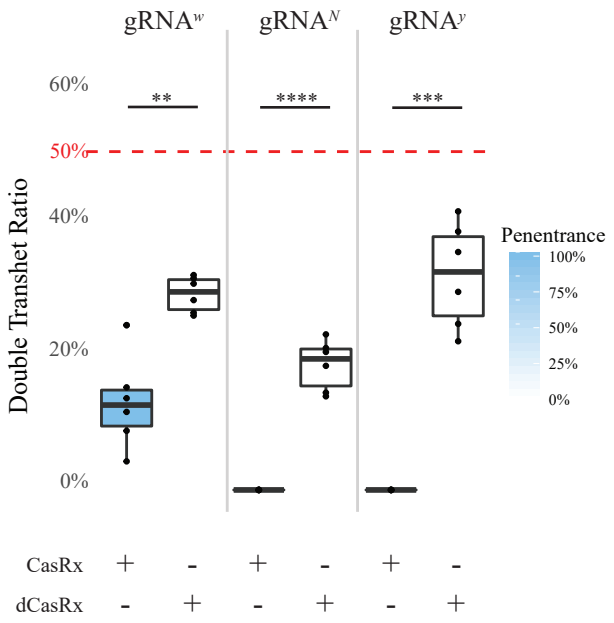
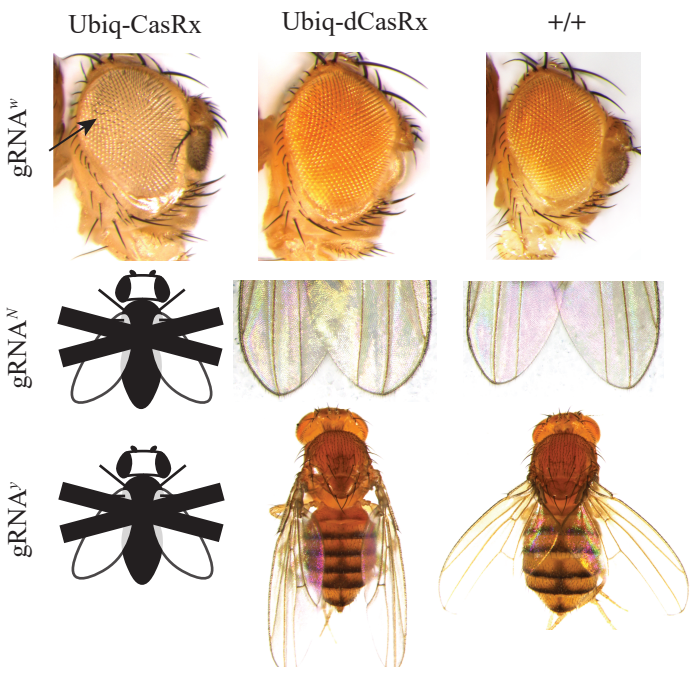
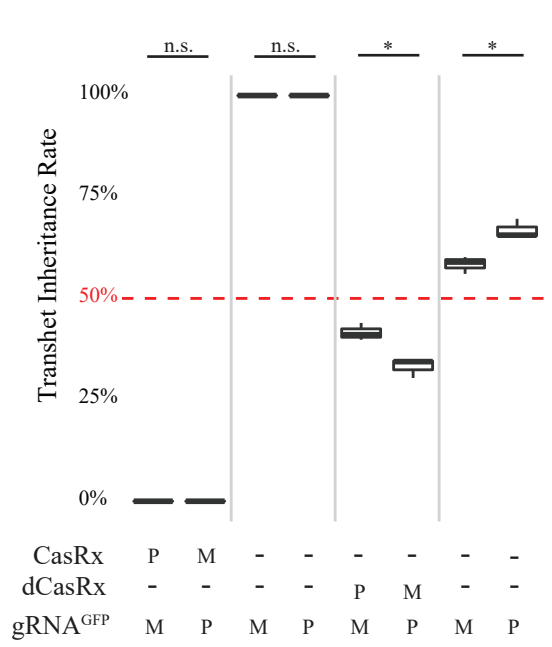
A


gRNA^w
gRNA^N
gRNA^y
60%
50%
40%
20%
0%
**
****
***
Double Transhet Ratio
Penentrance
100%
75%
50%
25%
0%
CasRx + - + - + -
dCasRx - + - + - +

