**Mitochondrial biogenesis is decreased in skeletal muscle of pig fetuses exposed to maternal high-energy diets**

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**Supplementary Table S1.** *Primer sequences for quantitative real-time RT-PCR*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gene1 | | Primer sequence (5'–3') | | | | | Product size (bp) | | | | | | GeneBank No. |
| PGC-1α | | F: CCCGAAACAGTAGCAGAGACAAG  R: CTGGGGTCAGAGGAAGAGATAAAG | | | | | | 111 | | | | NM\_213963 | |
| SIRT1 | | | F: TGACTGTGAAGCTGTACGAGGAG  R: TGGCTCTATGAAACTGCTCTGG | | | | | 143 | | | | EU030283.2 | |
| NRF-1 | | F: GCCAGTGAGATGAAGAGAAACG  R: CTACAGCAGGGACCAAAGTTCAC | | | | | | | 166 | | | AK237171.1 | |
| Tfam | | | | | F: GGTCCATCACAGGTAAAGCTGAA  R: ATAAGATCGTTTCGCCCAACTTC | | | | 167 | | | NM\_001130211 | | |
| β-F1-ATPae | | | | | F: CATGAAGCAGGTGGCAGGTA | | | | 127 | | | NM\_001185142 | | | |
|  | R: CAGACGAACACCACGACTCA | | | | | | | |  | | |  | |
| POLG | | | | F: CTTTGAGGTTTTCCAGCAGCAG | | | | | 119 | | | XM\_005653521.1 | | | | | |
|  | | | | R: GCTCCCAGTTTTGGTTGACAG | | | | |  | | |  | |
| SSBP1 | | | | F: CTTTGAGGTAGTGCTGTGTCG | | | | | 142 | | | XM\_005673118.1 | | | | |
|  | | | | R: CTCACCCCTGACGATGAAGAC | | | | |  | | |  | |
| COX4 | | | | F: CCAAGTGGGACTACGACAAGAAC | | | | | 131 | | | Liu et al.2 | |
|  | | | | R: CCTGCTCGTTTATTAGCACTGG | | | | |  | | |  | |
| Cyt c | | | | F: TAGAAAAGGGAGGCAAACACAAG | | | | | 154 | | | Liu et al.2 | |
|  | | | | R: GGATTCTCCAGGTACTCCATCAG | | | | |  | | |  | |
| CS | | | | F: CCTTTCAGACCCCTACTTGTCCT | | 127 | | | | | | Liu et al.2 | |
|  | | | | R: CACATCTTTGCCGACTTCCTTC | |  | | | | | |  | |
| β-actin | | | | F: TCTGGCACCACACCTTCT | | 114 | | | | | | DQ178122 | |
|  | | | | R: TGATCTGGGTCATCTTCTCAC | | | | |  | | |  | |
| Cyt B | | | | F:ATGAAACATTGGAGTAGTCCTACTATTTACC  R: CTACGAGGTCTGTTCCGATATAAGG | | | | | | | 149 | NC\_000845.1 | |
| 18S rRNA | | | | F: GGTAGTGACGAAAAATAACAATACAGGAC | | | | | | 141 | | NC\_010448.3 | |
|  | | | | R: ATACGCTATTGGAGCTGGAATTACC | | | | |  | | |  | |

1Gene abbreviations: COX = cytochrome c oxidase; CS = citrate synthase; Cyt B = cytochrome b; Cyt c = cytochrome c; β-F1-ATPae = β subunit of mitochondrial H+-ATP synthase; NRF-1 = nuclear respiratory factor-1; PGC-1α = PPARγ coactivator-1α; POLG = gamma DNA polymerase; SIRT-1 = sirtuin; SSBP1 = mitochondrial single-strand DNA-binding protein; Tfam = mitochondrial transcription factor A;

2The primers were used as described previously (Liu *et al.*, 2012)