

Supplemental Table S1: Immunoassay information for blood and serum chemistry, muscle adenosine triphosphate content as well as muscle and adipose tissue protein analysis.

Blood & Serum chemistry

BUN and creatinine

Assay information

VetScan Comprehensive Diagnostic Profile, Abaxix, 500-0038
<https://www2.zoetisus.com/content/assets/docs/Diagnostics/package-inserts/VETSCAN-Comprehensive-Diagnostic-Profile-Package-Insert-LBL-02422.pdf>

Muscle & Adipose tissue

ATP Assay Kit (Colorimetric/Fluorometric)
HSL (phosphor Ser552) Cell based ELISA kit
Human Growth Hormone ELISA Kit
JAK2 (phosphor-Tyr221) ELISA kits
JAK2 ELISA kits
Mouse Adipose Triglyceride Lipase, ELISA Kit
Mouse Hormone Sensitive Lipase, ELISA kit
Mouse STAT5, ELISA kits
Phosphotyrosine STAT5, ELISA kits
UCP1 ELISA kits
UCP3 ELISA kits

Assay information

Abcam, ab83355
antibodies.com, A102387
Abcam, ab190811
Assaybiotech, CytoGlow™, CBP1593
Antibodies-online.com, ABIN5674893
MyoBioSource.com, MBS750961
MyoBioSource.com, MBS720763
MyoBioSource.com, MBS9354254
RayBiotech, PEL-Stat5-Y-1
Aviva Systems Biology, OKCD02970
Aviva Systems Biology, OKEH05259

Supplemental Table S2: PCR primer information

<u>Gene</u>	<u>Forward primer sequence</u>	<u>Reverse primer sequence</u>
<i>Atf3</i>	GAGGATTTTGCTAACCTGACACC	TTGACGGTAACTGACTCCAGC
<i>Atgl</i>	GGATGGCGGCATTTCAGACA	CAAAGGGTTGGGTTGGTTCAG
<i>Atf2a2</i>	GAGAACGCTCACACAAAGACC	CAATTCGTTGGAGCCCCAT
<i>Atrogin-1</i>	CAGCTTCGTGAGCGACCTC	GGCAGTCGAGAAGTCCAGTC
<i>Cidea</i>	TGACATTCATGGGATTGCAGAC	GGCCAGTTGTGATGACTAAGAC
<i>CD137</i>	CGTGCGAAGCTCCTGTGATAAC	GTCCACCTATGCTGGAGAAGG
<i>Csrp3</i>	GGGGGAGGTGCAAAATGTG	CAGGCCATGCAGTGGAACA
<i>Cyfp2</i>	ATGACCACCCACGTCACTTGT	CCTGTCTCGAAGTTCGTGTC
<i>Cox2</i>	AACCCAGGGGATCGAGTGT	CGCAGCTCAGTGTGTTGGAT
<i>Fhl1</i>	GACTGCCGCAAGCCATAA	CCAAGGGGTGAAGGCACTT
<i>Fos</i>	TTGAGCGATCATCCCGGTC	GCGTGAGTCCATACTGGCAAG
<i>Hsl</i>	CCAGCCTGAGGGCTTACTG	CTCCATTGACTGTGACATCTCG
<i>Gng2</i>	ACCGCCAGCATAGCACAG	AGTAGGCCATCAAGTCAGCAG
<i>IGF-I</i>	GTGGGGGCTCGTGTCTCTC	GATCACCGTGCAGTTTTCCA
<i>IL1b</i>	GCAACTGTTCTGAACTCAACT	ATCTTTTGGGGTCCGTCAACT
<i>Il6</i>	TAGTCCTTCTACCCCAATTTCC	TTGGTCTTAGCCACTCCTTC
<i>Itpr1</i>	CGTTTTGAGTTTGAAGGCGTTT	CATCTTGCGCCAATCCCCG
<i>Maff</i>	AGGAGGAGGTCATCCGACTG	CTTCTCGCTCTCCAGAATGTG
<i>Murf-1</i>	GTGTGAGGTGCCTACTTGCTC	GCTCAGTCTTCTGTCTTGGA
<i>Myd88</i>	TCATGTTCTCCATACCCTTGGT	AAACTGCGAGTGGGGTCAG
<i>Myl2</i>	ATCGACAAGAATGACCTAAGGGA	ATTTTTCACGTTCACTCGTCCT
<i>Myod</i>	CCACTCCGGGACATAGACTTG	AAAAGCGCAGGTCTGGTGAG
<i>Myogenin</i>	GAGACATCCCCCTATTCTACCA	GCTCAGTCCGCTCATAGCC
<i>Myostatin</i>	AGTGGATCTAAATGAGGGCAGT	GTTTCCAGGCGCAGCTTAC
<i>Pax7</i>	TCTCCAAGATTCTGTGCCGAT	CGGGGTCTCTCTTTATACTCC
<i>Pgc1α</i>	TATGGAGTGACATAGAGTGTGCT	CAGGAGTTGATTCCAGACAGGTA
<i>Pgf2a</i>	CTGGACTCATCGAAACACAA	AGGAAGCCTTTGACTTCTGTCTA
<i>Prdm16</i>	CCCCACATTCCGCTGTGAT	CTCGCAATCCTTGCACTCA
<i>Socs-2</i>	GCGCGTCTGGCGAAAGCCCT	GAAAGTTCCTTCTGGAGCCTCTT
<i>Tbx-1</i>	CTGTGGGACGAGTTCAATCAG	TTGTCATCTACGGGCACAAAG
<i>Tlr2</i>	GCAAACGCTGTTCTGCTCAG	AGGCGTCTCCCTCTATTGTATT
<i>Tmem26</i>	TTCCTGTTGCATTCCCTGGTC	GCCGGAGAAAGCCATTGT
<i>Tnfa</i>	CCCTCACACTCAGATCATCTTCT	GCTACGACGTGGGCTACAG
<i>Tnnc1</i>	GCGGTAGAACAGTTGACAGAG	CCAGCTCCTGGTGCTGAT
<i>Tpm3</i>	ACCACCATCGAGGCGGTAA	CCCTTCTCCGCATCATCA
<i>Traf6</i>	AAAGCGAGAGATTCTTCCCTG	ACTGGGGACAATCACTAGAGC
<i>Gapdh</i> (internal control)	AGGTCGGTGTGAACGATTTG	TGTAGACCATGTAGTTGAGGTCA