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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplementary table 2. Number of niche cap cells and GSCs in candidate knockdown and control germaria** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **Whole stage knock down** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | **L3 to adult knock down** | | | | | | | | | | | |
|  | **Niche cap cell** | | | | | | | | | |  | **GSC** | | | | | | | | | | | | | | | | | | |  | **Niche cap cell** | | | | |  | **GSC** | | | | | |
| **Genotype** | **≥6**  **cap cells** | | **4-5**  **cap cells** | | | | **≤3**  **cap cells** | | | |  | **≥3**  **GSCs** | | **2**  **GSCs** | | | | | | | | | | **≤1**  **GSC** | | | | | | |  | **≥6**  **cap cells** | | **4-5**  **cap cells** | | **≤3**  **cap cells** |  | **≥3**  **GSCs** | | | **2**  **GSCs** | | **≤1**  **GSC** |
| *bab1-Gal4/+* | 47 | | 46 | | | | 7 | | | |  | 64 | | 34 | | | | | | | | | | 2 | | | | | | |  | 23 | | 76 | | 7 |  | 55 | | | 42 | | 3 |
| 5.4 ± 1.3ǂ(381)¶ | | | | | | | | | |  | 2.8 ± 0.7¥(385) | | | | | | | | | | | | | | | | | | |  | 4.9 ± 0.9 (108) | | | | |  | 2.6 ± 0.7 (109) | | | | | |
| *UAS-tra16724R-2/+* | 48 | | 42 | | | | 10 | | | |  | 55 | | 40 | | | | | | | | | | 5 | | | | | | |  | 39 | | 56 | | 6 |  | 50 | | | 43 | | 7 |
| 5.4 ± 1.5 (60) | | | | | | | | | |  | 2.6 ± 0.7 (60) | | | | | | | | | | | | | | | | | | |  | 5.3 ± 1.2 (102) | | | | |  | 2.5 ± 0.8 (102) | | | | | |
| *UAS-sxl18350R-3/+* | 22 | | 74 | | | | 5 | | | |  | 40 | | 51 | | | | | | | | | | 10 | | | | | | |  | 14 | | 62 | | 65 |  | 55 | | | 39 | | 6 |
| 4.8 ± 1.0 (83) | | | | | | | | | |  | 2.3 ± 0.7 (83) | | | | | | | | | | | | | | | | | | |  | 4.8 ± 0.9 (102) | | | | |  | 2.2 ± 0.7 (102) | | | | | |
| *UAS-vir3496R-2/+* | 41 | | 59 | | | | 0 | | | |  | 41 | | 59 | | | | | | | | | | 0 | | | | | | |  | 11 | | 64 | | 24 |  | 53 | | | 40 | | 7 |
| 5.3 ± 0.7 (17) | | | | | | | | | |  | 2.4 ± 0.5 (17) | | | | | | | | | | | | | | | | | | |  | 4.3 ±1.1 (70) | | | | |  | 2.5 ± 0.7 (70) | | | | | |
| *ΔUAS-vir3496R-3/+* | 26 | | 66 | | | | 8 | | | |  | 59 | | 37 | | | | | | | | | | 4 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.9 ± 1.1 (96) | | | | | | | | | |  | 2.5 ± 0.8 (96) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-E(z)6502R-3/+* |  | | N/D | | | |  | | | |  |  | | N/D | | | | | | | | | |  | | | | | | |  | 27 | | 73 | | 0 |  | 29 | | | 53 | | 18 |
|  | | | | | | | | | |  |  | | | | | | | | | | | | | | | | | | |  | 5.2 ± 0.8 (51) | | | | |  | 2.1 ± 0.7 (51) | | | | | |
| *UAS-e(y)312238R-3/+* | 39 | | 49 | | | | 13 | | | |  | 50 | | 41 | | | | | | | | | | 9 | | | | | | |  | 2 | | 78 | | 21 |  | 48 | | | 40 | | 48 |
| 5.0 ± 1.2 (80) | | | | | | | | | |  | 2.6 ± 0.7 (80) | | | | | | | | | | | | | | | | | | |  | 4.1 ± 0.9 (67) | | | | |  | 2.3 ± 0.7 (67) | | | | | |
