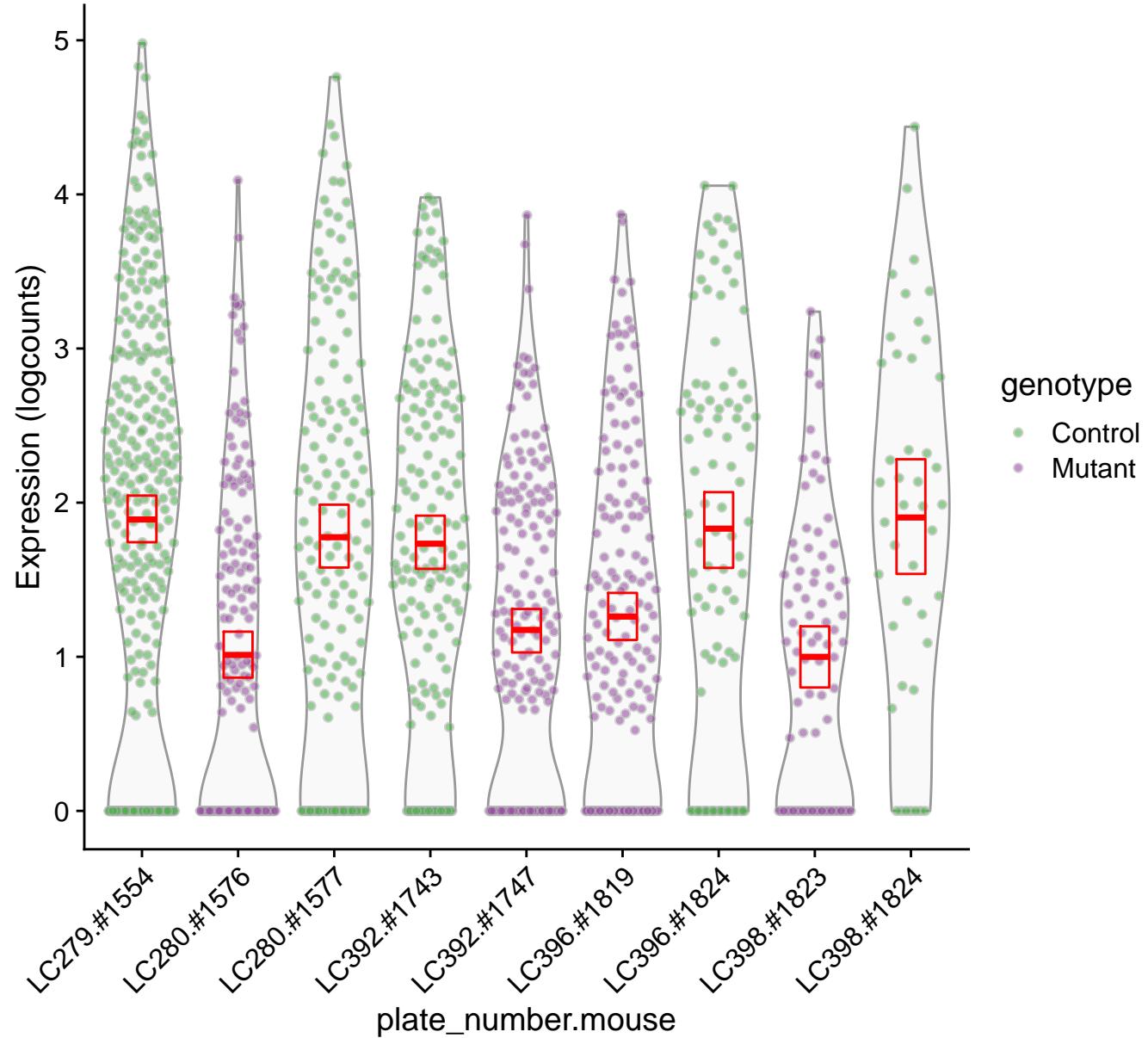
# Vim (FDR = 4e-22)

ignoring\_cluster\_labels



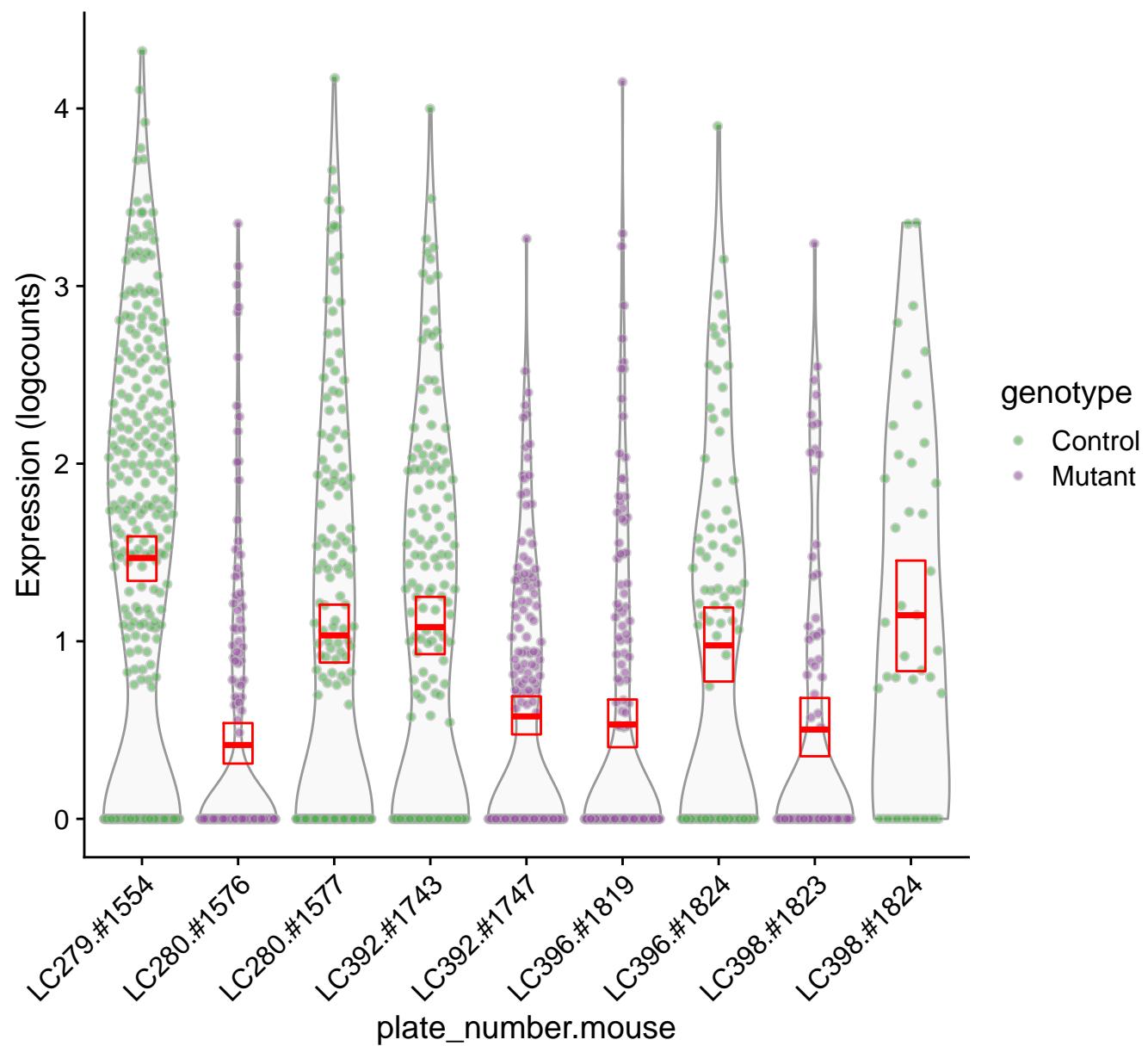
# Pltp (FDR = 1e-16)

ignoring\_cluster\_labels



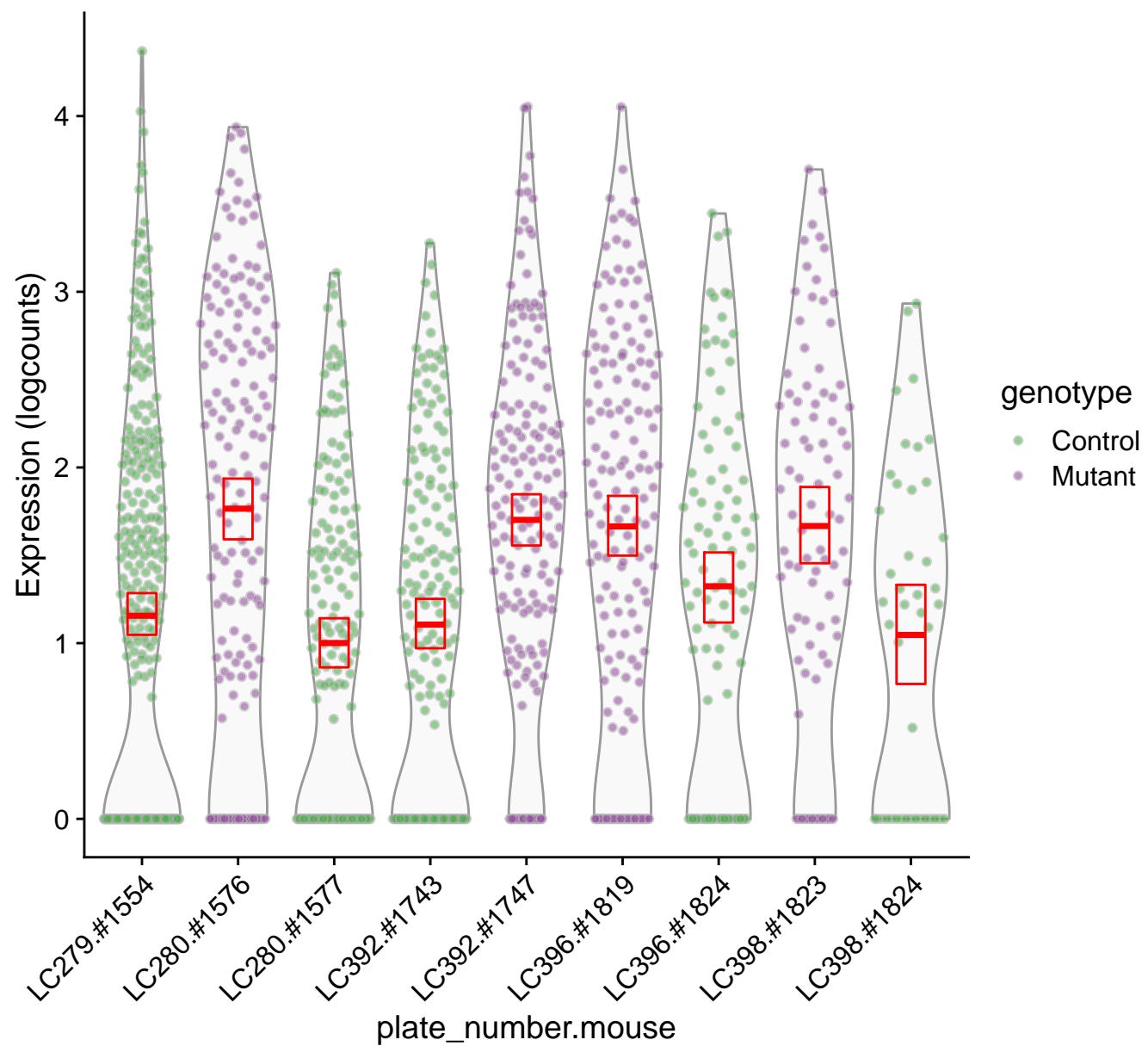
# Ucp2 (FDR = 1e-16)

ignoring\_cluster\_labels



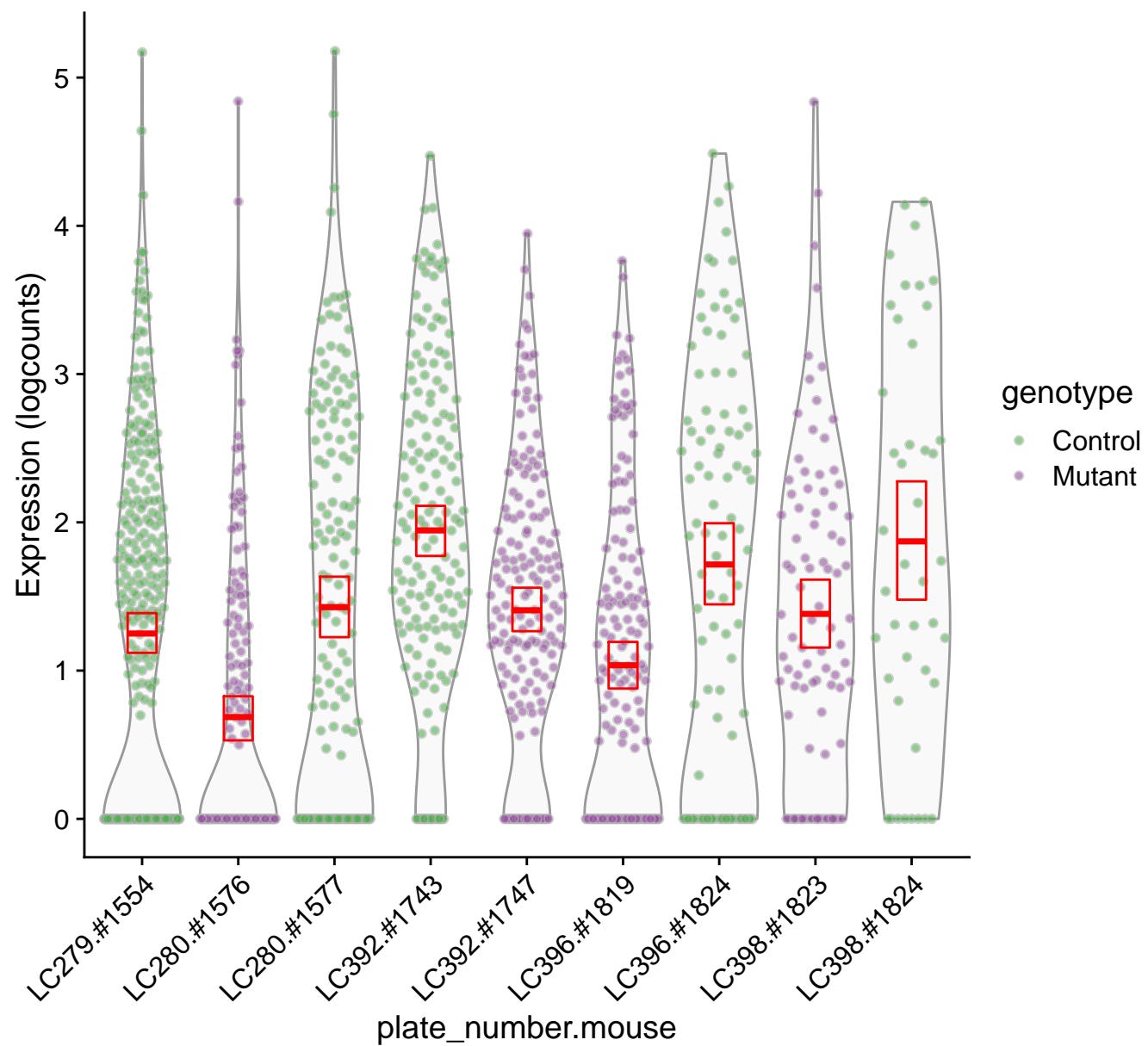
# Emp1 (FDR = 1e-15)

ignoring\_cluster\_labels



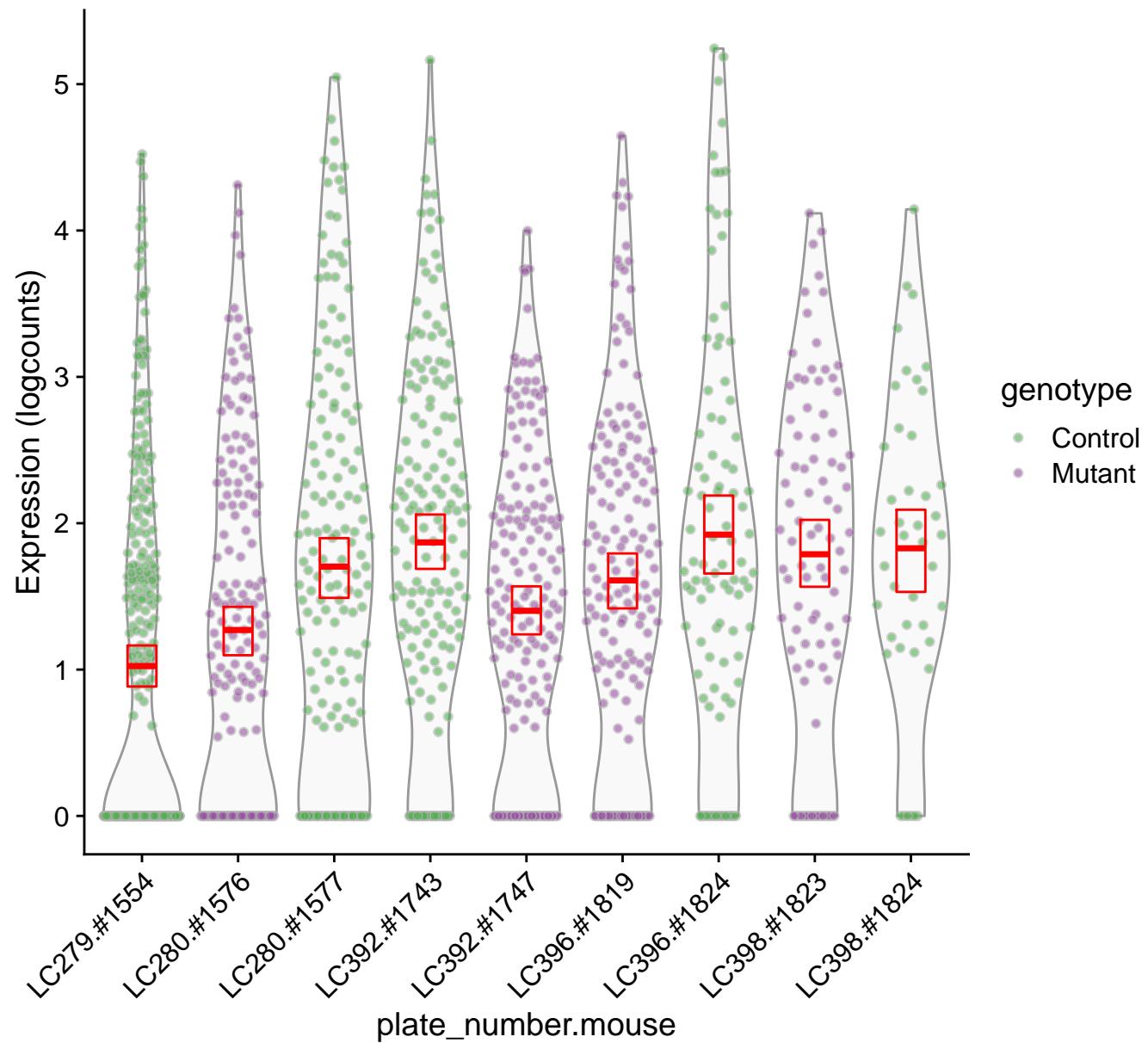
# **Slc38a5 (FDR = 5e-14)**

ignoring\_cluster\_labels



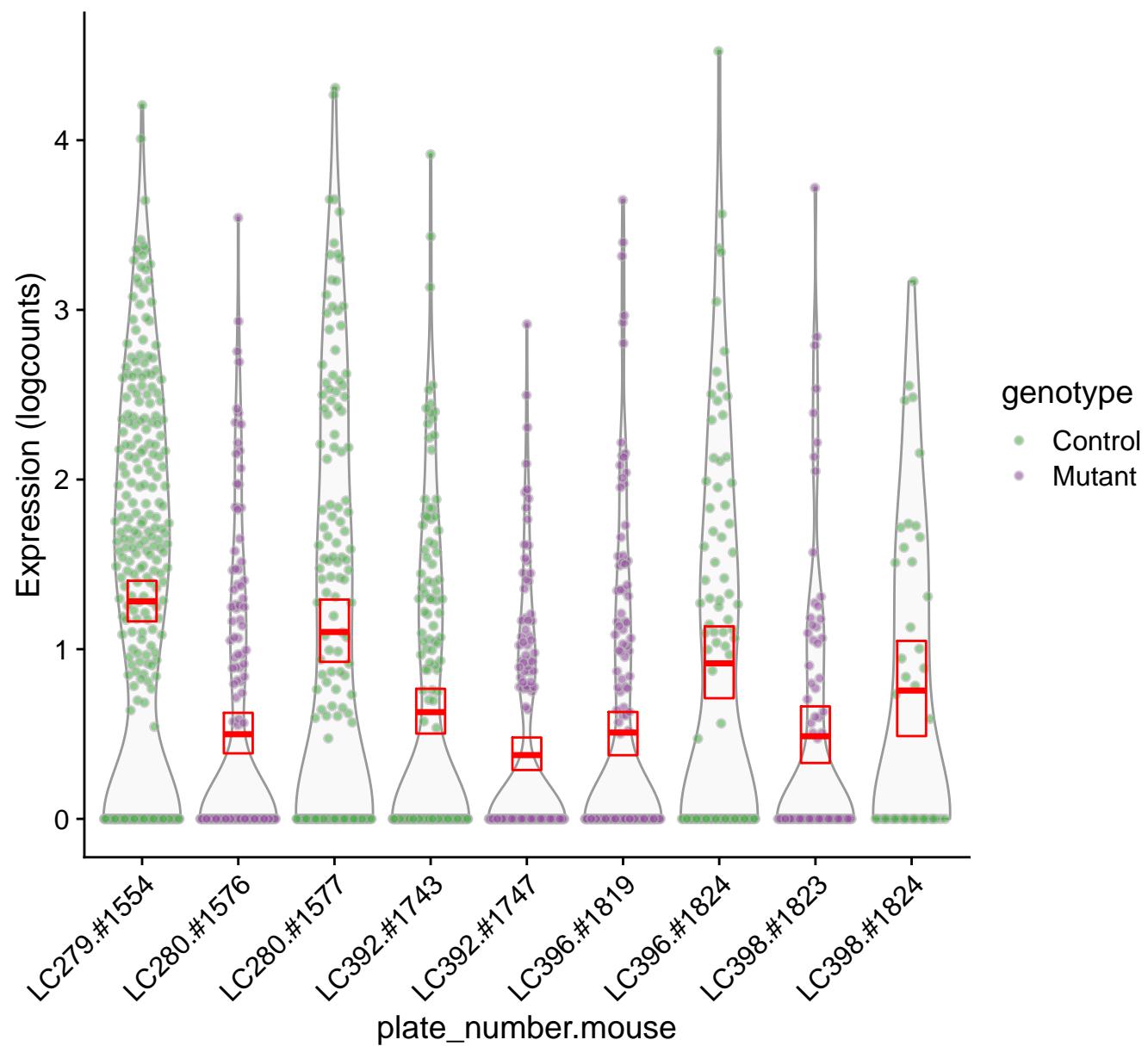
# Tfrc (FDR = 8e-12)

ignoring\_cluster\_labels



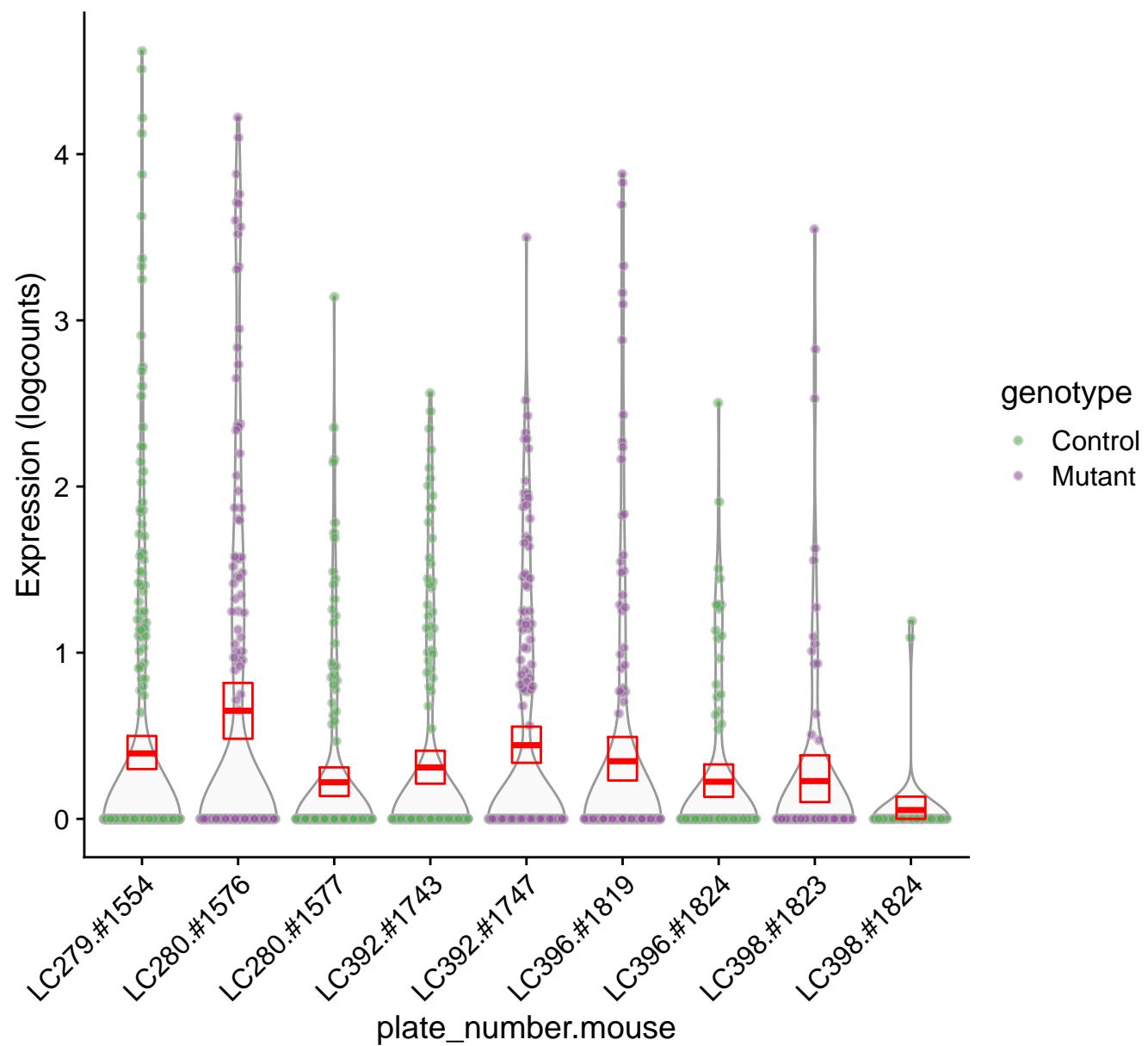
# H2-K1 (FDR = 6e-11)

ignoring\_cluster\_labels



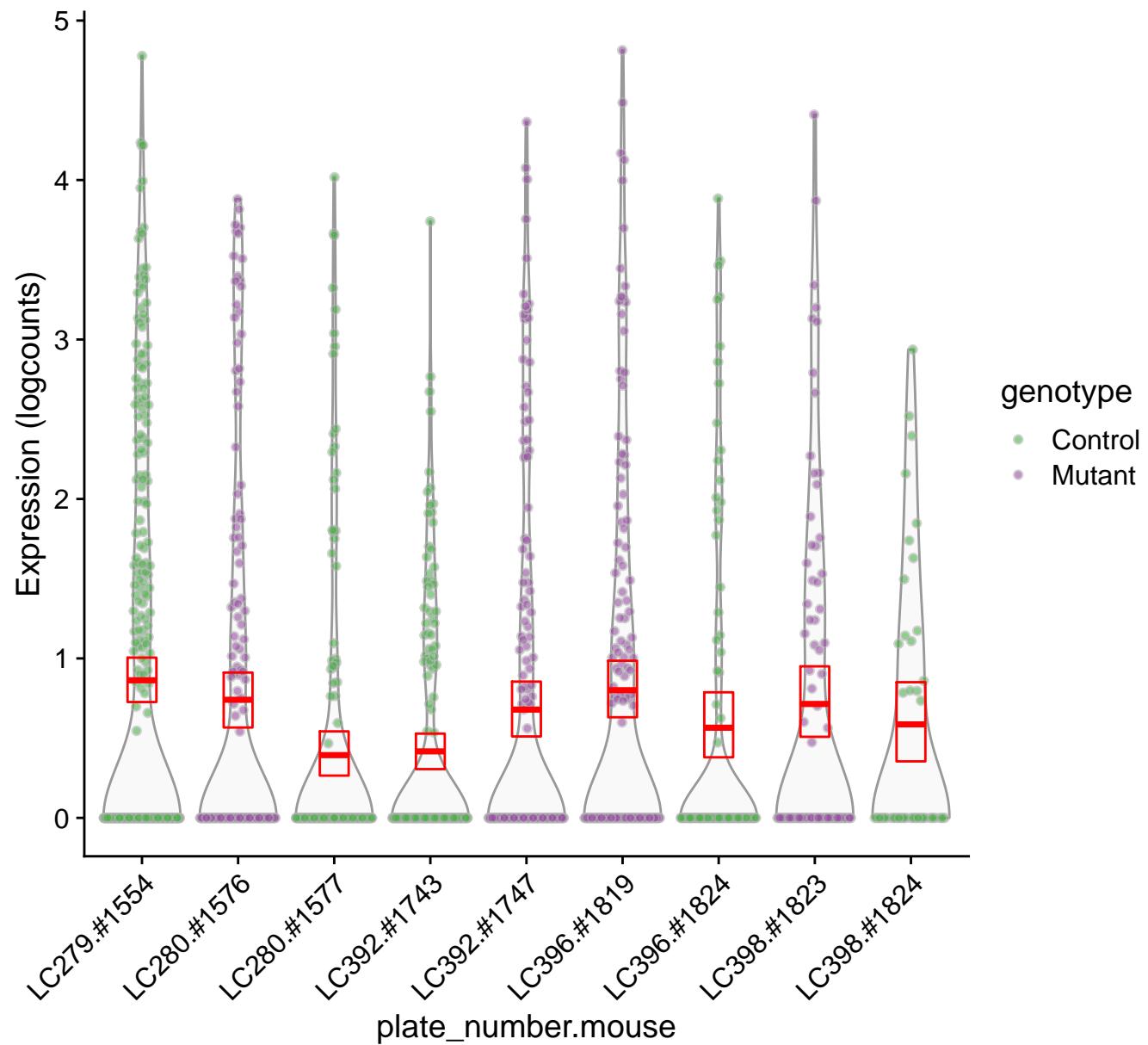
# Esm1 (FDR = 1e-10)

ignoring\_cluster\_labels



# Cxcr4 (FDR = 2e-10)

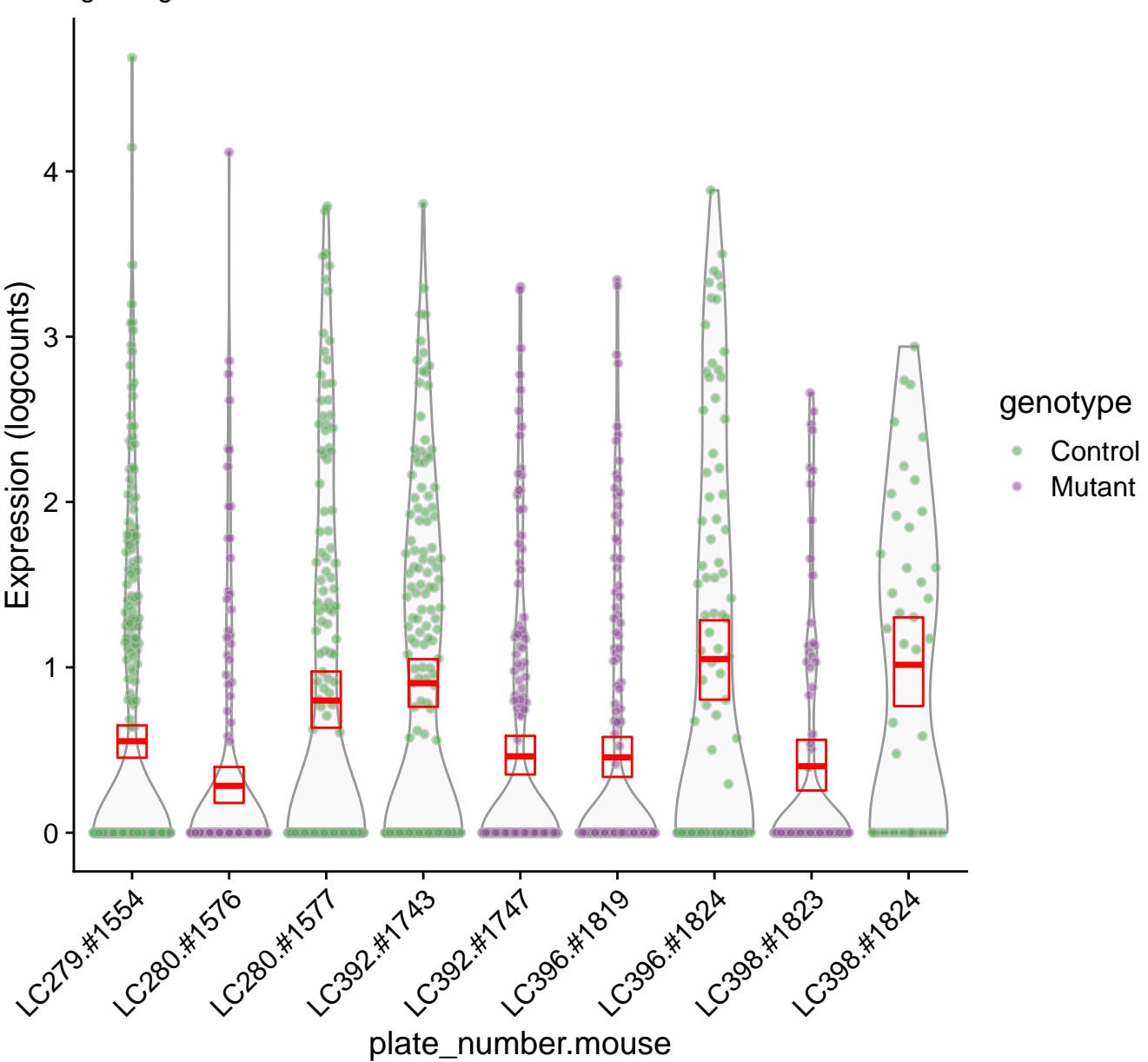
ignoring\_cluster\_labels



# **Slc1a4 (FDR = 3e-10)**

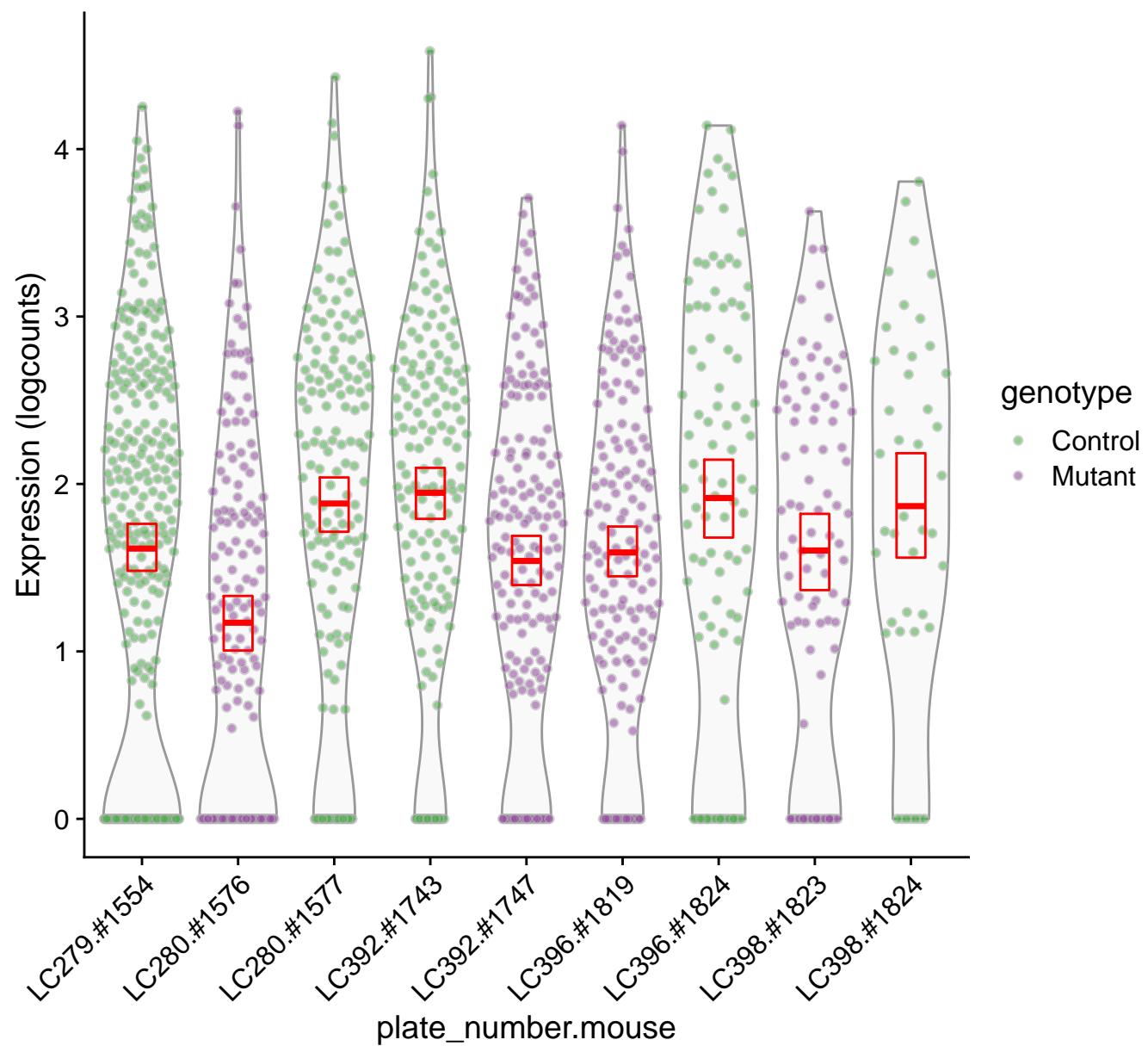
ignoring\_cluster\_labels

Expression (logcounts)



