**Table S1.** Primers sequences for qRT-PCR analysis used in this study.

<table>
<thead>
<tr>
<th>Gene Name</th>
<th>GeneBank NO.</th>
<th>Recognizing duplicated genes</th>
<th>Sequence 5'-&gt;3'</th>
</tr>
</thead>
</table>
| tuba 1    | AF029250     | Yes                           | F: CCTGCTGGGAACCTGATTGT  
R: TCAATGAGTTCCCCTGGCAAAT  |
| actb1 a   | NM_131031    | Yes                           | F: TCTCTTTAGTGCAAACCCCC  
R: TCTGAGCCTCATCAAACCGG     |
| acc 2     | NM_001271308.1| no                            | F: GCAGTGGCGAAATGCAG  
R: GCAGGTCAGCTCCTCGG         |
| cpt1 2    | NM_001044854 | no                            | F: CACCTTTAGCTCTTCTCATAA  
R: ACCATGACACCCCCCACTAACAT   |
| dio1 3    | BC076008     | no                            | F: TCCTCCTGCTCCTCGTACGT  
R: AGCAAGCCCTCCTCCAGG        |
| dio2 4    | NM_212789    | no                            | F: TTCTCCTTGCCTCCTCAGGT  
R: AGCCACCTCCGAACATCTTT      |
| dio3b 5   | NM_001177935 | no                            | F: TCCTGACCGCCCTCTTCTAGAC  
R: TGCCGCTCCTCGATGAC         |
| fasn 2    | XM_009306806.1| no                            | F: GGAGCAGGTGCTCTGTGCG  
R: TTGGCGCCCTTCCCAGCC        |
| igf2p1a 6 | KT023301     | no                            | F: AACCGGATACGCAAAGAAACT  
R: CGCAGTCTGGCAGGTAAGAAT     |
| nkk2.4b 7 | NM_131589    | no                            | F: GGTGCAATGGGAGCCCTGCC  
R: CCTGGGAGATTGTTGGGATCTCAGGC |
| pax8 a    | XM_001339857 | no                            | F: TCTCCTGCGGCTATGGGCGAGGT  
R: CCGGGTTTGGCAGGTCCTGCC     |
| pparab 10 | NM_001102567 | no                            | F: CGTGGTCAGGTTTTACGAAGGT  
R: AGGCACTCTGGGAAATGACCAA    |
<p>| pparc 10  | DQ839547     | no                            | F: GGTTCATTACGGCGGTTCAC    |</p>
<table>
<thead>
<tr>
<th>Gene</th>
<th>Accession</th>
<th>Splice</th>
<th>F</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>slc5a5*</td>
<td>NM_001089391</td>
<td>no</td>
<td>F: GGTGGCAGTGAAGGCTGTAAT</td>
<td>R: GCCTGATTGGCTCCATACAT</td>
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<tr>
<td>tlg</td>
<td>NM_001329865</td>
<td>no</td>
<td>F: AGTCTGGAAACCCCAACCTG</td>
<td>R: CTTTATAGGCCCGTCCAACCC</td>
</tr>
<tr>
<td>thraa</td>
<td>NM 131396</td>
<td>no</td>
<td>F: CAATGTACCATTTCGCGTTG</td>
<td>R: GCTCCTGCTCTGTGTTTTC</td>
</tr>
<tr>
<td>thrb</td>
<td>NM_131340</td>
<td>no</td>
<td>F: TGGGAGATGATACGGGTTGT</td>
<td>R: ATAGGTGCGGATCCAATGTC</td>
</tr>
<tr>
<td>infa</td>
<td>AY427649</td>
<td>no</td>
<td>F: GCTTTATAGCCATGCAGTTGA</td>
<td>R: TGCCCGTCTGGTCTCTTCTT</td>
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<tr>
<td>tpo</td>
<td>XM_692744</td>
<td>no</td>
<td>F: AC GGACGAAGAATACCGCAG</td>
<td>R: AGGAAGTTGGAAGCCGTGT</td>
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<td>trh</td>
<td>NM_001012365.2</td>
<td>no</td>
<td>F: CCGTCGCTGCTGTTGAAAG</td>
<td>R: GC AAAAGTGCGAGATCGGT</td>
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<tr>
<td>tshr</td>
<td>NM_181494</td>
<td>no</td>
<td>F: AACACCACCATCTGCAAGGCT</td>
<td>R: GGCAAGACGGCTGTCGGTA</td>
</tr>
<tr>
<td>ttr</td>
<td>BC081488</td>
<td>no</td>
<td>F: CCGGTGGAGTTTGCACACTTT</td>
<td>R: GCTCAGAAAGGAGACCGAGTA</td>
</tr>
<tr>
<td>ugt1ab*</td>
<td>NM 2213422.2</td>
<td>Yes</td>
<td>F: CCACCAAGTTCTTCCGTGT</td>
<td>R: GCAGTCCCTCACAGGCTTTC</td>
</tr>
</tbody>
</table>

- Primers of which reference was not denoted were designed using Primer design tool from NCBI. ([https://www.ncbi.nlm.nih.gov/tools/primer-blast/](https://www.ncbi.nlm.nih.gov/tools/primer-blast/))


