**Table S4**: Known zebrafishclock-controlled genes that are considered to form accessory loops of the molecular circadian oscillator. The temporal pattern of each gene, as determined usingRNA-seq, is compared to previously reported experimental data.

|  |  |  |  |
| --- | --- | --- | --- |
| Previously reported experimental data |  | RNA-seq of the pineal gland | Clock controlled genes |
| References | Tissue |  | Expression peak |  | Expression peak | Temporal pattern |
| [1] | Muscle | CT6 (DD) |  | Not identified | Not identified | *roraa* |
| [1] | Muscle | CT22 (DD) |  | CT2 | Circadian | *rorab* |
|  |  | Not reported |  | CT6-CT10 | Circadian | *rorca* |
| [1] | Muscle | CT22 (DD) |  | CT22 | Circadian | *nr1d1 (reverba)* |
| [1] | Muscle | CT22 (DD) |  | Not identified | Not identified | *nr1d2a (reverbb1)* |
| [1] | Muscle | CT22-CT2 (DD) |  | CT22-CT2 | Circadian1 | *nr1d2b (reverbb2)*  |
|  |  | Not reported |  | CT10 | Circadian | *nfil3 (e4pb4)* |
| [2] | Embryos pineal gland  | CT10-CT18 (DD) |  | CT10 | Circadian | *nfil3-2 (e4pb4-2)* |
| [2] | Embryos pineal gland  | CT10-CT14 (DD) |  | CT10 | Circadian1 | *nfil35 (e4pb4-5)*  |
| [2] | Embryos pineal gland | CT2 (LD) |  | CT6 | Circadian | *nfil3-6 (e4pb4-5)* |
| [2] | Embryos pineal gland  | CT22 (DD) |  | CT22 | Circadian1 | *dbpa* |
| [2] | Embryos pineal gland | CT22 (DD) |  | CT22 | Circadian | *dbpb* |
| [3] | BRF41 cells | CT2-CT6 (DD) |  | CT22 | Circadian1 | *bhlhe40 (dec1)* |
| [3] | BRF41 cells | CT22-CT2 (DD) |  | CT22 | Circadian1 | *bhlhe41 (dec2)* |

1These genes were also identified using the DNA microarray data

References:

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3. Abe T, Ishikawa T, Masuda T, Mizusawa K, Tsukamoto T, et al. (2006) Molecular analysis of Dec1 and Dec2 in the peripheral circadian clock of zebrafish photosensitive cells. BiochemBiophys Res Commun 351: 1072–1077.