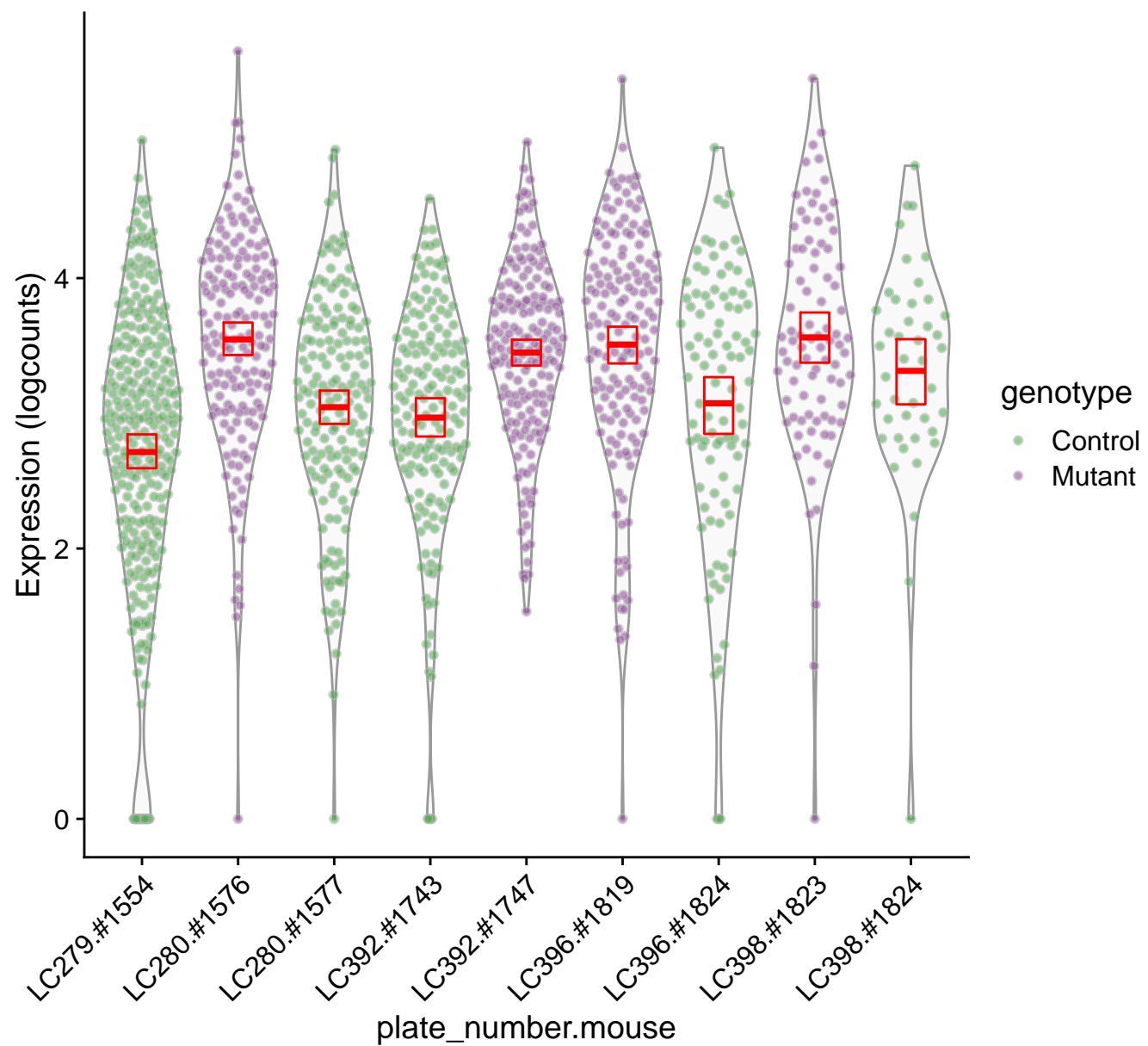
# Nampt (FDR = 6e-10)

ignoring\_cluster\_labels



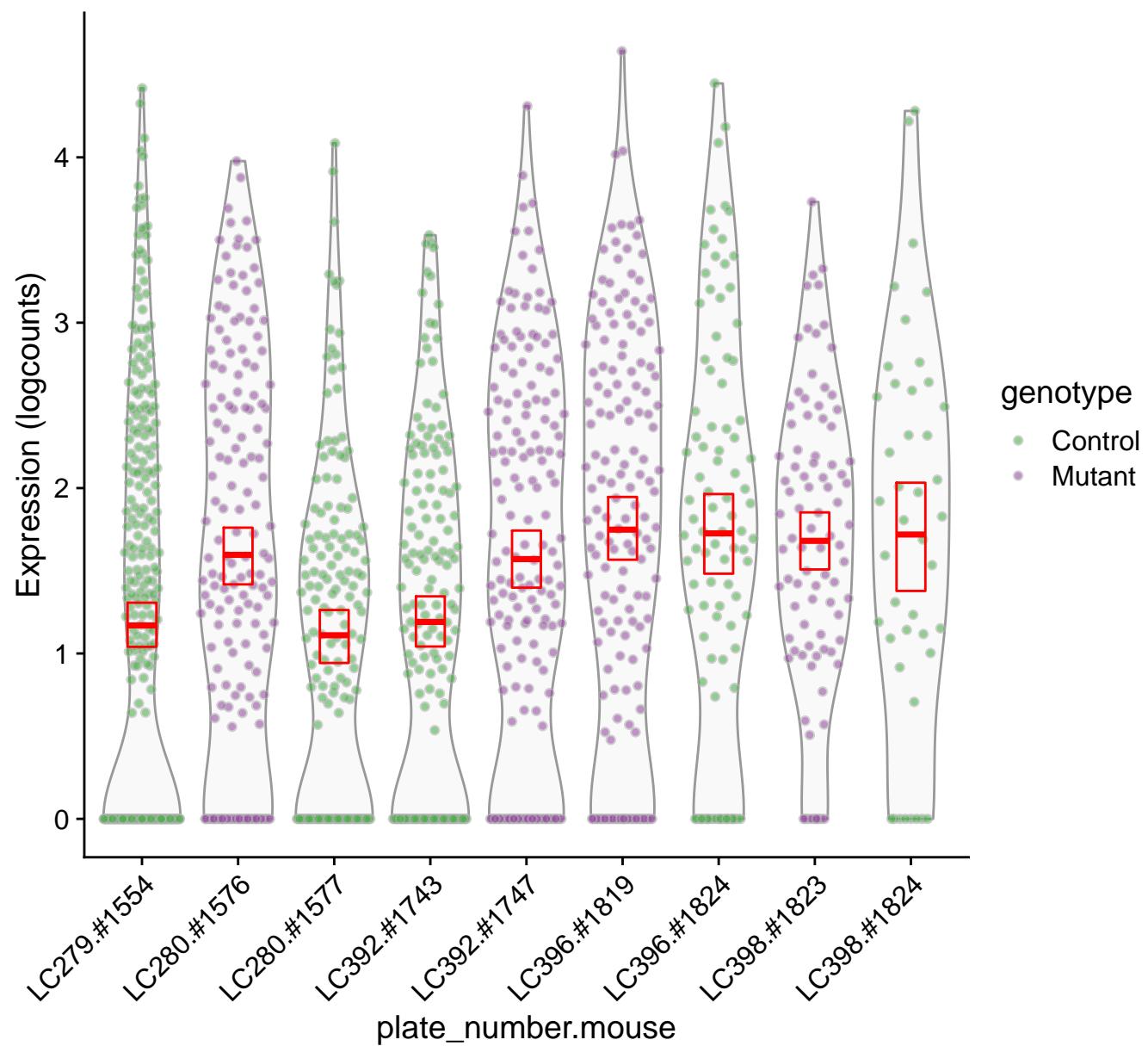
# Marcks (FDR = 6e-10)

ignoring\_cluster\_labels



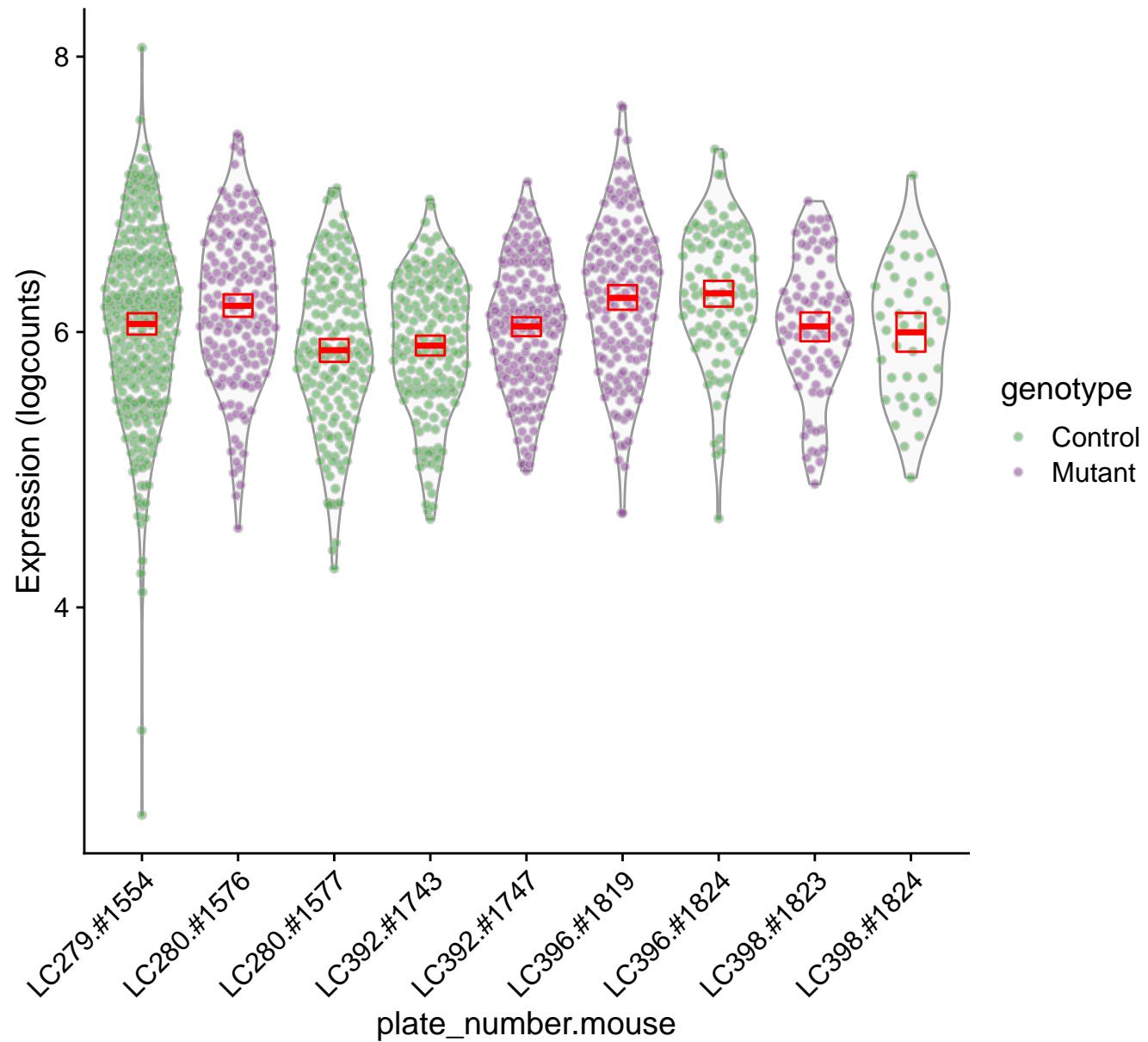
# Btg1 (FDR = 1e-09)

ignoring\_cluster\_labels



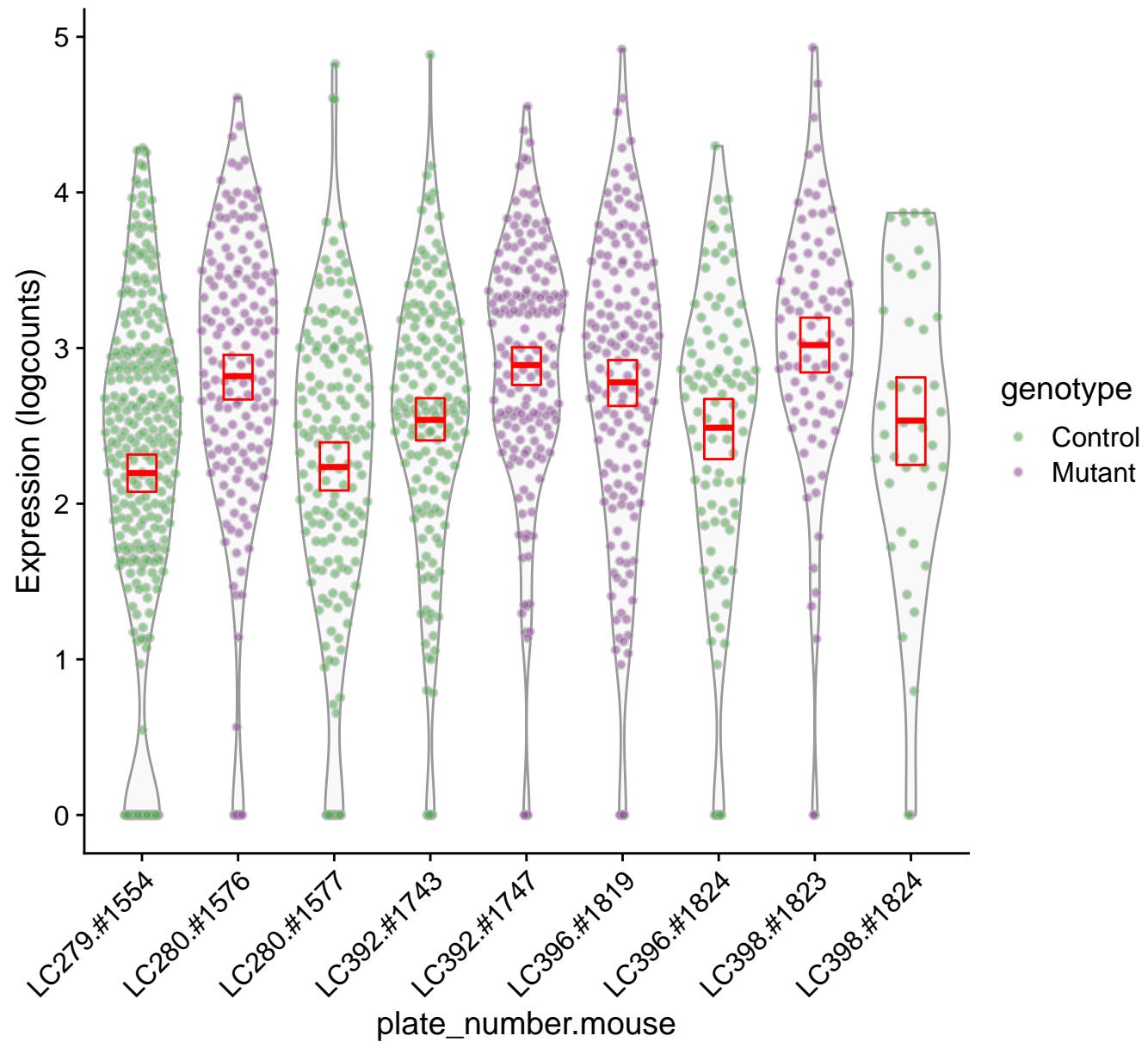
# Sparc (FDR = 2e-09)

ignoring\_cluster\_labels



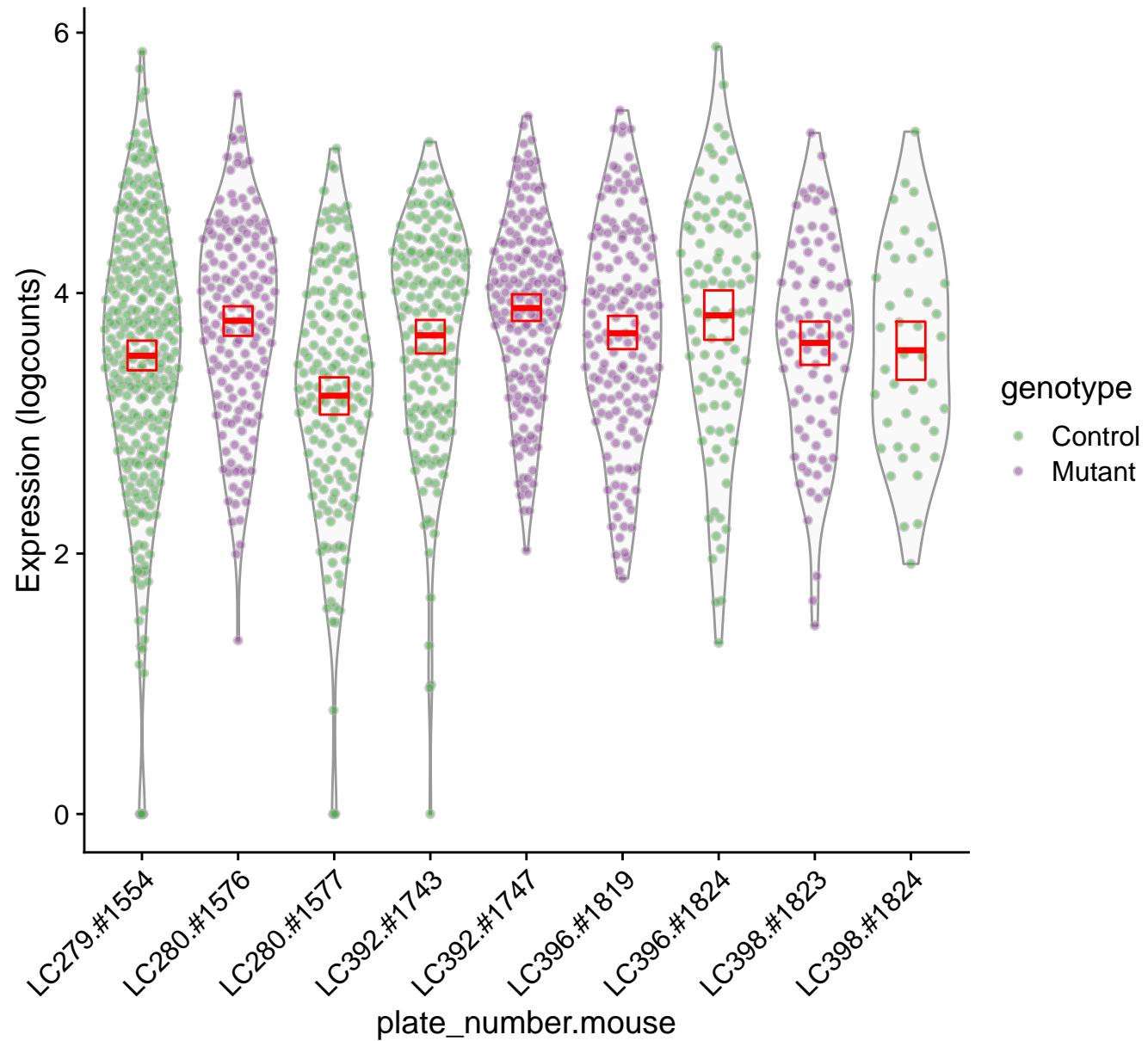
# MarcksI1 (FDR = 3e-09)

ignoring\_cluster\_labels



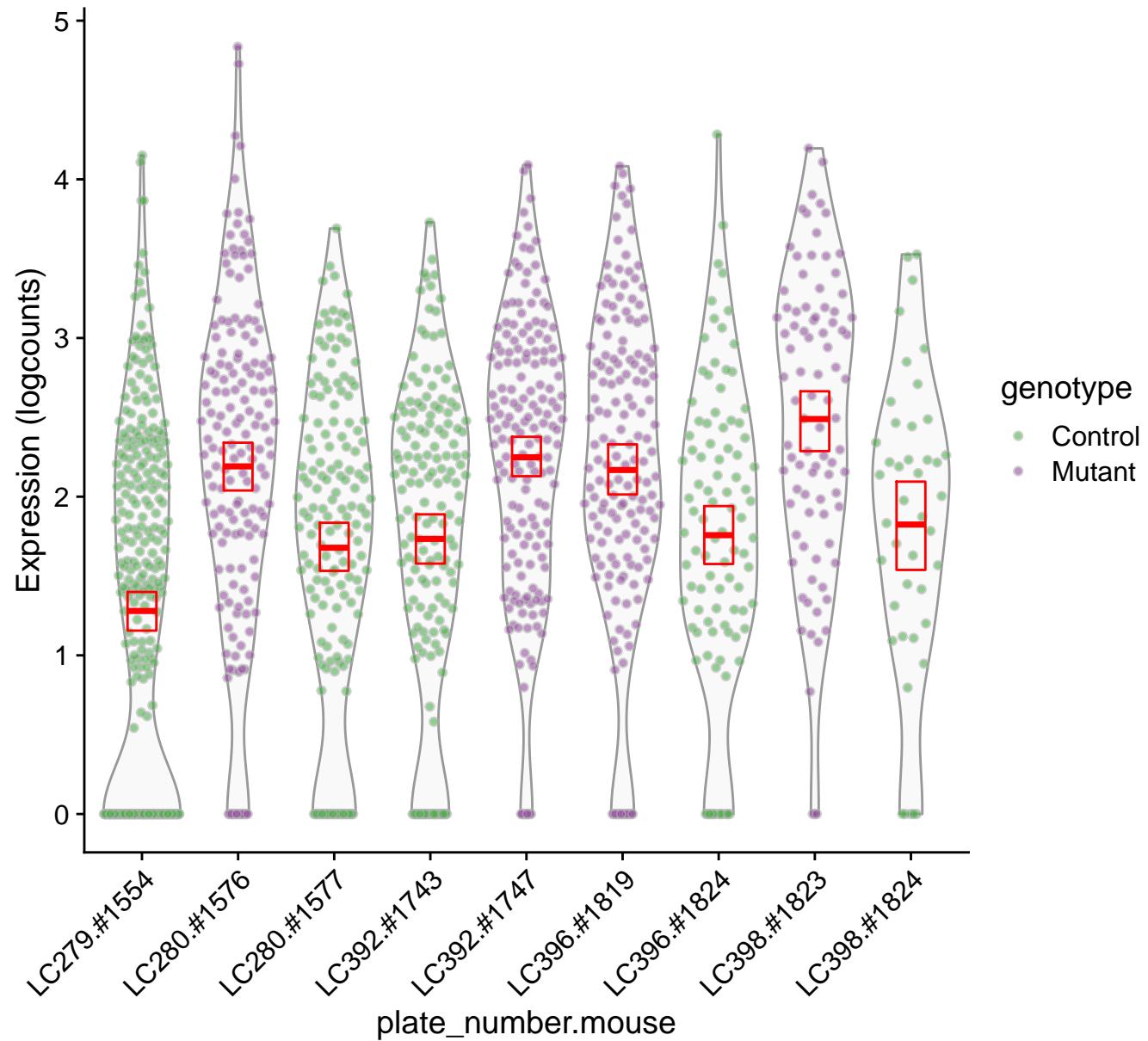
# Sparcl1 (FDR = 1e-08)

ignoring\_cluster\_labels



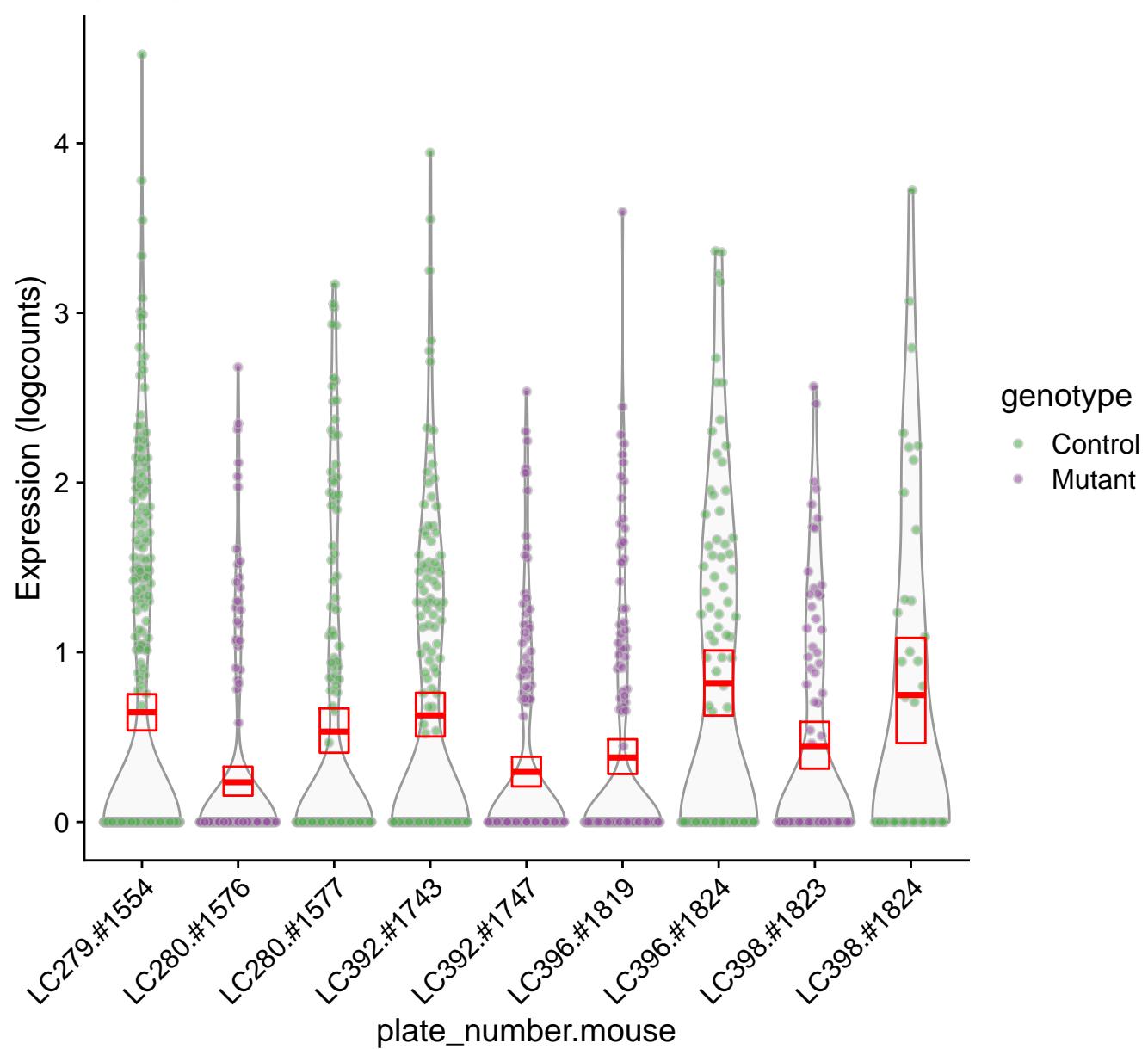
# Wbp5 (FDR = 1e-08)

ignoring\_cluster\_labels



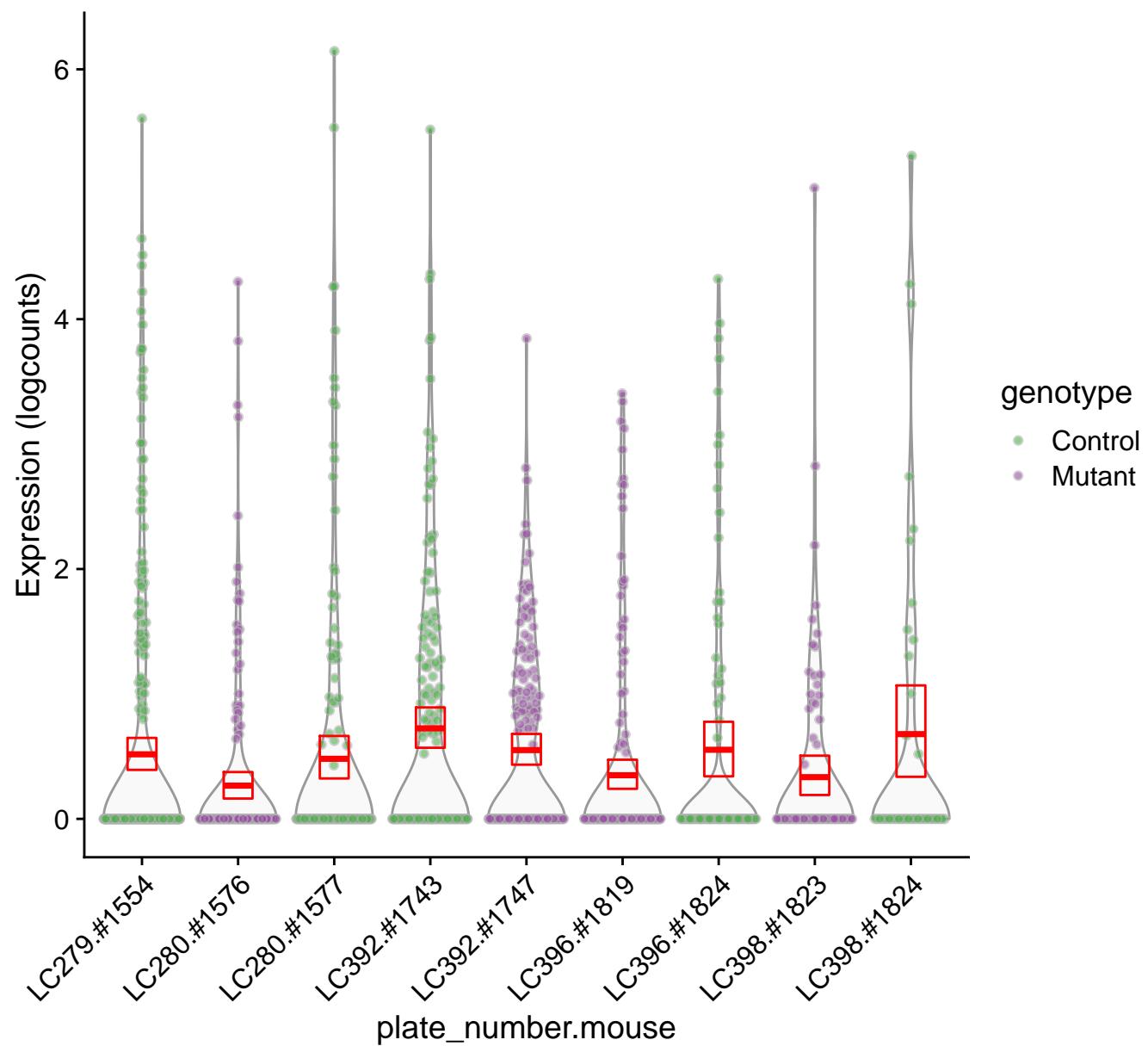
# **Slc22a8 (FDR = 2e-08)**

ignoring\_cluster\_labels



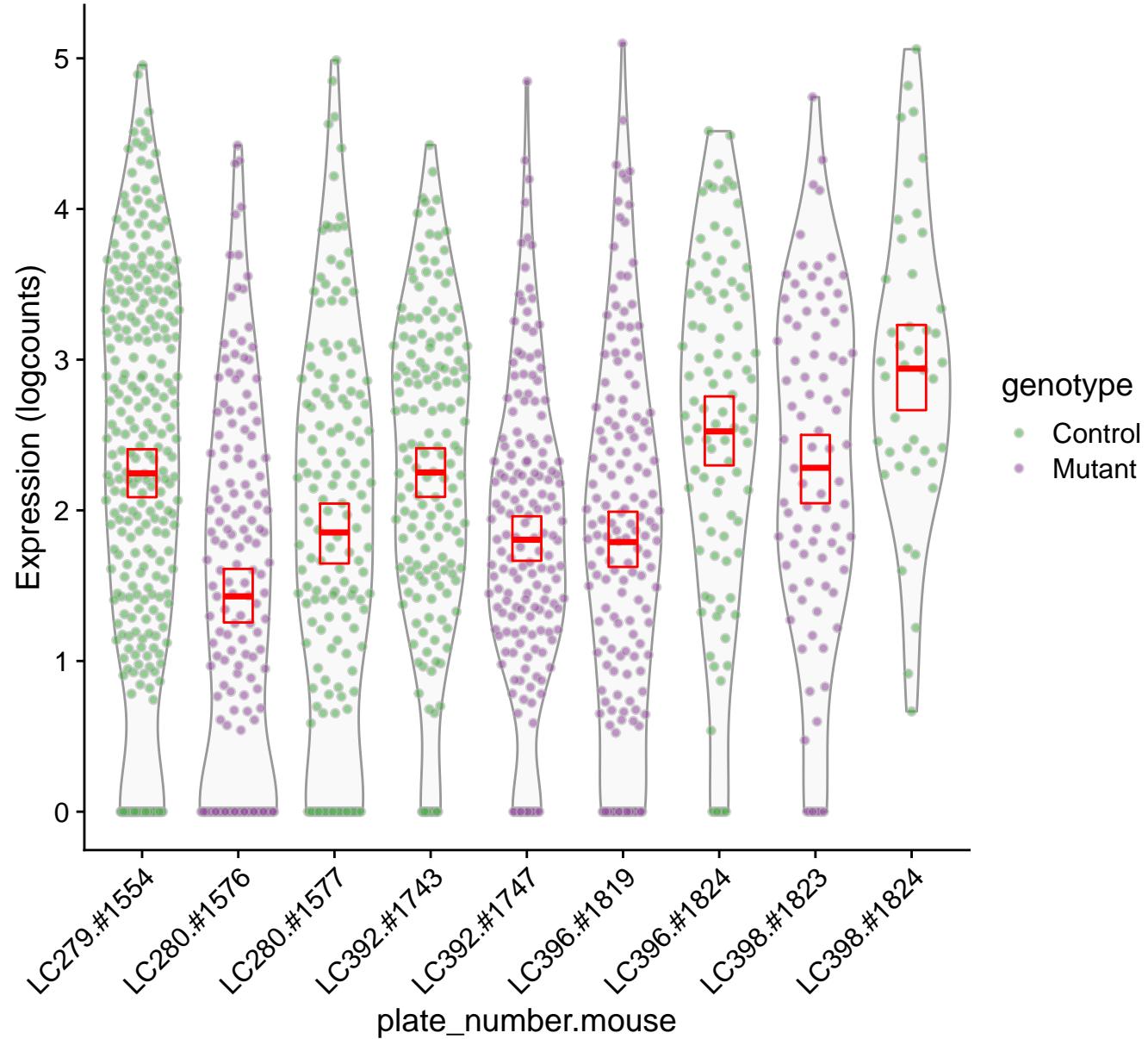
# Cxcl12 (FDR = 2e-08)

ignoring\_cluster\_labels



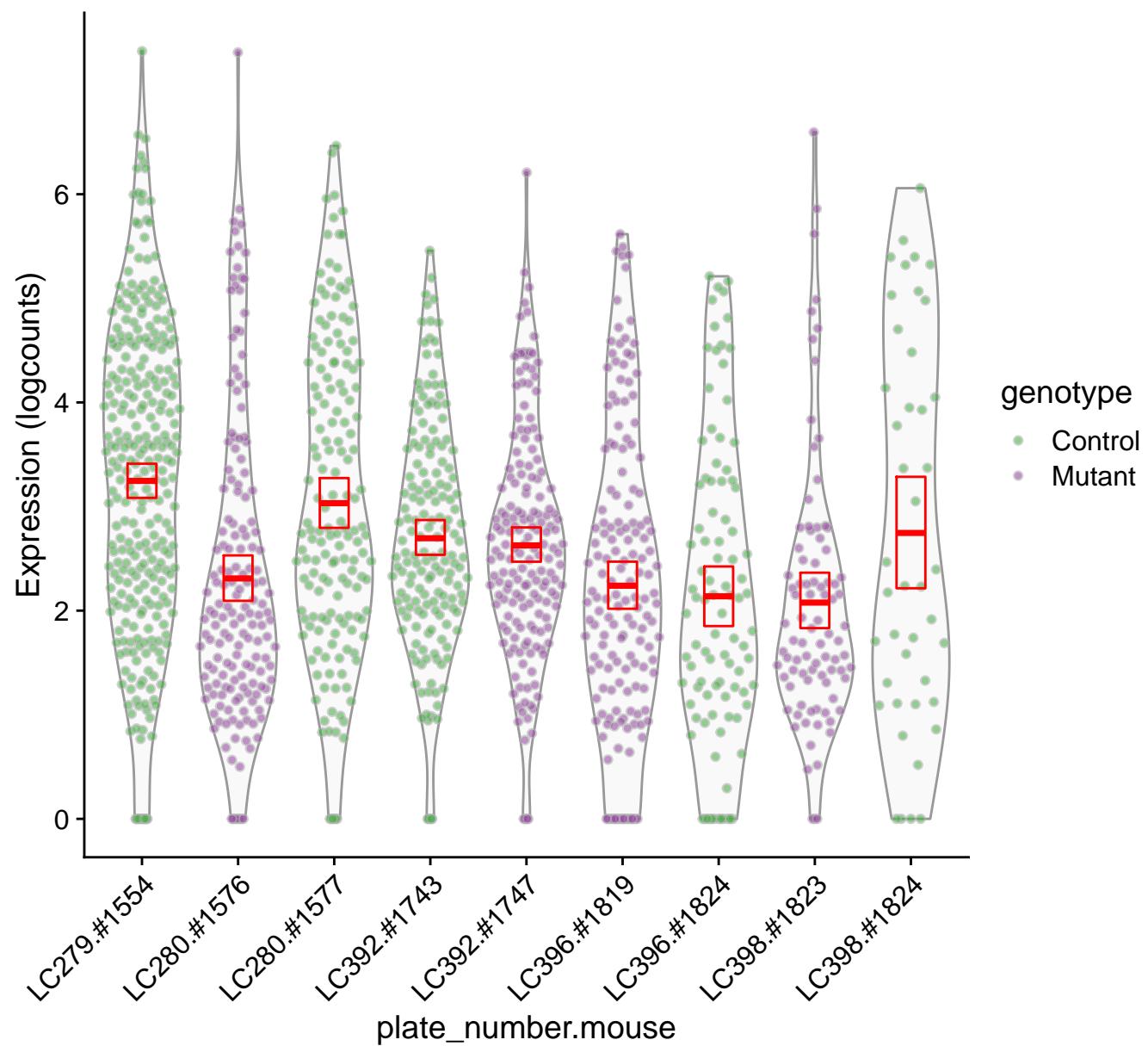
# Itm2a (FDR = 6e-08)

ignoring\_cluster\_labels



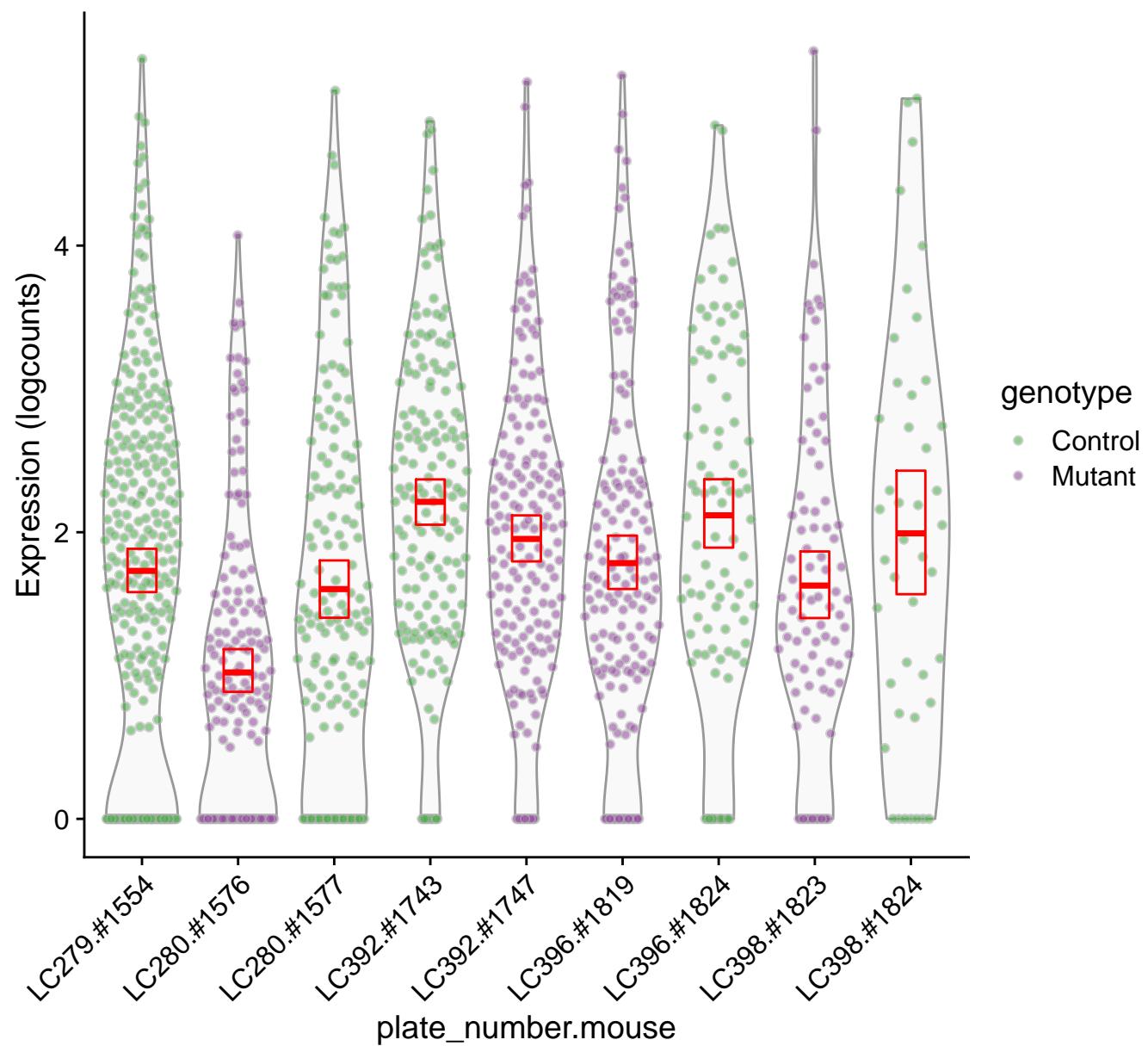
# Gm23935 (FDR = 7e-08)

ignoring\_cluster\_labels



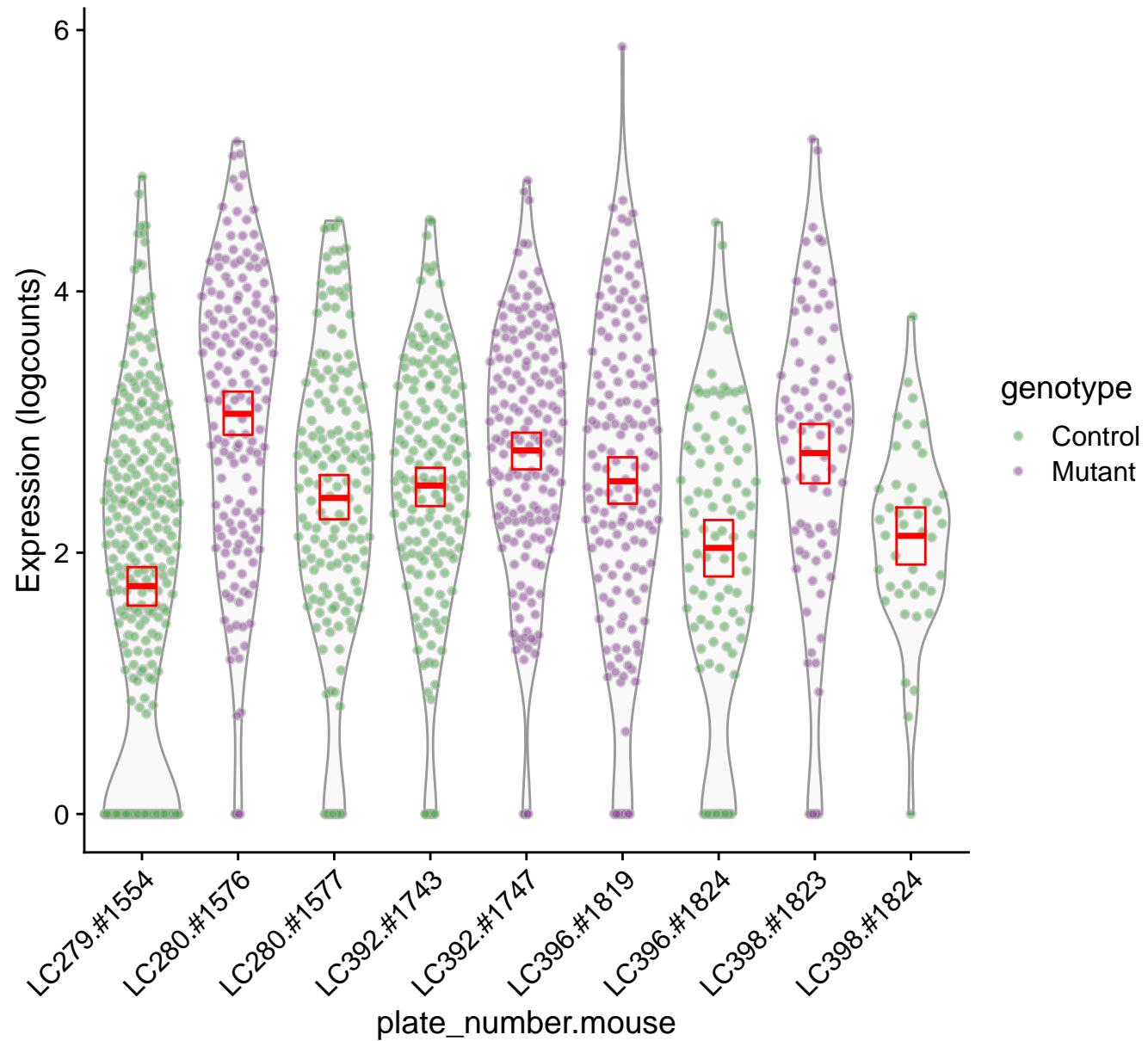
# Glul (FDR = 7e-08)

ignoring\_cluster\_labels



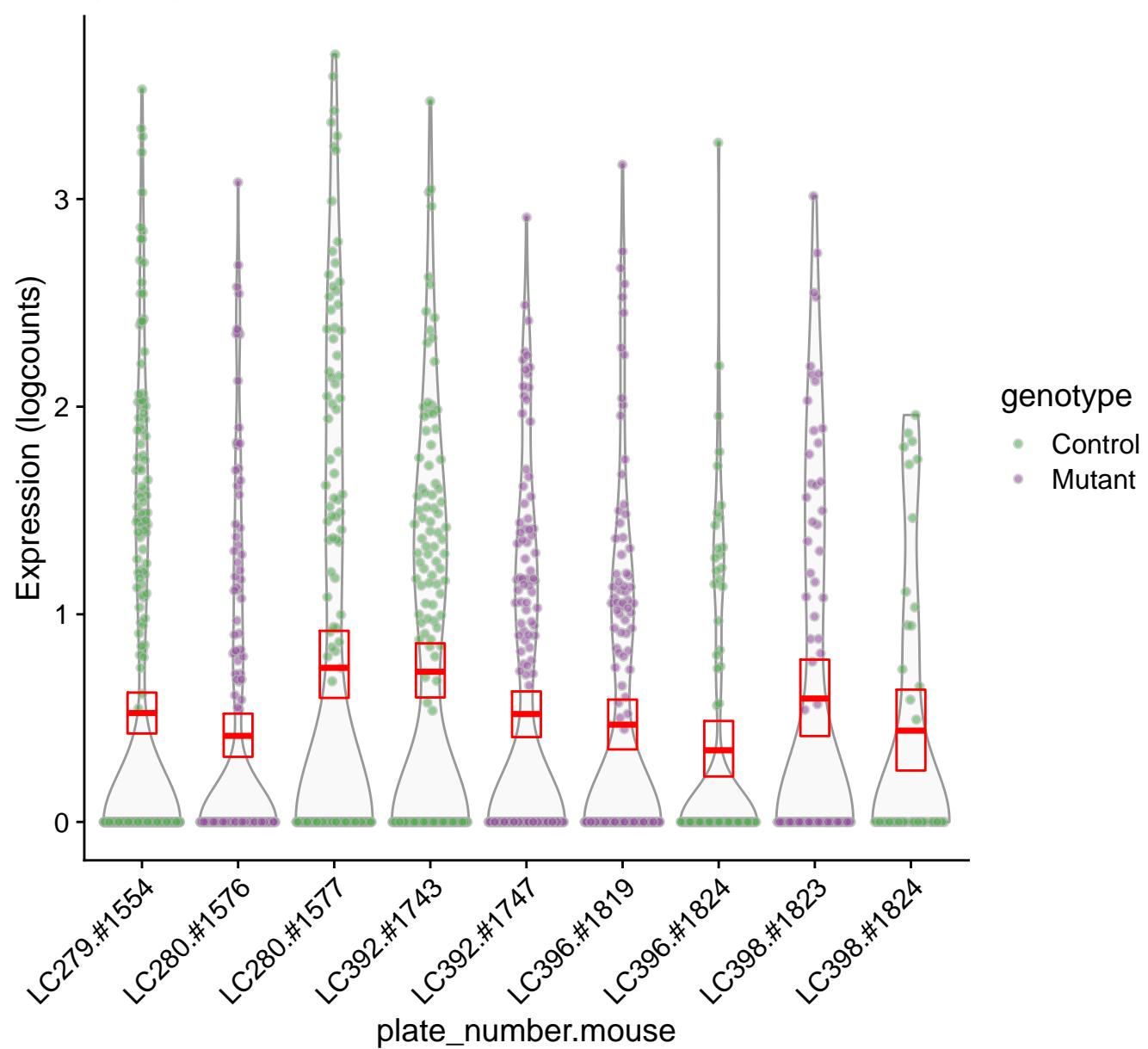
# Mest (FDR = 1e-07)

