

Table S1. Information of primers sequences

| Gene | Primer sequence (5'-3') | Tm (°C) | Product (bp) | Application | |
|--------------------------------|---|------------|-----------------|-------------|----------------|
| F1 | GCGGTGGGTGTTTCAGCATGG | 60 | 1579 | RACE | |
| R1 | CATGCACCCACGTGCACTGT | | | | |
| F2 | CAGAGTAGGACGTGGTTCGG | 60 | 1476 | | |
| R2 | TGTAAATCCTGGTGATAGCC | | | | |
| 3'-F | GAATCGAGACAACTACACAGCACT | 55 | 1600 | | |
| 5'-R | GACTTGAAGCCGCCACGTACATCT | 55 | 350 | | |
| ATP5E | TGAACAGTCTTCCAGCGTGC CAGGTGCACAGAAGTTCGTC | 60 | 249 | qRT-PCR | |
| SLMO2 | GAAGCCTTCAGGCAATGCAC TCGCACGTTACACAGAGGTC | 60 | 163 | | |
| TYR | TTGACAGCATTTTTGAGCGGTG CTGATGGGCTTGCTTGAGGT | 60 | 198 | | |
| EDN3 | TCAACACCCCAGAGAGGACT GCAAACGTTAAACCTTCTTCTGTC | 60 | 179 | | |
| TCONS_00070 | CGGTTAAGGCACAACCTGGAA | 60 | 176 | | |
| 905 | CTTTCCTGAGGGGCATT | | | | |
| TCONS_00072 | AGGGTGACAACAGTGGCATT | 60 | 176 | | |
| 039 | GCCGCTGTCATTAACGTAAC | | | | |
| TCONS_00054 | AGCTGAGAACTTGGCAGACC | 60 | 249 | | |
| 154 | CTGTAACGTGCCAGAAACGC | | | | |
| Gallus_gallus_n ewGene_1037 | TGAGCCCTGTGAGACATCTG TCTTGCTTGTGCCTGCATAC | 60 | 206 | | |
| Gallus_gallus_n ewGene_720 | GGCCACATCCATGCTATCTT GGCTTCTCAAAGTGCCTCAC | 60 | 212 | | |
| β-actin | TGCCAGGGTACATTGTGGTA TGCCTGACATCAAGGAGAAG | 60 | 216 | | |
| LMEP | GCTAGCGCCTTGCCCGCGGCGGTTGCG ACCGGTTTTTTTTTTTTTCTTTTCTTTG | 60 | 3150 | | Overexpression |