**Supplementary Table 2** New designed primer sequences used for marker D1 and D2 amplification in the RT-qPCR.

| Marker | Forward primer | Reverse primer | Product Length (bp) | Contig   | Annotation                        |
|--------|----------------|----------------|---------------------|----------|-----------------------------------|
| D1     | AATCGTGGGGATGGCAAA | TGTACCCACTGCTTTCACCG | 146                 | contig3088 | ref|XP_023306098.1| probable chitinase 10 [*Lucilia cuprina*] |
| D2     | AGGCAGCTAGTGTGAAT | CCGTCAAGCTCGTTGGCTA | 175                 | contig6281 | ref|XP_023297597.1| seipin [*Lucilia cuprina*] |