ignoring\_cluster\_labels



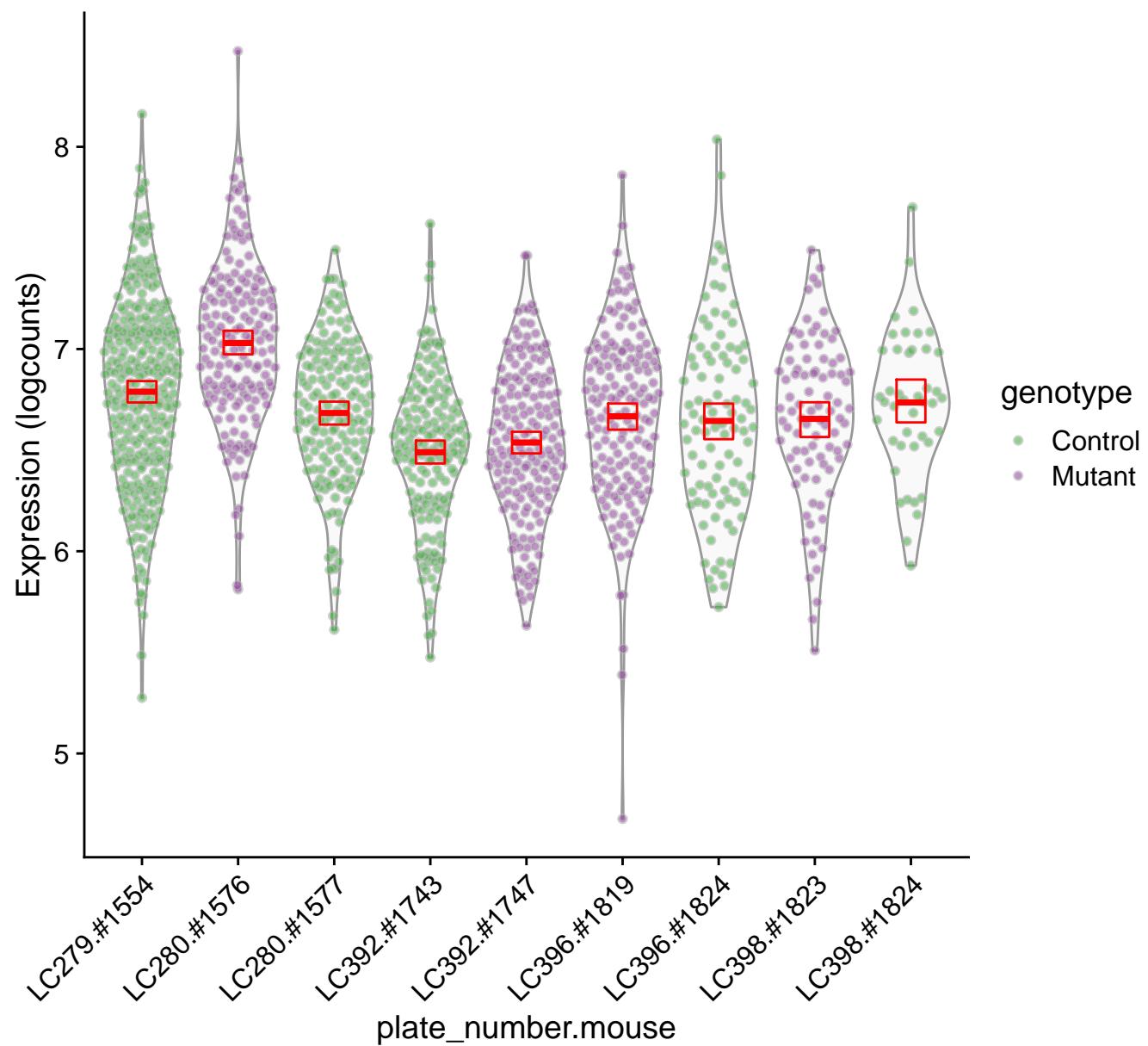
# Birc5 (FDR = 1e-07)

ignoring\_cluster\_labels



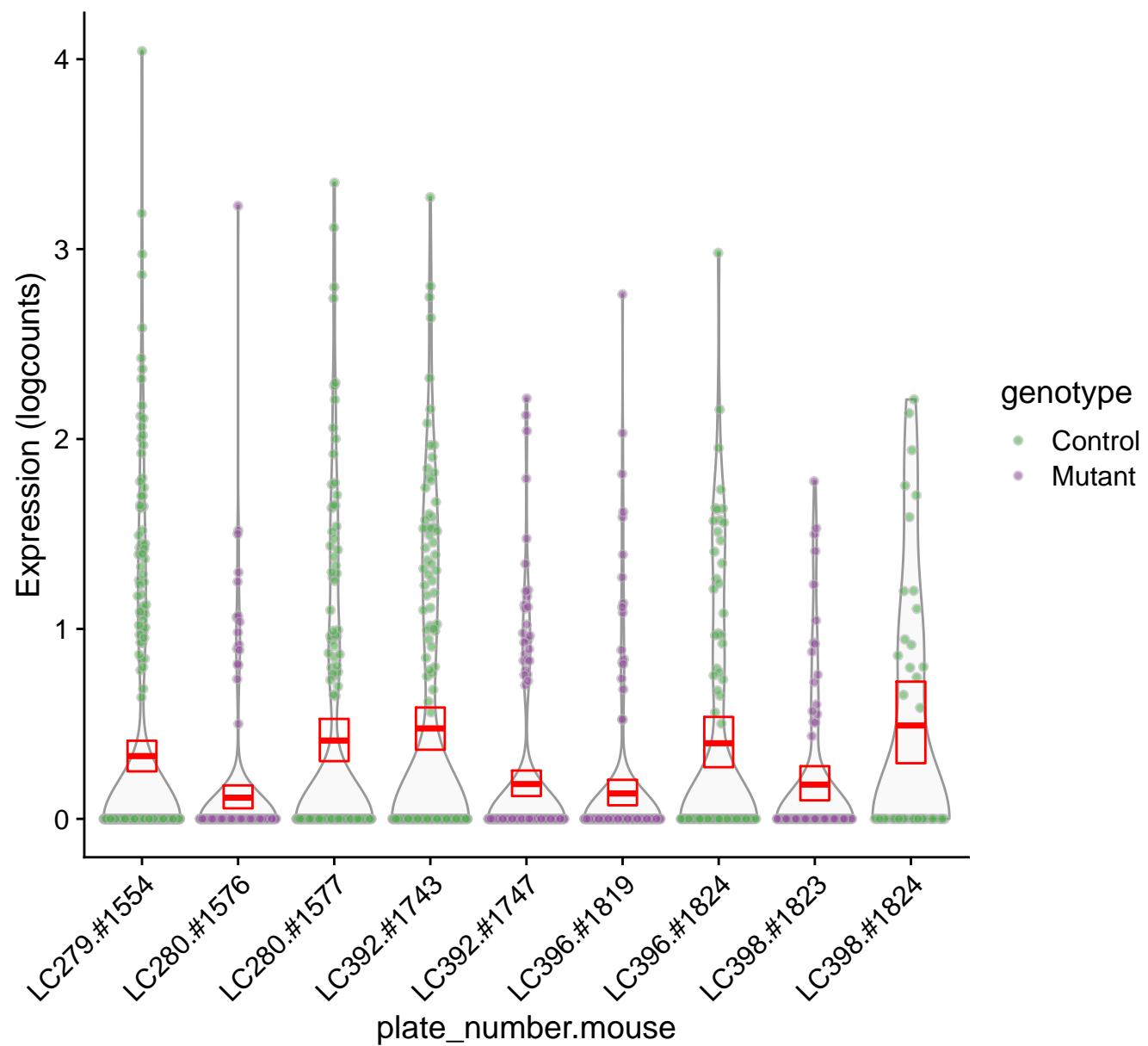
# Actb (FDR = 2e-07)

ignoring\_cluster\_labels



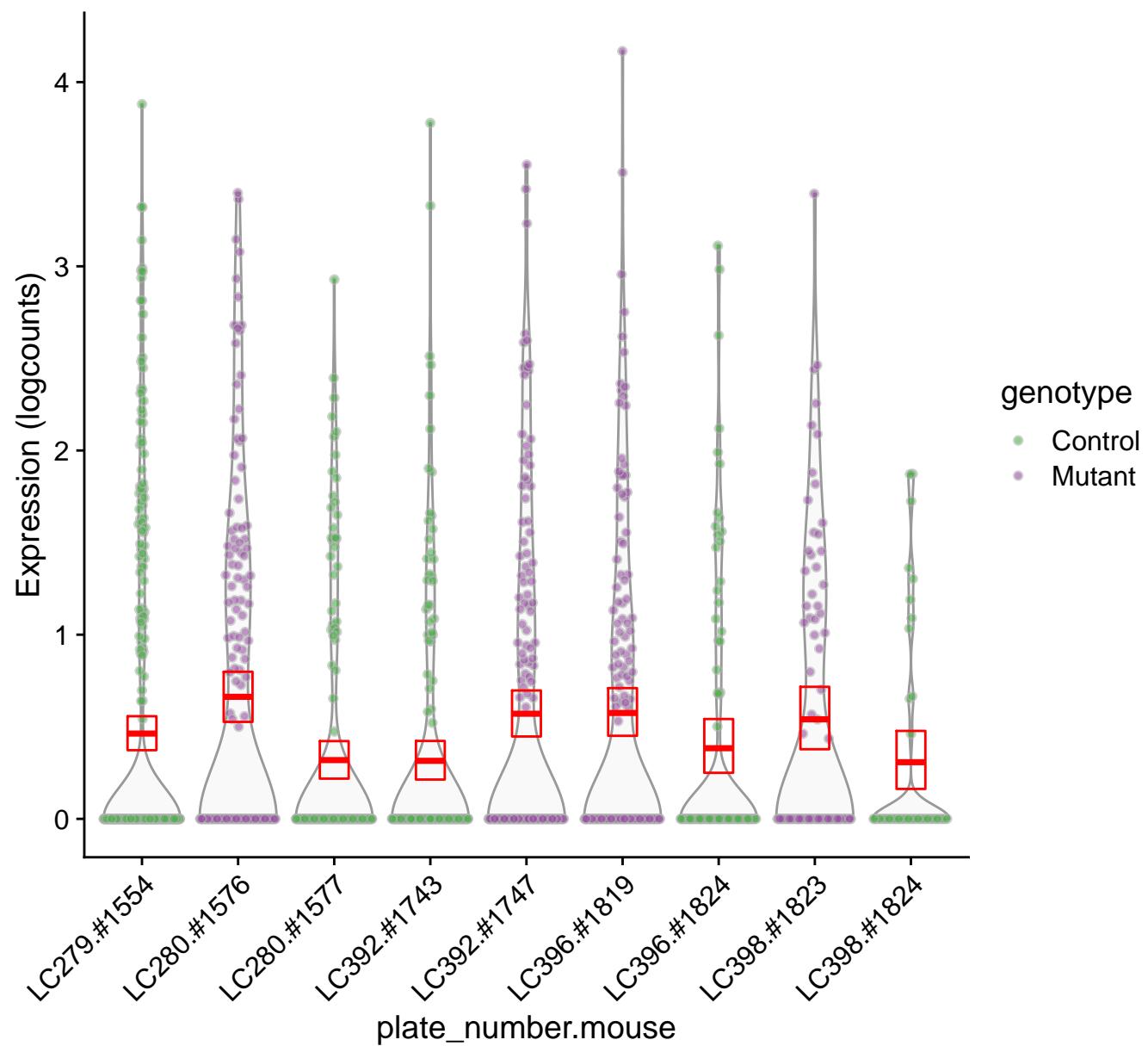
# Nkd1 (FDR = 2e-07)

ignoring\_cluster\_labels



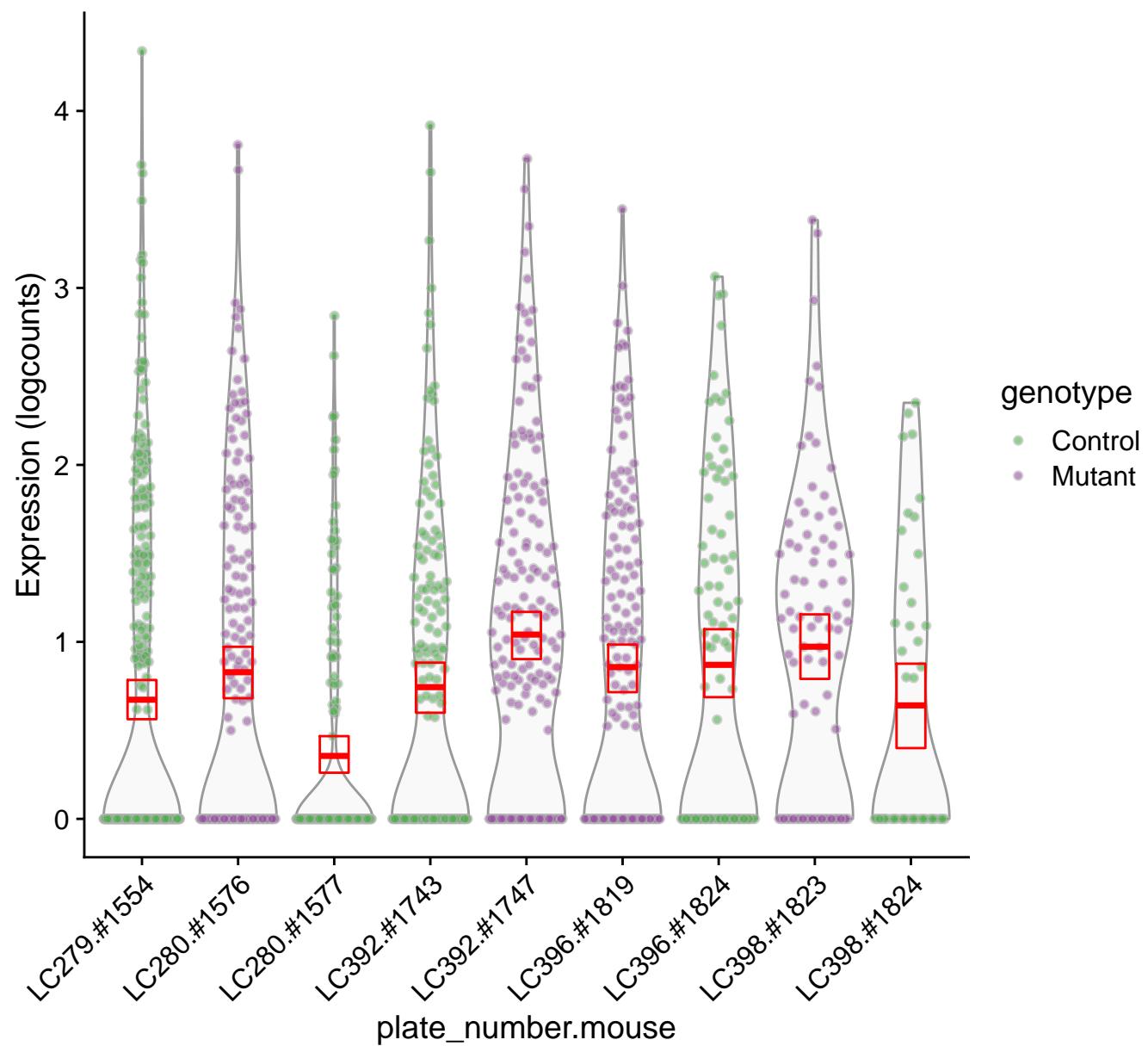
# Ptpre (FDR = 2e-07)

ignoring\_cluster\_labels



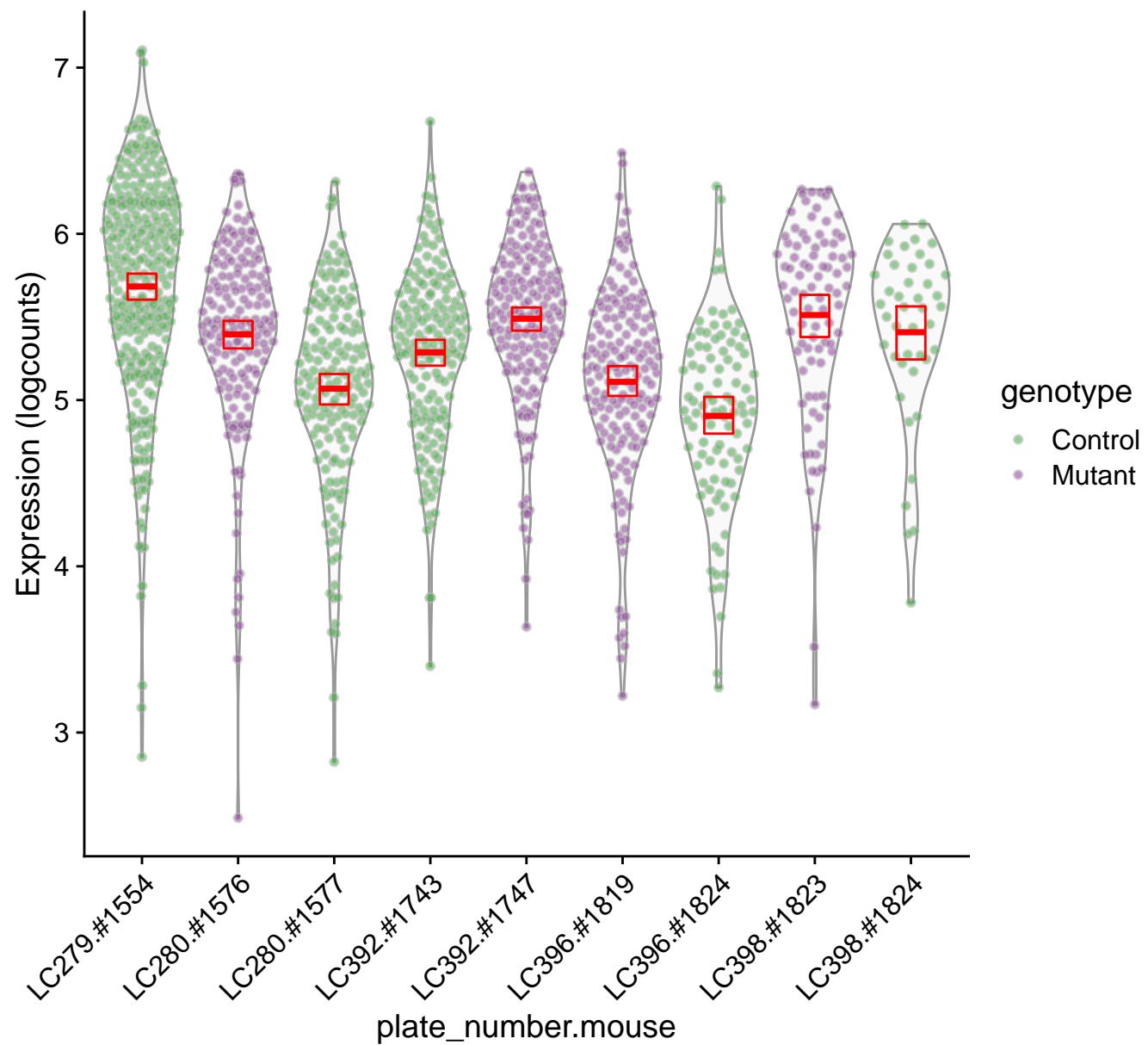
# Nedd9 (FDR = 3e-07)

ignoring\_cluster\_labels



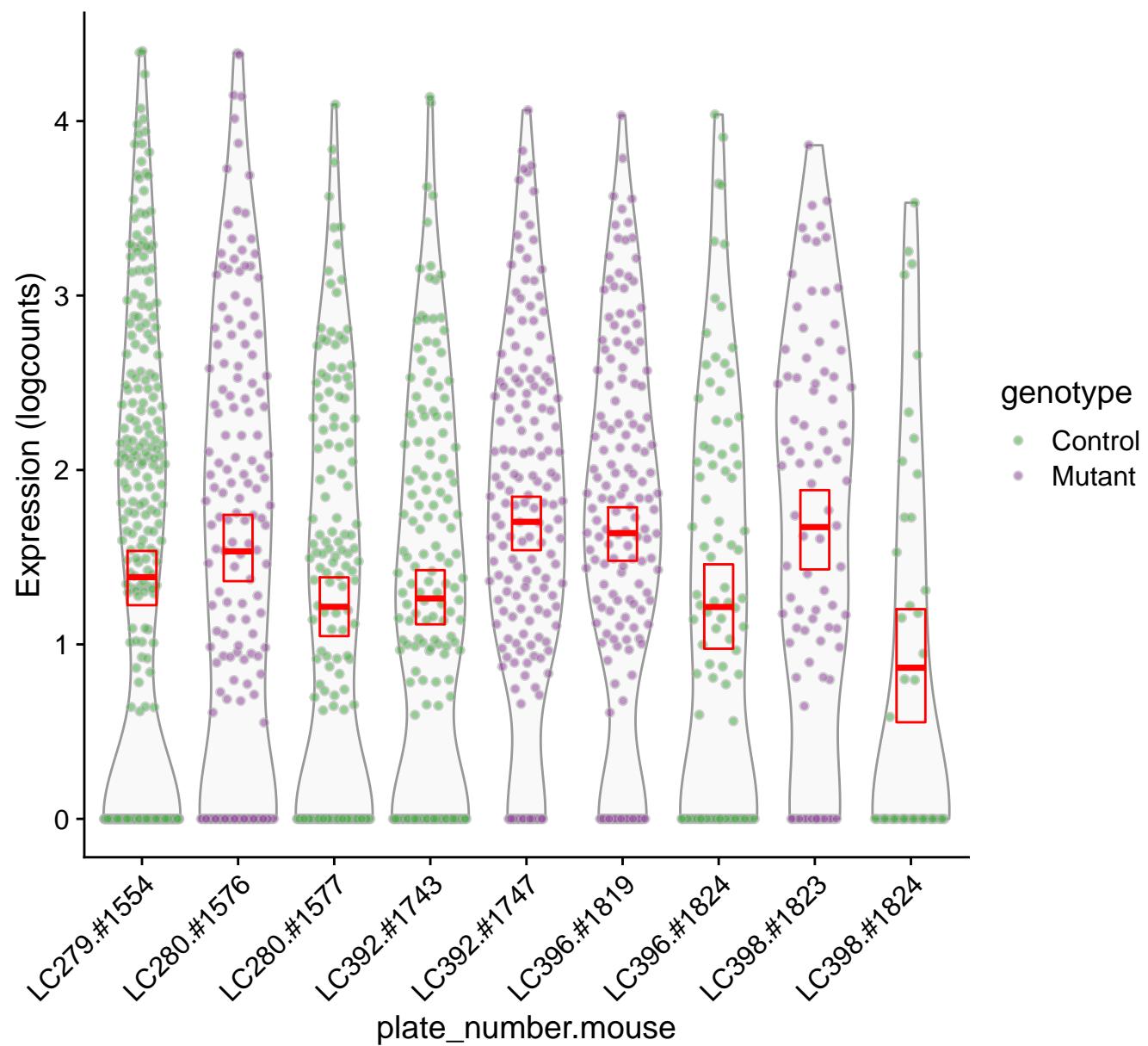
# Tmsb10 (FDR = 3e-07)

ignoring\_cluster\_labels



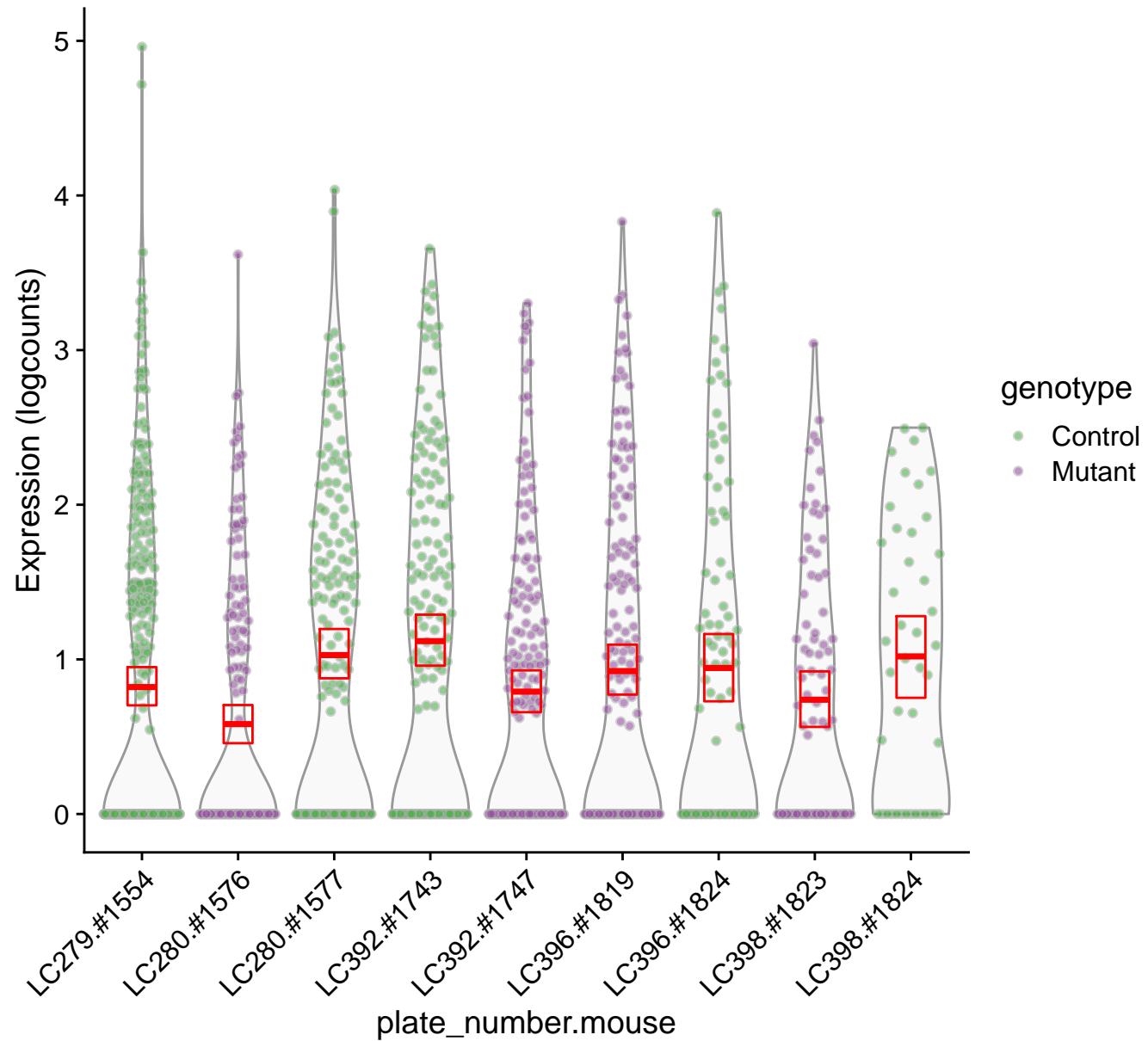
# Cdh13 (FDR = 4e-07)

ignoring\_cluster\_labels



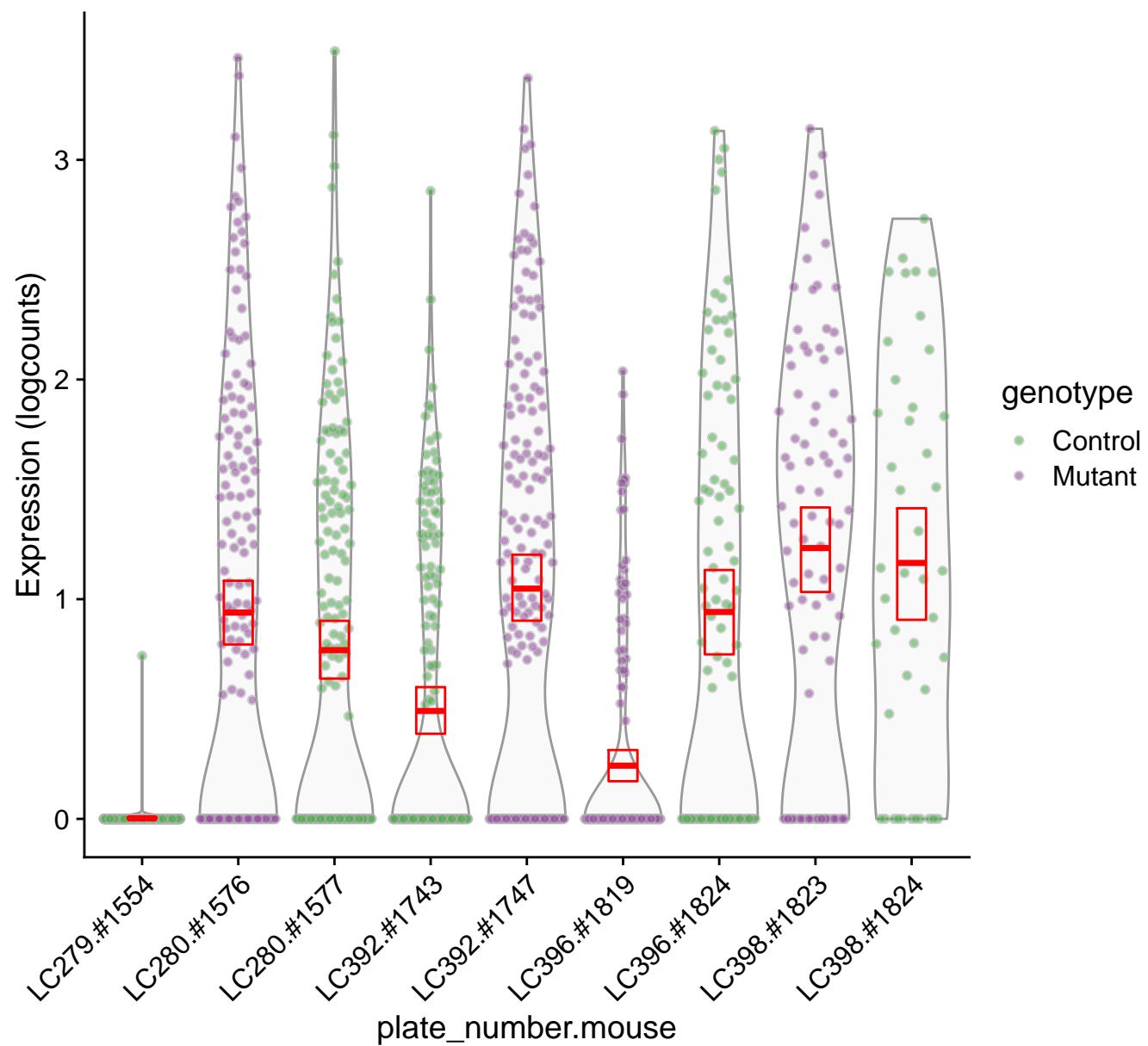
# Ptgfrn (FDR = 4e-07)

ignoring\_cluster\_labels



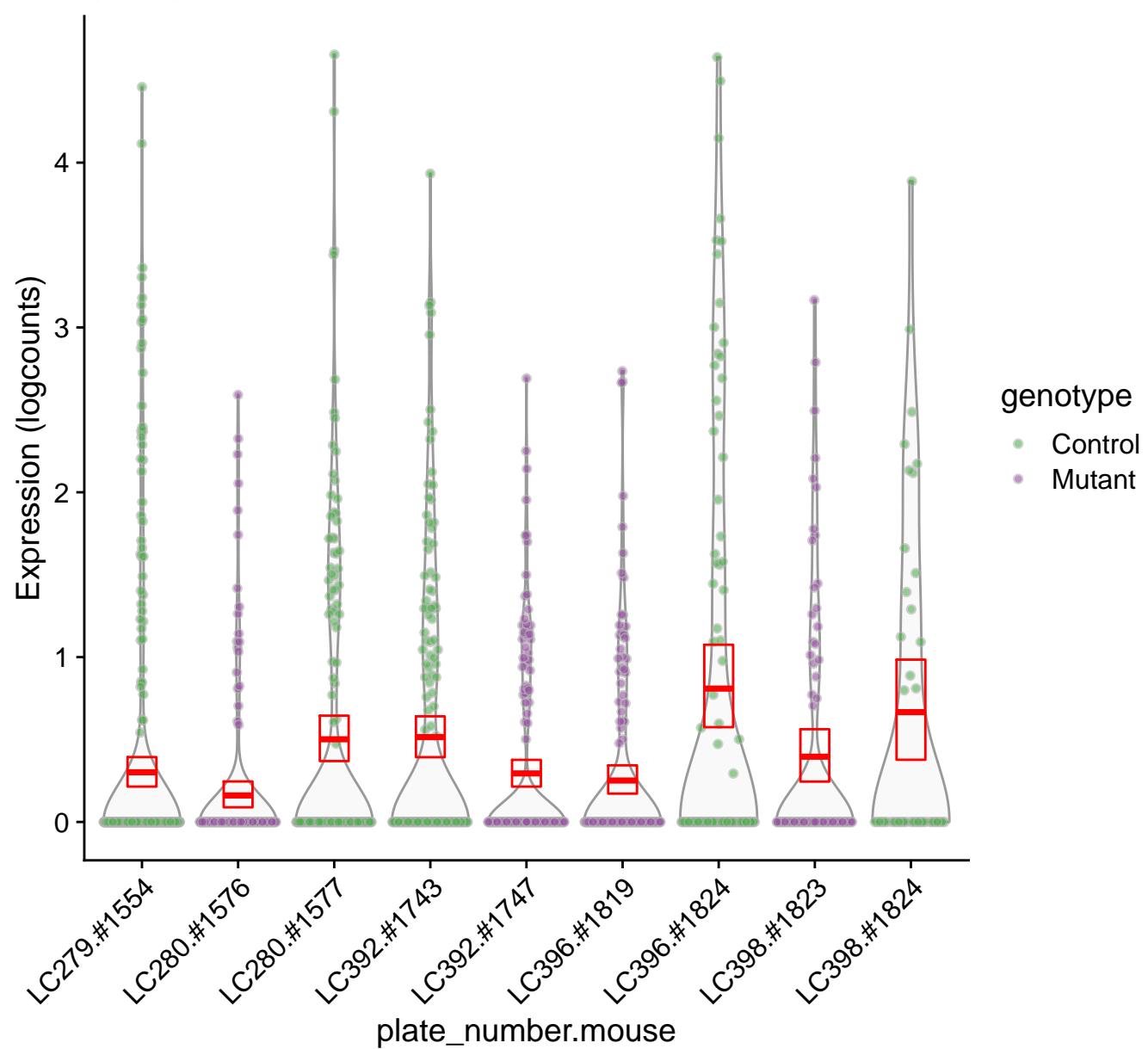
# Ddx3y (FDR = 8e-07)

ignoring\_cluster\_labels



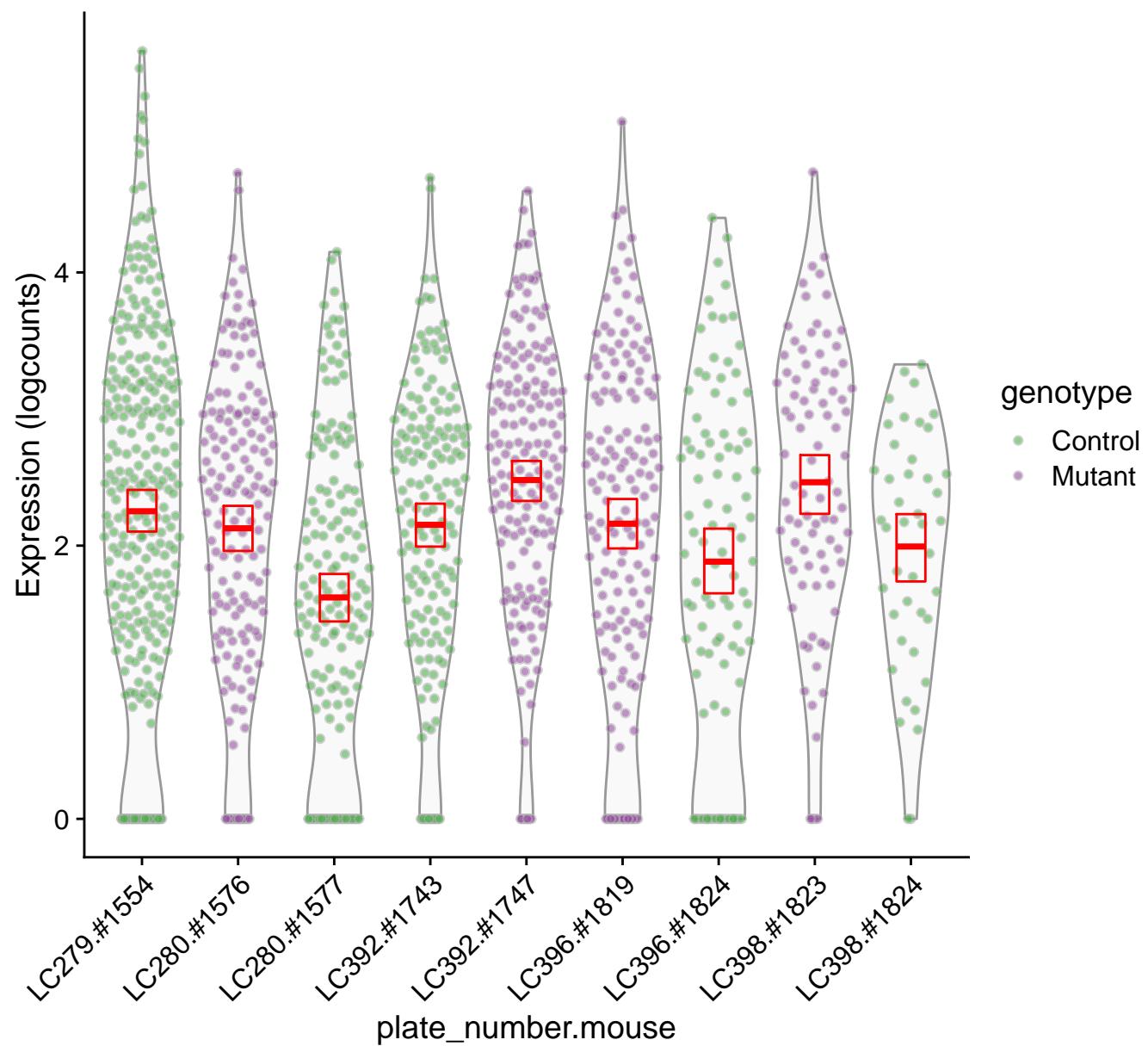
# **Slc16a1 (FDR = 8e-07)**

ignoring\_cluster\_labels



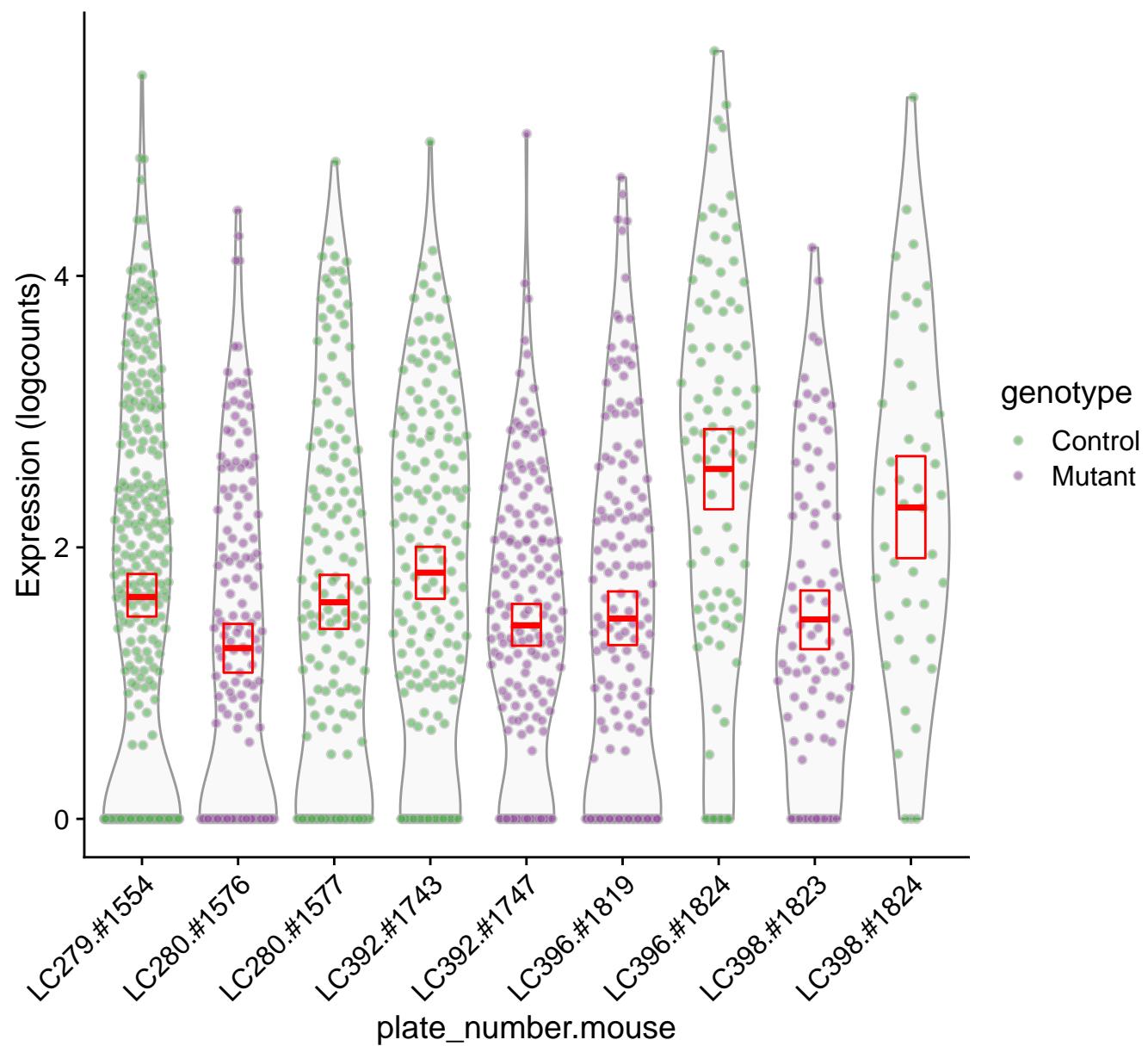
# Ctla2a (FDR = 9e-07)

ignoring\_cluster\_labels



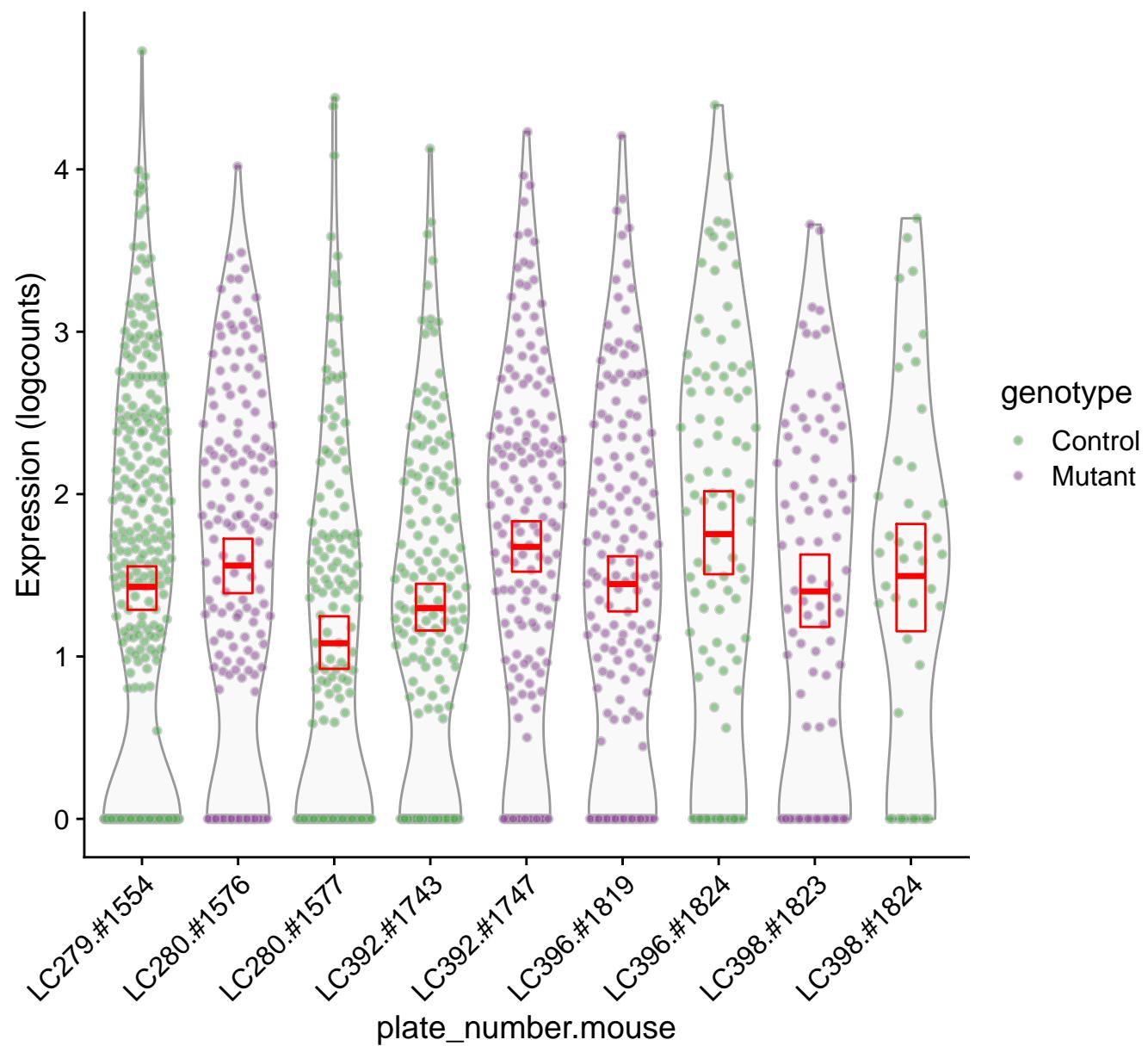
# Sepp1 (FDR = 1e-06)

