**Table S1** The ratio of *P. pseudoannulata* to *D. melanogaster* in each group

|  |  |  |  |
| --- | --- | --- | --- |
| Instar | CK | RF | RT |
| 2nd | 1：3 | 1： | 1：1 |
| 3rd | 1：5 | 1：2 | 1：2 |
| 4th | 1：7 | 1：3 | 1：3 |
| 5th | 1：10 | 1：5 | 1：5 |
| 6th | 1：15 | 1：7 | 1：7 |
| 7th | 1：22 | 1：11 | 1：11 |
| 8th / adult | 1：30 | 1：30 | 1：15 |

**Table S2** Real-time quantitative PCR primers for related genes in *Pardosa pseudoannulata*

|  |  |  |  |
| --- | --- | --- | --- |
| Gene | Purpose | Forward primer | Reverse primer |
| *VgR-1* | qPCR | CTGTTGCTACCGCTGTGGTTCAT | ACACTTCTAAGGTCACTGCCGTCA |
| *Vg-1* | qPCR | CAGCAGCAGCCACAACGACAT | ACTCCGATGACAGCCAAGGTTTC |
| *Vg-2* | qPCR | AGAGGAGAACTGGAGAACGACGAA | GCACGCAGCATATTCTGTGTAGGT |
| *Vg-3* | qPCR | ACCGCACCGAGAACTACGAACT | TGCTGTAGACGAAGGACCTGACC |
| *18S* | qPCR | GACACTGGAAGGATTGACA | TCTCGTTCGTTATCGGAATA |

Note：*18S* is referred to*18S ribosomal* RNA.