|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Head | Midgut | Hindgut | Fat body | Carcass |
| 0.978287 | 5.565409 | 67.41418 | 19.96725 | 3.620755 |
| 0.511387 | 6.370702 | 51.77858 | 15.50592 | 3.495587 |
| 2 | 5.840871 | 54.70448 | 17.1121 | 3.64649 |

**Supplementary data. S2.** **Tissue distribution datas of *MpmMn-SOD.*** Adult beetles were dissected in cold 1×PBS to isolate different tissues, such as head, midgut, hindgut (containing Malpighian tubule), fat body and carcass (whole body after head, gut and fat body were removed). Translation elongation factor (*EF-α*) was used as a reference gene to normalize the target gene expression levels among samples. The relative expression of the target gene was calculated using the comparative 2-△△CT method.