ignoring\_cluster\_labels



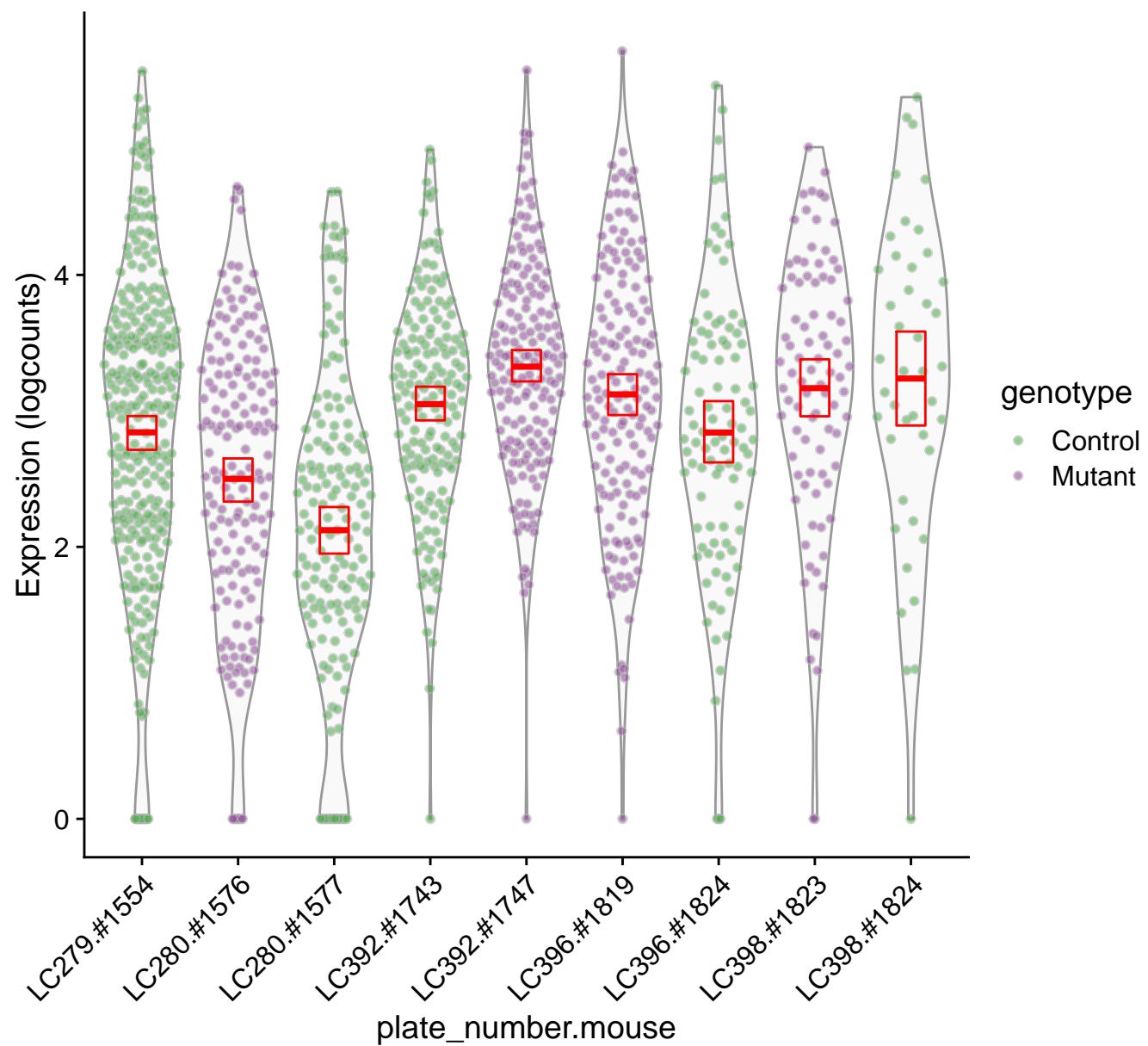
# Plk2 (FDR = 1e-06)

ignoring\_cluster\_labels



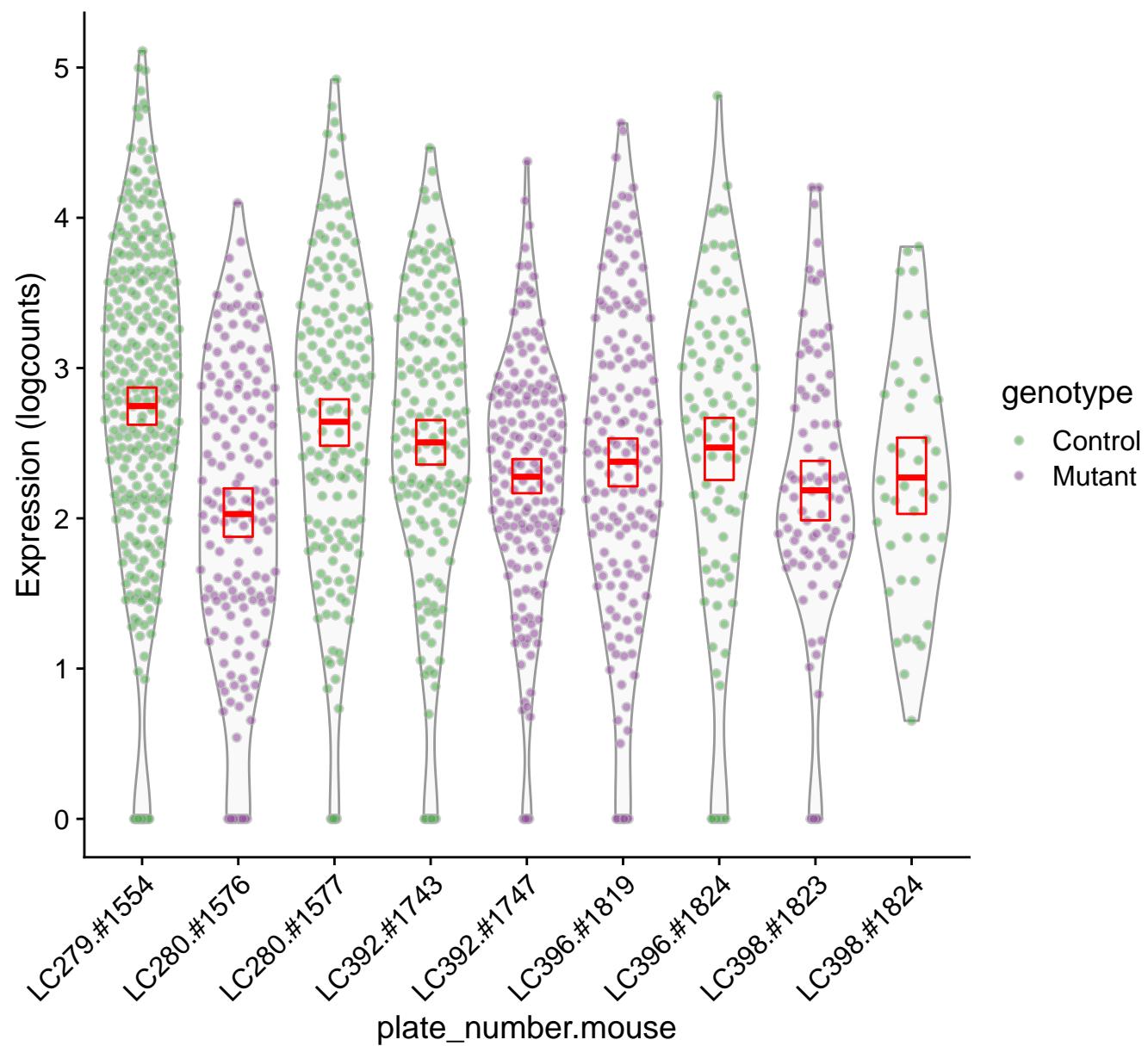
# Sat1 (FDR = 2e-06)

ignoring\_cluster\_labels



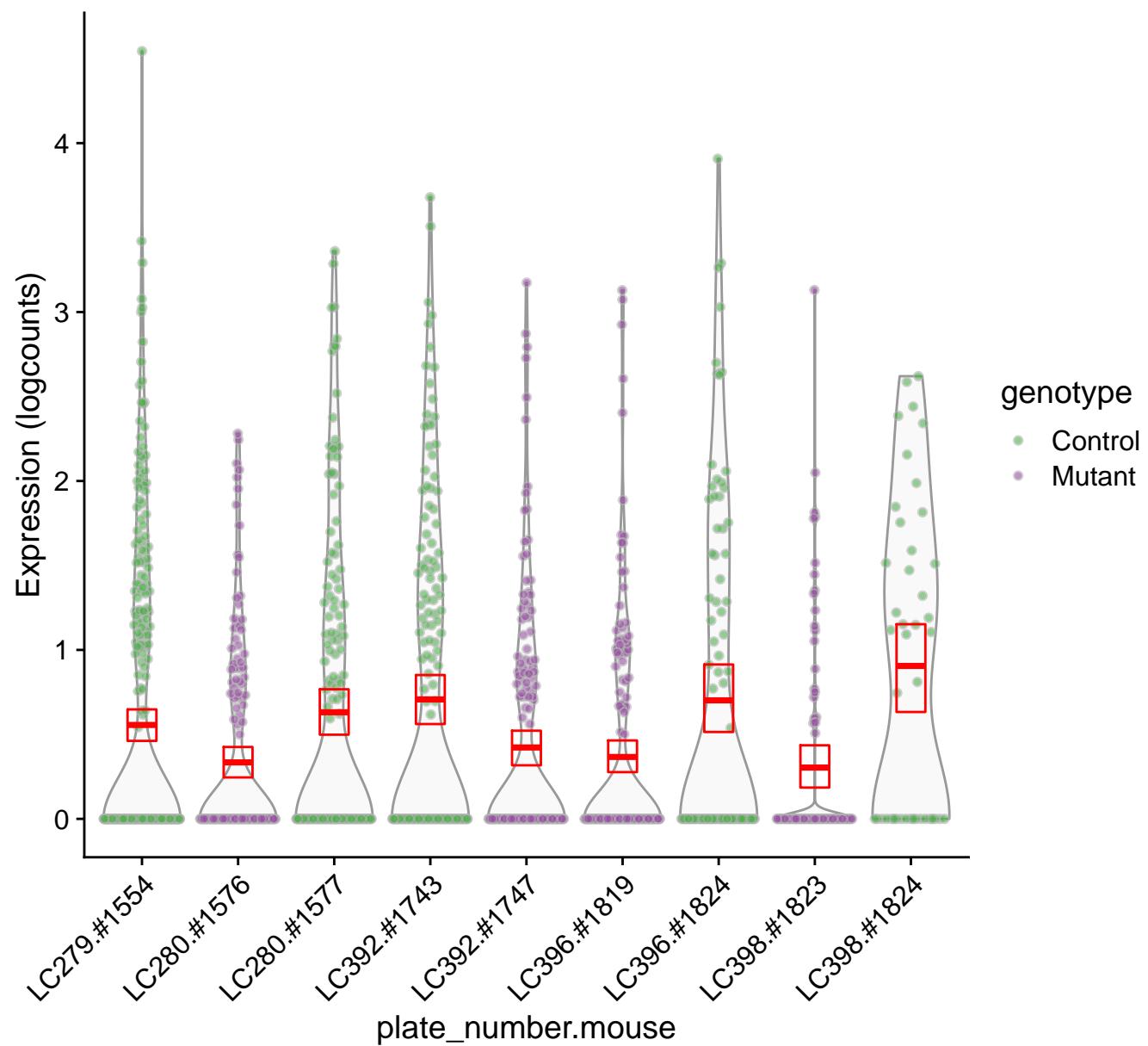
## H2-D1 (FDR = 2e-06)

ignoring\_cluster\_labels



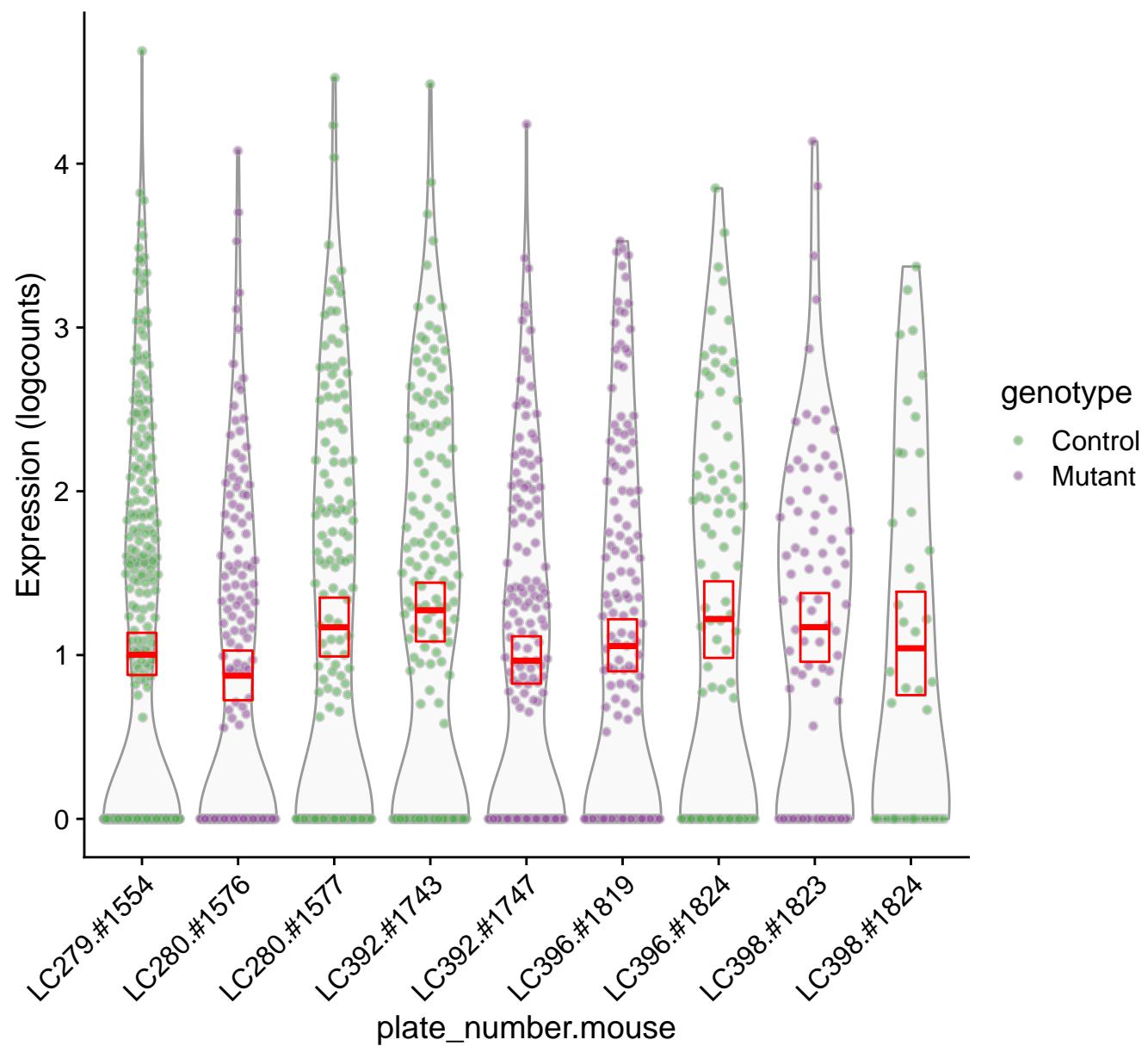
# Tgfb1 (FDR = 3e-06)

ignoring\_cluster\_labels



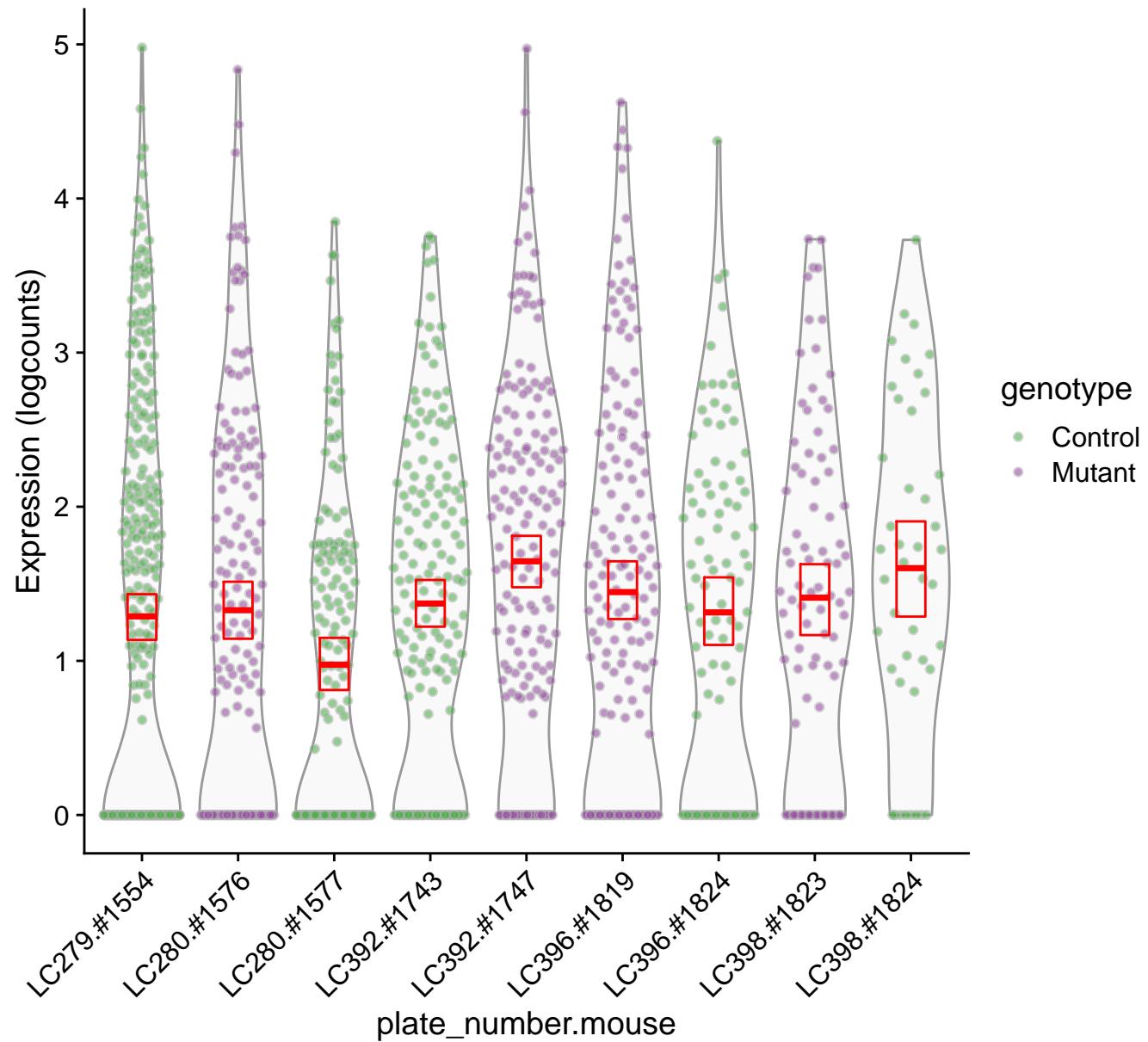
# Bgn (FDR = 4e-06)

ignoring\_cluster\_labels



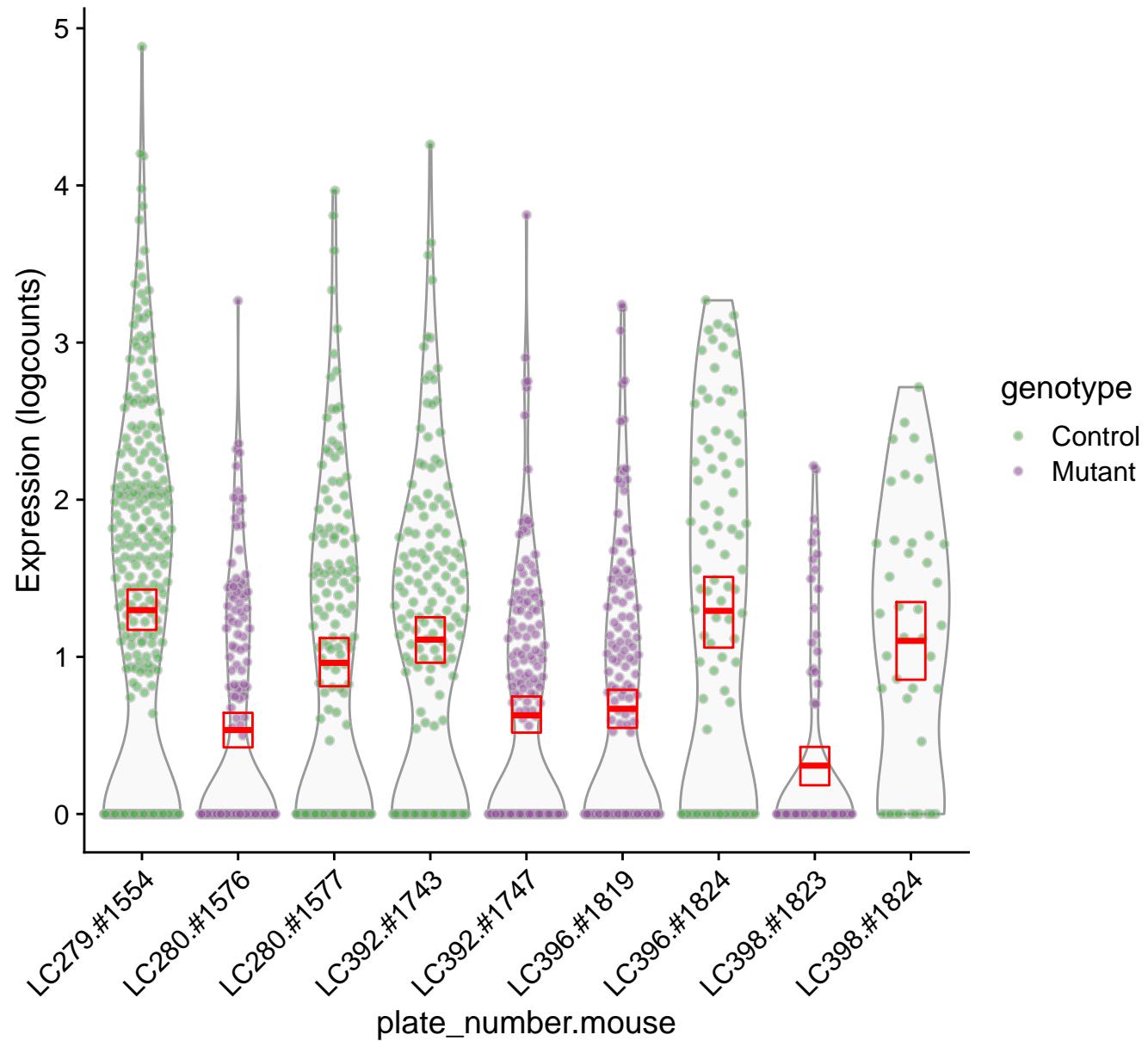
# DII4 (FDR = 4e-06)

ignoring\_cluster\_labels



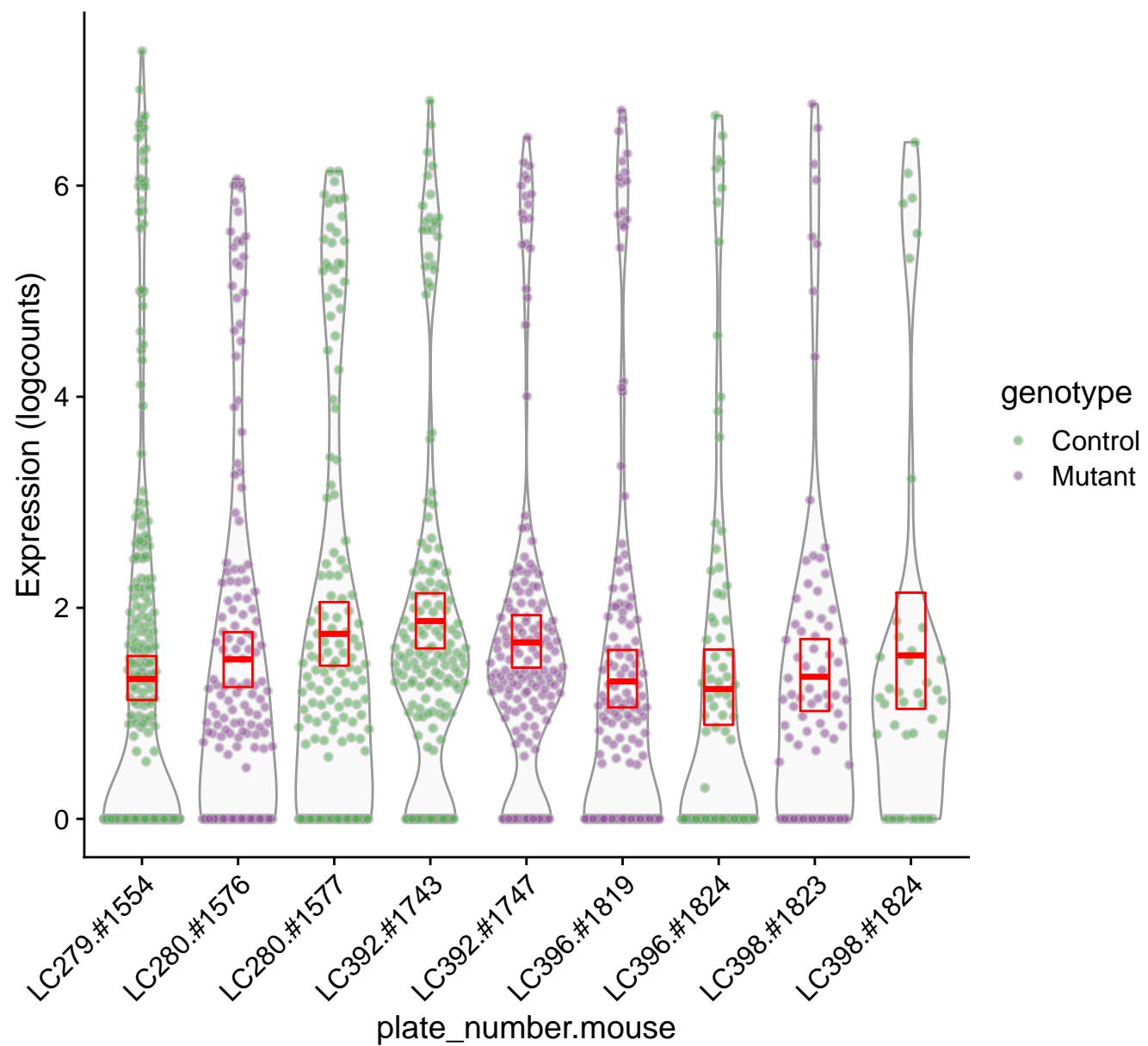
# Tmem176b (FDR = 5e-06)

ignoring\_cluster\_labels



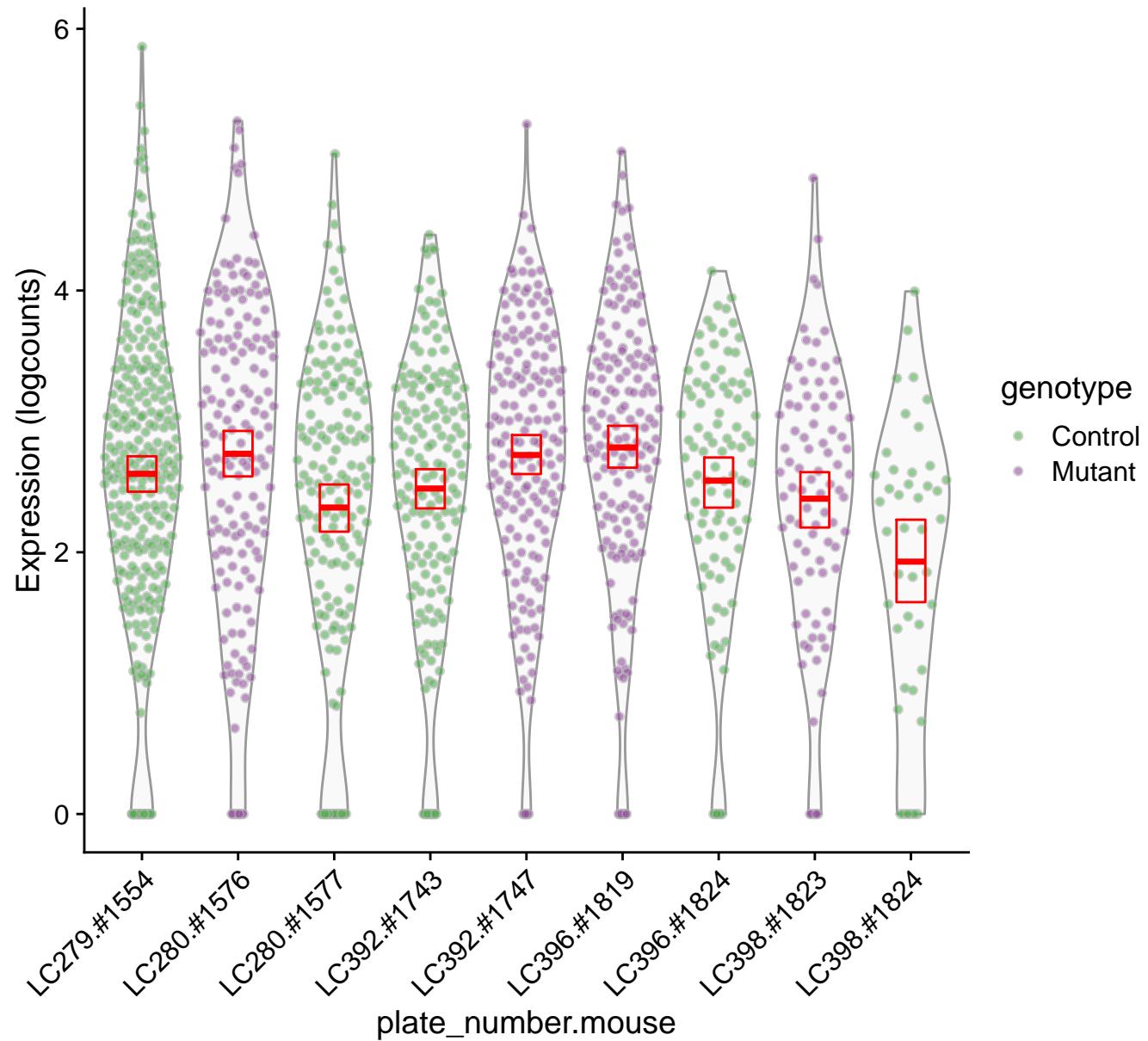
# Hist1h2ap (FDR = 8e-06)

ignoring\_cluster\_labels



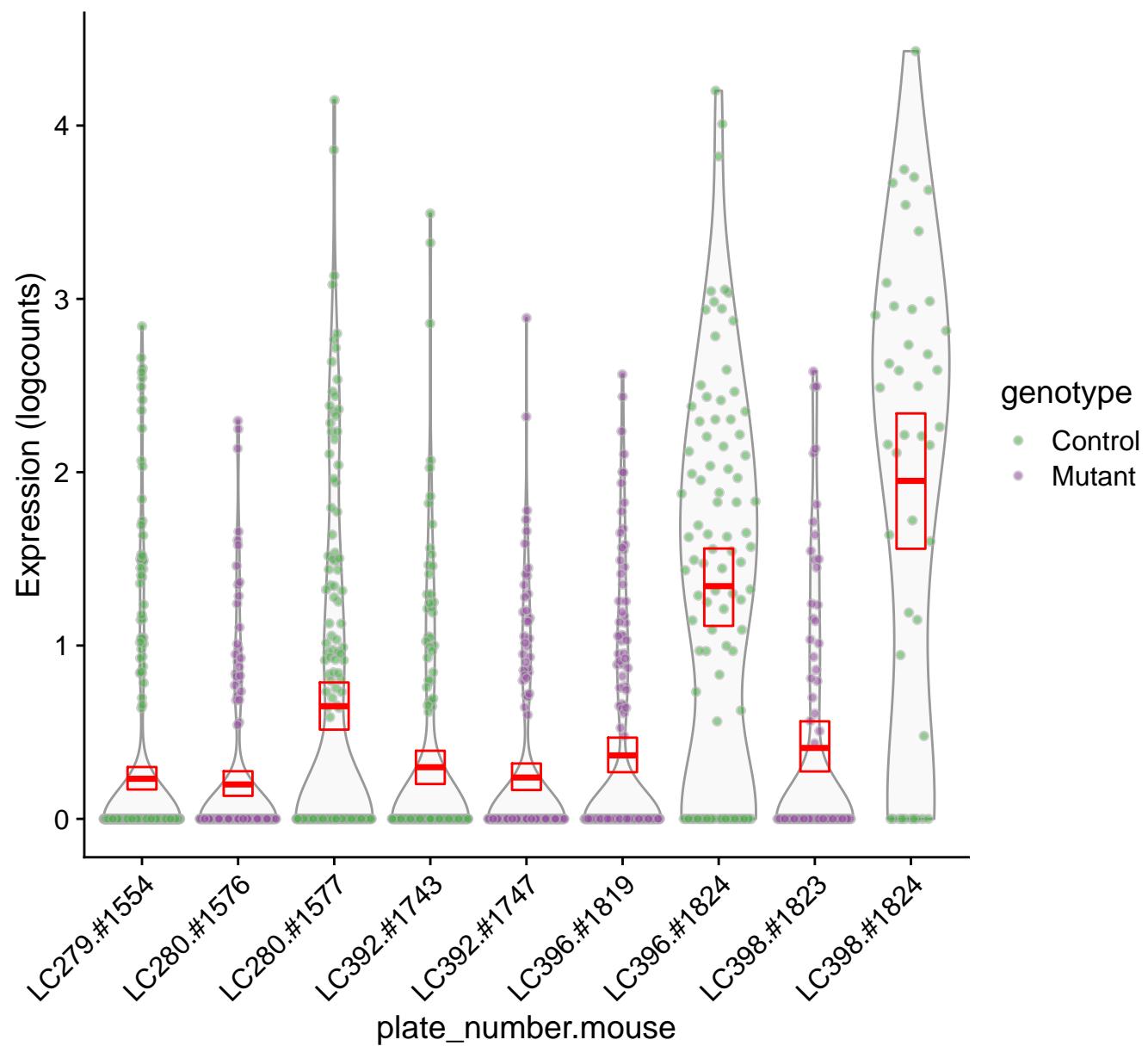
# Lamc1 (FDR = 8e-06)

ignoring\_cluster\_labels



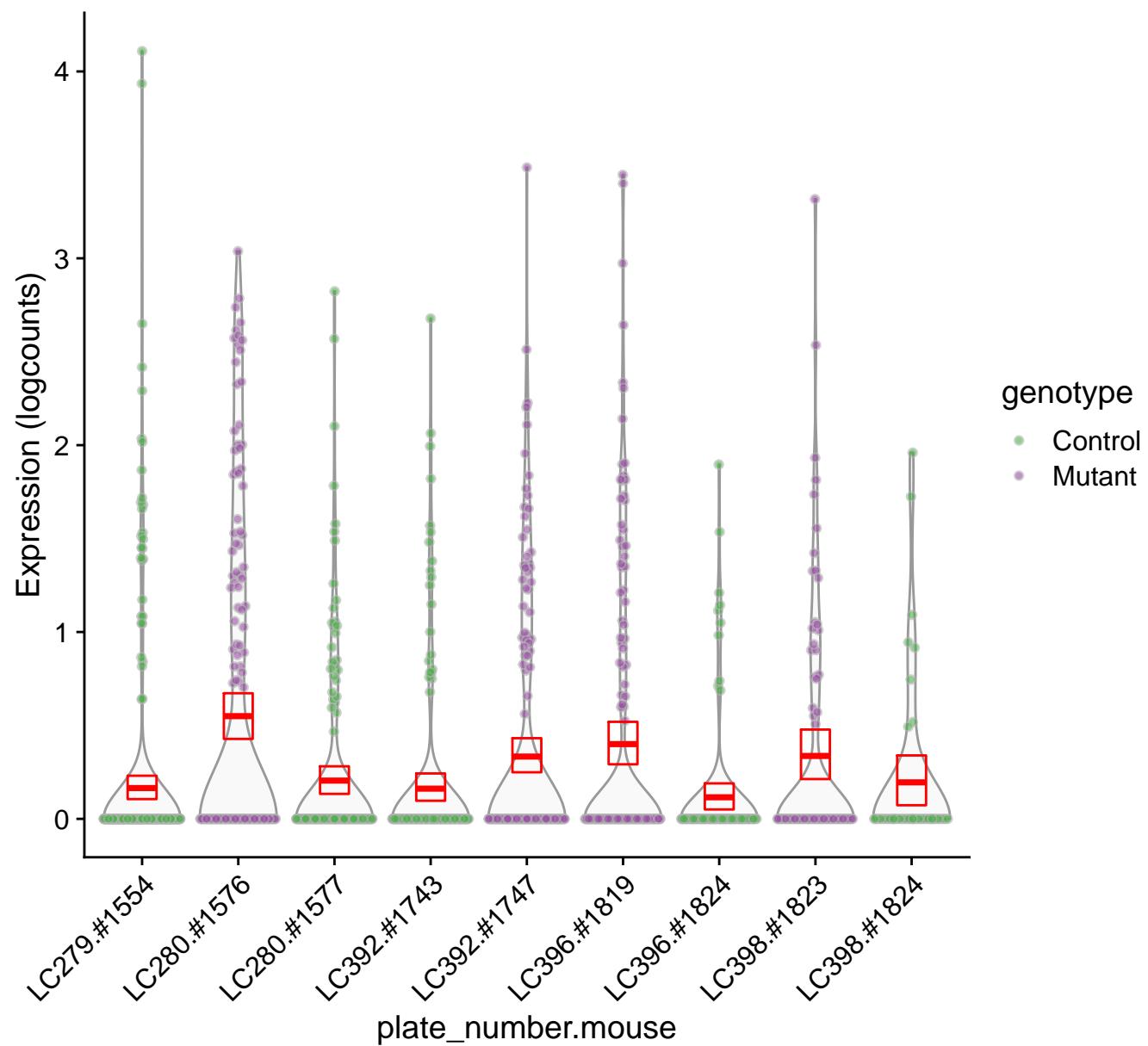
# Erdr1 (FDR = 9e-06)

ignoring\_cluster\_labels



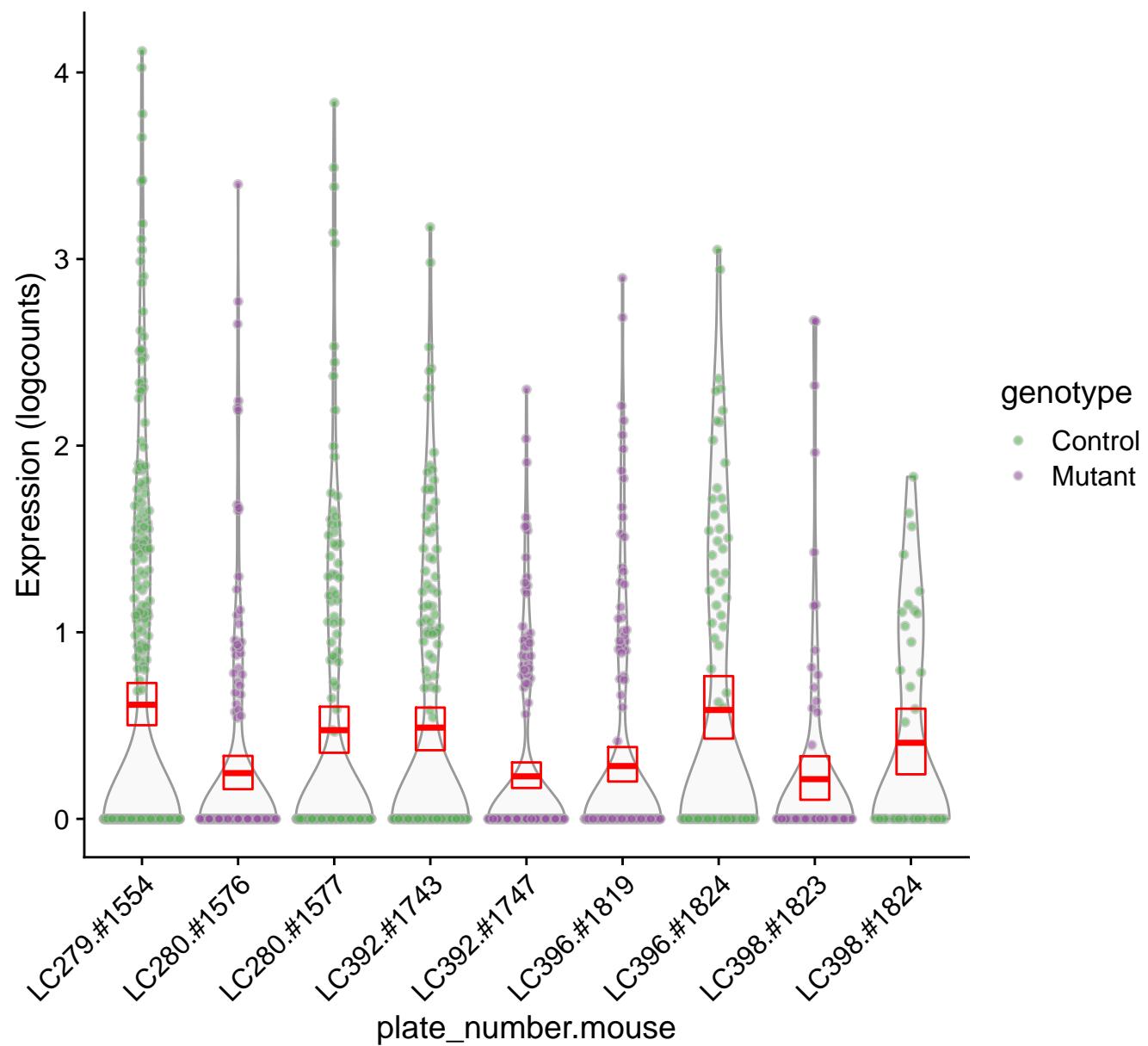
## Basp1 (FDR = 2e-05)

