# SUPPLEMENTARY MATERIAL

## Supplementary Figure 1

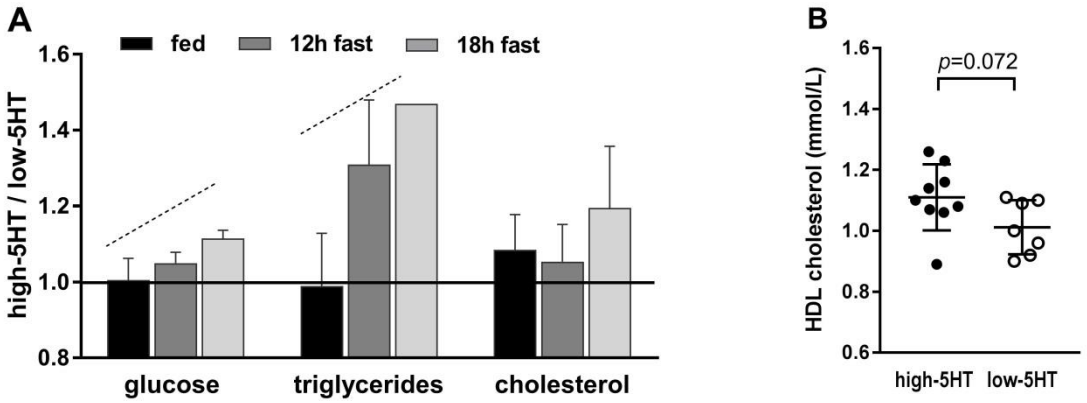


**Figure S1. (A)** Ratio of blood metabolic parameters between high-5HT and low-5HT subline (H/L) in relation to feeding status of animals. Data represent means ± SD of 2-4 experiments, each with 6-9 animals per subline (except triglycerides 18h fast). **(B)** Serum high-density lipoprotein (HDL) cholesterol levels in high-5HT and low-5HT subline (for total cholesterol levels in the same animals see Figure 2 in the main text). Data are given as individual values and mean ± SD, with *p*-values indicated.

## Supplementary Figure 2

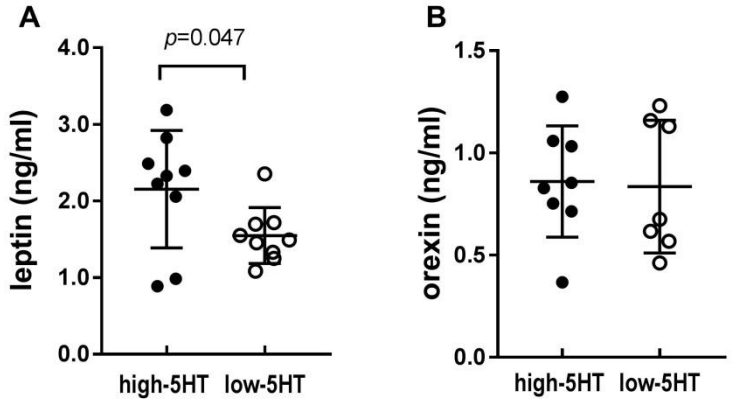


**Figure S2**. Plasma levels of **(A)** leptin and **(B)** orexin in male high-5HT and low-5HT rats measured in fed state of the animals. Data are presented as individual values and mean ± SD. n=7-9 per group, *p*-values are indicated.

