

Supplemental data

Article

Leptin receptor antagonist attenuates adipose tissue browning and muscle wasting in infantile nephropathic cystinosis-associated cachexia

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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

Bicarbonate & BUN

Creatinine

Leptin

Assay information

VetScan Comprehensive Diagnostic Profile, Abaxis, 500-0038

LC-MS/MS method (reference)

Invitrogen, Mouse Leptin ELISA kit, catalog number KMC 2281

Muscle & adipose tissue

ATP Assay Kit

(Colorimetric / Fluorometric)

Mouse UCP1 ELISA kits

Mouse UCP3 ELISA kits

Assay information

Abcam, ab83355

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>
Ankrd2	TGGACATGCTAGTGCTAGAGG	CGCTTTTCTGCTTGCGTTT
Atf3	GAGGATTTTGCTAACCTGACACC	TTGACGGTAACTGACTCCAGC
Atrogin-1	CAGCTTCGTGAGCGACCTC	GGCAGTCGAGAAGTCCAGTC
Cidea	TGACATTCATGGGATTGCAGAC	GGCCAGTTGTGATGACTAAGAC
CD137	CGTGCGAACTCCTGTGATAAC	GTCCACCTATGCTGGAGAAGG
Cox2	AACCCAGGGGATCGAGTGT	CGCAGCTCAGTGTTTGGGAT
Csrp3	GGGGGAGGTGCAAAATGTG	CAGGCCATGCAGTGGAACA
Cyfp2	ATGACCACCCACGTCACTTTG	CCTGTCCTCGAAGTTCGTGTC
Fhl1	GACTGCCGCAAGCCCATAA	CCAAGGGGTGAAGGCACTT
Fos	TTGAGCGATCATCCCGGTC	GCGTGAGTCCATACTGGCAAG
IL-1 β	GCAACTGTTCTGAACTCAACT	ATCTTTTGGGGTCCGTCAACT
IL-6	TAGTCCTTCTACCCCAATTTCC	TTGGTCCTTAGCCACTCCTTC
Ly6a	AGGAGGCAGCAGTTATTGTGG	CGTTGACCTTAGTACCCAGGA
Mup1	GAAGCTAGTTCTACGGGAAGGA	AGGCCAGGATAATAGTATGCCA
Murf-1	GTGTGAGGTGCCTACTTGCTC	GCTCAGTCTTCTGTCCTTGGA
MyD88	TCATGTTCTCCATACCCTTGGT	AAACTGCGAGTGGGGTCAG
Myl2	ATCGACAAGAATGACCTAAGGGA	ATTTTTCACGTTCACTCGTCCT
Myl3	TGGGGAAGCCAAAACAGGAAG	AGCCATCAGTTTCTCTACCTCA
MyoD	CCACTCCGGGACATAGACTTG	AAAAGCGCAGGTCTGGTGAG
Myogenin	GAGACATCCCCCTATTTCTACCA	GCTCAGTCCGCTCATAGCC
Myostatin	AGTGGATCTAAATGAGGGCAGT	GTTTCCAGGCGCAGCTTAC
Pax7	TCTCCAAGATTCTGTGCCGAT	CGGGGTCTCTCTTATACTCC
PDK4	AGGGAGGTCGAGCTGTTCTC	GGAGTGTTCACTAAGCGGTCA
Pgf2 α synthase	CTGGACTCATCGAAACACAA	AGGAAGCCTTTGACTTCTGTCTA
Sell	TACATTGCCAAAAGCCCTTAT	CATCGTTCCATTTCCAGAGTC
Sln	CTTGGGTGGATACCACGTCTG	CTTCTGTCTTACAGCCATAGCC
Sncg	AAAGACCAAGCAGGGAGTAACG	GACCACGATGTTTTCAGCCTC
Spp1	AGGAAGAAGTAGGCATTTCTGGT	TCGGCTCTGCAATGTTGTCTG
Tbc1d1	TTCCTGGGGGTGAGTCTCAG	GCAGGGCATTACGGTAGGAG
Tlr2	GCAAACGCTGTTCTGCTCAG	AGGCGTCTCCCTCTATTGTATT
Tmem26	TTCCTGTTGCATTCCCTGGTC	GCCGGAGAAAGCCATTTGT
TNF- α	CCCTCAGCTCAGATCATCTTCT	GCTACGACGTGGGCTACAG
Tnnc1	GCGGTAGAACAGTTGACAGAG	CCAGCTCCTTGGTGCTGAT
Tnni1	ATGCCGGAAGTTGAGAGGAAA	TCCGAGAGGTAACGCACCTT
Tpm3	ACCACCATCGAGGCGGTAA	CCCTTTCCTCCGCATCATCA
Traf6	AAAGCGAGAGATTCTTCCCTG	ACTGGGGACAATTCAGTAGAGC
Gapdh (internal control)	AGGTCGGTGTGAACGGATTG	TGTAGACCATGTAGTTGAGGTCA