**Supplementary Table 1.** Summary statistics of the RNA-Seq data.

AMf: Abdomen mated female, AMm: Abdomen mated male, AVf: Abdomen virgin female, AVm: Abdomen virgin male, HtMf: Head and thorax mated female, HtMm: Head and thorax mated male, HtVf: Head and thorax virgin female, HtVm: head and thorax virgin male. Biological replicates: biological r. Technical replicate: T. r.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Biological r. 1 | Biological r. 2 | Biological r. 3 | All paired end reads combined | Total aligned reads | Properpairs | ProperPairs % |
| AMf | T. r. L6T. r. L7 | 69062547249598 | 68146487185088 | 64752486628909 | 41259745 | 74035957 | 64794594 | 87.52 |
|  |  |  |  |  |  |  |  |  |
| AMm | T. r. L6T. r. L7 | 68637627112715 | 63496436643406 | 65550236546782 | 40071331 | 69508946 | 58222554 | 83.76 |
|  |  |  |  |  |  |  |  |  |
| AVf | T. r. L6T. r. L7 | 65033186659580 | 65280736642122 | 66229816875429 | 39831503 | 71836804 | 63860312 | 88.9 |
|  |  |  |  |  |  |  |  |  |
| AVm | T. r. L6T. r. L7 | 70039266911455 | 73648747361914 | 65729396813858 | 42028966 | 74148542 | 61999938 | 83.62 |
|  |  |  |  |  |  |  |  |  |
| HtMf | T. r. L6T. r. L7 | 64514206633312 | 69912436900952 | 70365886966025 | 40979540 | 73989710 | 66882200 | 90.39 |
|  |  |  |  |  |  |  |  |  |
| HtMm | T. r. L6T. r. L7 | 66551246928710 | 62938526467946 | 64058236463463 | 39214918 | 71321809 | 62950272 | 88.26 |
|  |  |  |  |  |  |  |  |  |
| HtVf | T. r. L6T. r. L7 | 66295916564486 | 70410947330251 | 59886706292865 | 39846957 | 72192518 | 63351418 | 87.75 |
|  |  |  |  |  |  |  |  |  |
| HtVm | T. r. L6T. r. L7 | 66759786726276 | 70940387245756 | 67505066967604 | 41460158 | 74405209 | 65356758 | 87.84 |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| L |  |  |  |  | 59842548 | 107492355 | 91373762 | 85 |
|  |  |  |  |  |  |  |  |  |
| P |  |  |  |  | 56130084 | 99702578 | 84893062 | 85.15 |
|  |  |  |  |  |  |  |  |  |
| Adults |  |  |  |  | 51429608 | 92784802 | 78119332 | 84.19 |