## Supplementary Figure 3

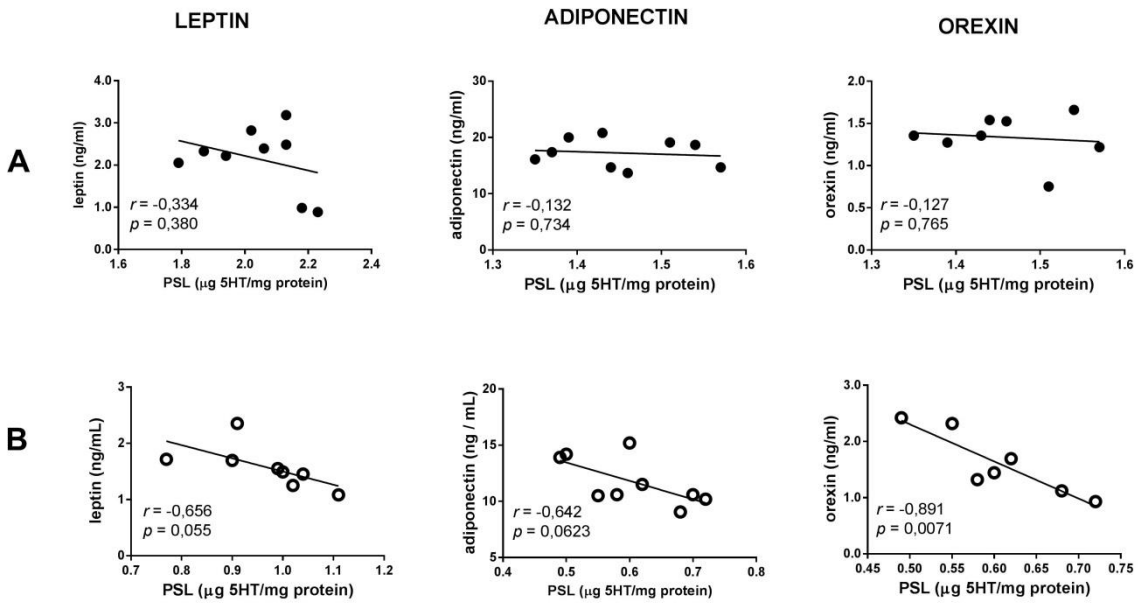


**Figure S3.** Relationship between platelet serotonin level (PSL) and plasma levels of adipokines: leptin (left), adiponectin (middle) and orexin (right) in (A) high-5HT animals and (B) low-5HT animals. *r*= correlation coefficient, *p*-values are indicated. Negative correlations (significant or trend) were observed only in animals from low-5HT subline.

## Supplementary Figure 4

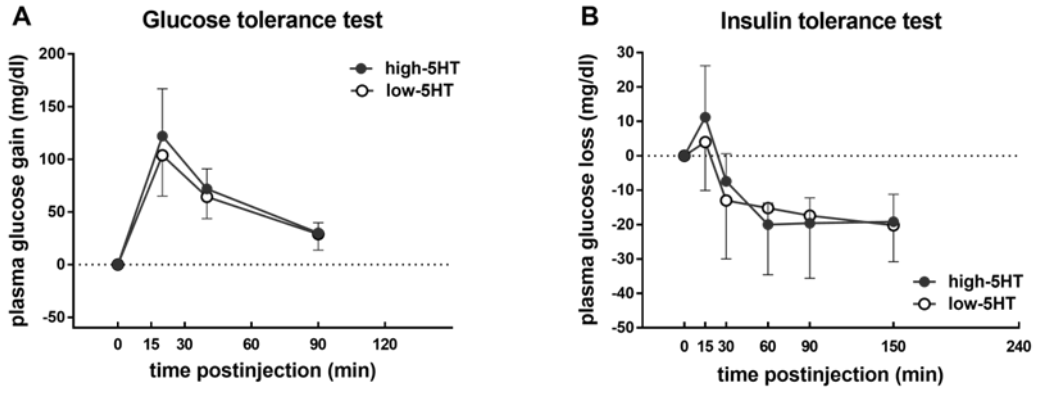


**Figure S4. (A)** Time course of plasma glucose gain following glucose administration to 2-months old animals from high-5HT and low-5HT sublines subjected to overnight fasting. Presented are means ± SD in groups of 8-9 animals per subline. **(B)** Time course of plasma glucose loss following insulin administration in the same groups of animals as above, after 4 hours fasting. Insulin tolerance test was performed 48 hours after glucose tolerance test. No differences in glucose and insulin tolerance were observed between 5HT sublines.

