**Additional file 4: qRT-PCR Primers Used in Diurnal Time Course Analyses**

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| Primer | Concentration | Sequence |
| An. gam: Opsin 3\_F | *175 nm* | *5’-TGAACTGTGTCGCGAATAGAA-3’* |
| An. gam: Opsin 3\_R | *175 nm* | *5’-ATCGAAGTGAGGTTCCACAAA-3’* |
| An. gam: Opsin 8\_F | *100 nm* | *5’-ATCGGGCGTACACCATTC-3’* |
| An. gam: Opsin 8\_R | *100 nm* | *5’-CGAAGGTGCAGGAGGTAAG-3’* |
| An. gam: Opsin 9\_F | *100 nm* | *5’-GTCACGATGATTGGTGCATTC-3’* |
| An. gam: Opsin 9\_R | *100 nm* | *5’-CAGACAGGACACGATCTTACAG-3’* |
| An. gam: RPS7\_F | *300 nm* | *5’-TCGCTCTTTTTCCGGGCAT-3’* |
| An. gam: RPS7\_R | *300 nm* | *5’-TTGCCGGCTTTGATCACCTT-3’* |
|  | | |
| An. steph: LW\_F | 100 nm | 5’-CCCTGTTCAGCATCATCTACTC-3’ |
| An. steph: LW\_R | 100 nm | 5’-GAGGCGACGTTCATCTTCTT-3’ |
| An. steph: SW\_F | 100 nm | 5’-CCGCCTTCACCATCTTCTT-3’ |
| An. steph: SW\_R | 100 nm | 5’-ACGAACGGTGTCAGCATC-3’ |
| An. steph: UV\_F | 100 nm | 5’-TCATCTGGGCATACACCATTC-3’ |
| An. steph: UV\_R | 100 nm | 5’-GAACGTGCCGGACAGATAG-3’ |
| An. steph: RPS7\_F | 300 nm | 5’-CCTGGATAAGAACCAGCAGAA-3’ |
| An. steph: RPS7\_R | 300 nm | 5’-GGCCAGTCAGCTTCTTGTA-3’ |

Each primer is designated as “Species Name:Target:Forward (F) or Reverse (R).” All *An. stephensi* genes are homologous to the genes listed for *An. gambiae*.