## ignoring\_cluster\_labels



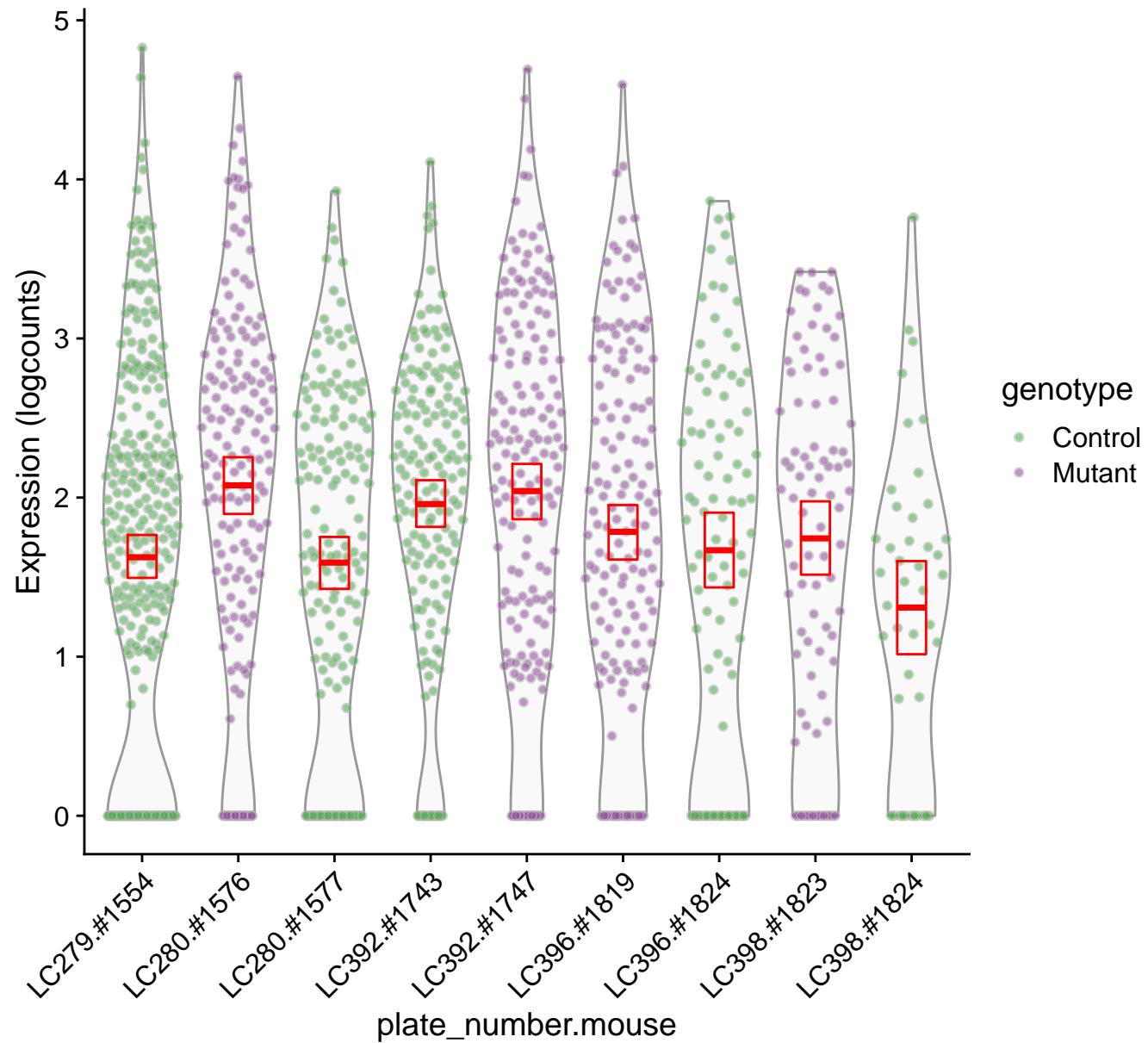
# Serpinb6a (FDR = 2e-05)

ignoring\_cluster\_labels



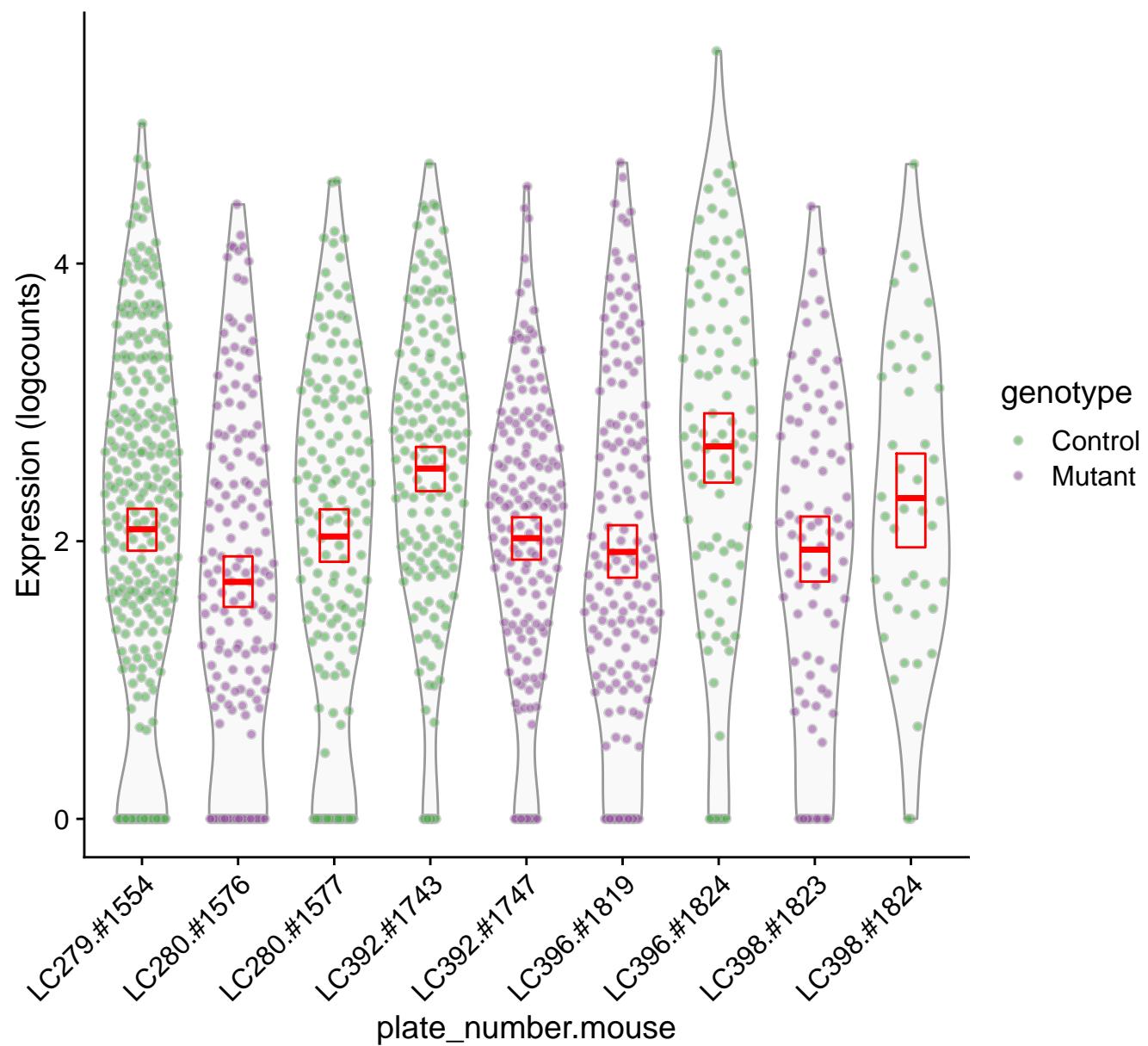
# Anxa1 (FDR = 2e-05)

ignoring\_cluster\_labels



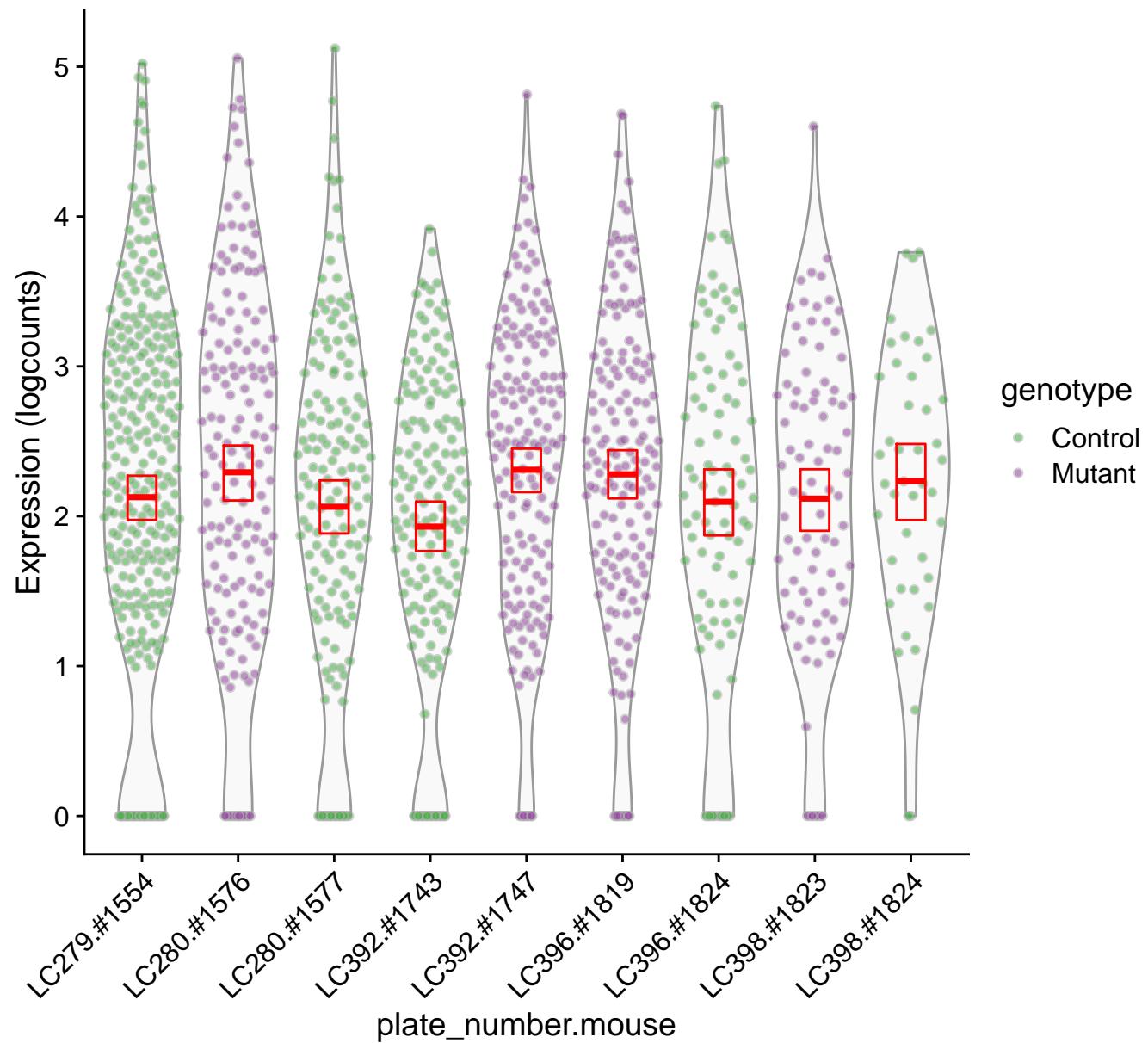
# Lrp8 (FDR = 3e-05)

ignoring\_cluster\_labels



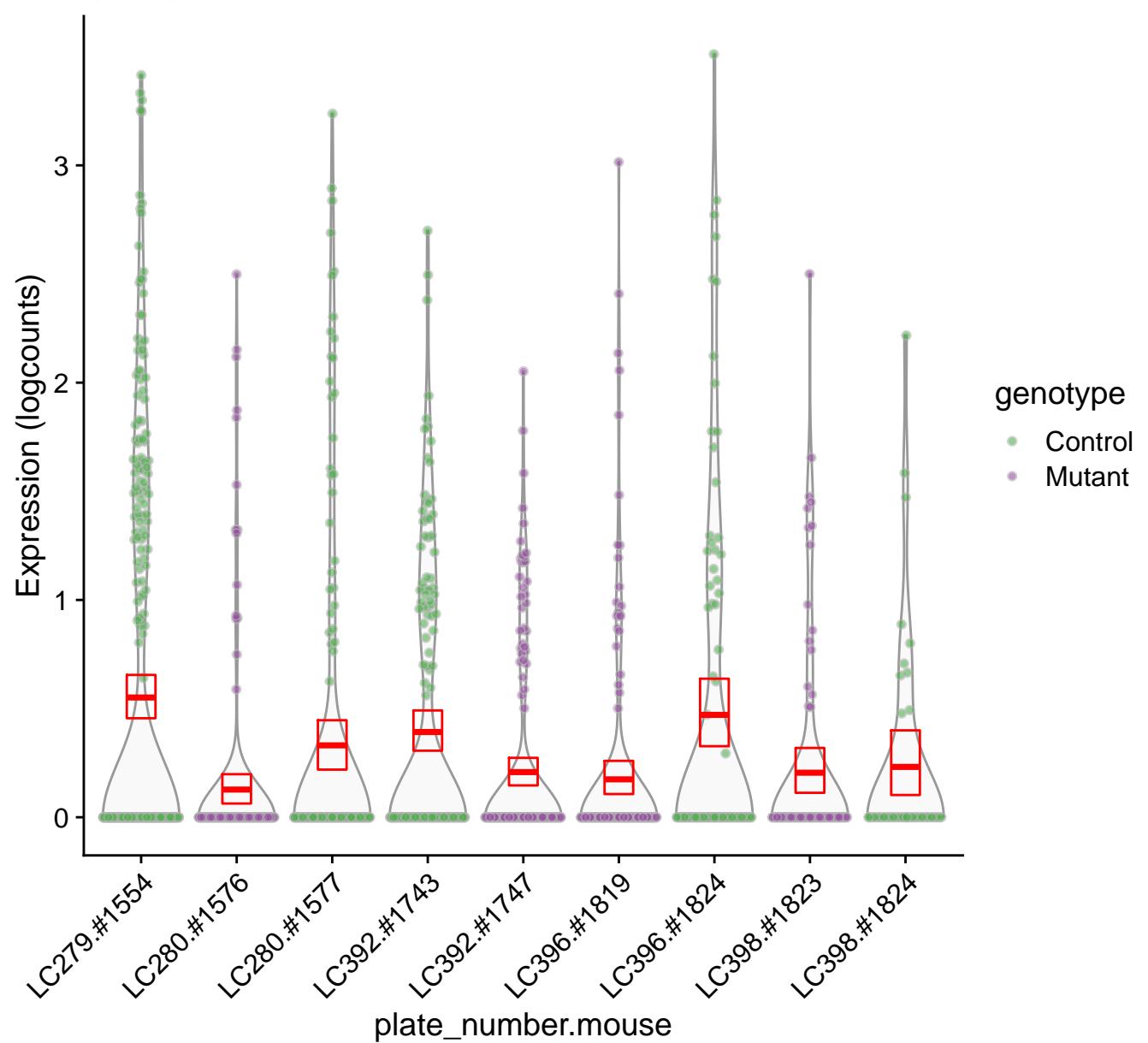
# Cxx1b (FDR = 3e-05)

ignoring\_cluster\_labels



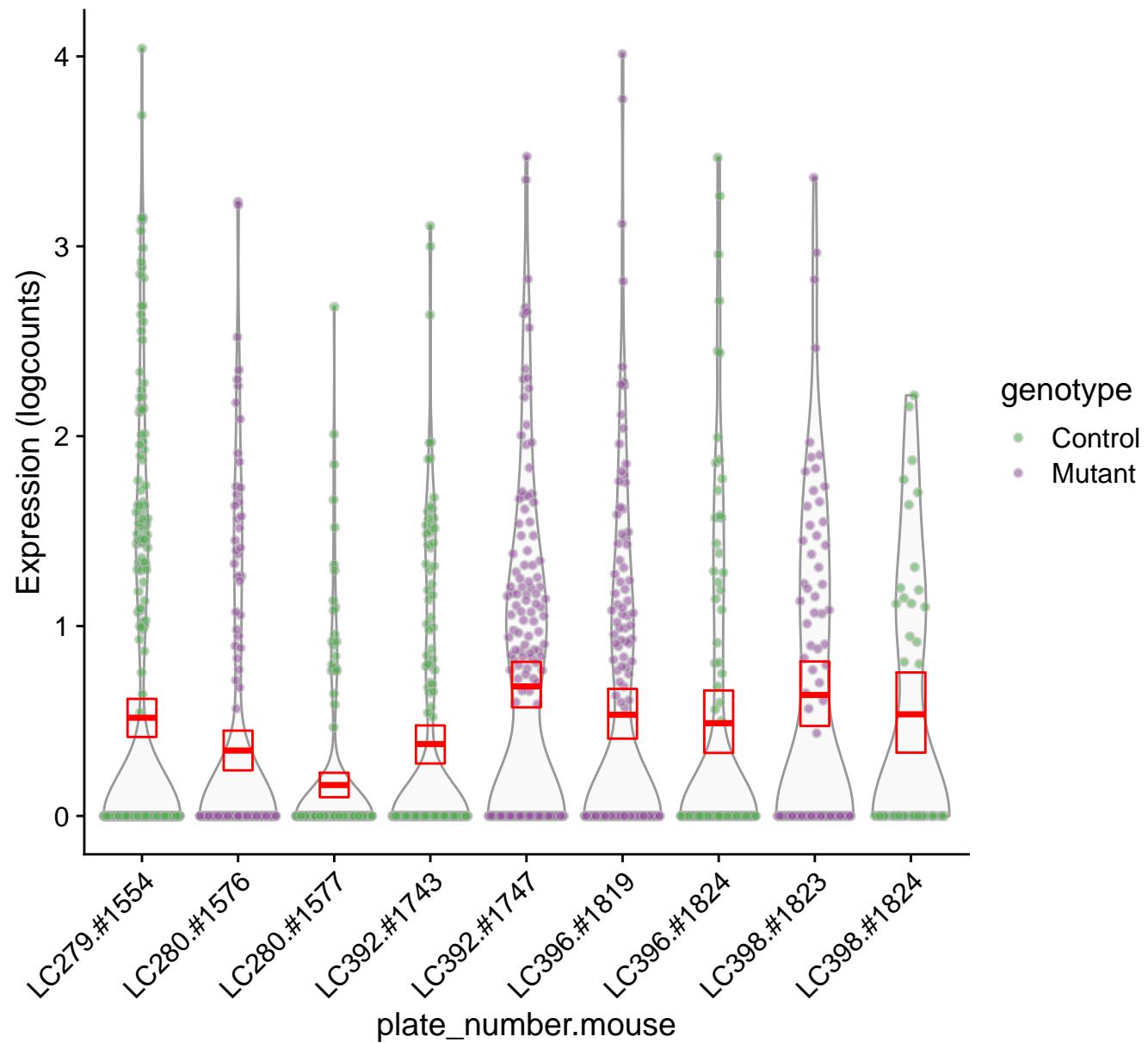
# Cstb (FDR = 4e-05)

ignoring\_cluster\_labels



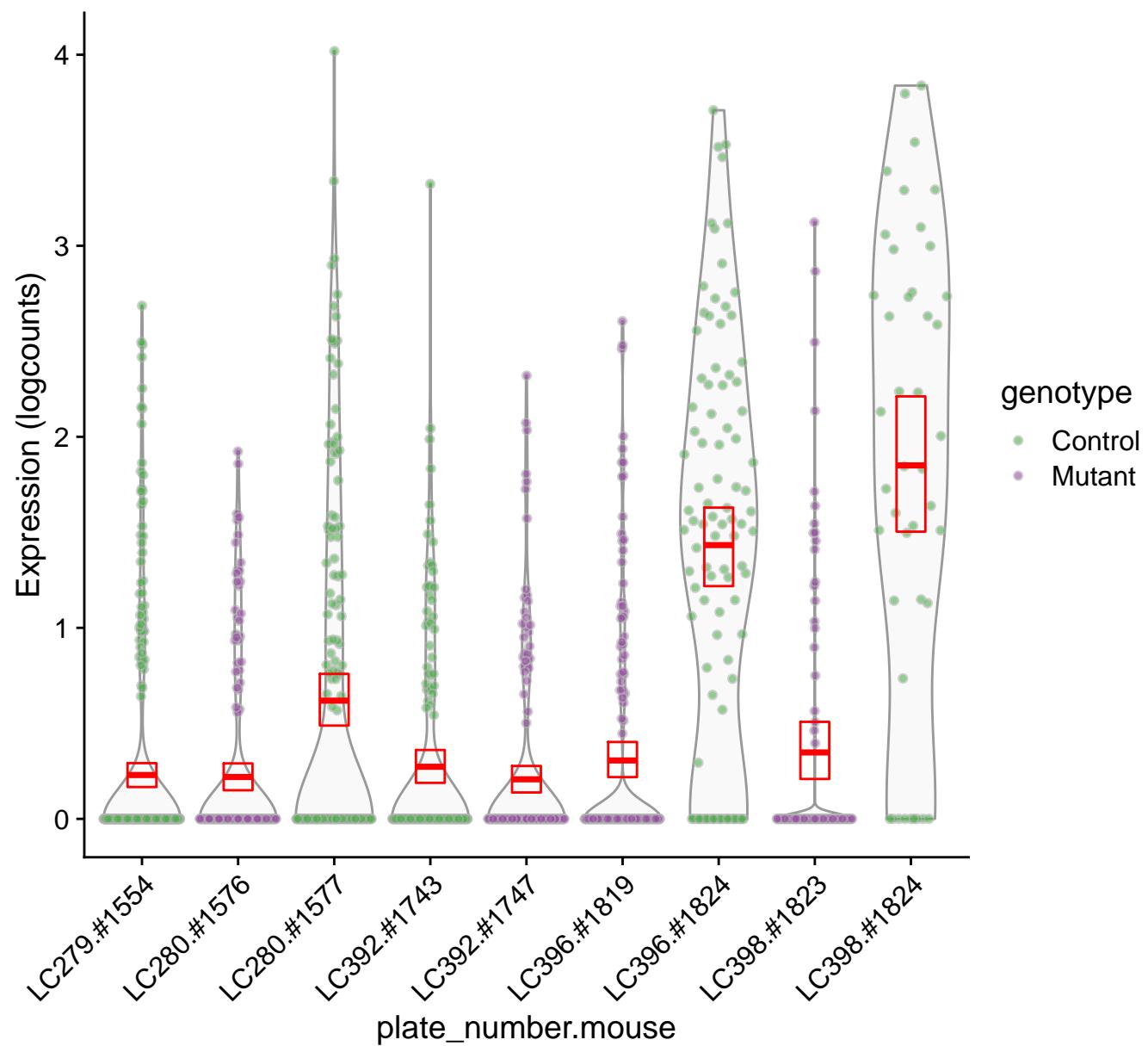
# Acer2 (FDR = 4e-05)

ignoring\_cluster\_labels



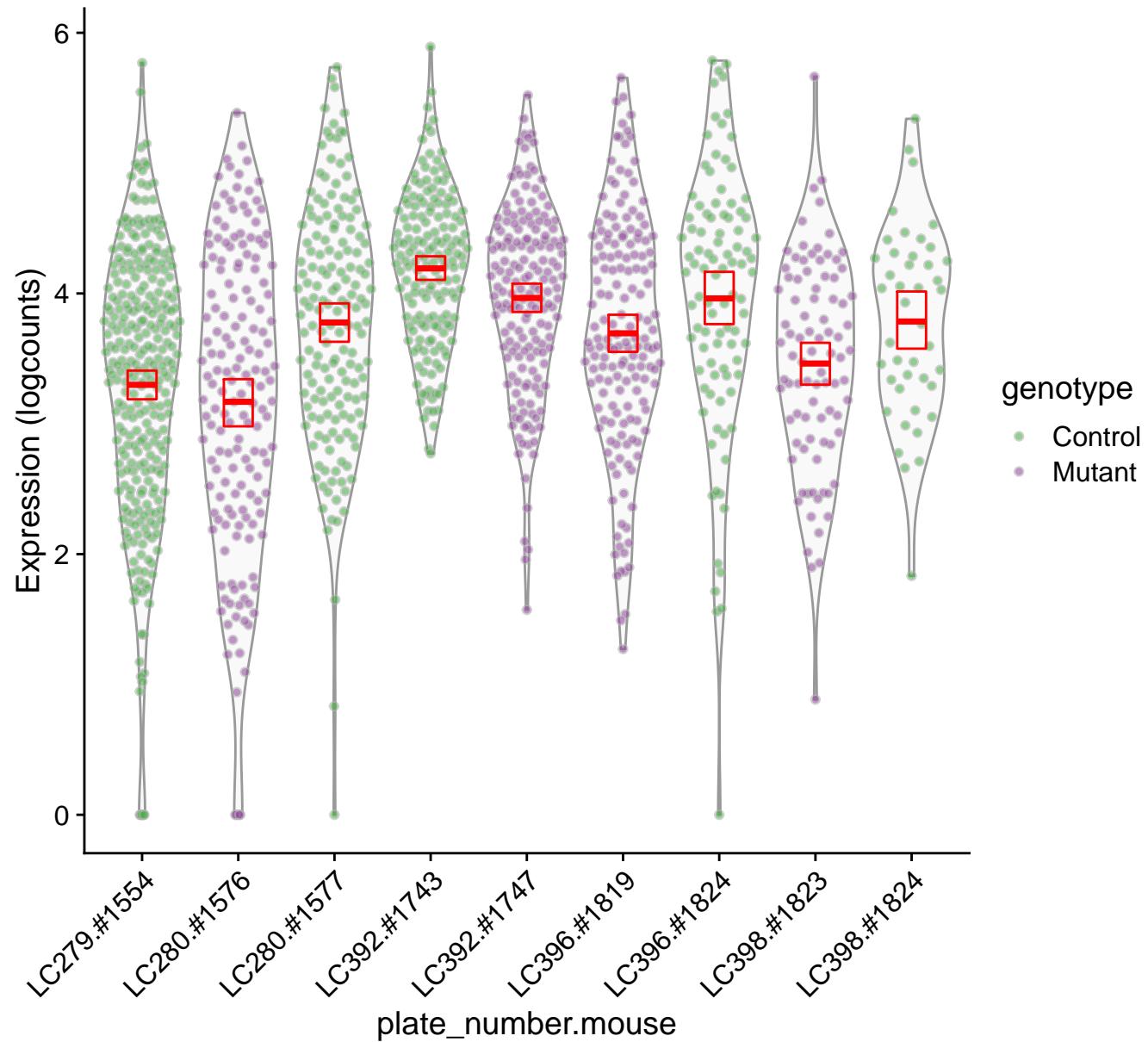
# Gm21887 (FDR = 5e-05)

ignoring\_cluster\_labels



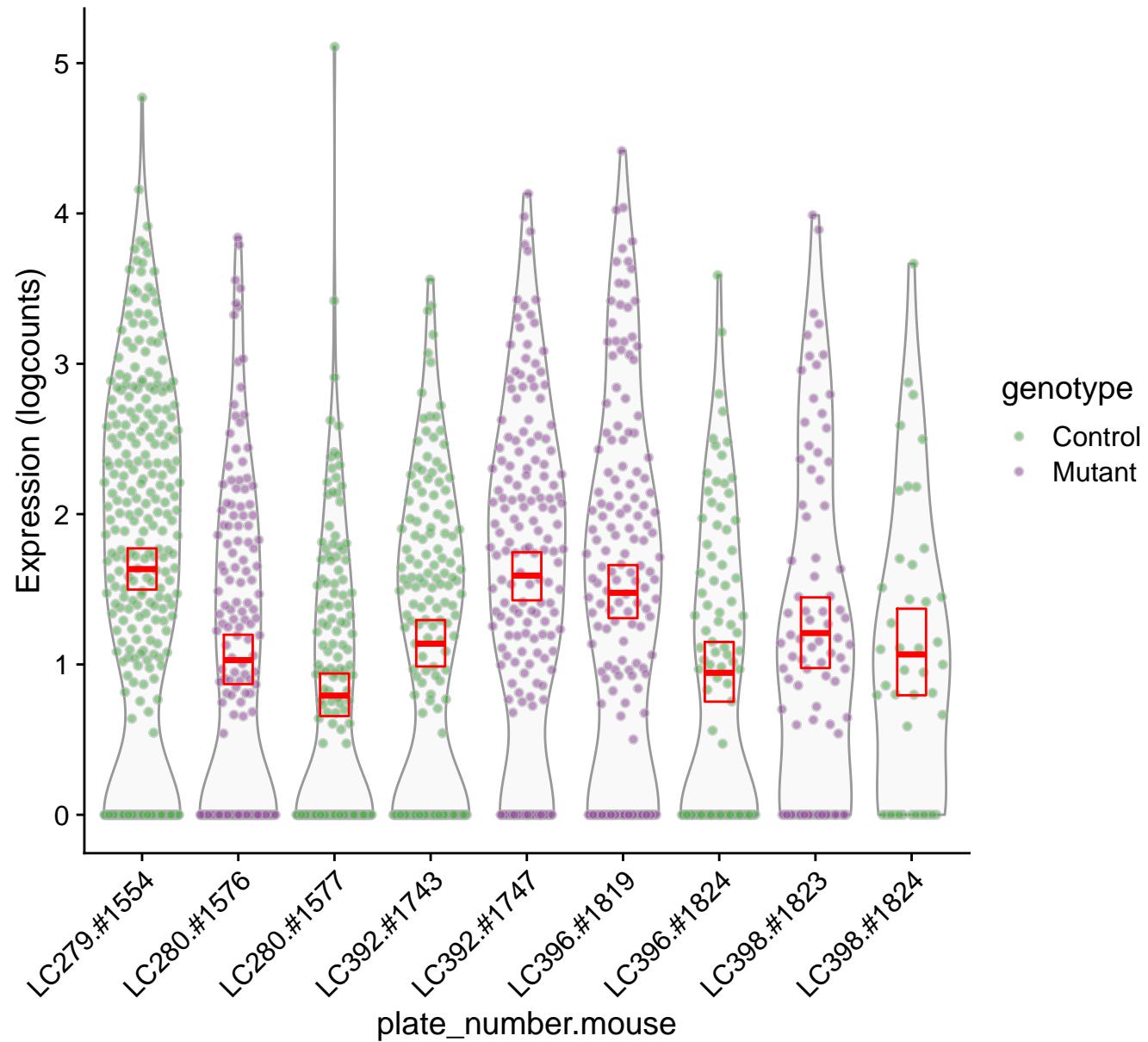
# **Slc7a1 (FDR = 5e-05)**

ignoring\_cluster\_labels



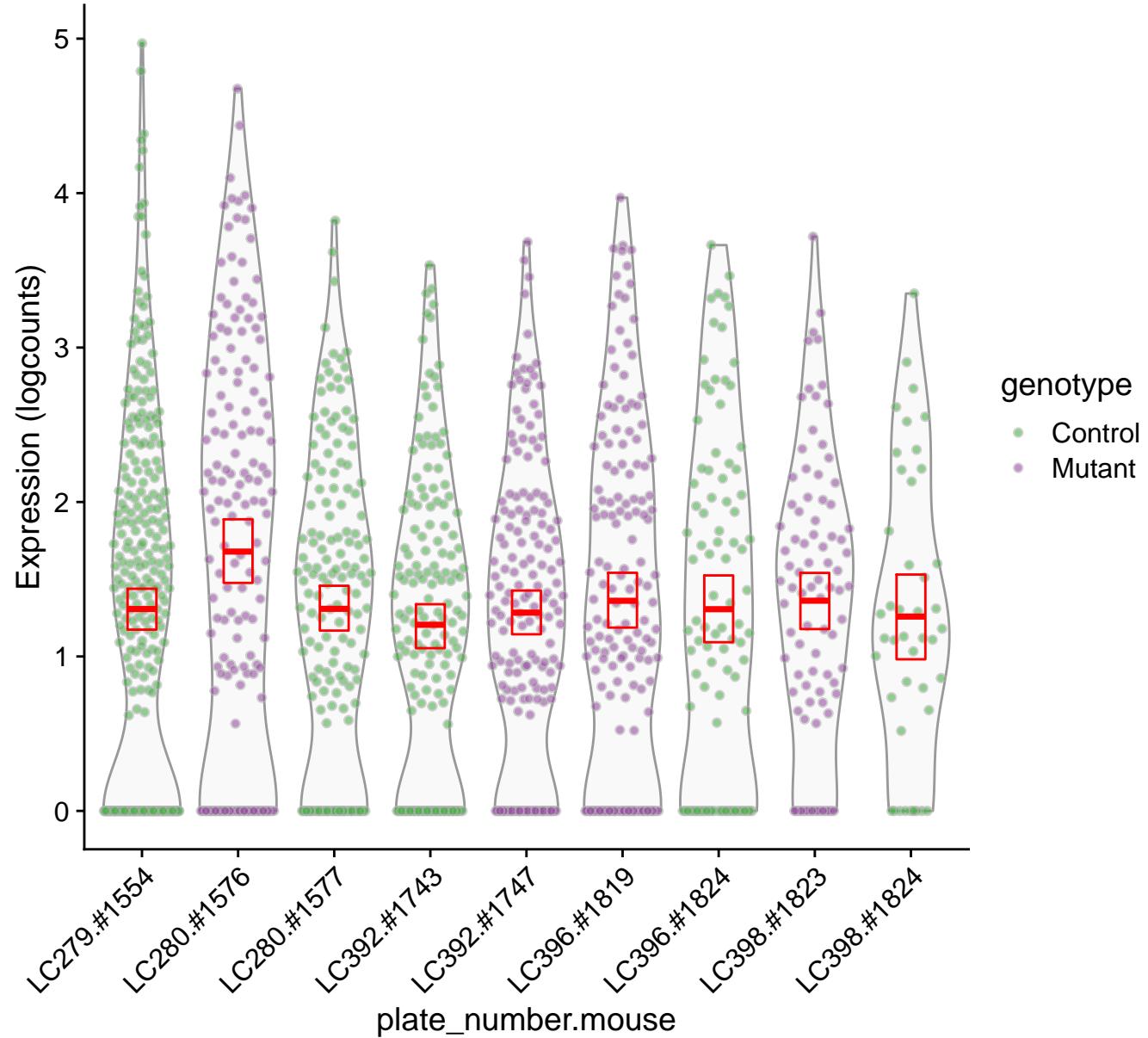
# Plvap (FDR = 5e-05)

ignoring\_cluster\_labels



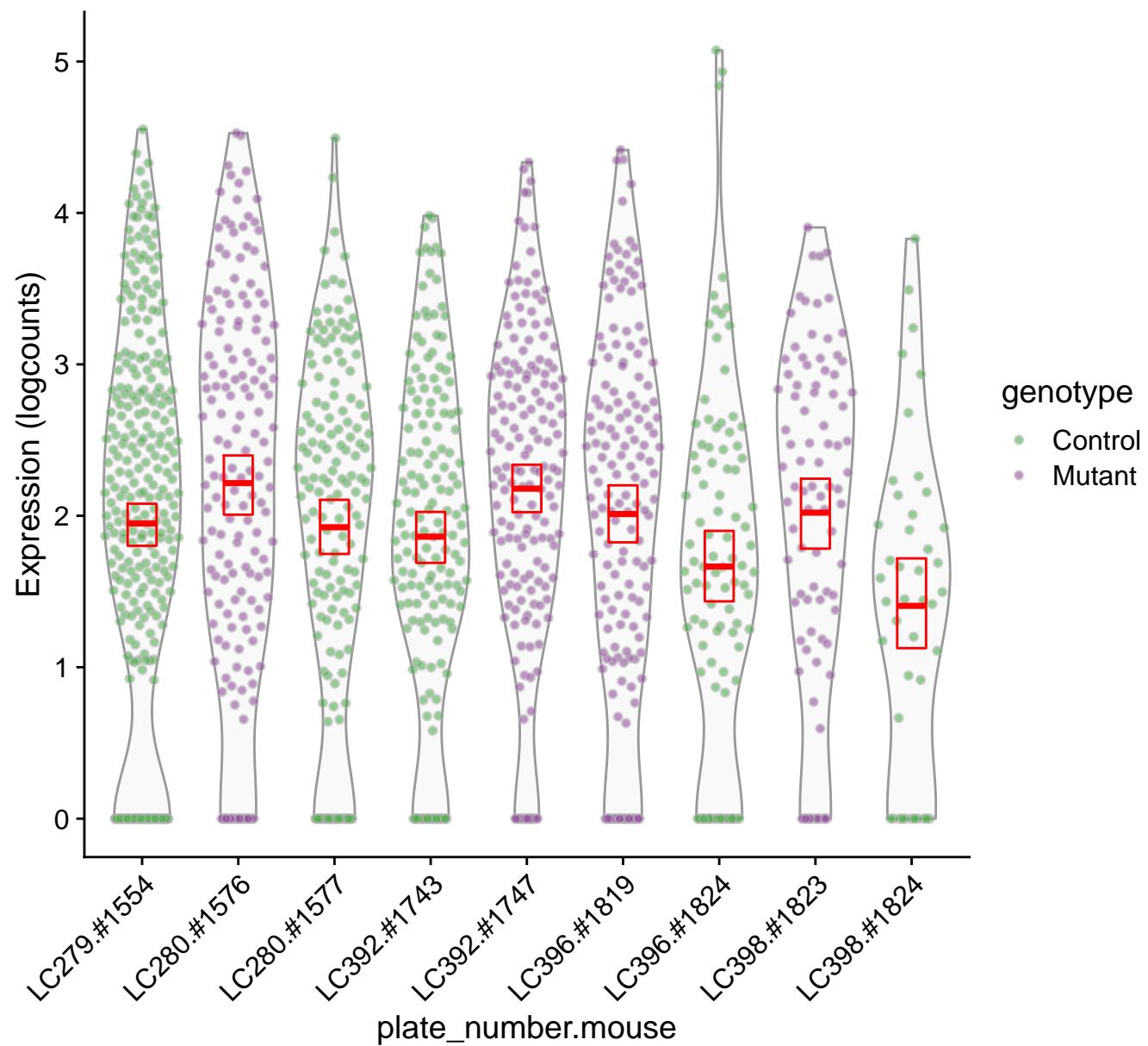
# Ptp4a3 (FDR = 6e-05)

ignoring\_cluster\_labels



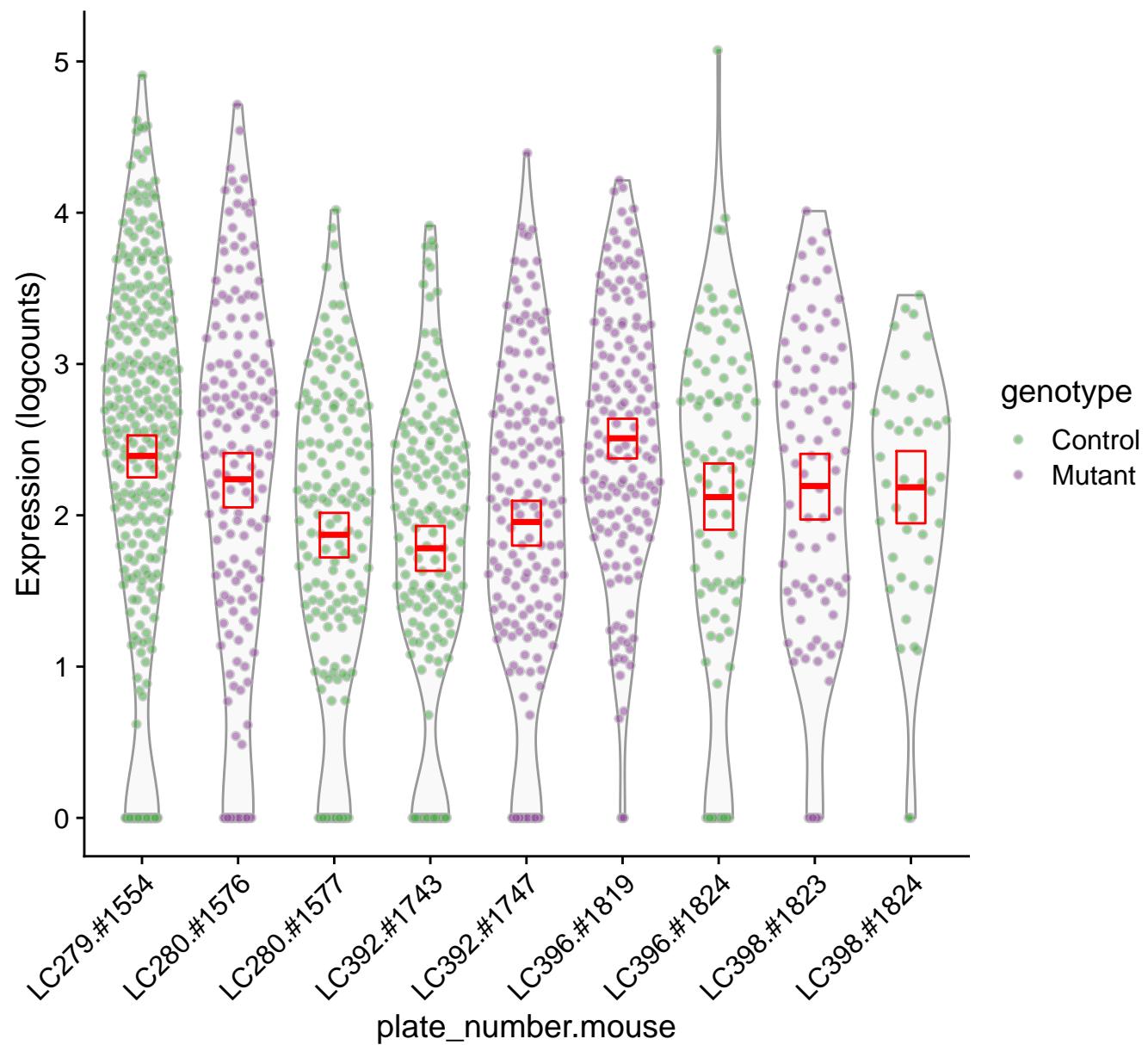
## Nid2 (FDR = 8e-05)

