**Evidence for oscillating circadian clock genes in the copepod *Calanus finmarchicus* during summer solstice in the high Arctic**

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**Supplementary Material 3. Table S1**: Information on *C. finmarchicus* clock gene primer sequences used in this study, detailing function, direction, melting temperature (Tm), CG-content and the source transcriptome.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Target | Target (abbr.) | Function | Direction | Sequence (5’ - 3’) | Tm (˚C) | CG (%) | Source |
| *clock* | *clk* | core clock | forward | ACTCGGATTGGCTTTGATGG | 65.6 | 50.0 | comp76772 c1 seq1[5] |
| reverse | TTCTCAGGTGCAACGTTTCC | 64.7 | 50.0 |
| *cycle* | *cyc* | forward | CAGAGCAGGAAGGATAATGAGC | 63.5 | 50.0 | comp160482 c0 seq1[5] |
| reverse | TGTAAGCATTGGCACTCAGC | 63.6 | 50.0 |
| *period 1* | *per1* | forward | ACATTGTCACAAGCCCTTGG | 64.4 | 50.0 | comp171214 c0 seq1[5] |
| reverse | ACAGATGCTCCTTGTGATGC | 62.5 | 50.0 |
| *timeless* | *tim* | forward | CCTAACCTGTTACCGTTGACC | 61.8 | 52.4 | comp88114 c0 seq1[5] |
| reverse | ATCGCTCACCAATGACTTCC | 63.6 | 50.0 |
| *cryptochrome 2* | *cry2* | forward | AGCAACCACCGAATATGACC | 63.2 | 50.0 | comp181328 c0 seq1[5] |
| reverse | AACTGACCTTGTGGCATTCC | 63.5 | 50.0 |
| *vrille* | *vri* | forward | TGCAGCCTCACAACATTACC | 63.3 | 50.0 | comp71844 c0 seq1[5] |
| reverse | AAACACGCAGGGATTTCACG | 66.6 | 50.0 |
| *doubletime 2* | *dbt2* | clock associated | forward | CAATGATACAGACTGGGACTGG | 62.9 | 50.0 | comp126103 c3 seq2[5] |
| reverse | TGGTTGCATCTGACAGAACC | 63.4 | 50.0 |
| *cryptochrome 1* | *cry1* | light input pathway | forward | GGGTTTCAACTGGCTTTGG | 63.9 | 52.6 | comp37700 c0 seq1[5] |
| reverse | CCTCTCACTTACCAGAAGATGC | 61.4 | 50.0 |
| *elongation factor 1-𝛼* | *ef1* | reference | forward | AGTTGCTGGCTTGTTCTTGG | 63.8 | 50.0 | comp8 c1 seq1[6] |
| reverse | GGTTAAGTCCGTGGAGATGC | 63.0 | 55.0 |
| *RNA polymerase* | *rna-poly* | forward | TCAATGACGAGGTTCTCAGG | 62.5 | 50.0 | comp19535 c1 seq1[6] |
| reverse | ATCAACTGTTGCCACTCTCG | 62.5 | 50.0 |
| *16s rRNA* | *16s* | forward | CCGCGTTAGTGTTAAGGTAGC | 62.1 | 52.4 | comp2 c0 seq1[6] |
| reverse | CTTCTCGTCCTAGTACAACTGC | 59.3 | 50.0 |