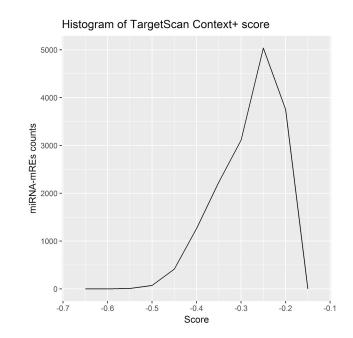
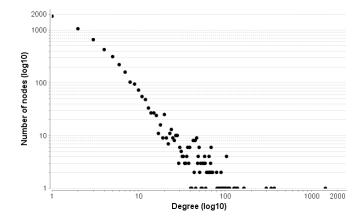
Supplementary Figure S1. Distribution of TargetScan Context+ scores of predicted miRNA interactions. Context+ Scores of miRNAs interactions from Nile Tilapia were obtained by TargetScan v6.0 using data from Ensembl database v.79 and miRNAs identified in Pinhal and Bovolenta et al. (Pinhal and Bovolenta et al., 2018).



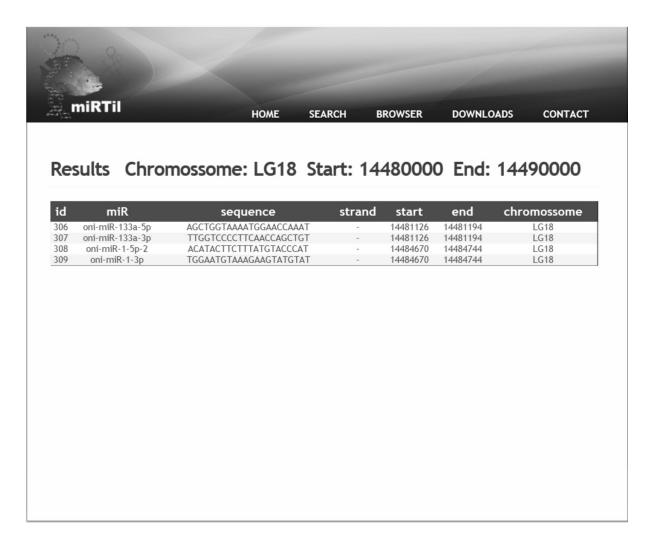
Supplementary. Figure S2. Degree distribution of nodes from predicted Nile tilapia miRNA-mRNA interactions network. The degree distribution is the probability distribution of the number of connections nodes has to other nodes over the whole network.



Supplementary Figure S3. Example of the genomic location search mechanism in advanced search page. Users could retrieve miRNA genes using genomic window through correspondent scaffold or LG from Nile Tilapia genome and the range of start-end coordinates.



Supplementary Figure S4. Simple miRNA information resulted from the Genome location search mechanism. Page containing summarized miRNA information, such as miRNA ID, symbol and mature sequence as well as details on the genomic location, in this example to oni-mir-133a-1 and oni-mir-1-1.



Supplementary Figure S5. Example of sample search mechanism on the advanced search page. Users can retrieve miRNA genes expressed in 16 samples selecting the tissue or developmental stage, gender (male, female or sex mixed, described as "pool") and age of individuals.



Supplementary Figure S6. miRNA information obtained by sample search mechanism. Page containing summarized miRNA information, such as miRNA ID, symbol and mature sequence as well as genomic location, in this example are partially listed 42 miRNAs expressed on male white skeletal muscle of Nile tilapia adults.



Supplementary Figure S7. Case study of miRNA with multiples samples or predicted targets detected. (A) Experimental details containing several miRNA expression evidence in multiple samples; (B) Regulatory details showing multiple computational predictions of miRNA-mRNA interactions using TargetScan v6.0.