## ignoring\_cluster\_labels



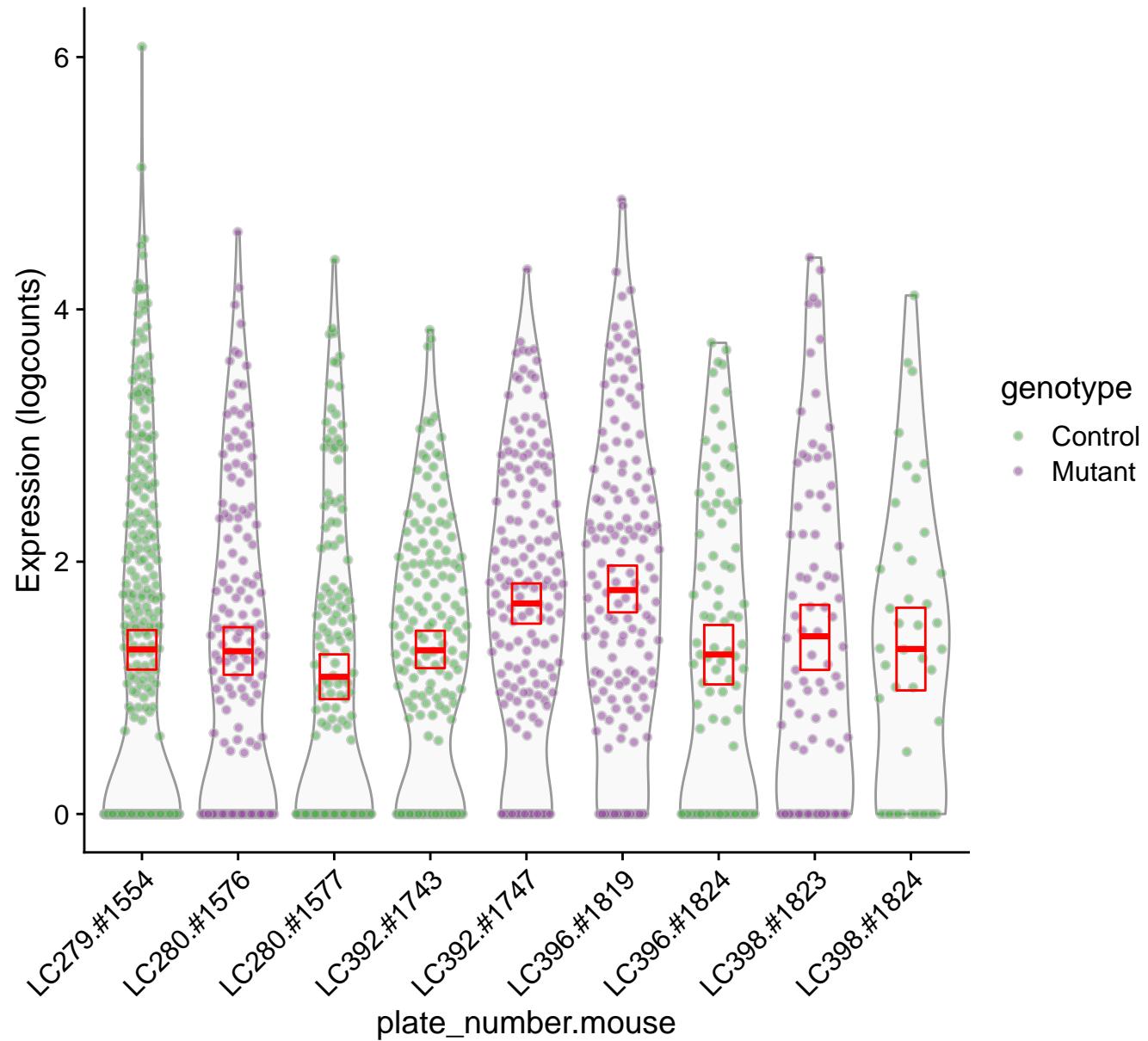
# Mcam (FDR = 8e-05)

ignoring\_cluster\_labels



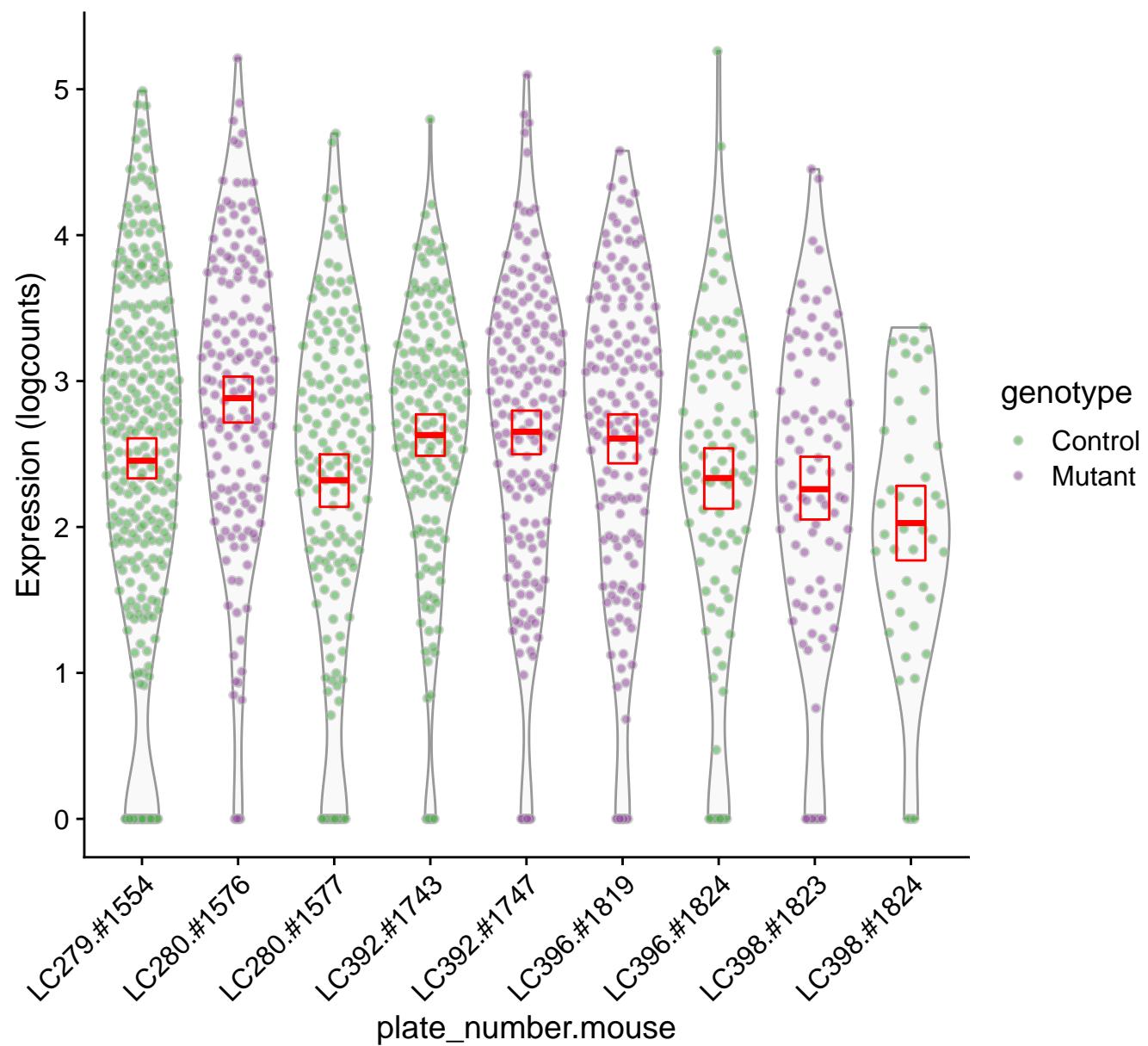
# Ccnd2 (FDR = 9e-05)

ignoring\_cluster\_labels



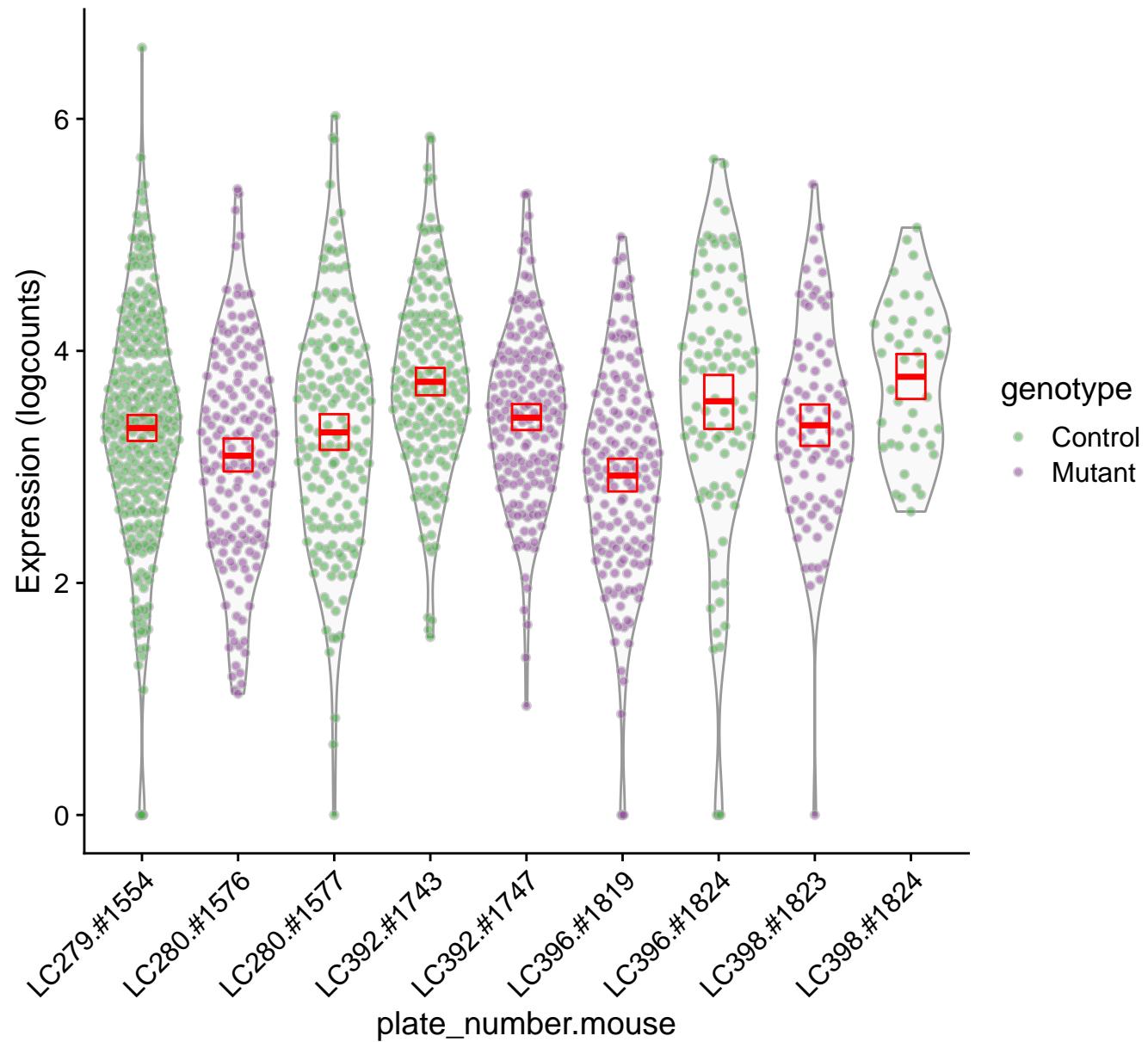
# Lamb1 (FDR = 9e-05)

ignoring\_cluster\_labels



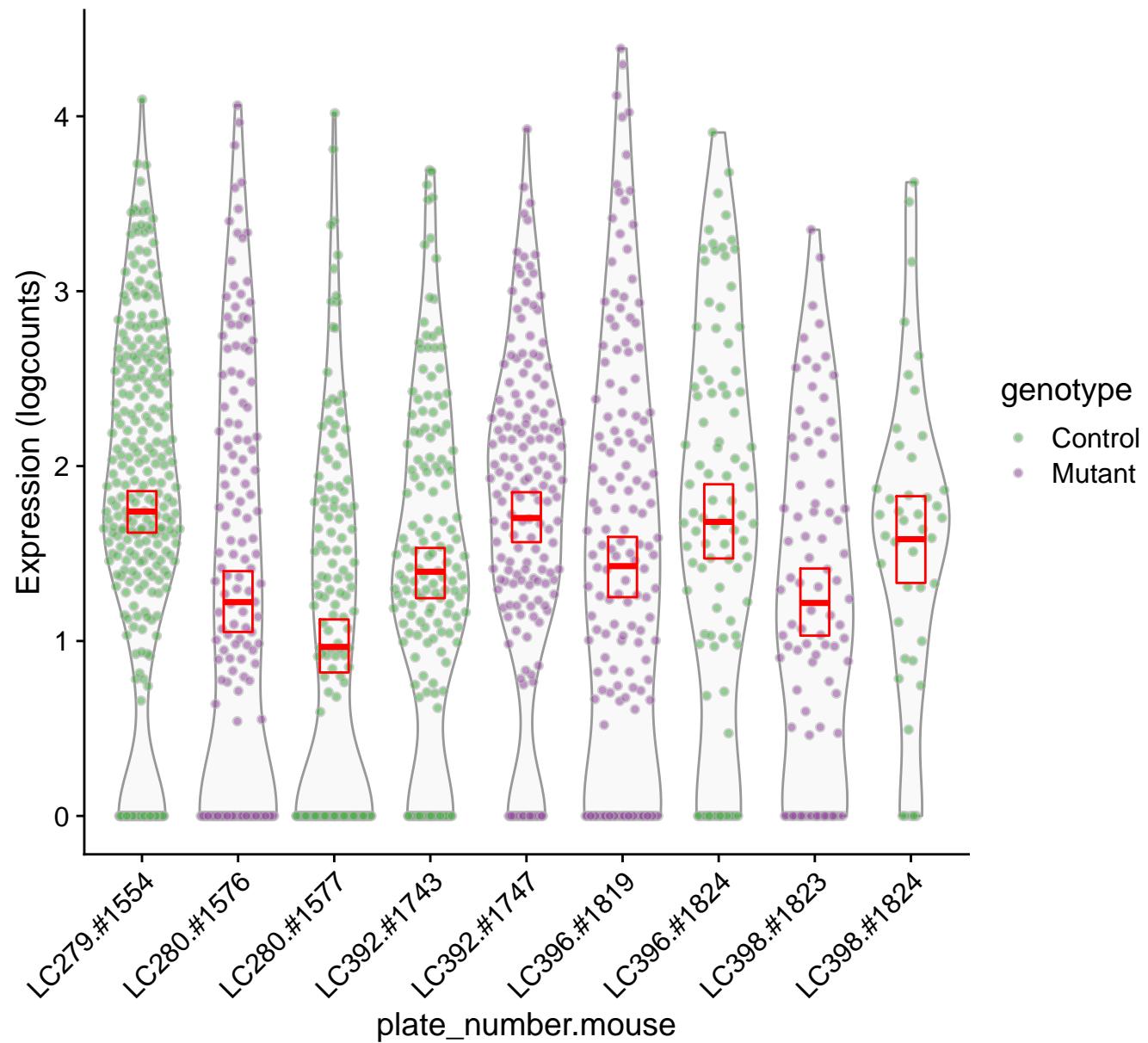
# Fth1 (FDR = 9e-05)

ignoring\_cluster\_labels



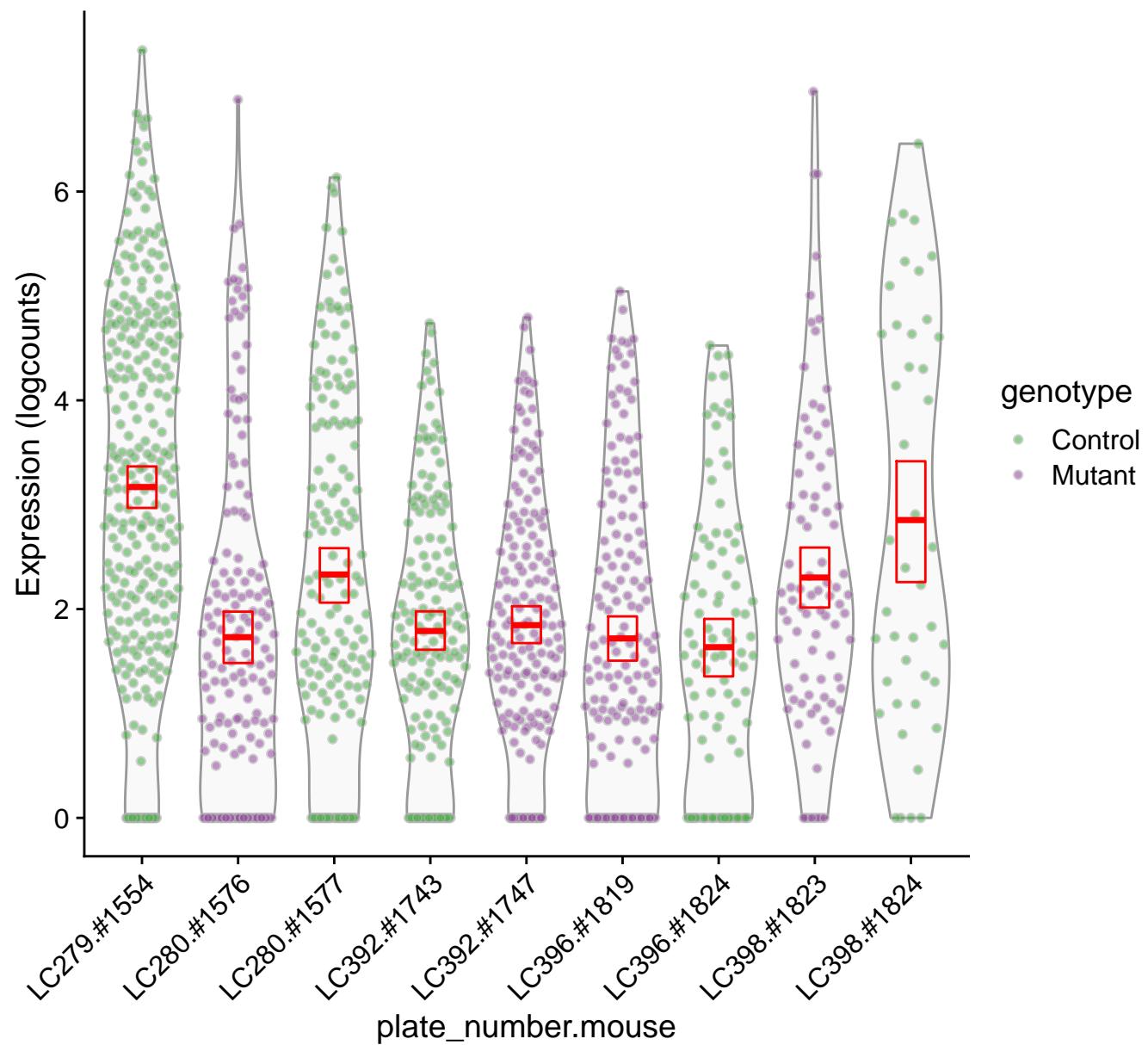
# Anxa6 (FDR = 1e-04)

ignoring\_cluster\_labels



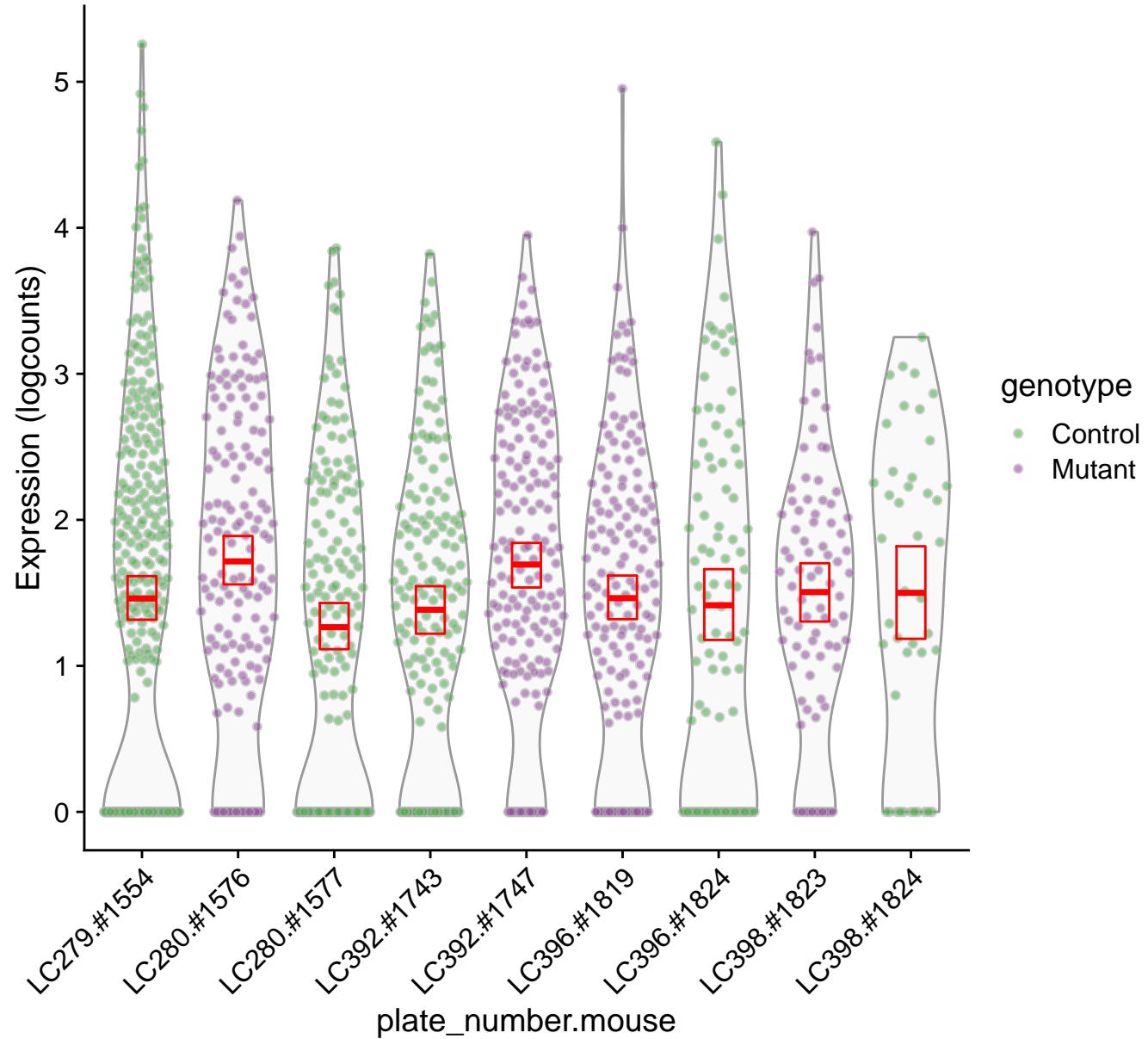
# Lars2 (FDR = 1e-04)

ignoring\_cluster\_labels



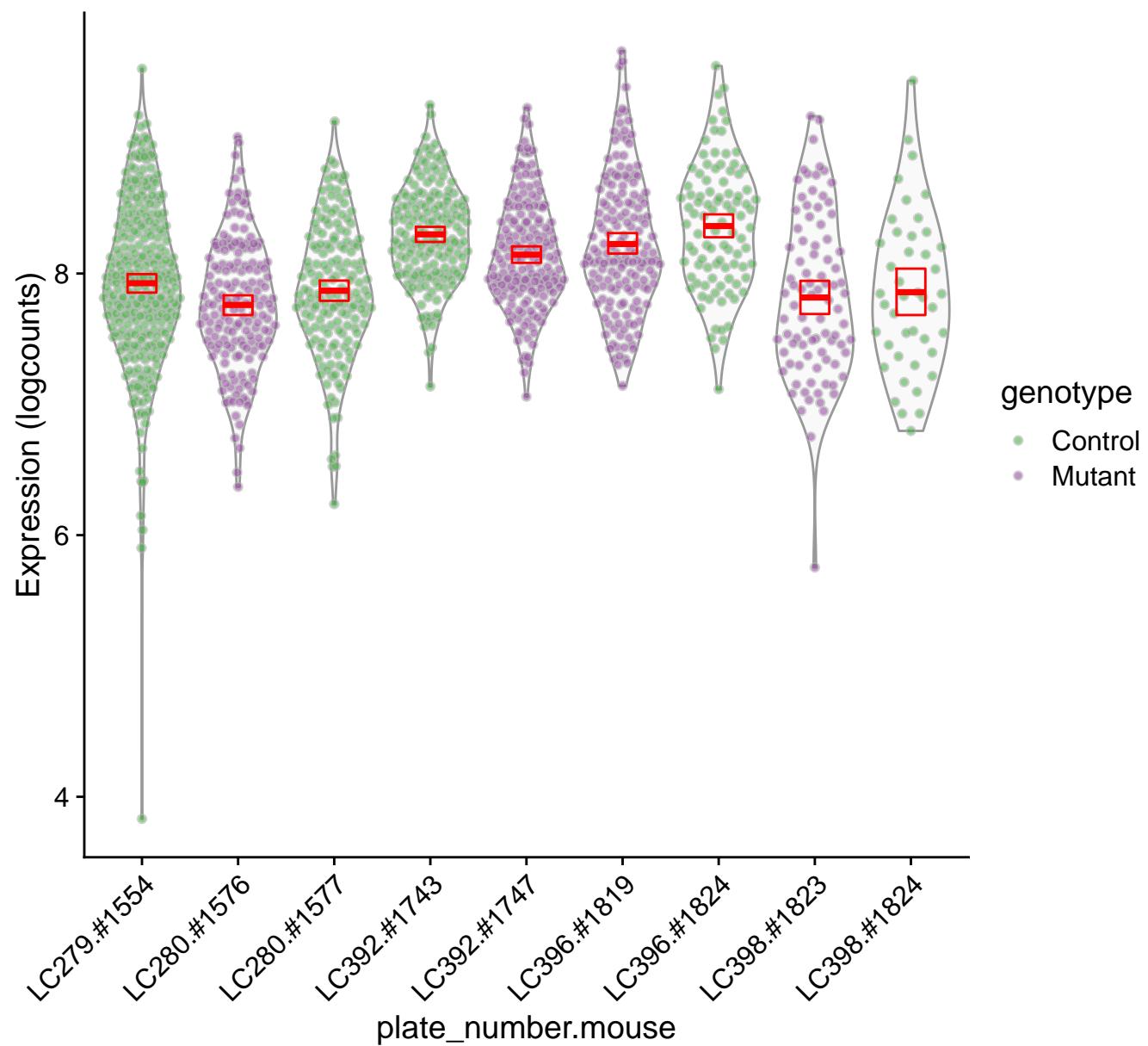
# Gja1 (FDR = 1e-04)

ignoring\_cluster\_labels



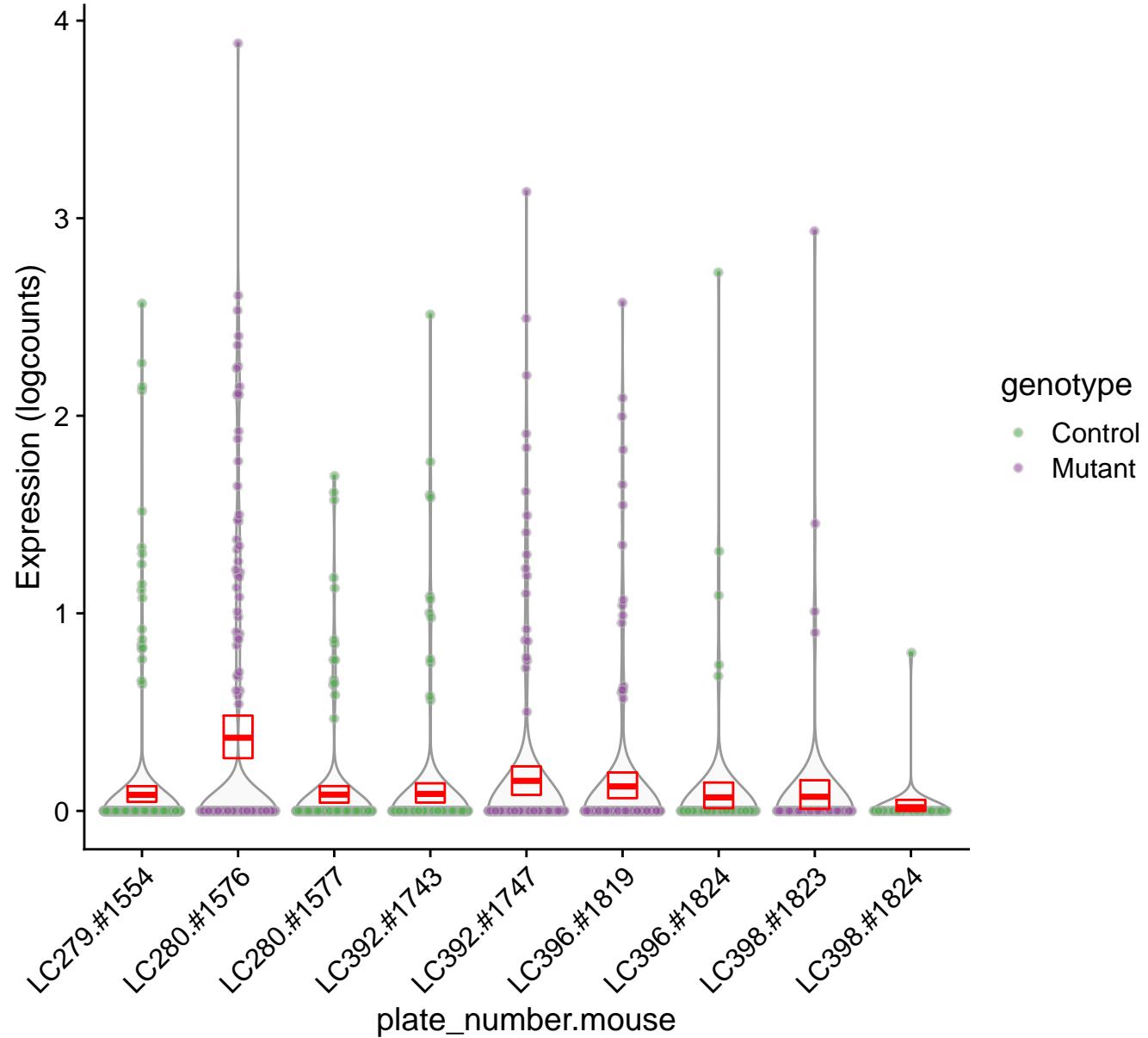
# mt-Rnr2 (FDR = 1e-04)

ignoring\_cluster\_labels



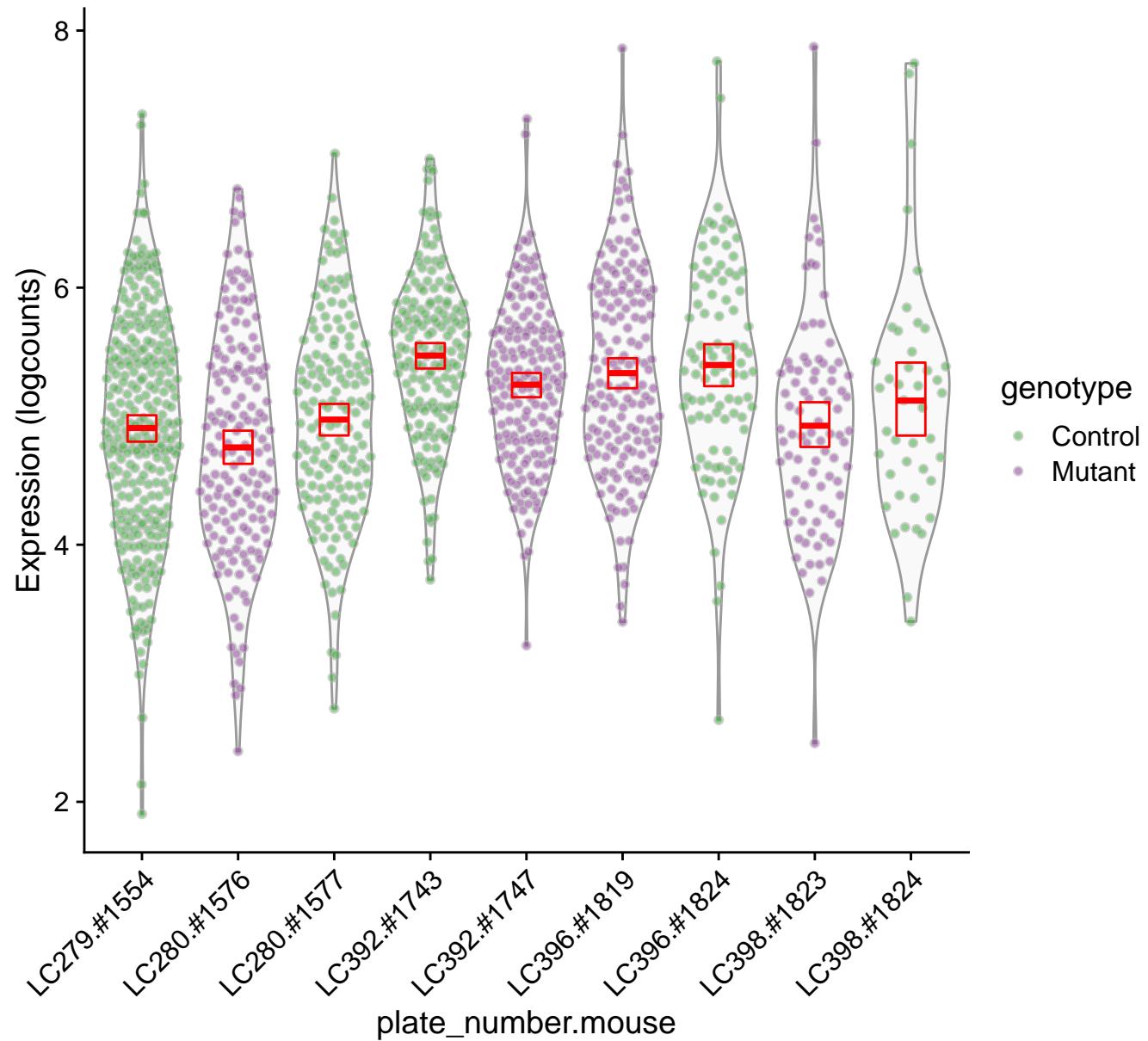
# Adam12 (FDR = 1e-04)

ignoring\_cluster\_labels



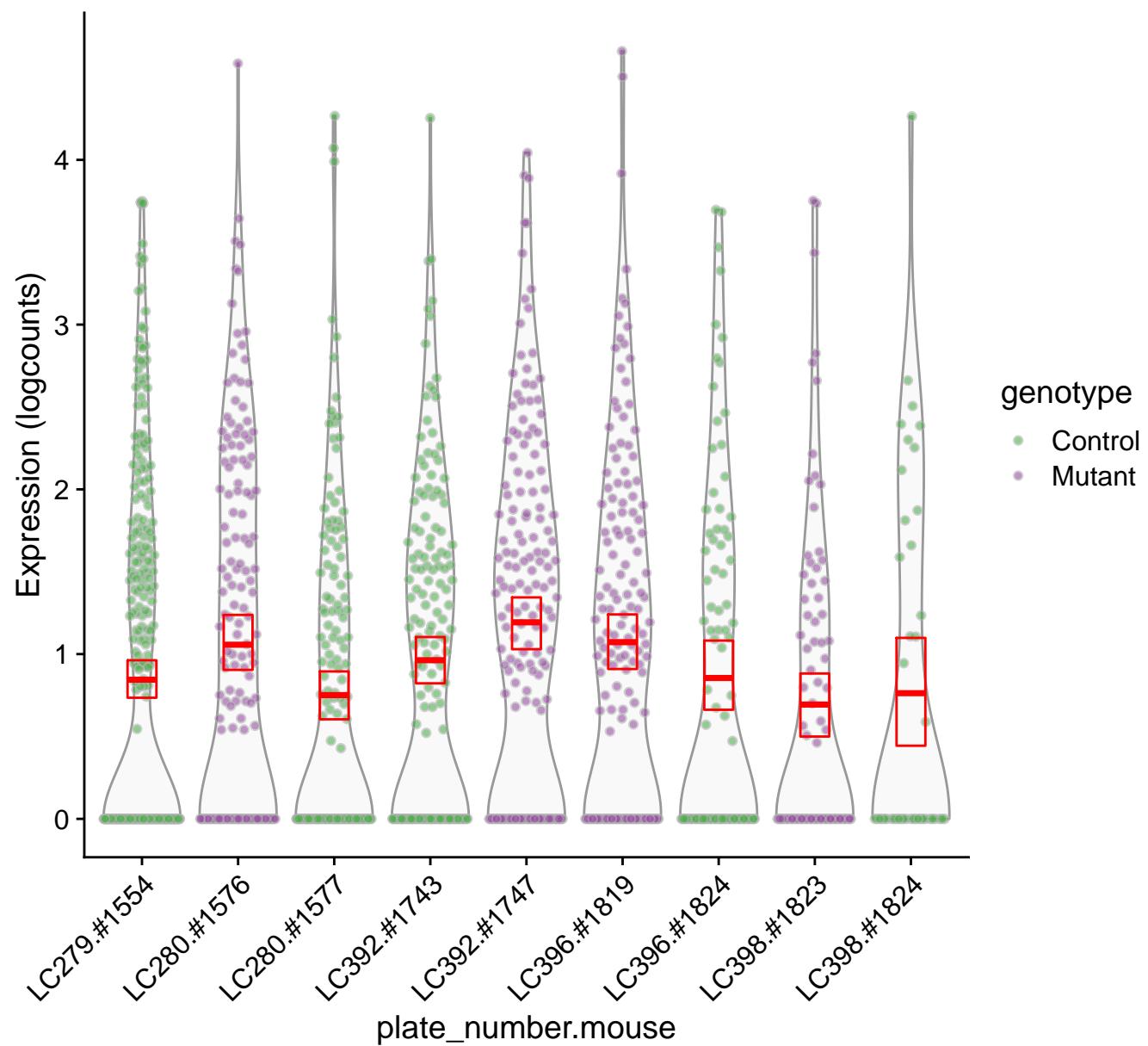
# mt-Rnr1 (FDR = 1e-04)

ignoring\_cluster\_labels



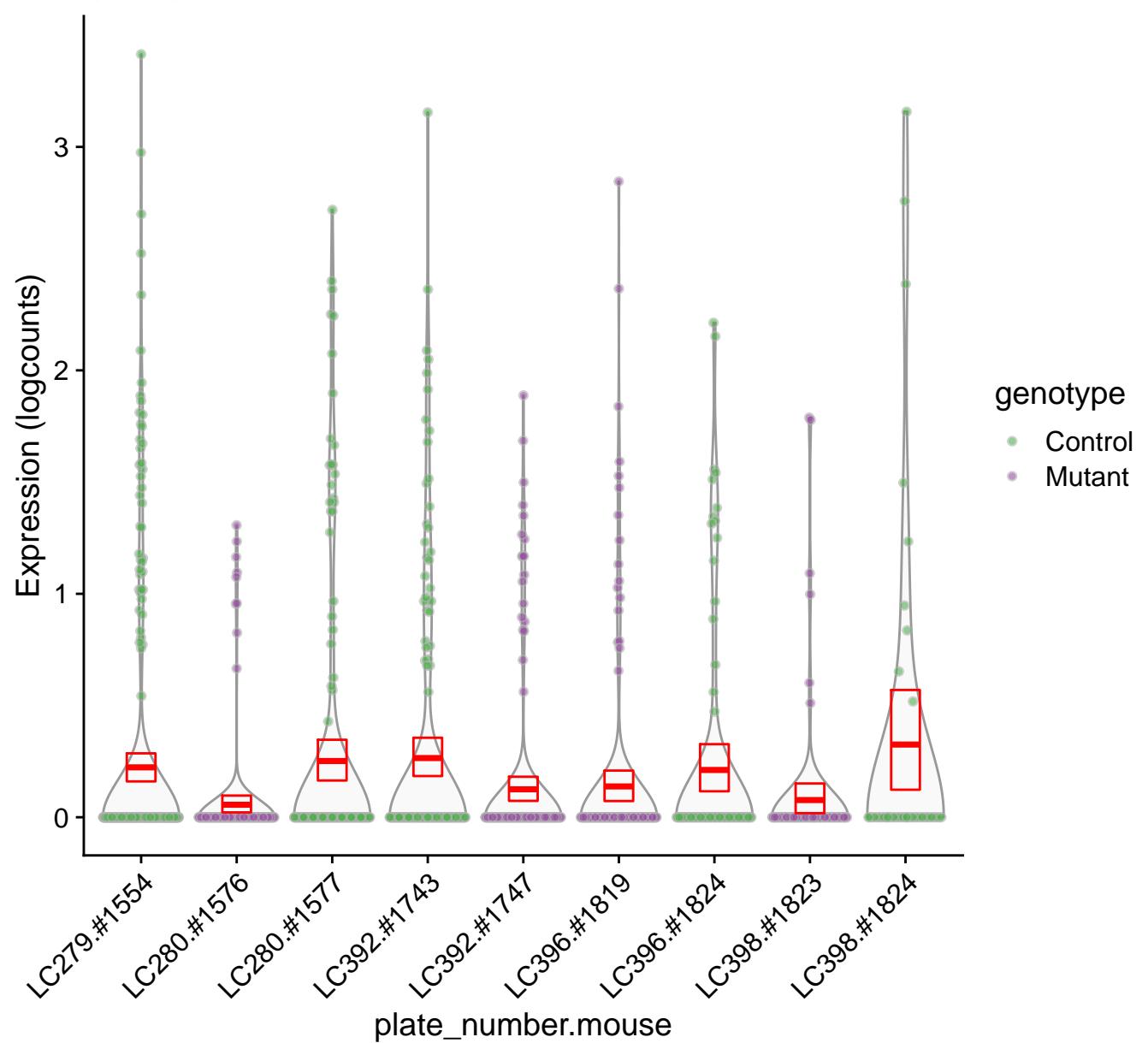
# Timp3 (FDR = 2e-04)

ignoring\_cluster\_labels



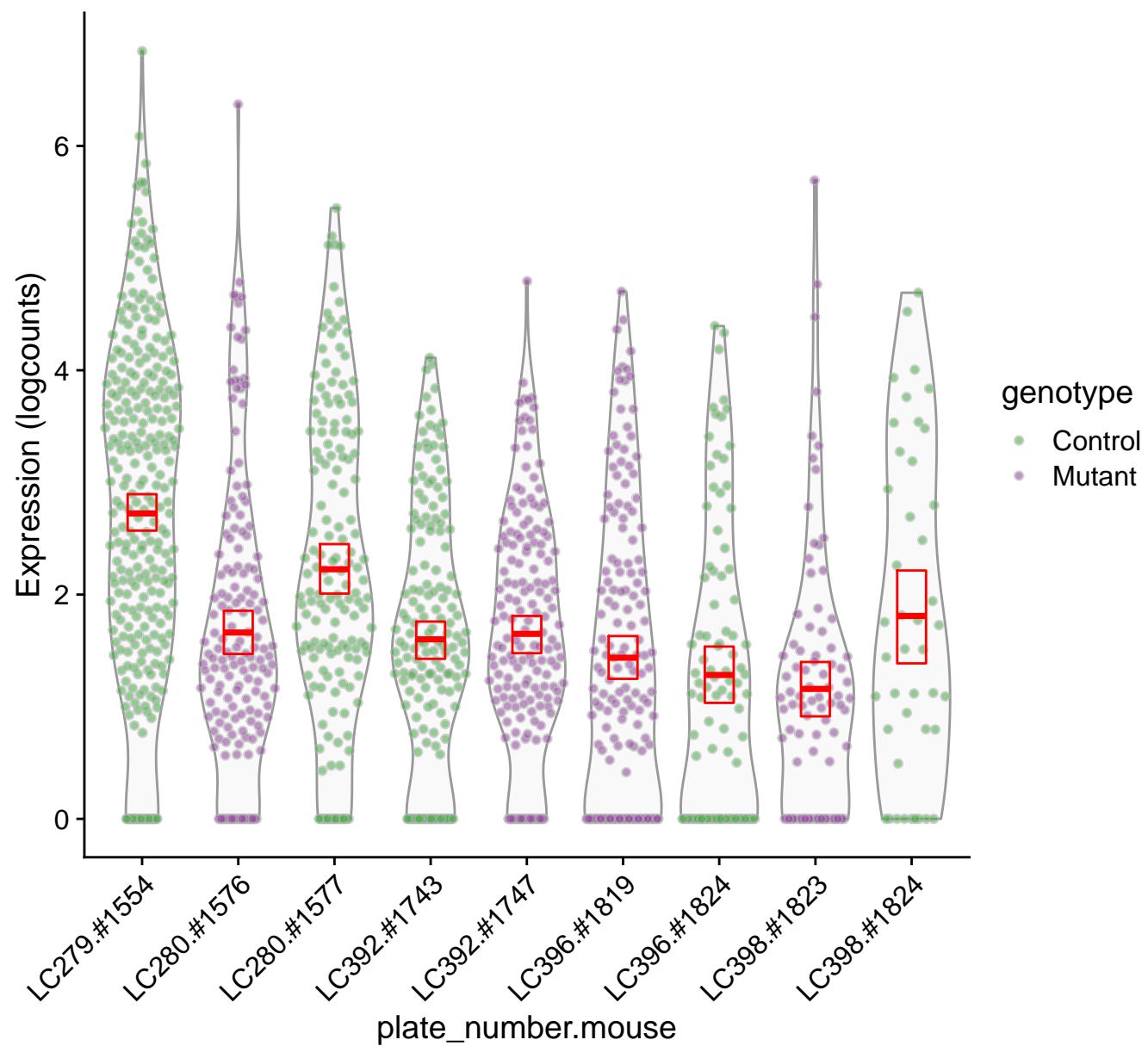
# Arap2 (FDR = 2e-04)

