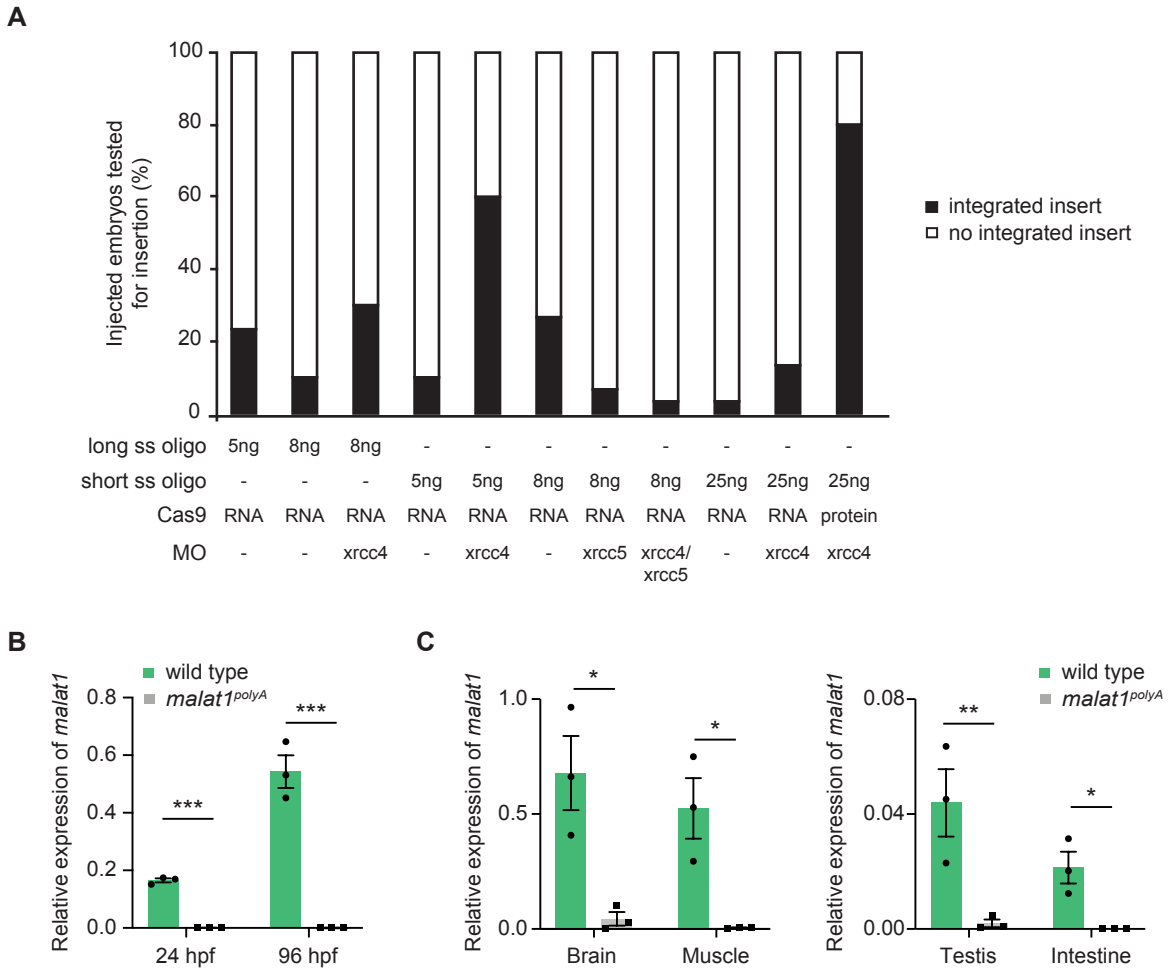
A
Injected embryos tested for insertion (%)
100
80
60
40
20
0
integrated insert
no integrated insert
long ss oligo 5ng 8ng 8ng - - - - - - - -
short ss oligo - - - 5ng 5ng 8ng 8ng 8ng 25ng 25ng 25ng
Cas9 RNA RNA RNA RNA RNA RNA RNA RNA RNA RNA protein
MO - - xrcc4 - xrcc4 - xrcc5 xrcc4/ xrcc5 - xrcc4 xrcc4
B
wild type
malat1polyA
Relative expression of malat1
0.8
0.6
0.4
0.2
0.0
***
***
24 hpf
96 hpf
C
Relative expression of malat1
1.0
0.5
0.0
*
*
Brain
Muscle
wild type
malat1polyA
Relative expression of malat1
0.08
0.04
0.00
**
*
Testis
Intestine