

Figure S2

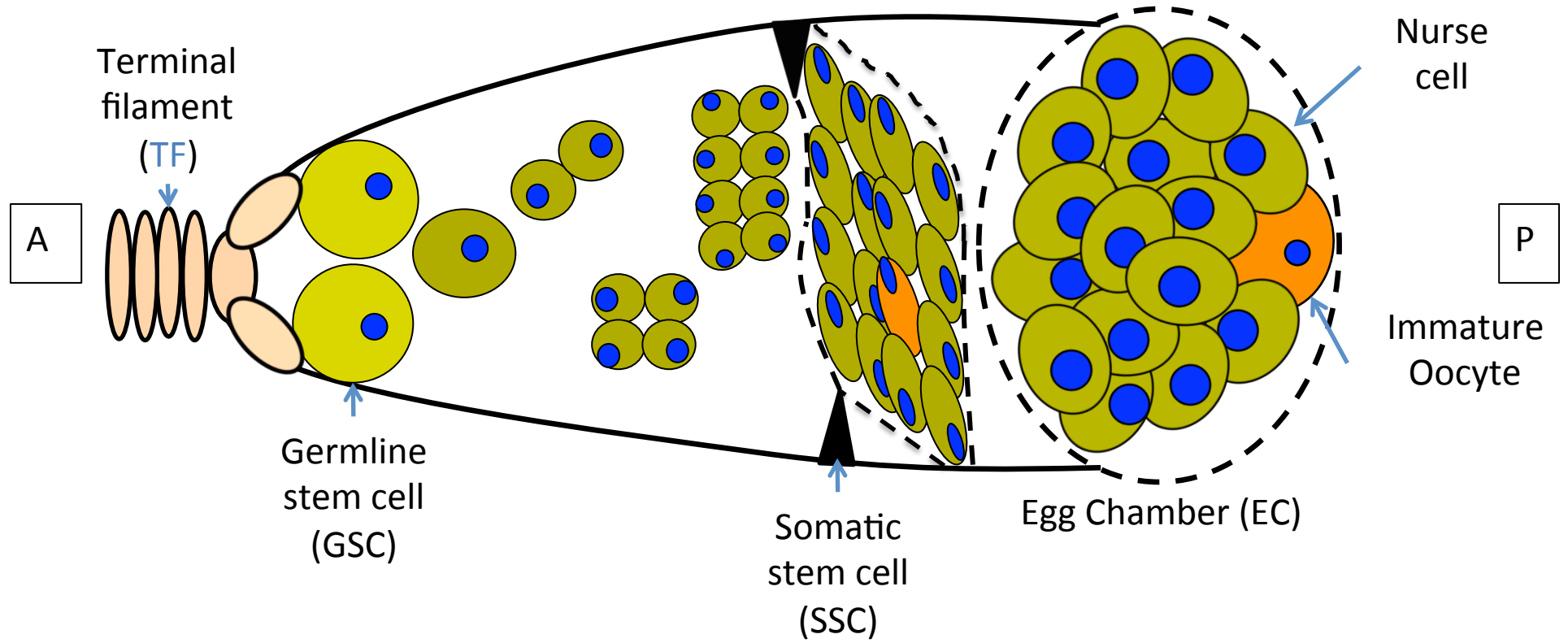


Figure S3

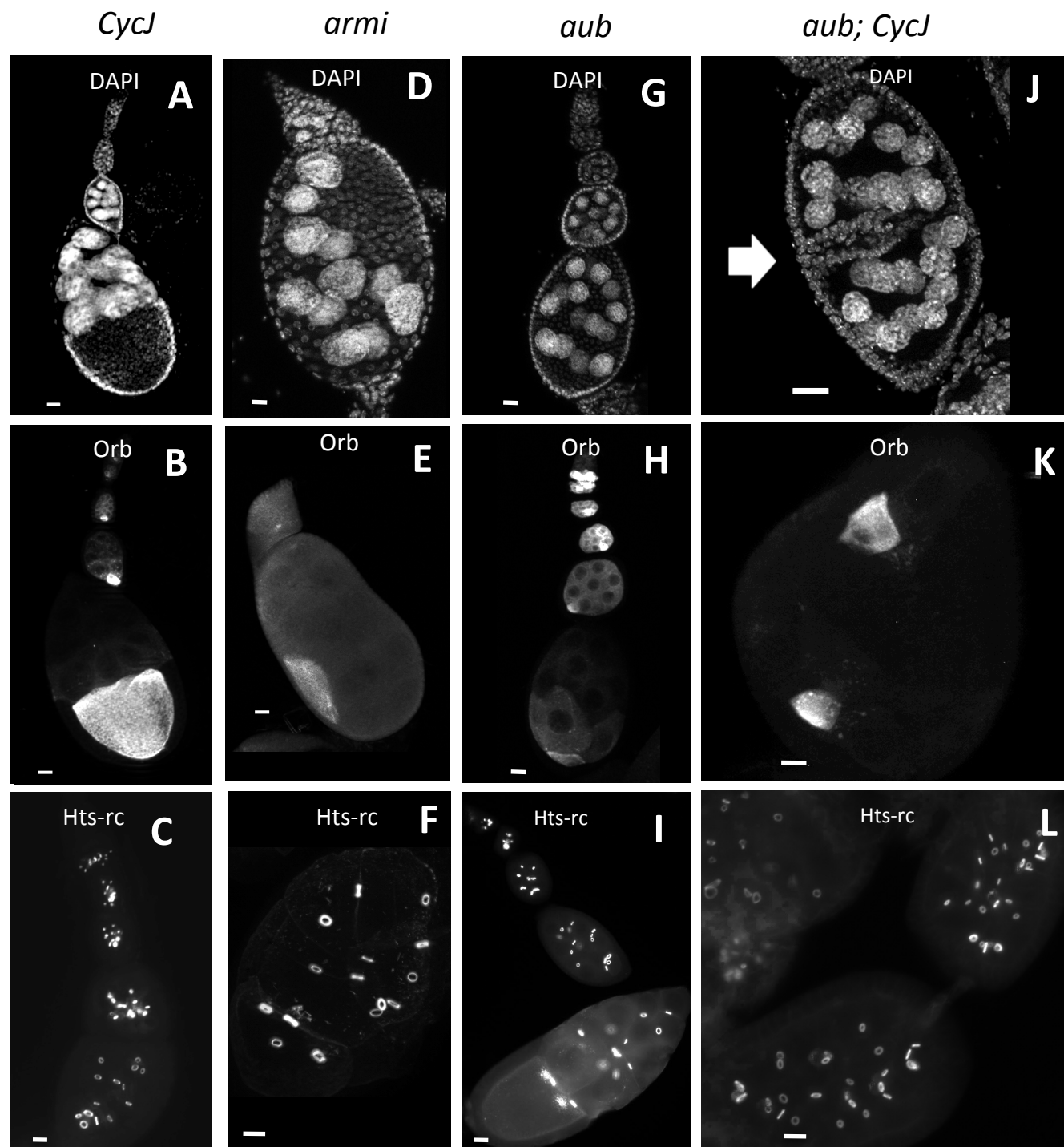


Figure S4: *CycJ* differentially regulates egg chamber formation, packaging, and maturation in the absence of the piRNA pathway

| Genotype | Alias | # of mature oocytes per fly | | # of egg chambers per ovariole | | % of compound egg chambers | | | | |
|---------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|---------------|--------------------------------|---------------|----------------------------|---------------|-----------|----------------|-----------|
| | | | | | | | | | | |
| Wild Type | WT | 31.4 ±0.8 | P=5.32 E-1 | 4.4±0.05 | P=2.32 E-2 | 0.0% ±0.0% | P=1.81 E-1 | | | |
| <i>p{armi}, Df(3L)armi-J/Df(3L)Exel6095</i> | <i>CycJ</i> | 30.1 ±1.8 | | 4.3±0.05 | | 0.8% ±0.6% | | | | |
| <i>VP16::nos-Gal4>UAS-myc-CycJ; Df(3L)armi-J/Df(3L)Exel6095</i> | Germline <i>armi</i> | 0.2 ±0.1 | P=8.05 E-2 | 1.5±0.07 | P=1.23 E-3 | 19.4% ±1.9% | P=1.41 E-4 | | | |
| <i>VP16::nos-Gal4; Df(3L)armi-J/Df(3L)Exel6095</i> | <i>armi, CycJ</i> | 0.0 ±0.0 | | 1.0±0.1 | | 37.7% ±3.8% | | | | |
| <i>p{CycJ}; Df(3L)armi-J/Df(3L)Exel6095</i> | <i>armi</i> | 7.7 ±0.5 | P=8.86E-29 | 2.0±0.06 | P=1.20E-13 | 9.9% ±1.0% | P=1.22E-15 | | | |