| *UAS-wnt44698R-2/+* | 25 | | 74 | | | | 1 | | | |  | 45 | | 51 | | | | | | | | | | 4 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.1 ± 0.8 (80) | | | | | | | | | |  | 2.4 ± 0.7 (80) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *ΔUAS-wnt44698R-3/+* | 33 | 63 | | | | 4 | | | | |  | 48 | 49 | | | | | | | | | | 3 | | | | | | | |  | N/D | | | | |  | N/D | | | | | |
| 5.2 ± 0.7 (80) | | | | | | | | | |  | 2.5 ± 0.7 (80) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-rasp1799R-2/+* | 27 | | 70 | | | | 3 | | | |  | 38 | | | 50 | | | | | | | | | 12 | | | | | | |  | 31 | | 60 | | 10 |  | 0 | | | 55 | | 45 |
| 4.6 ± 1.1 (60) | | | | | | | | | |  | 2.3 ± 0.7 (60) | | | | | | | | | | | | | | | | | | |  | 5 ± 1.2 (42) | | | | |  | 2.6 ± 0.7 (42) | | | | | |
| *ΔUAS-rasp1799R-3/+* | 26 | | 70 | | | | 4 | | | |  | 38 | | | 59 | | | | | | | | | 3 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.1 ± 1.0 (53) | | | | | | | | | |  | 2.4 ± 0.6 (53) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-incenp12165R-3/+* | 44 | | 56 | | | | 0 | | | |  | 76.7 | | | 23.3 | | | | | | | | | 0 | | | | | | |  | 19 | | 72 | | 9 |  | 47 | | | 53 | | 0 |
| 5.5 ± 0.7 (59) | | | | | | | | | |  | 2.9 ± 0.6 (60) | | | | | | | | | | | | | | | | | | |  | 4.6 ± 0.9 (50) | | | | |  | 2.6 ± 0.6 (50) | | | | | |
| *ΔUAS-e(y)16474R-1/+* | 20 | | 73 | | | | 7 | | | |  | 75 | | | 20 | | | | | | | | | 53 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.9 ±1.0 (75) | | | | | | | | | |  | 2.9 ± 0.8 (75) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-e(y)16474R-2/+* | 12 | | 81 | | | | 7 | | | |  | 48 | | | 45 | | | | | | | | | 7 | | | | | | |  | 21 | | 69 | | 10 |  | 48 | | | 45 | | 7 |
| 4.6 ± 0.9 (70) | | | | | | | | | |  | 2.5 ± 0.8 (70) | | | | | | | | | | | | | | | | | | |  | 4.7 ± 1.0 (29) | | | | |  | 2.5 ± 0.8 (29) | | | | | |
| *UAS-abd-A10325R-2/+* | 32 | | 64 | | | | 3 | | | |  | 52 | | | 46 | | | | | | | | | 3 | | | | | | |  | 36 | | 56 | | 8 |  | 47 | | | 39 | | 14 |
| 5.2 ± 1.0 (87) | | | | | | | | | |  | 2.6 ± 0.7 (87) | | | | | | | | | | | | | | | | | | |  | 5.3 ± 1.2 (50) | | | | |  | 2.5 ± 1.7 (50) | | | | | |
| *ΔUAS-abd-A10325R-3/+* | 62 | | 33 | | | | 5 | | | |  | 43 | | | 48 | | | | | | | | | 8 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.6 ± 1.1 (60) | | | | | | | | | |  | 2.4 ± 0.8 (60) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-tsu8781R-1/+* | 26 | | 73 | | | | 1 | | | |  | 44 | | | 42 | | | | | | | | | 13 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.0 ± 0.9 (90) | | | | | | | | | |  | 2.3 ± 0.8 (90) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *ΔUAS-tsu8781R-2/+* | 20 | 71 | | | 9 | | | | | |  | 45 | | | | 51 | | | | | | | | | 5 | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.7 ± 1.1 (65) | | | | | | | | | |  | 2.5 ± 0.7 (65) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-CSN514884R-3/+* | 51 | 46 | | | 4 | | | | | |  | 52 | | | | 38 | | | | | | | | | 10 | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.4 ± 1.0 (77) | | | | | | | | | |  | 2.5 ± 0.8 (77) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *ΔUAS-lsn6637R-1/+* | 33 | | 66 | | | | 1 | | | |  | 59 | | | 41 | | | | | | | | | 0 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.2 ± 1.0 (80) | | | | | | | | | |  | 2.7 ± 0.7 (80) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-lsn6637R-2/+* | 16 | | 70 | | | | 14 | | | |  | 48 | | | 3 | | | | | | | | | 49 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.6 ± 1.1 (63) | | | | | | | | | |  | 2.5 ± 0.7 (63) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *ΔUAS-tj10034R-1/+* | 36 | | 61 | | | | 3 | | | |  | 61 | | | 35 | | | | | | | | | 4 | | | | | | |  | 27 | | 58 | | 15 |  | 40 | | | 56 | | 4 |
| 5.3 ± 1.0 (80) | | | | | | | | | |  | 2.5 ± 0.7 (80) | | | | | | | | | | | | | | | | | | |  | 4.7 ± 1.1 (55) | | | | |  | 2.4 ± 0.6 (55) | | | | | |
| *UAS-tj10034R-2/+* | 50 | | 38 | | | | 13 | | | |  | 63 | | | 37 | | | | | | | | | 0 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.4 ± 1.6 (8) | | | | | | | | | |  | 2.6 ± 0.5 (8) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-RhoGEF29563R-3/+* | 34 | | 63 | | | | 3 | | | |  | 64 | | | 34 | | | | | | | | | 2 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.1 ± 1.2 (59) | | | | | | | | | |  | 2.8 ± 0.8 (123) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-Su(Hw)8573R-2/+* | 21 | | 75 | | | | 4 | | | |  | 29 | | | 61 | | | | | | | | | 9 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.9 ± 0.9 (85) | | | | | | | | | |  | 2.2 ± 0.6 (85) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-Ras85D9375R-3/+* | 49 | | 50 | | | | 1 | | | |  | 71 | | | 29 | | | | | | | | | 0 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.4 ± 0.9 (80) | | | | | | | | | |  | 2.9 ± 0.7 (80) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-fz29739R-1/+* | 41 | | 57 | | | | 2 | | | |  | 77 | | | 23 | | | | | | | | | 0 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.1 ± 1.1 (90) | | | | | | | | | |  | 3.0 ± 0.7 (90) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *ΔUAS-fz29739R-2/+* | 23 | | 37 | | | | 41 | | | |  | 74 | | | 26 | | | | | | | | | 0 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.1 ± 1.4 (66) | | | | | | | | | |  | 3.0 ± 0.7 (66) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-RhoGEF29563R-3/+* | 34 | 63 | | | | | 3 | | | |  | 64 | | | 34 | | | | | | | | | 2 | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.1 ± 1.2 (59) | | | | | | | | | |  | 2.8 ± 0.8 (59) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *UAS-vps2514750R-3/+* | 12 | | 77 | | | | 11 | | | |  | 43 | | | 52 | | | | | | | | 5 | | | | | | | |  | 42 | 53 | | 5 | |  | 42 | 47 | | | 11 | |
| 4.7 ± 1.1 (101) | | | | | | | | | |  | 2.6 ± 0.8 (100) | | | | | | | | | | | | | | | | | | |  | 5.4 ± 1.2 (36) | | | | |  | 2.3 ± 0.7 (36) | | | | | |
