**Supplemental Table 1: Primer sequences for qPCR**

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| Gene  | forward sequence | reverse sequence |
| *Lhβ* | CTGTCAACGCAACTCTGG | ACAGGAGGCAAAGCAGC |
| *Gnrhr* | GCCCCTTGCTGTACAAAGC | CCGTCTGCTAGGTAGATCATCC |
| *Gapdh* | TGCACCACCAACTGCTTAG | GGATGCAGGGATGATGTTC |
| *Gr* | CAAAGCCGTTTCACTGTCC | ACAATTTCACACTGCCACC |
| *Kiss1* | CCCTTCCTCCCAGAATGATC | TCCCAGGCATTAACGAGTTC |
| *pDyn* | AGCAGTAAGCAGGTCATTCATCC | CACGCCATTCTGACTCACTTGT |
| *Tac2* | CGTGACATGCACGACTTC | CCAACAGGAGGACCTTAC |
| *Erα* | GCGCAAGTGTTACGAAGTG | TTCGGCCTTCCAAGTCATC |
| *Oprκ*  | AACCAAAGCATCTGCCAAAG | ATTTGTGGTGGGCTTAGTGG |
| *Tac3r* | TACACCATCGTTGGAATTAC | ATGTCACCACCACAATAATC |