| <i>Df(3L)armi-J/Df(3L)Exel6095</i> | <i>armi, CycJ</i> | 0.3 ±0.1 | | P=9.00E-3 | | 1.2±0.07 | | P=3.82E-1 | 47.1% ±2.7% | P=7.54E-1 |
| <i>Df(3L)armi-J/Df(3L)Exel6095, 1 day old</i> | <i>armi, CycJ</i> | 0.0 ±0.0 | | | | 1.1±0.1 | | | 48.0% ±5.7% | |
| <i>aub[HN]/aub[QC42]</i> | <i>aub</i> | 7.5 ±1.8 | P=8.20E-4 | 3.8±0.4 | P=4.97E-1 | 2.1% ±1.8% | P=8.01E-3 | | | |
| <i>P{CycJ}; aub[HN]/aub[QC42]; p{armi}, Df(3L)armi-J/Df(3L)Exel6095</i> | <i>aub; CycJ</i> rescue | 6.8 ±0.9 | | P=2.11E-3 | | 3.7±0.4 | | P=4.23E-1 | 1.7% ±0.1% | P=2.83E-3 |
| <i>aub[HN]/aub[QC42]; p{armi}, Df(3L)armi-J/Df(3L)Exel6095</i> | <i>aub; CycJ</i> | 0.0 ±0.0 | | | | 3.8±0.2 | | | 5.9% ±1.3% | |
| <i>piwi[06843]/Df(2L)BSC145, 0-2 day old</i> | <i>piwi</i> | 0.0 ±0.0 | P=1.20E-1 | 1.2±0.1 | P=6.90E-2 | 12.5% ±2.0% | P=1.72E-5 | | | |
| <i>P{CycJ}; piwi[06843]/Df(2L)BSC145; p{armi}, Df(3L)armi-J/Df(3L)Exel6095, 0-2 day old</i> | <i>piwi; CycJ</i> rescue | 0.0 ±0.0 | | P=1.20E-1 | | 2.5±0.07 | | P=1.14E-4 | 10.1% ±0.4% | P=1.21E-5 |
| <i>piwi[06843]/Df(2L)BSC145; p{armi}, Df(3L)armi-J/Df(3L)Exel6095</i> | <i>piwi; CycJ</i> | 0.4 ±0.3 | | | | 1.5±0.2 | | | 47% ±5.6% | |