ignoring\_cluster\_labels



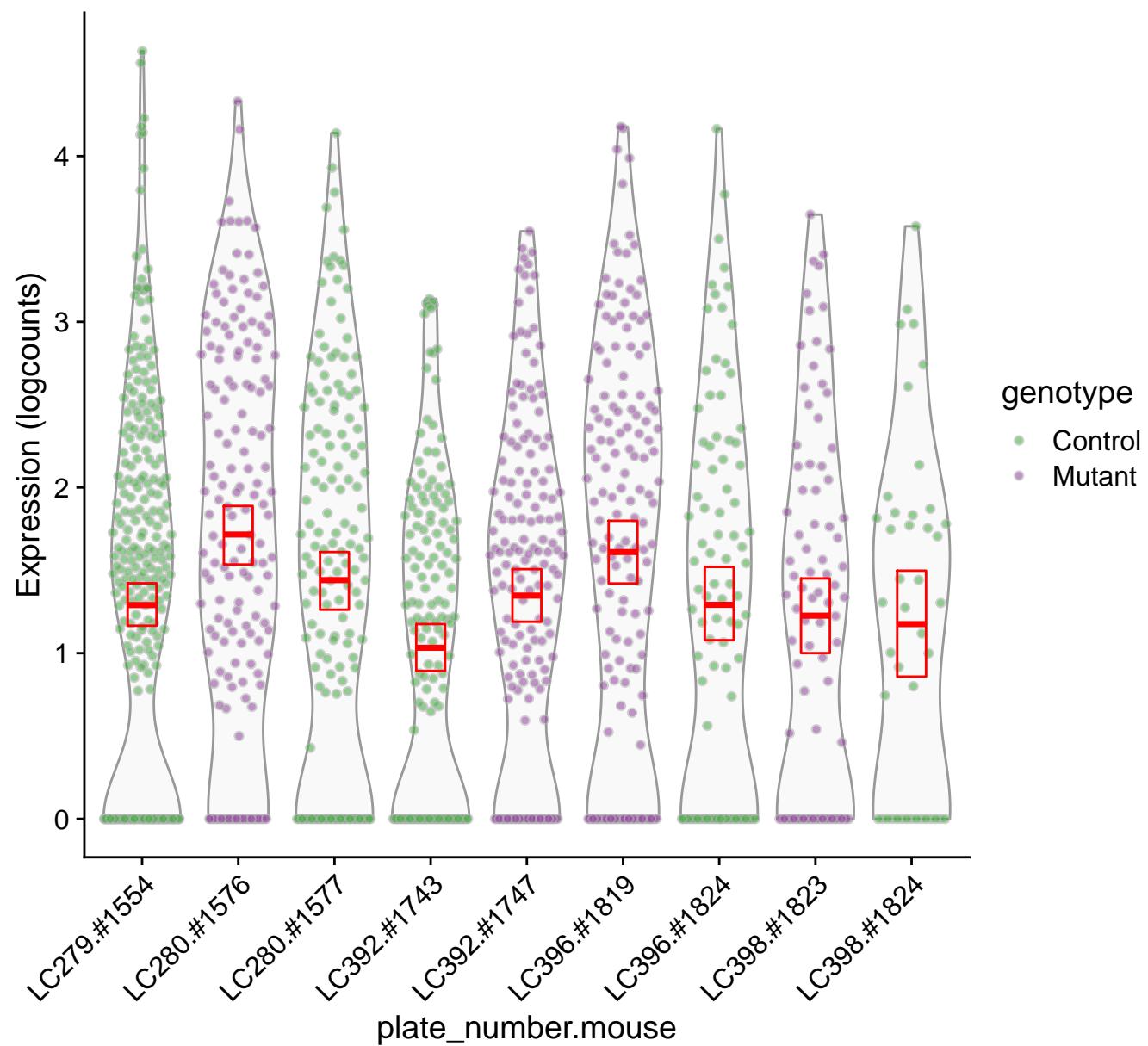
# Gm24270 (FDR = 2e-04)

ignoring\_cluster\_labels



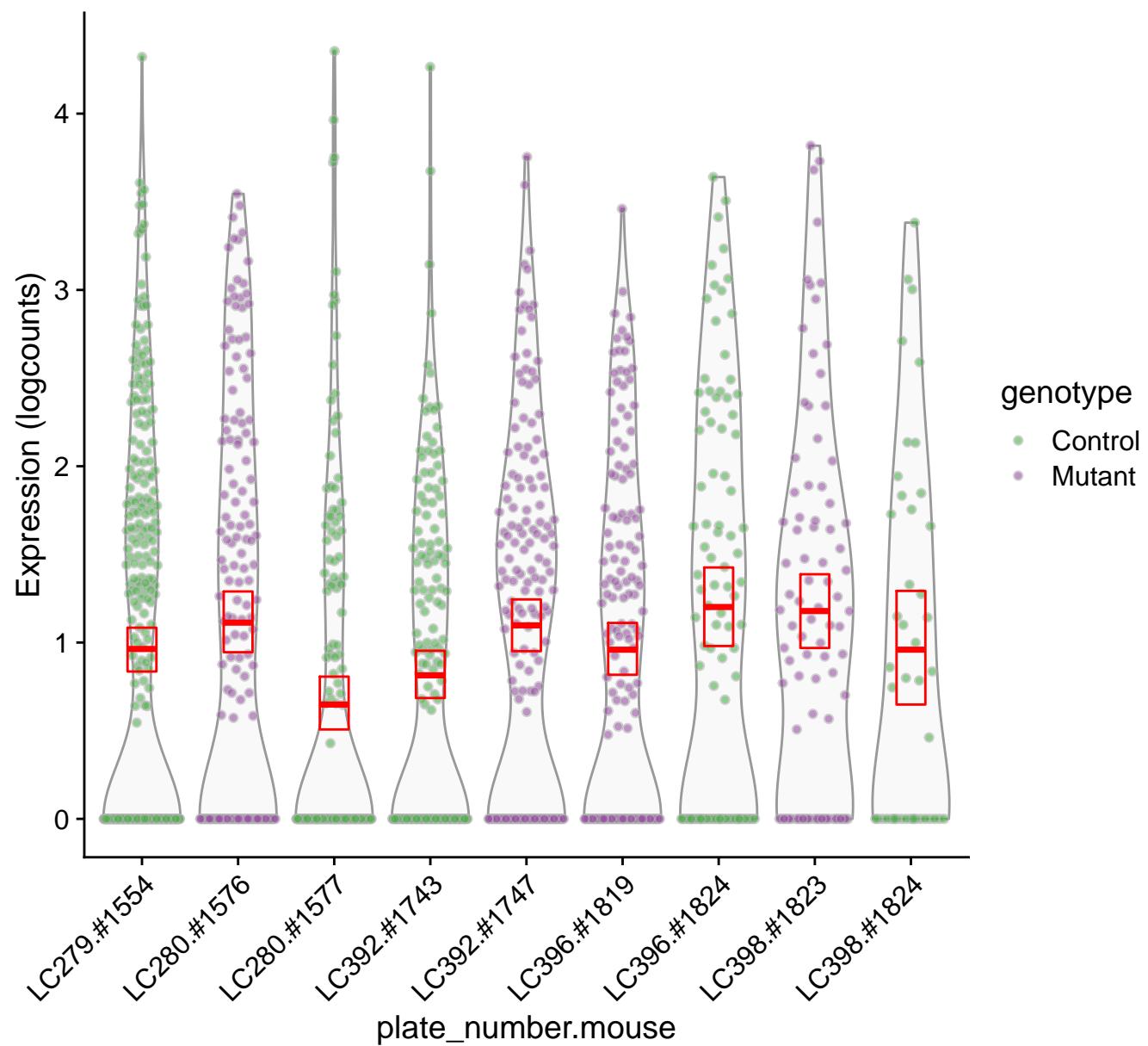
## Cav1 (FDR = 2e-04)

## ignoring\_cluster\_labels



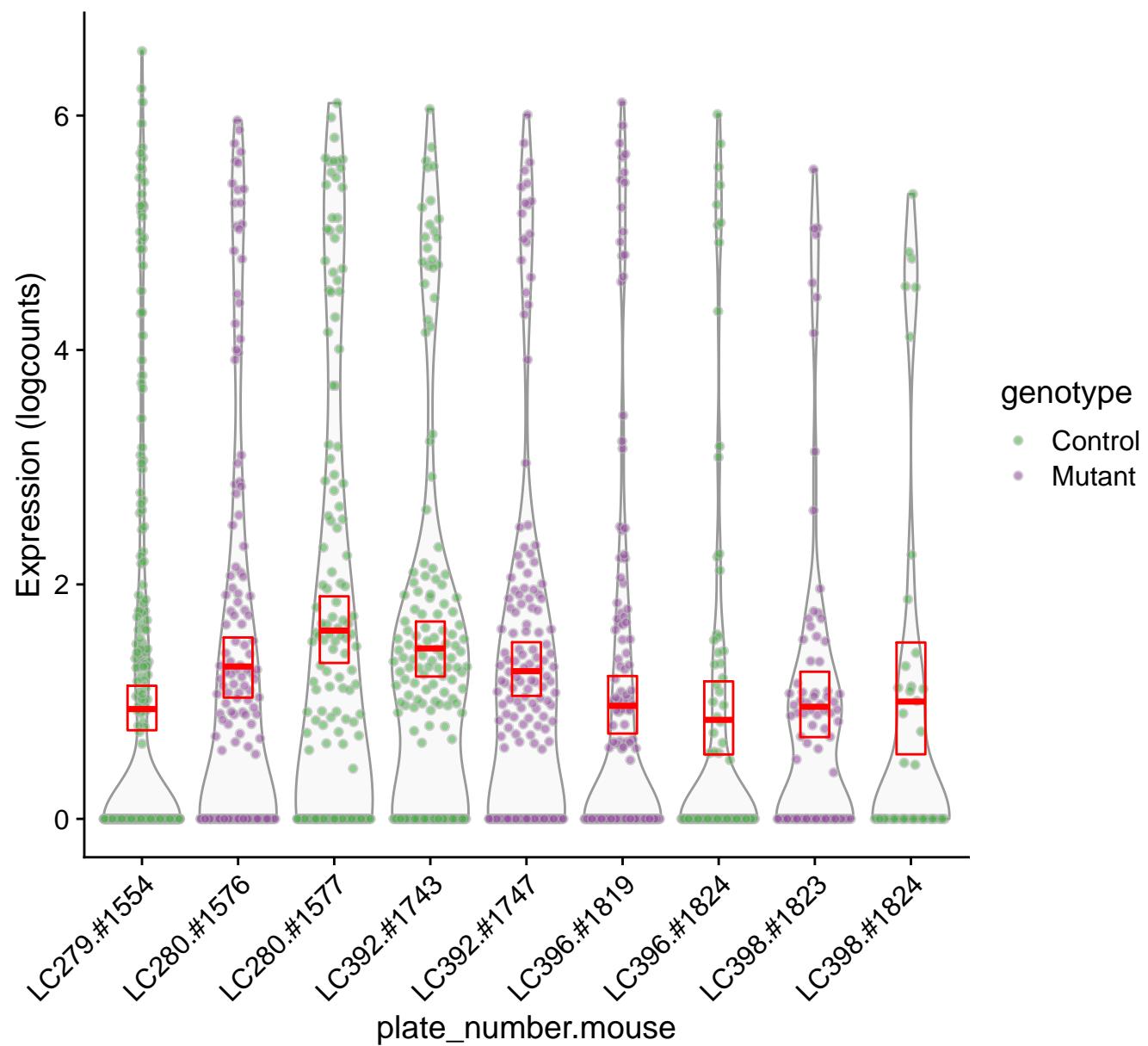
# Ets2 (FDR = 2e-04)

ignoring\_cluster\_labels



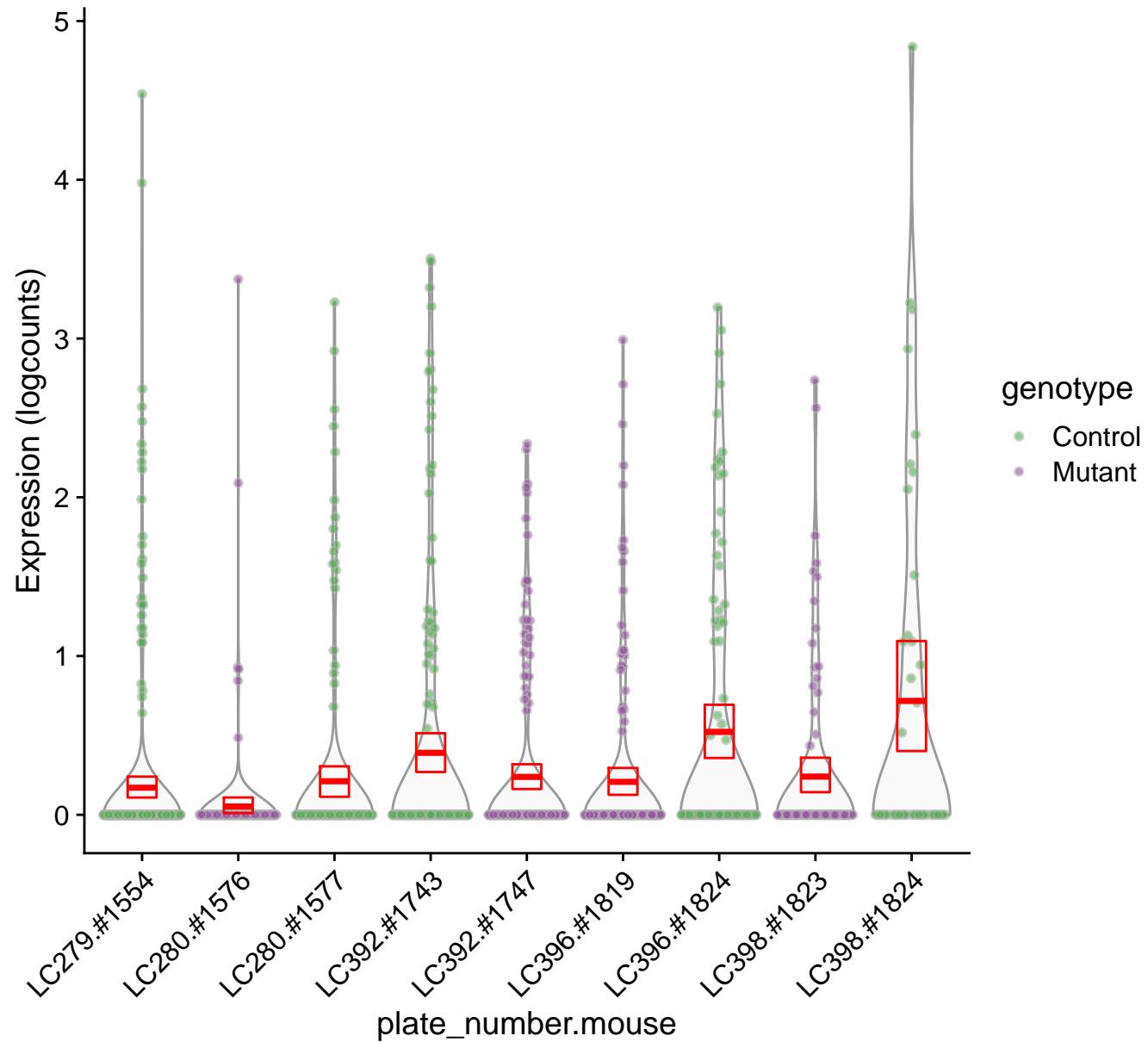
# Gm11336 (FDR = 2e-04)

ignoring\_cluster\_labels



## Apoe (FDR = 3e-04)

## ignoring\_cluster\_labels



# Hist1h2aj (FDR = 3e-04)

ignoring\_cluster\_labels

Expression (logcounts)

6

4

2

0

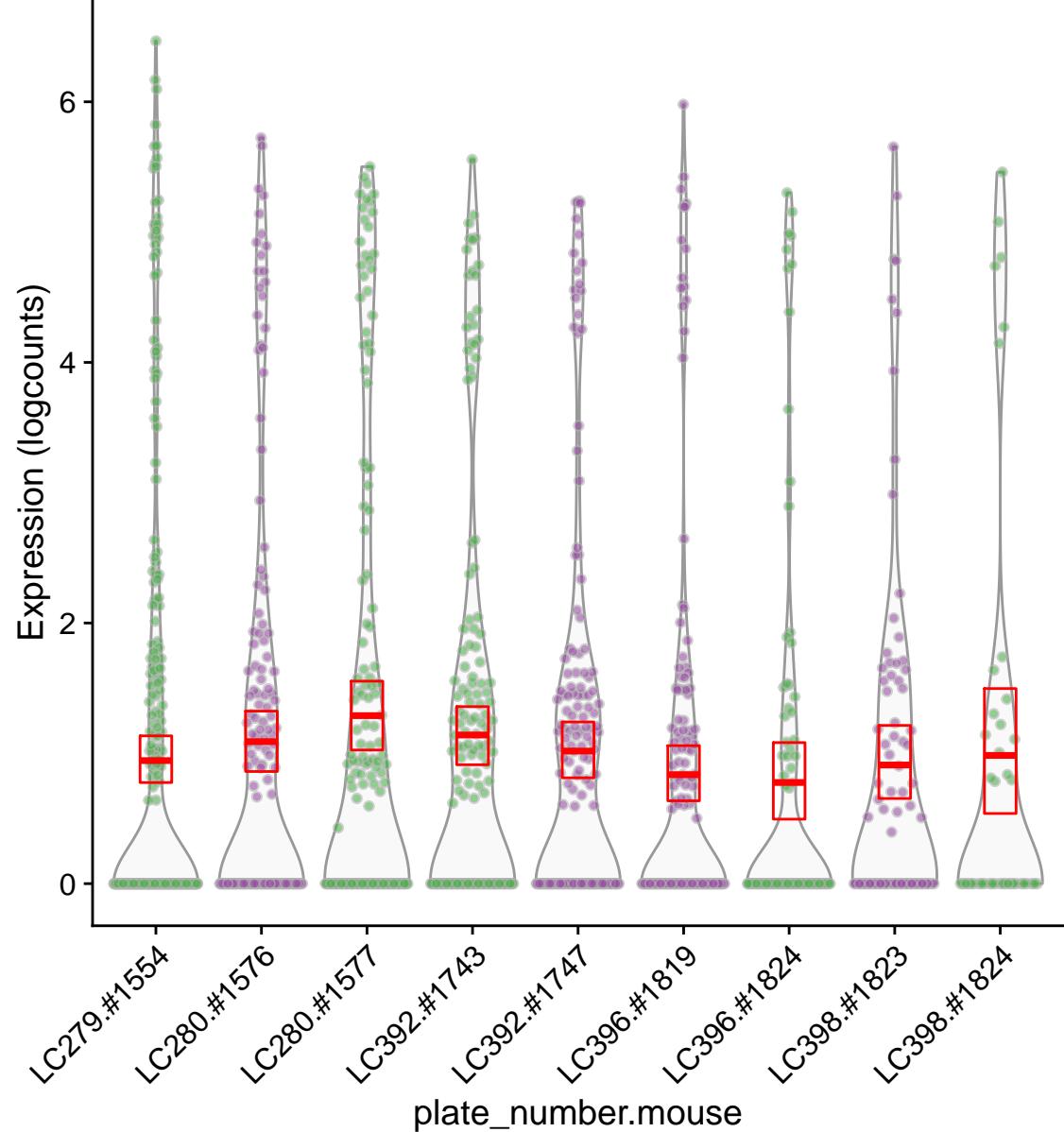
genotype

Control

Mutant

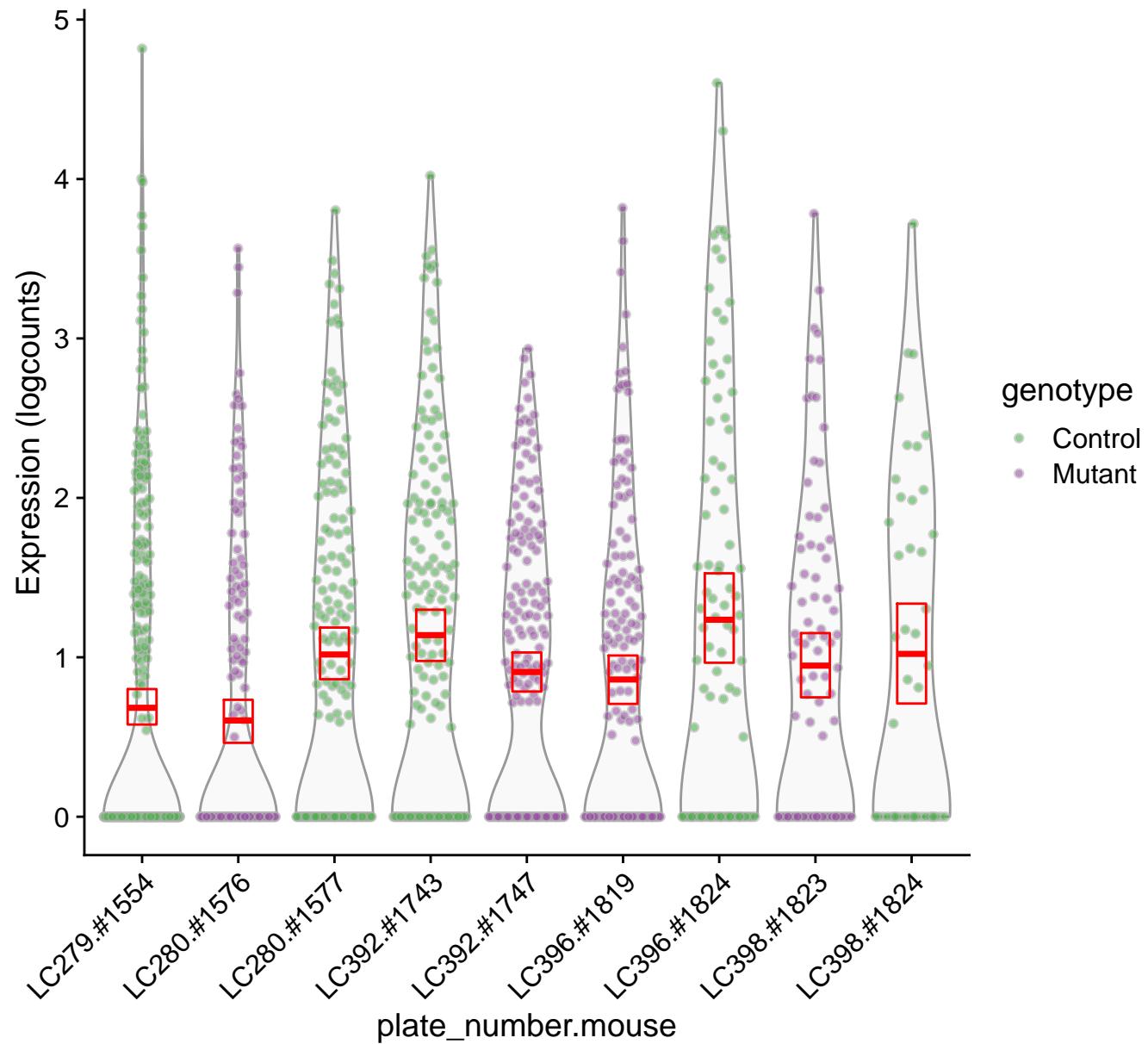
\C279\#1554 \C280\#1576 \C280\#1577 \C392\#1743 \C392\#1747 \C396\#1819 \C396\#1824 \C398\#1823 \C398\#1824

plate\_number.mouse



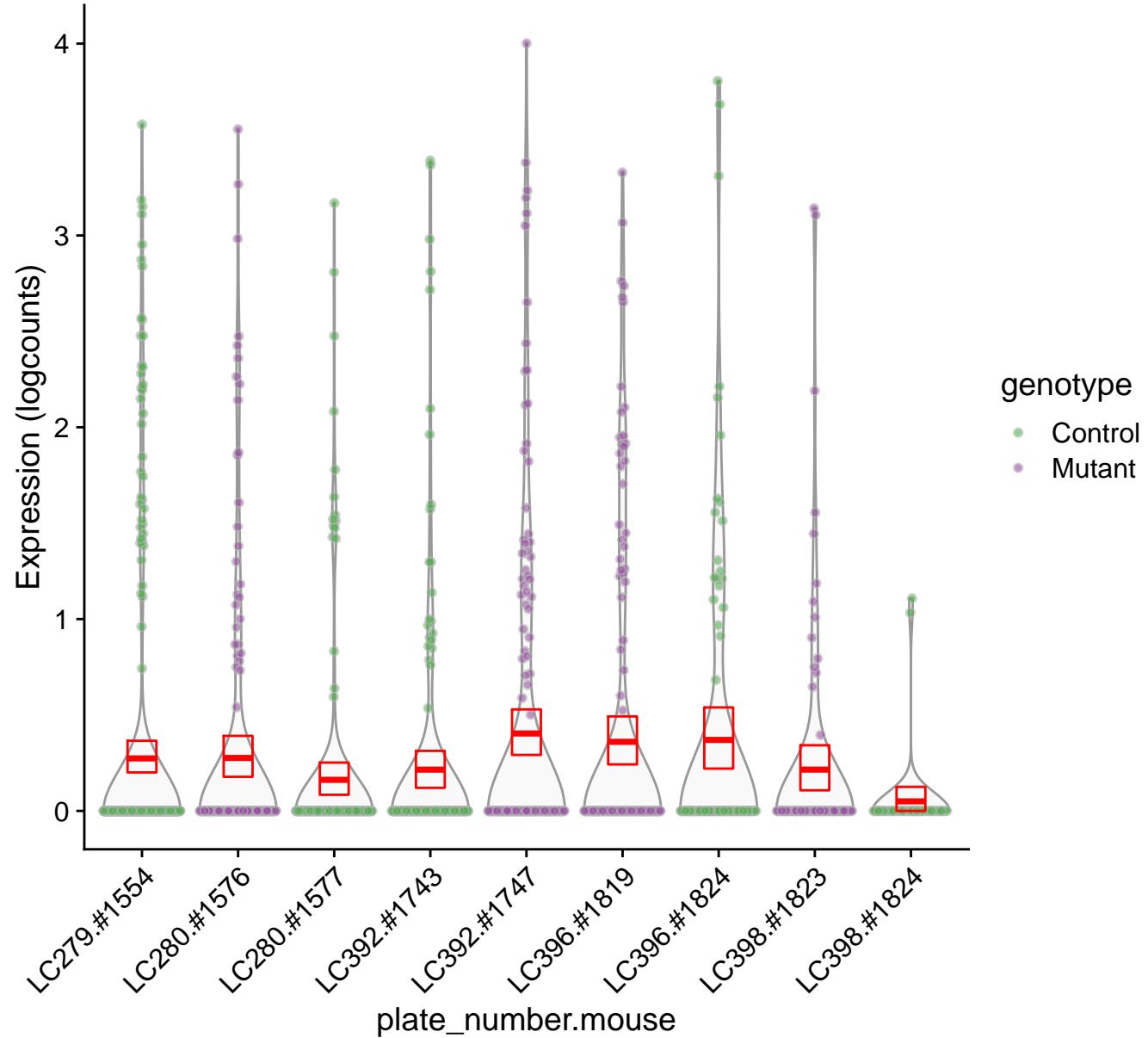
# Zic3 (FDR = 3e-04)

ignoring\_cluster\_labels



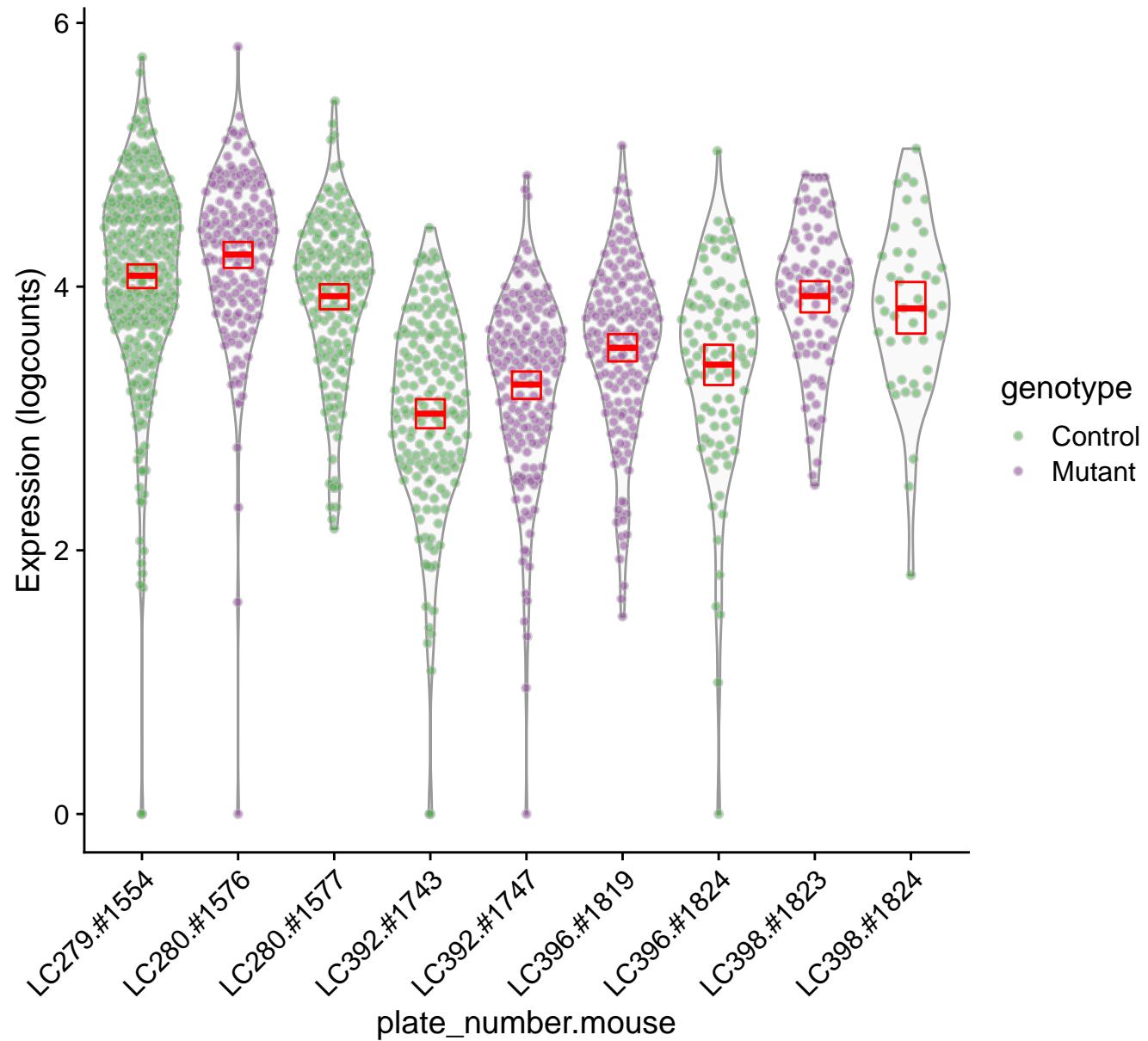
# Hey1 (FDR = 3e-04)

ignoring\_cluster\_labels



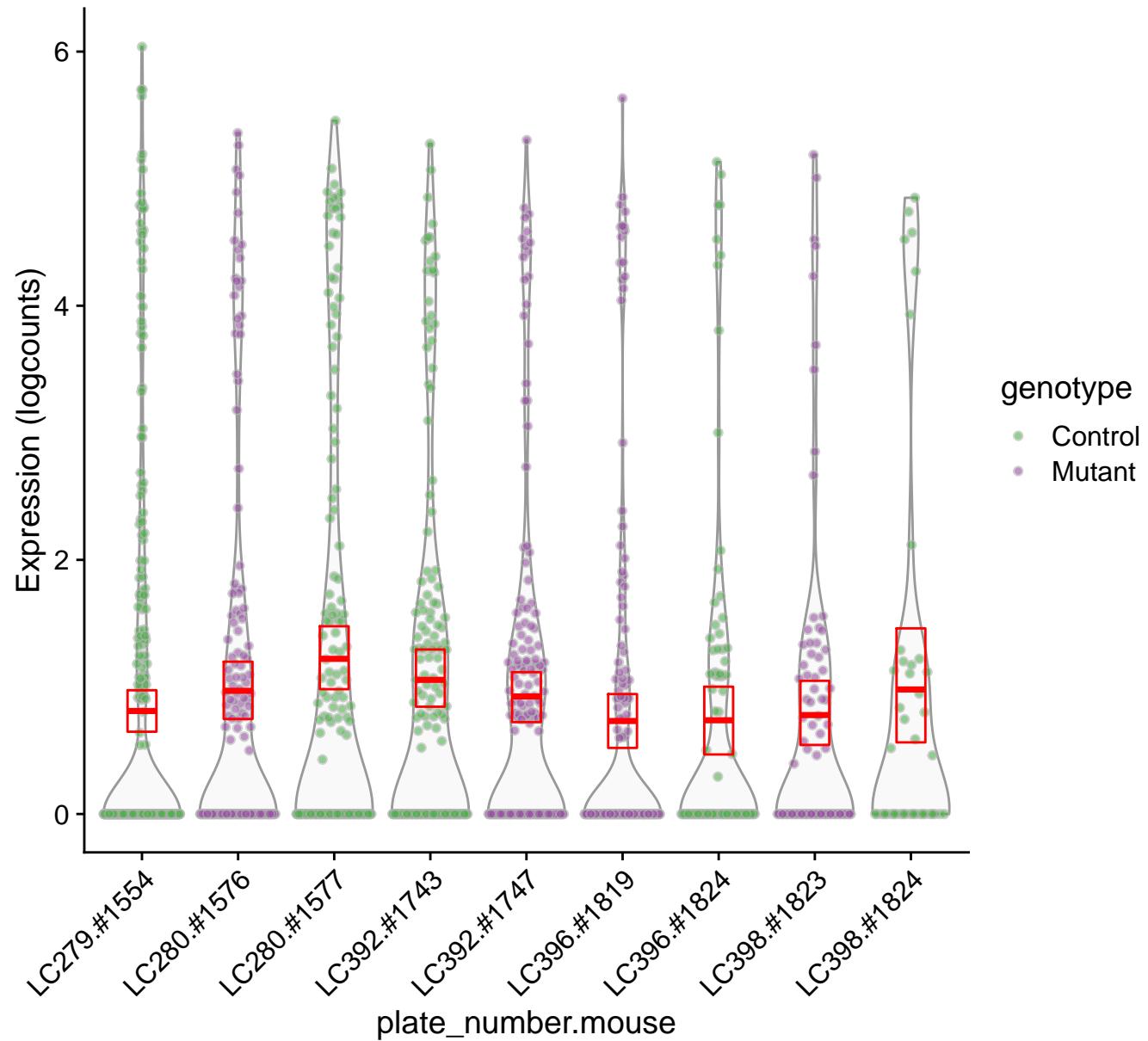
# Lrrc58 (FDR = 4e-04)

ignoring\_cluster\_labels



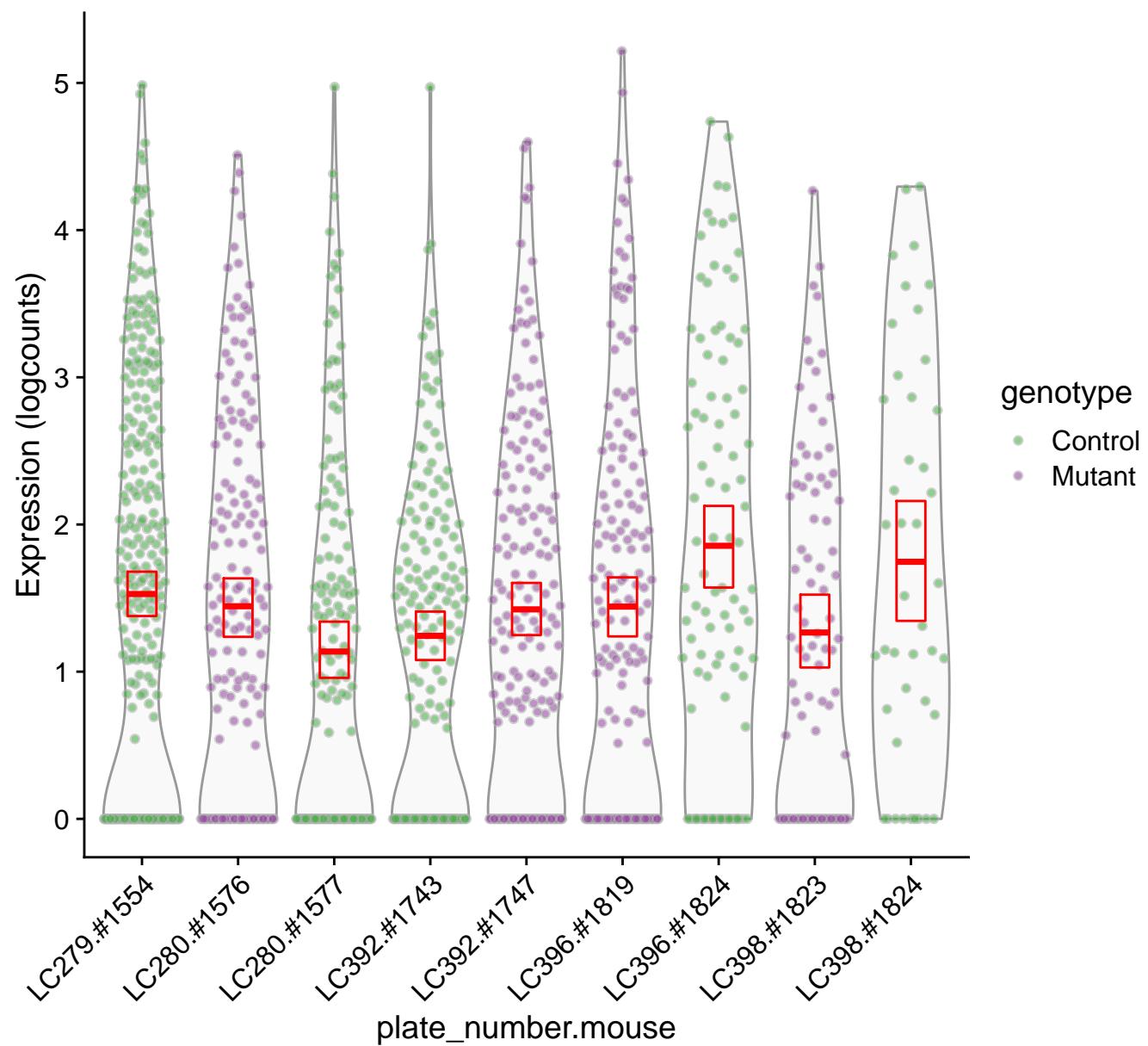
# Hist1h2ac (FDR = 5e-04)

ignoring\_cluster\_labels



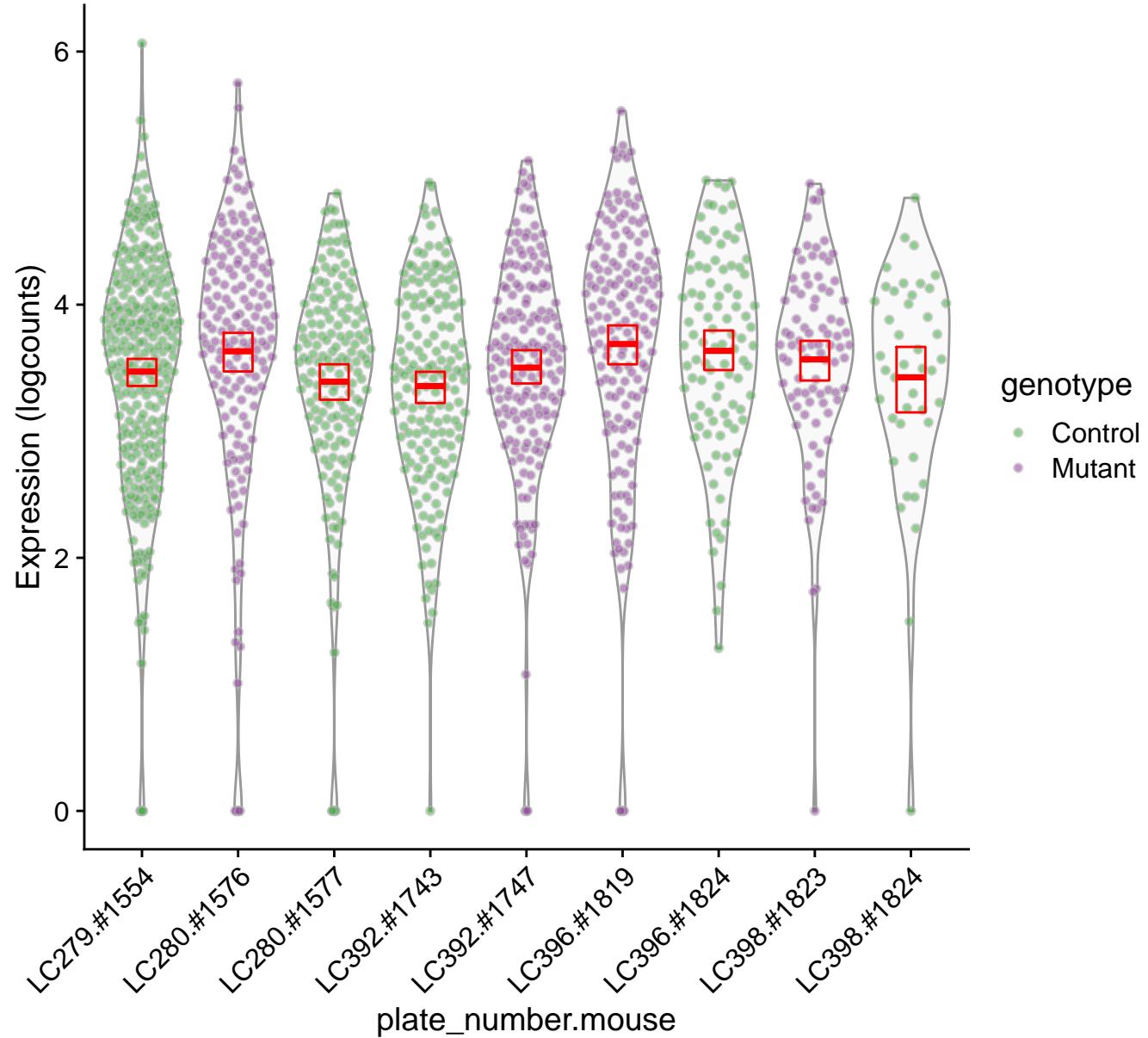
# Vwf (FDR = 5e-04)

ignoring\_cluster\_labels



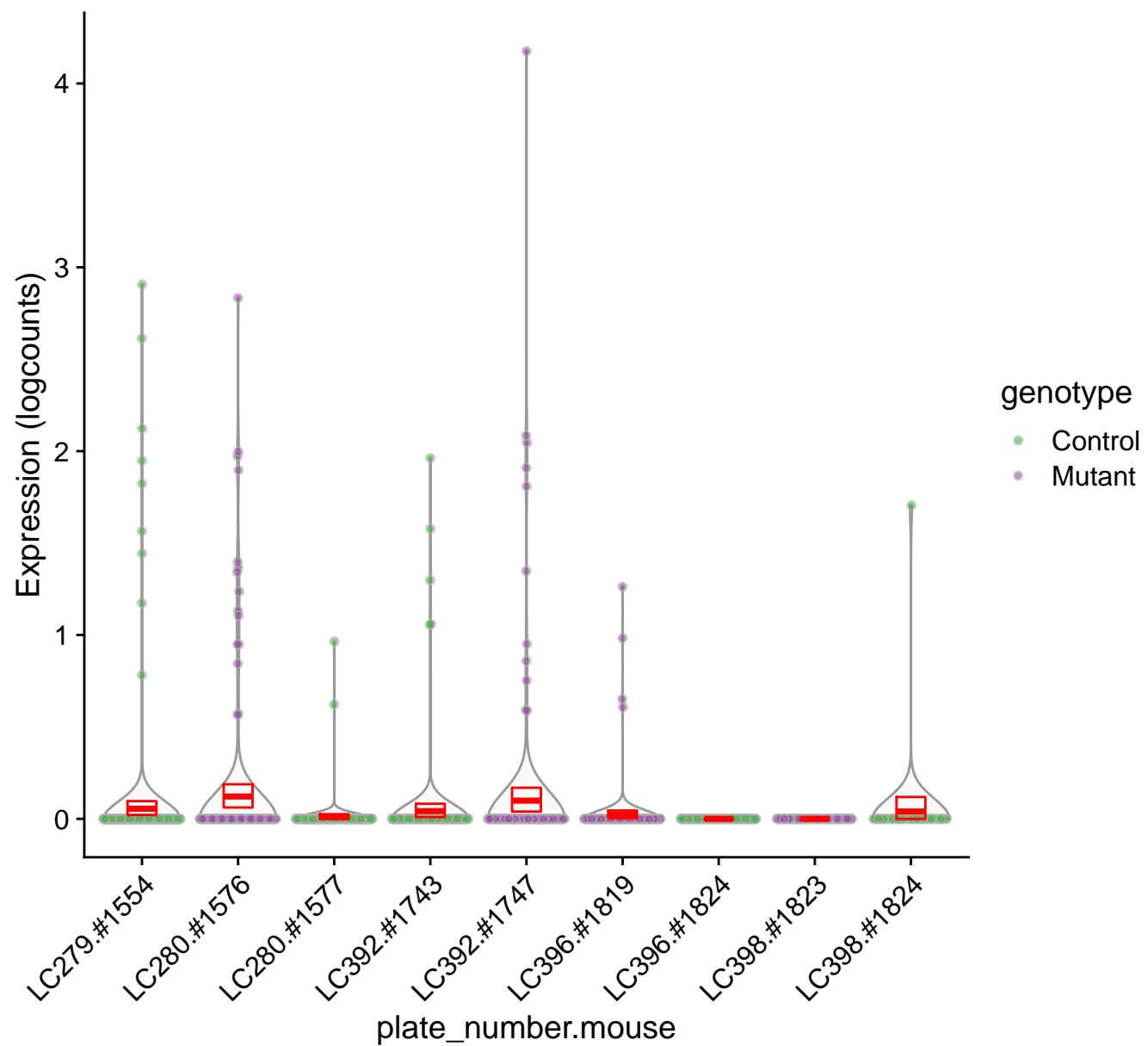
# Serpinh1 (FDR = 6e-04)