**Supplementary Figure 5**

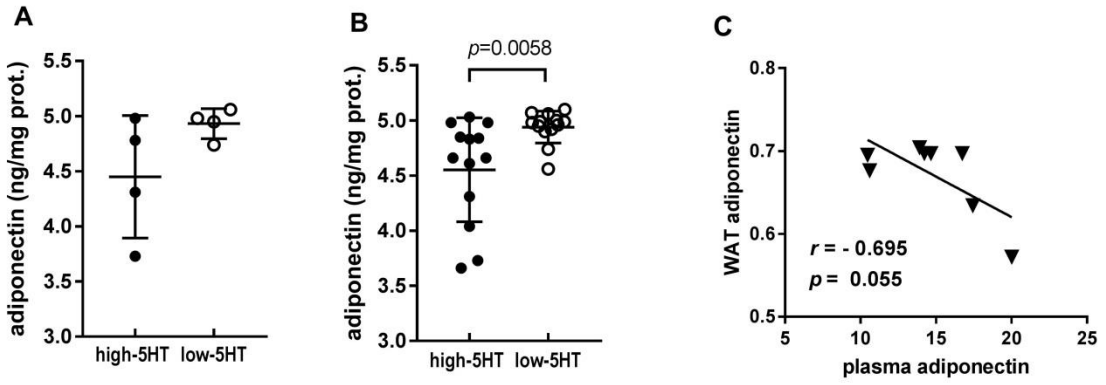


**Figure S5. (A)** Adiponectin concentration in white adipose tissue (WAT) of high-5HT and low-5HT animals aging 9.5 months and **(B)** pooled values of adiponectin levels measured in animals aged 9.5-months (n, 4 per subline, data from Figure S5A) and 4.5-months (n, 9 per subline, data from Figure 5A in the main text). Data are individual values with indicated mean ± SD, *p*-values are indicated. **(C)** Correlation of adiponectin levels in plasma and white adipose tissue (log transformed values). n=4 animals per subline, *r*=correlation coefficient.

## Supplementary Table 1

**Table S1.** List of genes analysed in visceral white adipose tissue of animals from WZ-5HT sublines using the Rat Adipogenesis RT$^2$ Profiler PCR Array. Cq = quantification cycle; RER (H/L) = relative expression ratio (high-5HT/low-5HT subline).

| Symbol of Gene | Description | Quantification cycle (Cq) | | RER (H/L) |
|---|---|---|---|---|
| | | high-5HT | low-5HT | |
| Acacb | Acetyl-Coenzyme A carboxylase beta | 28.01 | 28.12 | 0.98 |
| Adipoq | Adiponectin, C1Q and collagen domain containing | 15.98 | 16.84 | 1.65 |
| Adrb2 | Adrenergic, beta-2-, receptor, surface | 26.03 | 25.71 | 0.73 |
| Agt | Angiotensinogen (serpin peptidase inhibitor, clade A, member 8) | 22.06 | 21.72 | 0.72 |
| Angpt2 | Angiopoietin 2 | 25.08 | 24.89 | 0.80 |
| Axin1 | Axin 1 | 26.50 | 26.47 | 0.89 |
| Bmp2 | Bone morphogenetic protein 2 | 27.20 | 27.61 | 1.20 |
| Bmp4 | Bone morphogenetic protein 4 | 25.13 | 25.30 | 1.02 |
| Bmp7 | Bone morphogenetic protein 7 | 28.65 | 28.72 | 0.95 |
| Ccnd1 | Cyclin D1 | 25.31 | 24.88 | 0.67 |
| Cdk4 | Cyclin-dependent kinase 4 | 24.36 | 24.24 | 0.84 |
| Cdkn1a | Cyclin-dependent kinase inhibitor 1A | 25.71 | 26.06 | 1.16 |
| Cdkn1b | Cyclin-dependent kinase inhibitor 1B | 27.53 | 27.23 | 0.74 |