| *UAS-mef21429R-1/+* |  | N/D | | | | |  | | | |  |  | | | N/D | | | | | | | | |  | | | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
|  | | | | | | | | | |  |  | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>tra16724R-2* | 13 | | 10 | | | | 77 | | | |  | 0 | | | 0 | | | | | | | | | 100 | | | | | | |  | 5 | | 75 | | 20 |  | 0 | | | 44 | | 56 |
| 1.5 ± 2.3†(30) | | | | | | | | | |  | 0.3 ± 0.5† (30) | | | | | | | | | | | | | | | | | | |  | 4.2 ± 1.6† (25) | | | | |  | 1.2± 0.8† (25) | | | | | |
| *bab1>sxl18350R-3* | 13 | | 42 | | | | 46 | | | |  | 25 | | | | | 33 | | | | | | | | | 42 | | | | |  | 8 | | 65 | | 27 |  | 25 | | | 56 | | 19 |
| 3.2 ± 1.8† (24) | | | | | | | | | |  | 1.7 ± 1.1†(24) | | | | | | | | | | | | | | | | | | |  | 4.1 ± 1.0† (107) | | | | |  | 2.1 ± 0.8† (107) | | | | | |
| *Δbab1>vir3496R-2* | 9 | | 50 | | | | 41 | | | |  | 23 | | | | | 59 | | | | | | | | | 18 | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 3.5 ± 1.8†‖(22) | | | | | | | | | |  | 2.0 ± 0.8 (22) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>vir3496R-3* | 7 | | 21 | | | | 71 | | | |  | 0 | | | | | | 21 | | | | | | | | 79 | | | | |  | 0 | | 7 | | 93 |  | 0 | | | 38 | | 62 |
| 2.4 ± 1.8† (14) | | | | | | | | | |  | 0.7 ± 01.8† (14) | | | | | | | | | | | | | | | | | | |  | 1.9 ± 1.3† (29) | | | | |  | 1.2 ± 0.7† (29) | | | | | |
| *bab1>E(z)6502R-3* | N/D | | | | | | | | | |  |  | | | | | N/D | | | | | | | | |  | | | | |  | 18 | | 57 | | 25 |  | 15 | | | 26 | | 56 |
|  | | | | | | | | | |  |  | | | | | | | | | | | | | | | | | | |  | 4.5 ± 1.2\* (86) | | | | |  | 1.7 ± 0.9† (86) | | | | | |
| *bab1>e(y)312238R-3* | 12 | | 52 | | | | 36 | | | |  | 31 | | | | | 38 | | | | | | | | | 31 | | | | |  | 0 | | 68 | | 31 |  | 49 | | | 39 | | 12 |
| 3.9 ± 1.4† (90) | | | | | | | | | |  | 1.8 ± 1.1†(90) | | | | | | | | | | | | | | | | | | |  | 3.4 ± 1.2 (103) | | | | |  | 2.5 ± 1.0 (103) | | | | | |
| *bab1>wnt44698R-2* | 32 | | 62 | | | | 6 | | | |  | 44 | | | | | 39 | | | | | | | | | 6 | | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.1 ± 1.2 (90) | | | | | | | | | |  | 2.5 ± 0.8 (90) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *Δbab1>wnt44698R-3* | 24 | | 65 | | | | 11 | | | |  | 41 | | | | | 49 | | | | | | | | | 10 | | | | |  | N/D | | | | |  | N/D | | | | | |
| 5.1 ± 0.8 (80) | | | | | | | | | |  | 2.4 ± 0.8 (80) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>rasp1799R-2* | 6 | | 61 | | | | 33 | | | |  | 22 | | | | | 22 | | | | | | | | | 56 | | | | |  | 21 | | 55 | | 24 |  | 39 | | | 45 | | 16 |
| 4.0 ± 1.5 (18) | | | | | | | | | |  | 1.2 ± 1.2‖ (18) | | | | | | | | | | | | | | | | | | |  | 4.5 ± 1.5 (82) | | | | |  | 2.3 ± 0.9 (82) | | | | | |