Figure S5

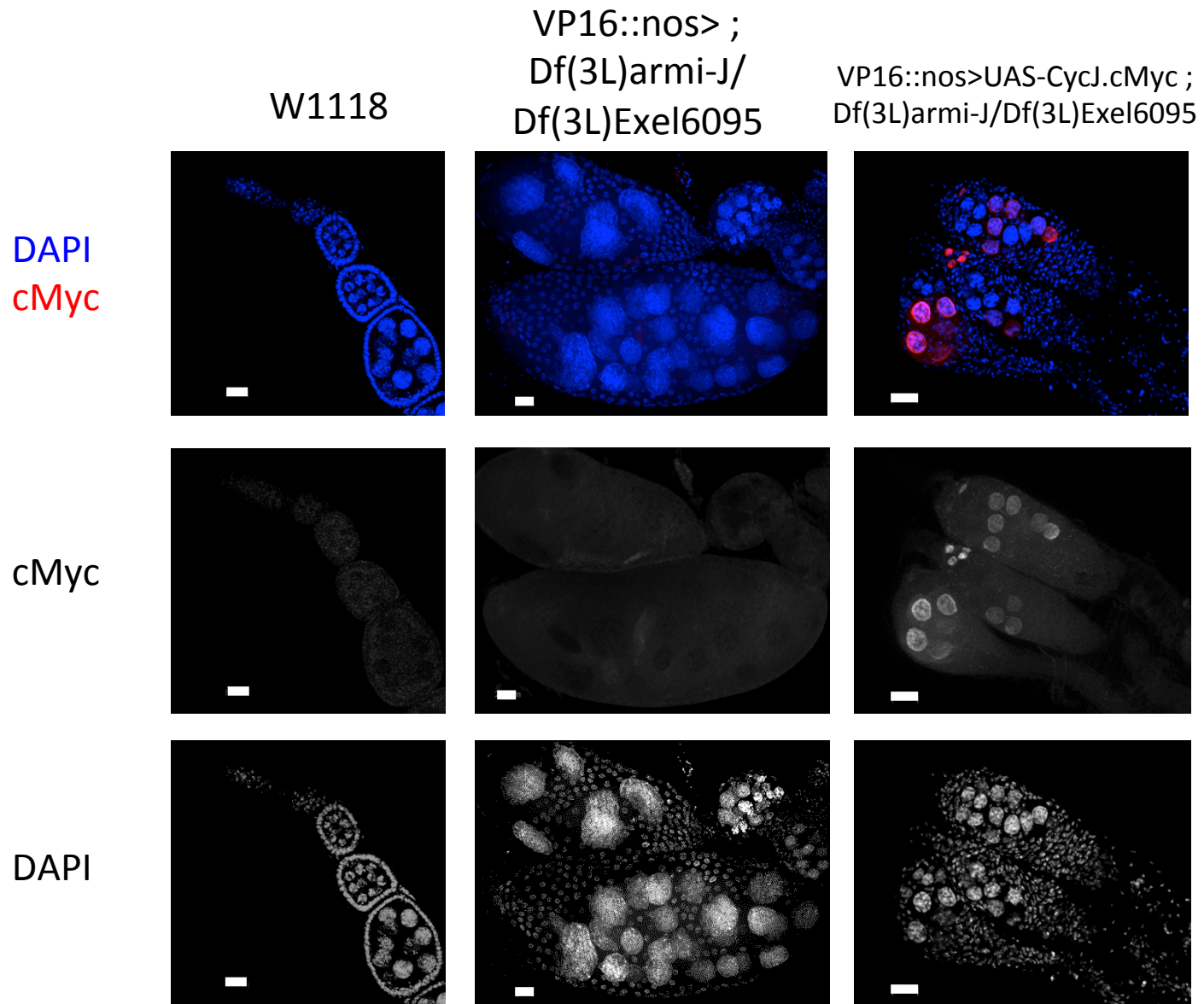


Figure S6