| Cebpa | CCAAT/enhancer binding protein (C/EBP), alpha | 23,38 | 24.03 | 1.42 |
| Cebpb | CCAAT/enhancer binding protein (C/EBP), beta | 21.57 | 22.10 | 1.31 |
| Cebpd | CCAAT/enhancer binding protein (C/EBP), delta | 26.75 | 26.19 | 0.61 |
| Cfd | Complement factor D (adipsin) | 16.42 | 16.95 | 1.32 |
| Creb1 | CAMP responsive element binding protein 1 | 25.53 | 25.41 | 0.84 |
| Ddit3 | DNA-damage inducible transcript 3 | 23.58 | 24.15 | 1.35 |
| Dio2 | Deiodinase, iodothyronine, type II | 30.55 | 31.92 | n/a |
| Dkk1 | Dickkopf homolog 1 (Xenopus laevis) | 35.36 | 39.41 | n/a |
| Dlk1 | Delta-like 1 homolog (Drosophila) | 29.56 | 31.37 | n/a |
| E2f1 | E2F transcription factor 1 | 27.18 | 27.59 | 1.21 |
| Egr2 | Early growth response 2 | 30.18 | 28.74 | n/a |
| Fabp4 | Fatty acid binding protein 4, adipocyte | 15.13 | 16.17 | 1.87 |
| Fasn | Fatty acid synthase | 20.01 | 20.77 | 1.54 |
| Fgf1 | Fibroblast growth factor 1 | 23.60 | 23.89 | 1.11 |
| Fgf10 | Fibroblast growth factor 10 | 26.44 | 27.08 | 1.41 |
| Fgf2 | Fibroblast growth factor 2 | 29.65 | 29.95 | 1.12 |
| Fos | FBJ osteosarcoma oncogene | 25.41 | 25.04 | 0.70 |
| Foxc2 | Forkhead box C2 | 28.19 | 28.42 | 1.07 |
| Gata2 | GATA binding protein 2 | 26.91 | 27.04 | 0.99 |
| Gata3 | GATA binding protein 3 | 28.43 | 29.18 | 1.52 |
| Hes1 | Hairy and enhancer of split 1 (Drosophila) | 24.97 | 24.93 | 0.88 |
| Insr | Insulin receptor | 25.19 | 25.32 | 0.99 |
| Irs1 | Insulin receptor substrate 1 | 24.73 | 24.29 | 0.67 |
| Irs2 | Insulin receptor substrate 2 | 24.06 | 24.45 | 1.19 |
| Jun | Jun oncogene | 23.42 | 23.15 | 0.75 |
| Klf15 | Kruppel-like factor 15 | 25.29 | 25.23 | 0.87 |
| Klf2 | Kruppel-like factor 2 (lung) | 29.90 | 29.53 | 0.70 |
| Klf3 | Kruppel-like factor 3 (basic) | 23.52 | 23.55 | 0.92 |
| Klf4 | Kruppel-like factor 4 (gut) | 23.02 | 22.93 | 0.86 |
| Lep | Leptin | 20.40 | 21.68 | 2.20 |