| *Δbab1>rasp1799R-3* | 16 | | 56 | | | | 28 | | | |  | 31 | | | | | 39 | | | | | | | | | | 30 | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.3 ± 1.5‖(90) | | | | | | | | | |  | 1.9 ± 1.0\* (90) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>incenp12165R-3* |  | | N/D | | | | |  | | |  |  | | | | | | N/D | | | | | | | | |  | | | |  | 24 | | 49 | | 27 |  | 15 | | | 63 | | 22 |
|  |  | | | | | | | | | |  |  | | | | | | | | | | | | | | | | | | |  | 4.5 ± 1.4 (41) | | | | |  | 1.9 ± 0.7† (41) | | | | | |
| *Δbab1>e(y)16474R-1* | 8 | | 46 | | | | | 46 | | |  | 32 | | | | | | | 48 | | | | | | | | 20 | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 3.6 ± 1.2† (50) | | | | | | | | | |  | 2.1 ± 0.8† (50) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>e(y)16474R-2* | 7 | | 40 | | | | | 53 | | |  | 9 | | | | | | | 533 | | | | | | | | 38 | | | |  | 14 | | 59 | | 27 |  | 12 | | | 58 | | 30 |
| 3.3 ± 1.4† (45) | | | | | | | | | |  | 1.6 ± 0.7† (45) | | | | | | | | | | | | | | | | | | |  | 4.2 ± 1.2‖ (59) | | | | |  | 1.8 ± 0.7† (59) | | | | | |
| *bab1>abd-A10325R-2* | 28 | | 58 | | | | | 26 | | |  | 9 | | | | | | | 52 | | | | | | | | 39 | | | |  | 30 | | 70 | | 0 |  | 58 | | | 38 | | 5 |
| 4.5 ± 1.3† (105) | | | | | | | | | |  | 1.7 ± 0.7† (105) | | | | | | | | | | | | | | | | | | |  | 5.3 ± 1.2 (50) | | | | |  | 2.5 ± 1.0 (50) | | | | | |
| *Δbab1>abd-A10325R-3* | 22 | | 66 | | | | | | 12 | |  | 15 | | | | | | | | 48 | | | | | | | 37 | | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.7 ± 1.1† (65) | | | | | | | | | |  | 1.7 ± 0.8† (65) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>tsu8781R-1* | 54 | | 40 | | | | | | 6 | |  | 34 | | | | | | | | 47 | | | | | | | | 19 | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 5.7 ± 1.4 (90) | | | | | | | | | |  | 2.2 ± 1.0 (90) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *Δbab1>tsu8781R-2* | 17 | | 56 | | | | | 27 | | |  | 24 | | | | | | | 54 | | | | | | | | | 22 | | |  |  | | N/D | |  |  |  | | | N/D | |  |
| 4.4 ± 1.6 (41) | | | | | | | | | |  | 2.0 ± 0.8‖(41) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>CSN514884R-3* | 13 | | 64 | | | | | 23 | | |  | 29 | | | | | | | 64 | | | | | | | | 8 | | | |  |  | | N/D | |  |  |  | | N/D | | |  |
| 4.3 ± 1.0† (91) | | | | | | | | | |  | 2.2 ± 0.6†(91) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *Δbab1>lsn6637R-1* | 6 | | 35 | | | | | | 59 | |  | 6 | | | | | | | | | 29 | | | | | | 65 | | | |  |  | | N/D | |  |  |  | | N/D | | |  |
| 3.6 ± 1.1† (17) | | | | | | | | | |  | 1.1 ± 1.1† (17) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>lsn6637R-2* | 9 | | 23 | | | | | | | 68 |  | 0 | | | | | | | 0 | | | | | | | | 100 | | | |  | 28 | | 61 | | 11 |  | 56 | | 38 | | | 6 |
| 2.5 ± 2.3† (22) | | | | | | | | | |  | 0.2 ± 0.4† (22) | | | | | | | | | | | | | | | | | | |  | 4.9 ± 1.2 (85) | | | | |  | 2.6 ± 0.8 (85) | | | | | |
| *bab1>tj10034R-1* | 17 | | 57 | | | | | | 25 | |  | 9 | | | | | | | | 51 | | | | | | | | 40 | | |  | 6 | | 56 | | 38 |  | 26 | | 65 | | | 9 |