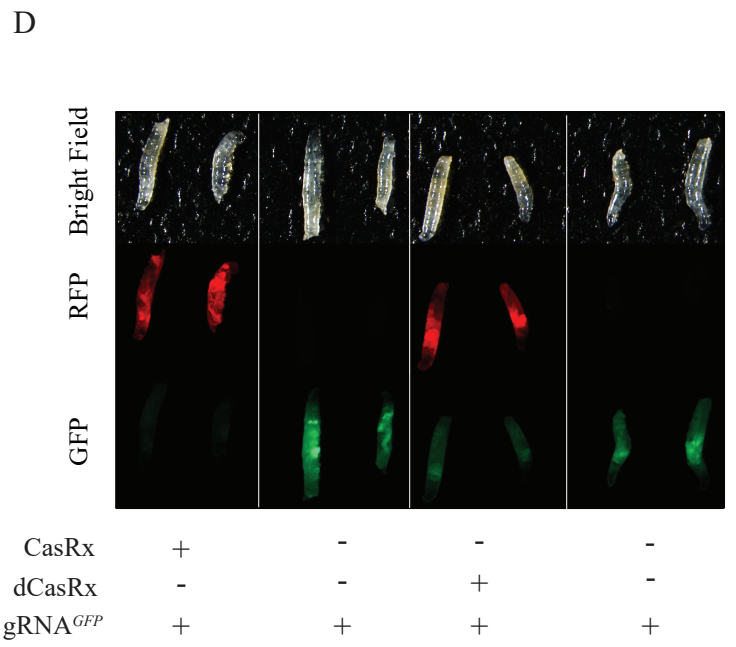
B


Ubiq-CasRx
Ubiq-dCasRx
+/+
gRNA^w
gRNA^N
gRNA^y

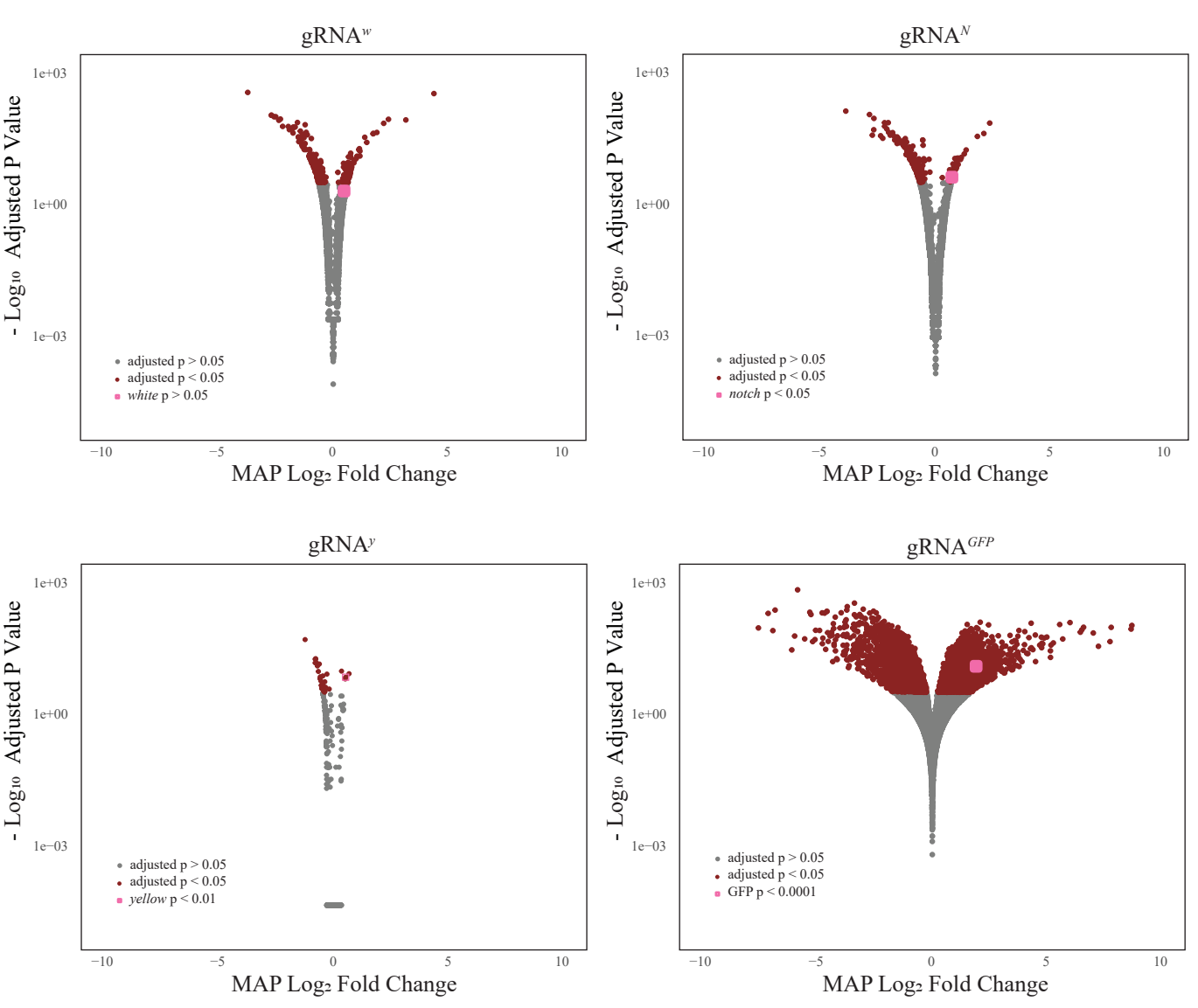
C


n.s.
n.s.
*
*
100%
75%
50%
25%
0%
Transhet Inheritance Rate
CasRx P M - - - - - -
dCasRx - - - - P M - -
gRNA^GFP M P M P M P M P

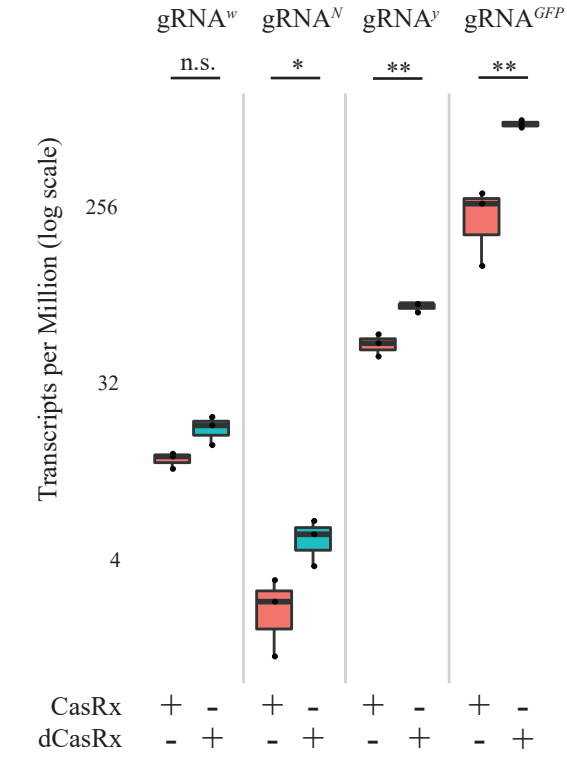
D


Bright Field
RFP
GFP
CasRx + - - -
dCasRx - - + -
gRNA^GFP + + + +

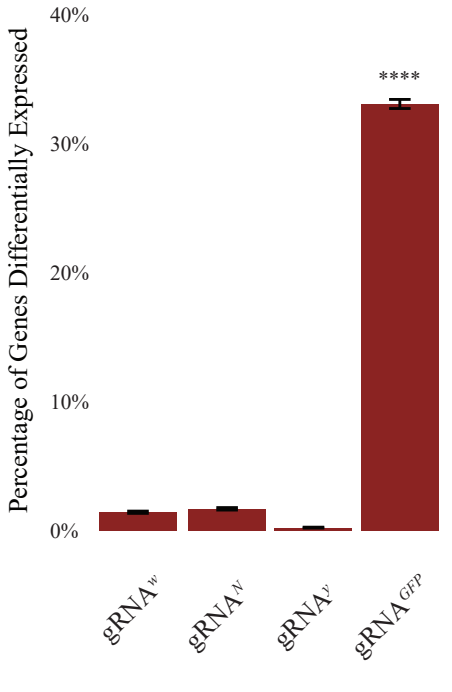
E


gRNA^w
gRNA^N
gRNA^y
gRNA^GFP
- Log10 Adjusted P Value
1e+03
1e+00
1e−03
adjusted p > 0.05
adjusted p < 0.05
white p > 0.05
notch p < 0.05
yellow p < 0.01
GFP p < 0.0001
−10
−5
0
5
10
MAP Log2 Fold Change

F


gRNA^w
gRNA^N
gRNA^y
gRNA^GFP
n.s.
*
**
**
Transcripts per Million (log scale)
256
32
4
CasRx + - + - + - + -
dCasRx - + - + - + - +

G


Percentage of Genes Differentially Expressed
40%
30%
20%
10%
0%
****
gRNA^w
gRNA^N
gRNA^y
gRNA^GFP