**Table S1**: List of commercial TaqMan® assays used for gene analyses.

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| ***Gene*** | ***Assay ID*** |
| ribosomal 18S (*Rn18s*) | Mm04277571\_s1 |
| hypoxanthine guanine phosphoribosyl transferase (*Hprt*) | Mm03024075\_m1 |
| peroxisome proliferator-activated receptor alpha (*Ppara*) | Mm00440939\_m1 |
| cluster of differentiation 36 (*Cd36*) | Mm00432403\_m1 |
| carnitine palmitoyltransferase I alpha (*Cpt1a*) | Mm01231183\_m1 |
| carnitine palmitoyltransferase I beta (*Cpt1b)* | Mm00487191\_g1 |
| long-chain acyl-CoA dehydrogenase (*Acadl*) | Mm00599660\_m1 |
| hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (*Hadha*) | Mm00805228\_m1 |
| 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (*Hmgcs2*) | Mm00550050\_m1 |
| patatin-like phospholipase domain containing 2 (*Pnpla2*) | Mm00503040\_m1 |
| F-box protein 32 (*Fbxo32*) | Mm00499523\_m1 |
| tripartite motif-containing 63 (*Trim63*) | Mm01185221\_m1 |
| monocarboxylate transporter 1 (*Mct1*) | Mm01306379\_m1 |
| monocarboxylate transporter 2 (*Mct2*) | Mm00441442\_m1 |
| 3-oxoacid CoA-transferase 1 (*Oxct1*) | Mm00499303\_m1 |
| autophagy related gene 5 (*Atg5*) | Mm01187303\_m1 |
| autophagy related gene 7 (*Atg7*) | Mm00512209\_m1 |
| sequestosome 1 (*Sqstm1*) | Mm00448091\_m1 |
| tumor necrosis factor (*Tnf*) | Mm00443258\_m1 |
| interleukin 1 beta (*Il1b*) | Mm00434228\_m1 |
| NLR family, pyrin domain containing 3 (*Nlrp3*) | Mm00840904\_m1 |
| actin, beta (*Actb*) | Mm02619580\_g1 |
| myogenic differentiation 1 (*Myod1*) | Mm00440387\_m1 |
| myogenin (*Myog*) | Mm00446194\_m1 |
| myostatin (*Mstn*) | Mm01254559\_m1 |
| myogenic factor 5 (*Myf5*) | Mm00435125\_m1 |
| proliferating cell nuclear antigen (*Pcna*) | Mm00448100\_g1 |
| cholinergic receptor, nicotinic, alpha 1 polypeptide (*Chrna1*) | Mm00431629\_m1 |
| cholinergic receptor, nicotinic, gamma polypeptide (*Chrng*) | Mm00437419\_m1 |
| cholinergic receptor, nicotinic, epsilon polypeptide (*Chrne*) | Mm00437411\_m1 |
| histone deacetylase 4 (*Hdac4*) | Mm01299557\_m1 |
| histone deacetylase 5 (*Hdac5*) | Mm01246076\_m1 |
| myocyte enhancer factor 2C (*Mef2c*) | Mm01340842\_m1 |