ignoring\_cluster\_labels



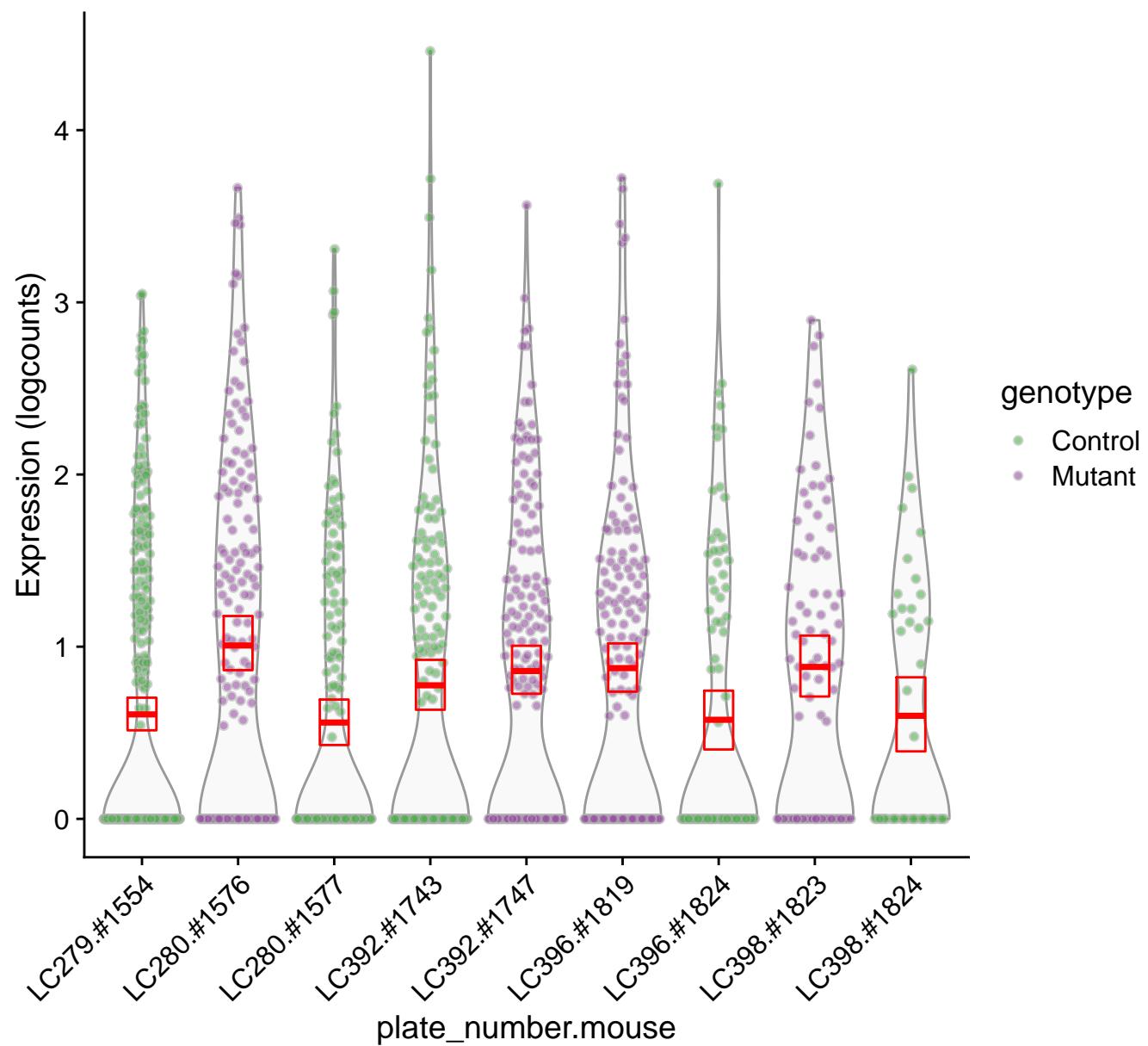
# Ch25h (FDR = 7e-04)

ignoring\_cluster\_labels



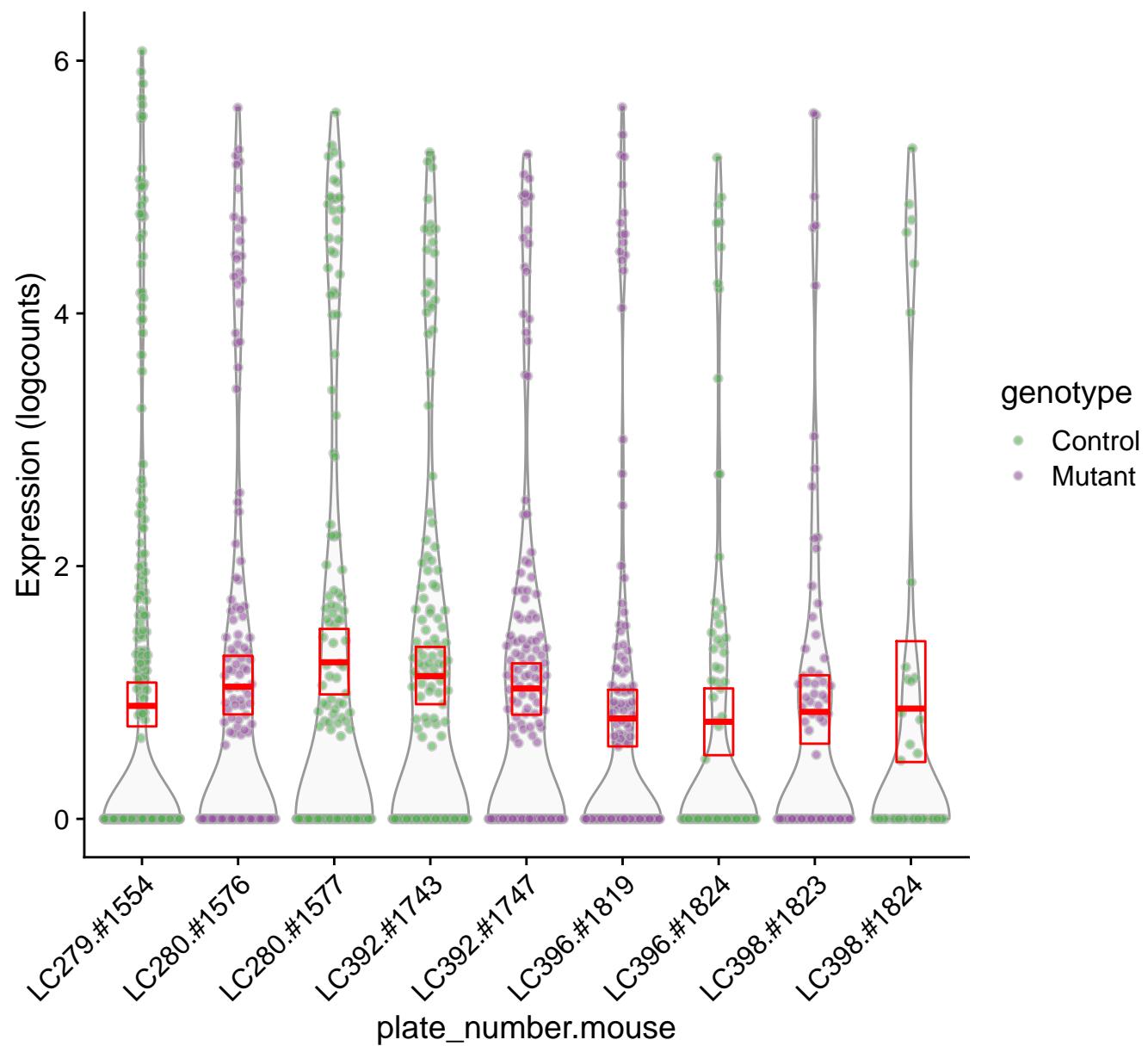
# Tspo (FDR = 7e-04)

ignoring\_cluster\_labels



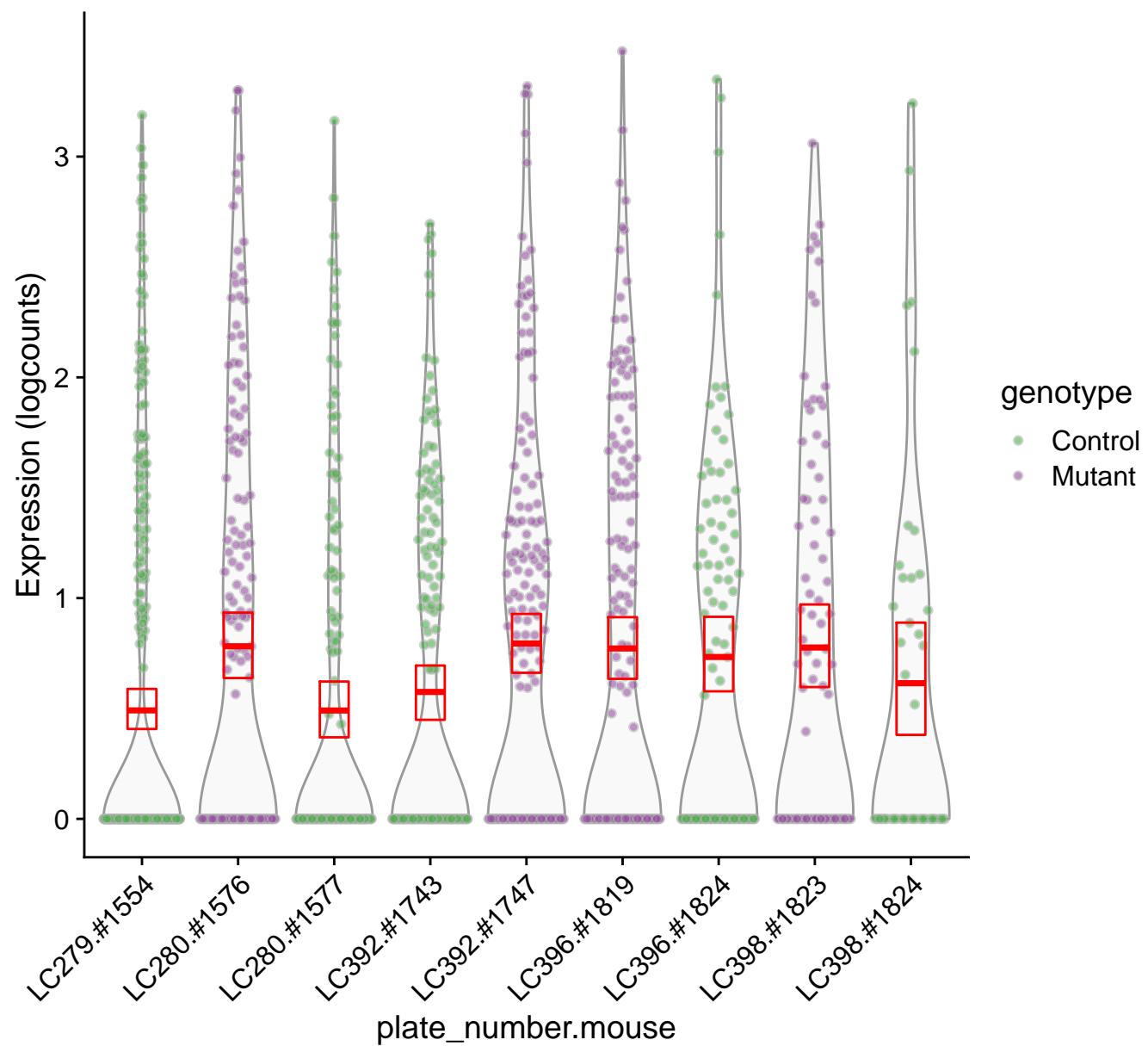
# Hist1h2an (FDR = 8e-04)

ignoring\_cluster\_labels



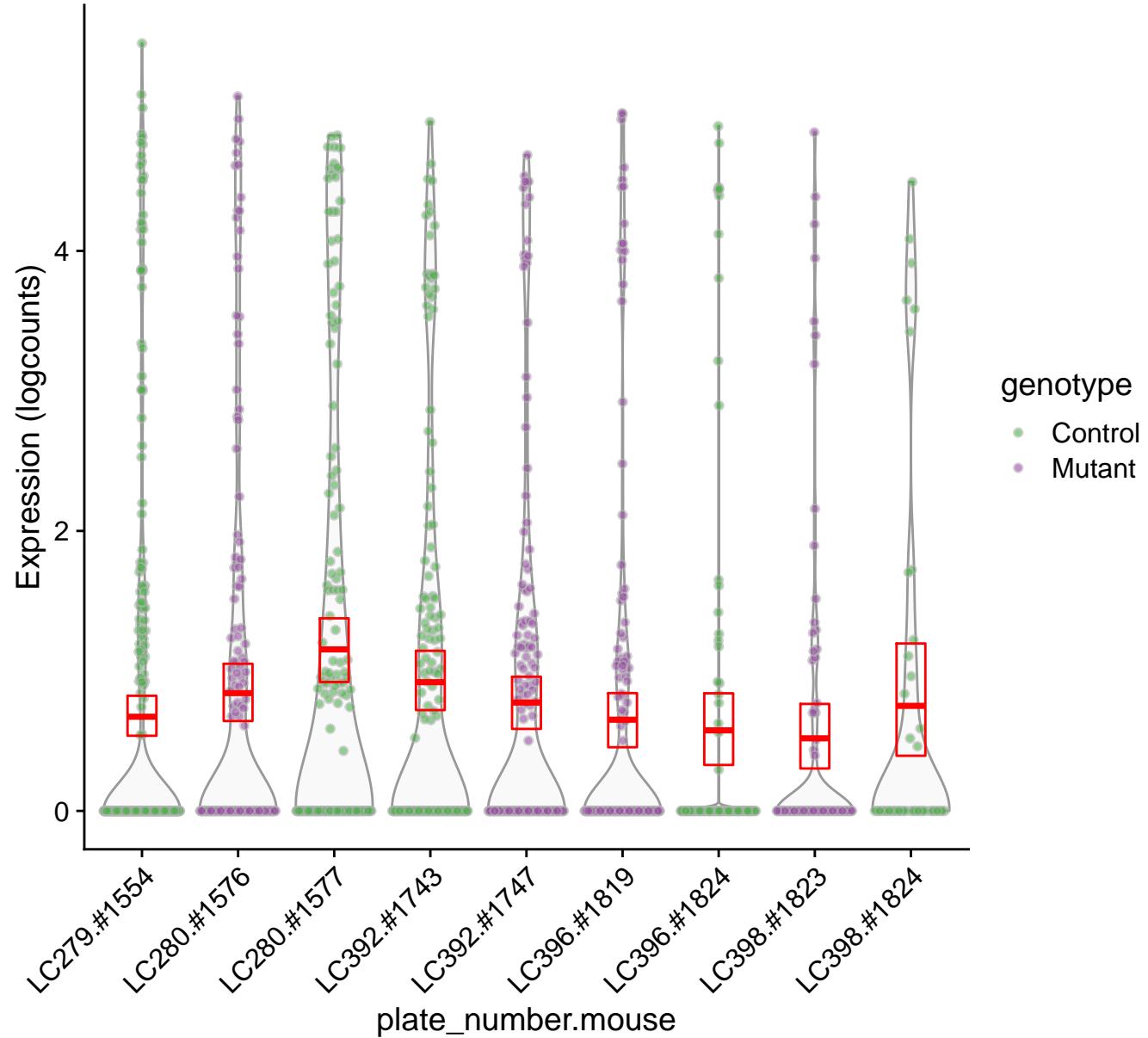
# Lix1I (FDR = 8e-04)

ignoring\_cluster\_labels



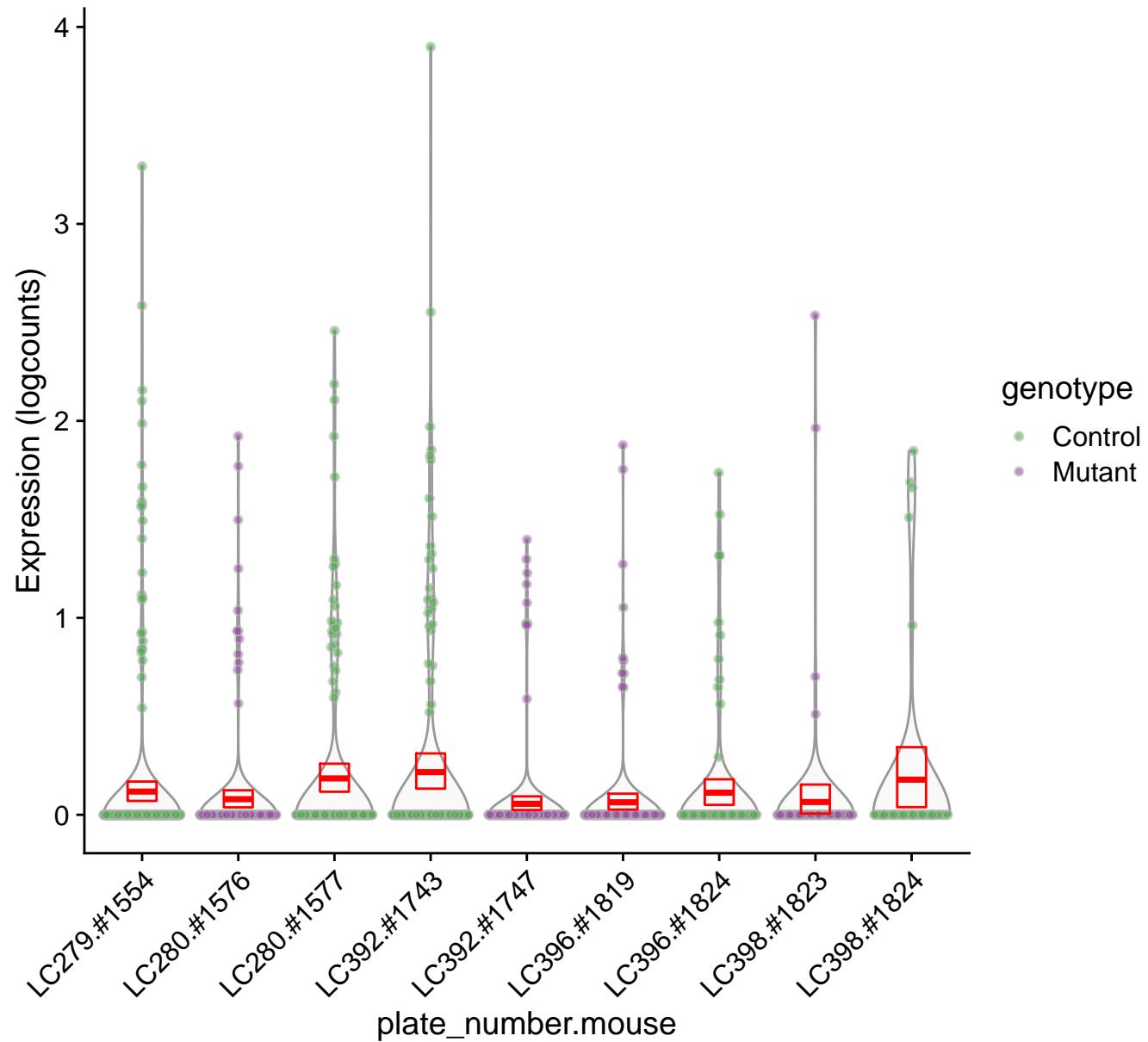
# Hist1h2ak (FDR = 8e-04)

ignoring\_cluster\_labels



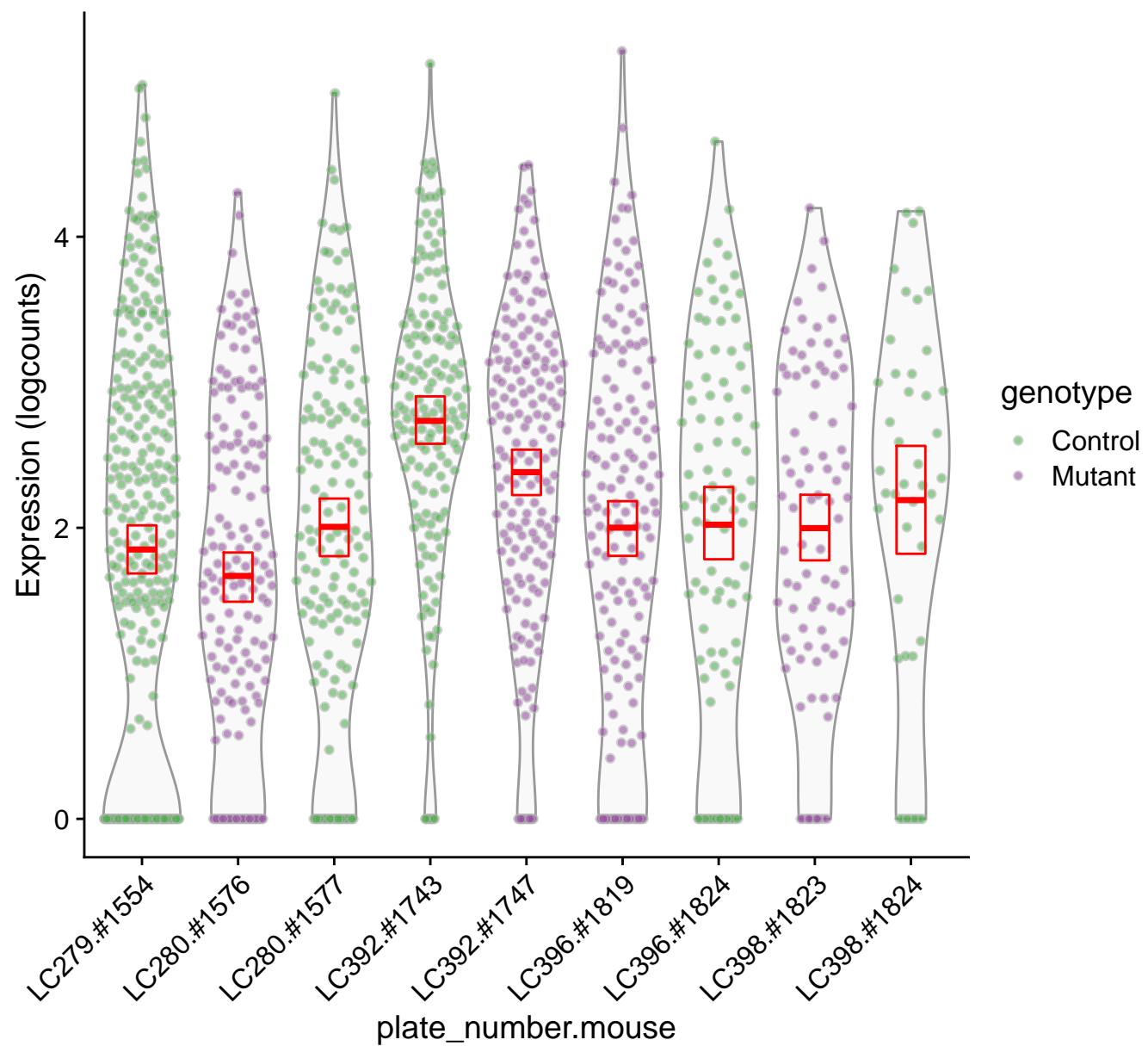
# Nipsnap1 (FDR = 8e-04)

ignoring\_cluster\_labels



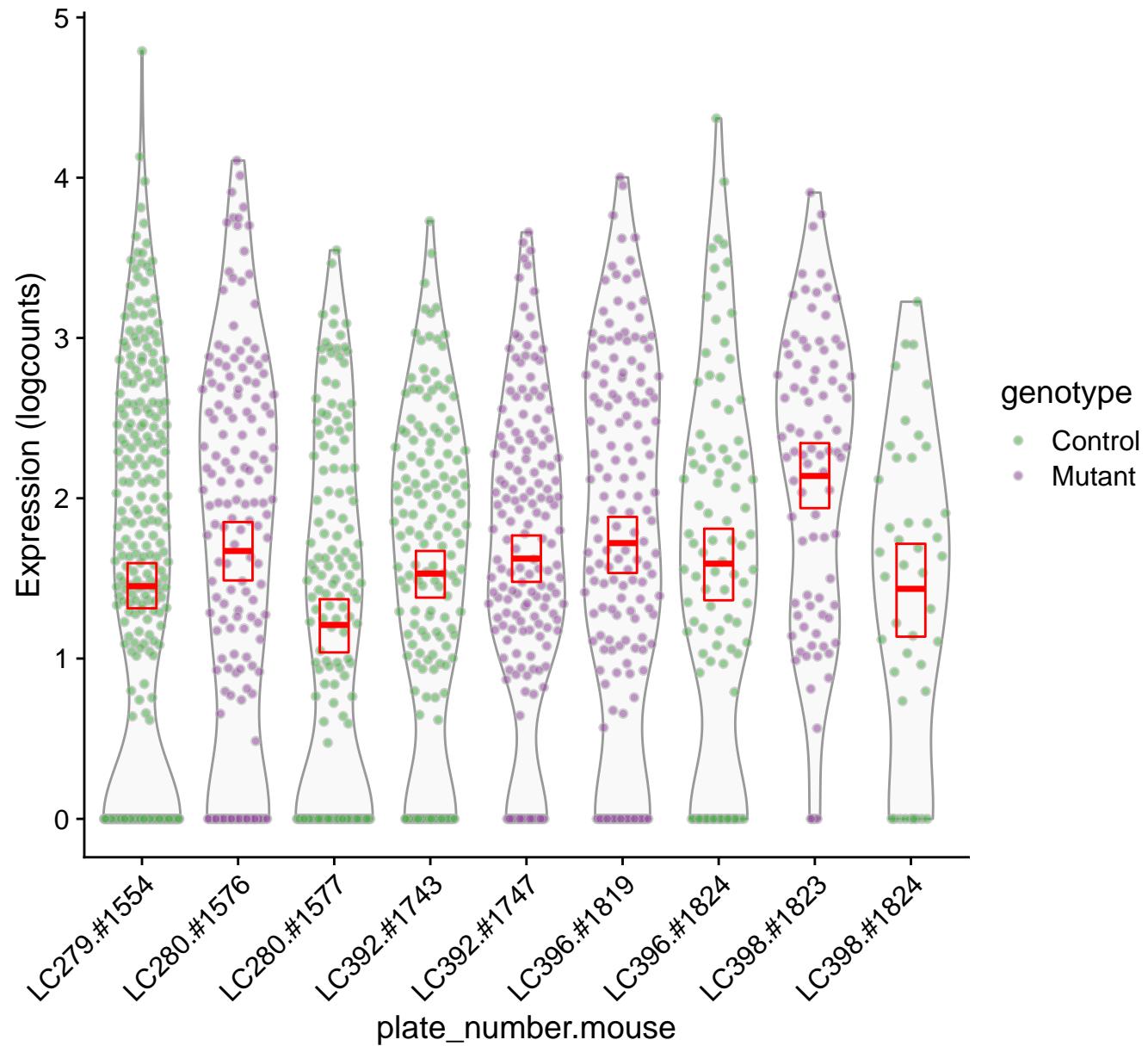
# Mfsd2a (FDR = 8e-04)

ignoring\_cluster\_labels



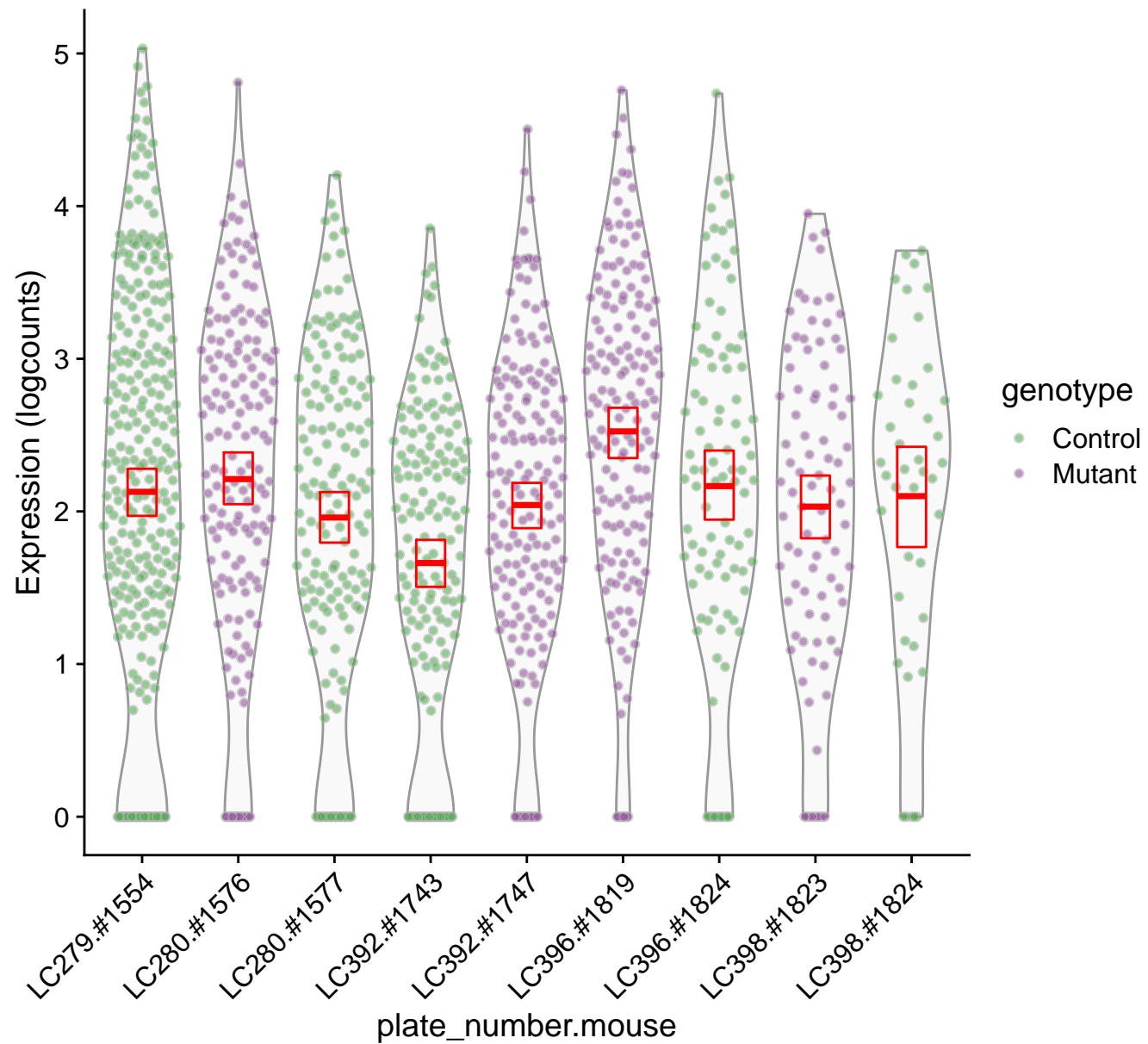
# Emcn (FDR = 9e-04)

ignoring\_cluster\_labels



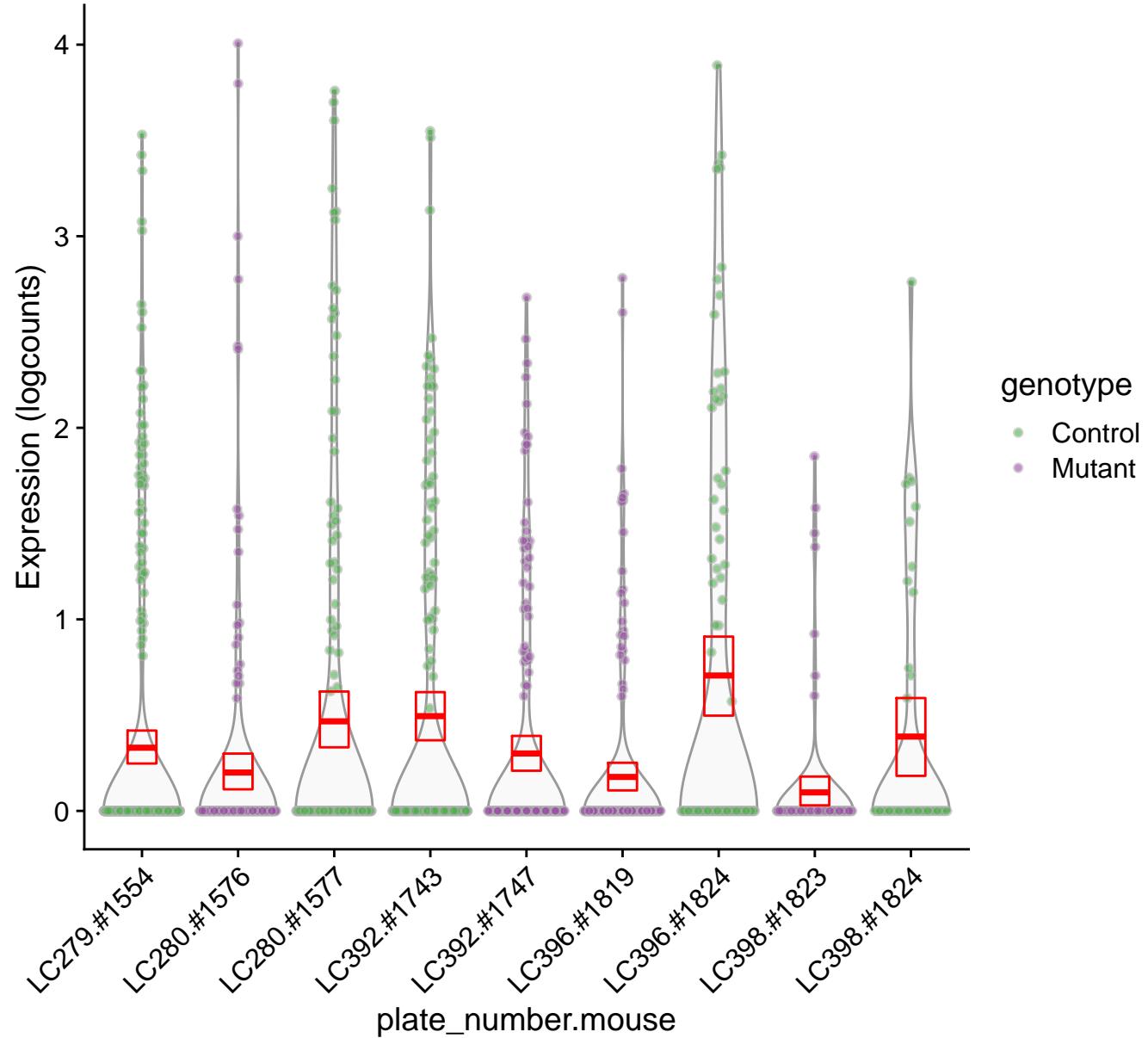
# Hspg2 (FDR = 0.001)

ignoring\_cluster\_labels



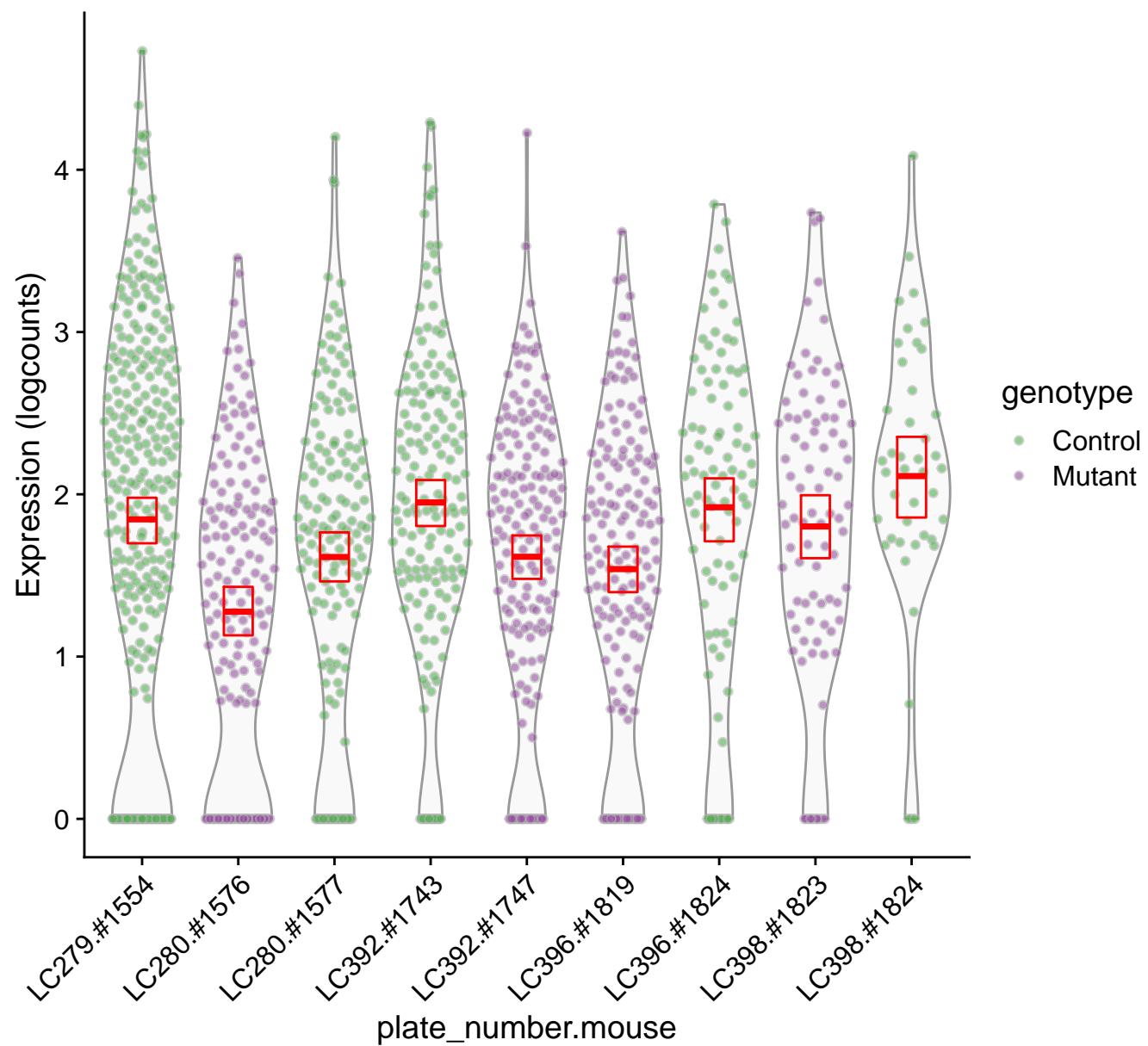
# Hmgcs2 (FDR = 0.001)

ignoring\_cluster\_labels



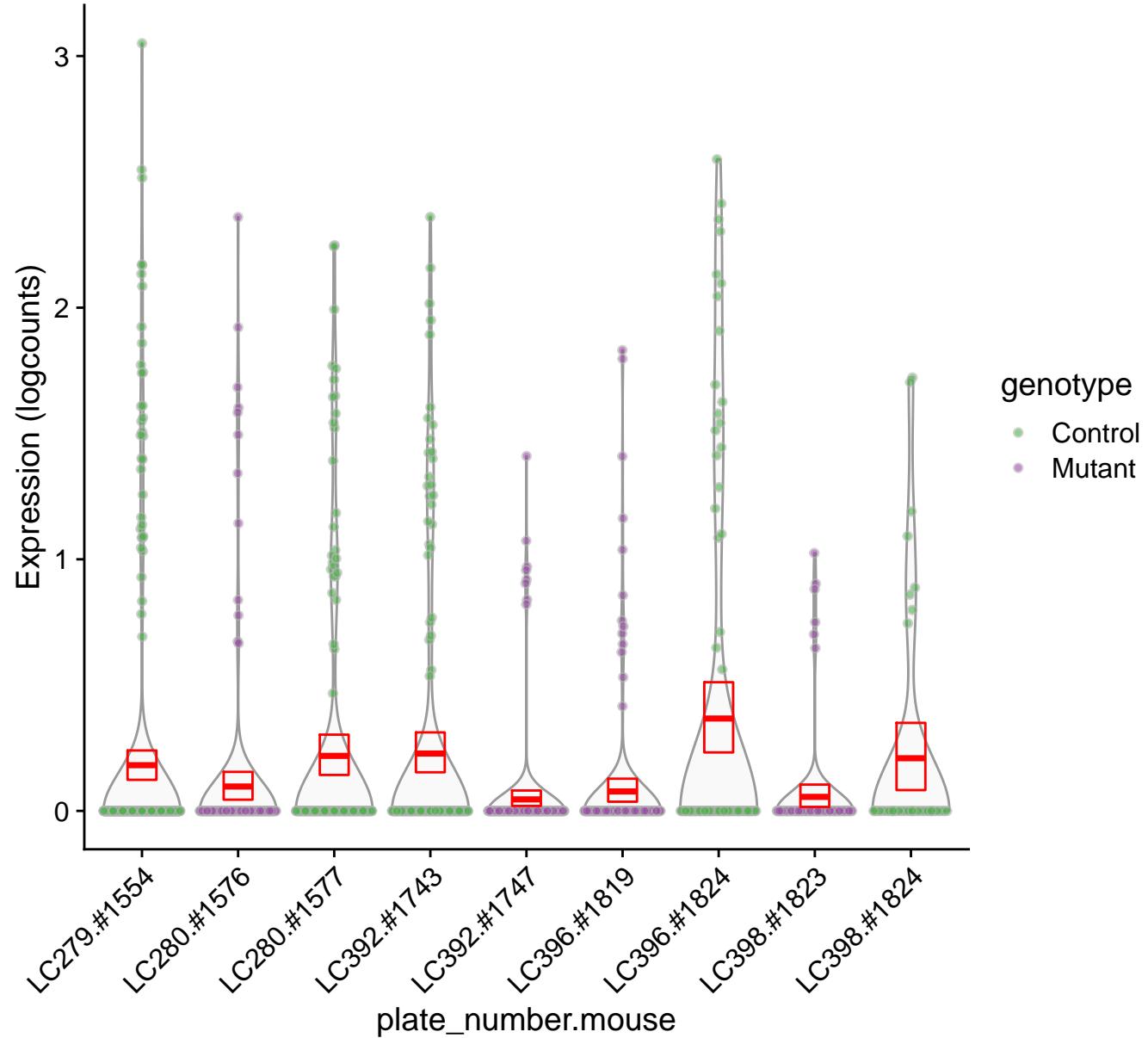
# Cst3 (FDR = 0.001)

ignoring\_cluster\_labels



# Hid1 (FDR = 0.001)

ignoring\_cluster\_labels



# Gpihbp1 (FDR = 0.001)

ignoring\_cluster\_labels

