

| Gene Name  | Gene Symbol    | Assay ID      |
|--|----------------|---------------|
| Carnitine Palmitoyltransferase 1A  | CPT1A          | Hs00157079_m1 |
| Succinate Dehydrogenase Complex Flavoprotein Subunit A                   | SDHA           | HS00188166_m1 |
| Succinate Dehydrogenase Complex Flavoprotein Subunit B                   | SDHB           | Hs01042482_m1 |
| Succinate Dehydrogenase Complex Flavoprotein Subunit C                   | SDHC           | Hs00818427_m1 |
| ATP - Citrate Lyase  | ACLY           | Hs00982738_m1 |
| Nicotinamide Phosphoribosyltransferase                                   | NAMPT          | Hs00237184_m1 |
| Nuclear Respiratory Factor 1   | NRF1           | Hs00602161_m1 |
| Transcription Factor A Mitochondrial                                     | TFAM           | Hs01082775_m1 |
| Uncoupling Protein 3   | UCP3           | Hs01106052_m1 |
| Peroxisome Proliferative Activated Receptor, Gamma, Coactivator 1, Alpha | PGC 1 $\alpha$ | Hs00173304_m1 |
| Sirtuin 1  | SIRT1          | Hs01009005_m1 |
| Sirtuin 2  | SIRT2          | Hs00247263_m1 |
| Mechanistic Target Of Rapamycin  | mTOR           | Hs00234508_m1 |
| Akt Serine/Threonine Kinase 1  | AKT1           | Hs00178289_m1 |
| Akt Serine/Threonine Kinase 2  | AKT2           | Hs01086102_m1 |
| Akt Serine/Threonine Kinase 3  | AKT3           | Hs00178533_m1 |
| Beta-2-Microglobulin   | B2M            | Hs99999907_m1 |
| Hypoxanthine Phosphoribosyltransferase 1                                 | HPRT1          | Hs02800695_m1 |

**Supplemental table 2.** The list of TaqMan assays used for gene expression analysis by real-time quantitative PCR