| 4.4 ± 1.3† (75) | | | | | | | | | |  | 1.6 ± 0.8† (75) | | | | | | | | | | | | | | | | | | |  | 4.0 ± 1.0† (34) | | | | |  | 2.2 ± 0.6† (34) | | | | | |
| *Δbab1>tj10034R-2* | 4 | | 57 | | | | | | | 39 |  | 13 | | | | | | | | 65 | | | | | | | | | 22 | |  |  | | N/D | |  |  |  | | N/D | | |  |
| 3.8 ± 1.0† (46) | | | | | | | | | |  | 1.9 ± 0.6† (46) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>RhoGEF29563R-3* | 27 | | 61 | | | | | | | 13 |  | 35 | | | | | | | | | 48 | | | | | | | | 17 | |  |  | | N/D | |  |  |  | | N/D | | |  |
| 4.8 ± 1.4‖ (71) | | | | | | | | | |  | 2.2 ± 0.9† (71) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1> Su(Hw)8573R-2* | 17 | | 68 | | | | | | | 15 |  | 34 | | | | | | | | | | 44 | | | | | | | | 22 |  |  | | N/D | |  |  |  | | N/D | | |  |
| 4.4 ± 1.3‖(85) | | | | | | | | | |  | 2.1 ± 1.0 (85) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1> Ras85D9375R-3* | 42 | | 50 | | | | | | | 8 |  | 21 | | | | | | | | | | 57 | | | | | | | | 22 |  |  | | N/D | |  |  |  | | N/D | | |  |
| 5.2 ± 1.2 (125) | | | | | | | | | |  | 2.0 ± 0.8†(125) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>fz29739R-1* | 29 | | 68 | | | | | | 3 | |  | 666 | | | | | | | | | | 31 | | | | | | | | 3 |  |  | | N/D | |  |  |  | | N/D | | |  |
| 5.3 ± 1.0 (90) | | | | | | | | | |  | 2.7 ± 0.7 (90) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *Δbab1>fz29739R-2* | 30 | | 35 | | | | | | 35 | |  | 57.5 | | | | | | | | | | 36.3 | | | | | | | | 6.3 |  |  | | N/D | |  |  |  | | N/D | | |  |
| 4.9 ± 1.2 (80) | | | | | | | | | |  | 2.7 ± 0.8 (80) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |
| *bab1>vps2514750R-3* | 7 | | | 26 | | | | | 67 | |  |  | | | | | | N/D | | | | | | | |  | | | | |  | 24 | | 64 | | 12 |  | 56 | | | 44 | | 0 |
|  | 1.0 ± 1.0† (28) | | | | | | | | | |  |  | | | | | | | | | | | | | | | | | | |  | 4.8 ± 1.2 (50) | | | | |  | 2.6 ± 0.7 (50) | | | | | |
| *bab1>mef21429R-1* | 46 | | | 49 | | | | | 8 | |  | 41 | | | | | | 46 | | | | | | | | 13 | | | | |  |  | | N/D | |  |  |  | | N/D | | |  |
|  | 5.2 ± 1.3 (78) | | | | | | | | | |  | 2.3 ± 0.8† (78) | | | | | | | | | | | | | | | | | | |  |  | | | | |  |  | | | | | |

Ovaries of newly eclosed flies with genotypes of *bab1-GAL4/+* (*GAL4* control), *UAS-candidate RNAi/+* (*UAS* control) and *bab1>candidate RNAi* that were grown on

standard food at 29 °C were dissected, immunostained and analyzed.

¶ Total number of germaria analyzed.

ǂ Average of niche cap cells per germarium; ¥ Average of GSCs per germarium

N/D indicates not determined.

\*Significant difference relative to *GAL4* controls: *P* < 0.05.

‖Significant difference relative to *GAL4* controls: *P* < 0.01.

†Significant difference relative to *GAL4* controls: *P* < 0.001.

*Δ* Results obtained from the RNAi lines are only shown in Supplementary data.