

Table S1. Cycle threshold (CT) of qPCR detecting expression levels of mature miRNAs *miR-8* and *miR-278*

Cycle threshold	<i>miR-8</i>	<i>miR-278</i>
<i>FRT42D</i>	22.95±0.039	30.64±0.156
<i>FRT42DmiR-278^{KO}</i>	22.55±0.569	39.22±0.390*

Mean±s.e. is shown.

*The maximum PCR cycle is 40. If the fluorescent signal of the PCR products is not higher than the threshold after 40 cycles, the CT is assigned as 40.

Table S2. Number of progeny generated by each GSC in regions 1-2A of germarium and number of progeny produced by the heterozygous neighboring control GSC

Genotypes (days after larval/pupal heat shock)	Cysts/GSC*
<i>FRT42D/FRT42DGFP</i> (14 d)	3.45±0.27
<i>FRT42D/FRT42D</i> (14 d)	3.60±0.14
<i>FRT42DmiR-278^{KO}/FRT42DGFP</i> (14 d)	3.29±0.09
<i>FRT42DmiR-278^{KO}/FRT42DmiR-278^{KO}</i> (14 d)	2.47±0.15
<i>FRT42DmiR-278^{Gal4K1}/FRT42DGFP</i> (14 d)	3.38±0.02
<i>FRT42DmiR-278^{Gal4K1}/FRT42DmiR-278^{K1Gal4}</i> (14 d)	2.66±0.11
<i>FRT42DmiR-7^{Δ1}/FRT42DGFP</i> (8 d)	4.40±0.11
<i>FRT42DmiR-7^{Δ1}/FRT42DmiR-7^{Δ1}</i> (8 d)	4.33±0.29
<i>CyO/+;FRT82BlnR^{ex52.1}/+</i> (8 d)	4.21±0.16
<i>CyO/+;FRT82BlnR^{ex52.1}/FRT82BlnR^{ex52.1}</i> (8 d)	1.68±0.09
<i>FRT42Bdap⁴/+;FRT82BlnR^{ex52.1}/+</i> (8 d)	3.95±0.13
<i>FRT42Bdap⁴/+;FRT82BlnR^{ex52.1}/FRT82BlnR^{ex52.1}</i> (8 d)	2.37±0.20

*Mean±s.e. of three repeats. At least ten mosaic germaria were counted in each repeat.