| | | | | |
|---|---|---|---|---|
| Lipe | Lipase, hormone sensitive | 20.38 | 21.16 | 1.55 |
| Lmna | Lamin A | 23.02 | 22.85 | 0.81 |
| Tcf7l2 | Transcription factor 7-like 2 (T-cell specific, HMG-box) | 24.29 | 24.27 | 0.90 |
| Lpl | Lipoprotein lipase | 18.05 | 18.72 | 1.44 |
| Lrp5 | Low density lipoprotein receptor-related protein 5 | 25.32 | 25.41 | 0.97 |
| Mapk14 | Mitogen activated protein kinase 14 | 25.40 | 25.36 | 0.88 |
| Ncoa2 | Nuclear receptor coactivator 2 | 24.77 | 24.87 | 0.97 |
| Ncor1 | Nuclear receptor co-repressor 1 | 24.59 | 25.13 | 1.31 |
| Ncor2 | Nuclear receptor co-repressor 2 | 27.73 | 27.30 | 0.68 |
| Nr0b2 | Nuclear receptor subfamily 0, group B, member 2 | 34.12 | 31.15 | n/a |
| Nr1h3 | Nuclear receptor subfamily 1, group H, member 3 | 24.07 | 24.30 | 1.07 |
| Nrf1 | Nuclear respiratory factor 1 | 27.02 | 26.91 | 0.84 |
| Ppara | Peroxisome proliferator activated receptor alpha | 25.94 | 26.14 | 1.04 |
| Ppard | Peroxisome proliferator-activated receptor delta | 26.22 | 26.29 | 0.95 |
| Pparg | Peroxisome proliferator-activated receptor gamma | 22.36 | 23.15 | 1.57 |
| Ppargc1a | Peroxisome proliferator-activated receptor gamma, coactivator 1 alpha | 30.11 | 30.86 | n/a |
| Ppargc1b | Peroxisome proliferator-activated receptor gamma, coactivator 1 beta | 26.33 | 27.19 | 1.65 |
| Rb1 | Retinoblastoma 1 | 24.73 | 25.25 | 1.30 |
| Retn | Resistin | 19.41 | 20.46 | 1.89 |
| Runx1t1 | Runt-related transcription factor 1; translocated to, 1 (cyclin D-related) | 27.92 | 27.54 | 0.70 |
| Rxra | Retinoid X receptor alpha | 23.45 | 23.66 | 1.05 |
| Sfrp1 | Secreted frizzled-related protein 1 | 24.16 | 22.91 | 0.38 |
| Sfrp5 | Secreted frizzled-related protein 5 | 29.80 | 29.54 | 0.76 |
| Shh | Sonic hedgehog | 33.12 | 32.41 | n/a |
| Sirt1 | Sirtuin (silent mating type information regulation 2 homolog) 1 | 24.79 | 24.57 | 0.78 |
| Sirt2 | Sirtuin (silent mating type information regulation 2 homolog) 2 | 27.32 | 26.91 | 0.68 |
| Sirt3 | Sirtuin (silent mating type information regulation 2 homolog) 3 | 26.66 | 27.02 | 1.17 |
| Slc2a4 | Solute carrier family 2 (facilitated glucose transporter), member 4 | 23.14 | 23.64 | 1.28 |
| Src | V-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog | 28.13 | 27.99 | 0.82 |
| Srebf1 | Sterol regulatory element binding transcription factor 1 | 25.67 | 26.26 | 1.36 |
| Stat5a | Signal transducer and activator of transcription 5A | 26.31 | 26.96 | 1.42 |
| Taz | Tafazzin | 25.72 | 25.97 | 1.07 |
| Tsc22d3 | TSC22 domain family, member 3 | 23.49 | 23,30 | 0.80 |
| Twist1 | Twist homolog 1 (Drosophila) | 26.02 | 26.26 | 1.07 |
| Ucp1 | Uncoupling protein 1 (mitochondrial, proton carrier) | 34.12 | 36.32 | n/a |
| Vdr | Vitamin D (1,25- dihydroxyvitamin D3) receptor | 29.41 | 29.77 | 1.16 |
| Wnt1 | Wingless-type MMTV integration site family, member 1 | 32.20 | 33.02 | n/a |
| Wnt10b | Wingless-type MMTV integration site family, member 10B | 29.17 | 29.93 | 1.55 |
| Wnt3a | Wingless-type MMTV integration site family, member 3A | 29.20 | 30.29 | n/a |
| Wnt5a | Wingless-type MMTV integration site family, member 5A | 25.62 | 25.47 | 0.82 |
| Wnt5b | Wingless-type MMTV integration site family, member 5B | 27.86 | 27.64 | 0.78 |
| Rplp1 | Ribosomal protein, large, P1 | 18.26 | 18.30 | n/a |
| Hprt1 | Hypoxanthine phosphoribosyltransferase 1 | 24.08 | 24.20 | n/a |
| Rpl13a | Ribosomal protein L13A | 20.07 | 20.07 | n/a |
| Ldha | Lactate dehydrogenase A | 21.78 | 22.36 | n/a |
| Actb | Actin, beta | 19.10 | 19.08 | n/a |

## Supplementary Table 2

**Table S2**. List of genes analysed in visceral white adipose tissue of animals from WZ-5HT sublines using the Rat Obesity $RT^2$ Profiler PCR Array. Cq = quantification cycle, RER(H/L) = relative expression ratio (high-5HT/low-5HT subline).

| Symbol of Gene | Description | Quantification cycle (Cq) | | RER (H/L) |
|---|---|---|---|---|
| | | high-5HT | low-5HT | |
| Adcyap1 | Adenylate cyclase activating polypeptide 1 | 33.61 | 33.69 | n/a |
| Adcyap1r1 | Adenylate cyclase activating polypeptide 1 receptor 1 | 27.72 | 27.58 | 0.84 |
| Adipoq | Adiponectin, C1Q and collagen domain containing | 16.05 | 16.78 | 1.53 |
| Adipor1 | Adiponectin receptor 1 | 23.15 | 23.73 | 1.39 |
| Adipor2 | Adiponectin receptor 2 | 24.04 | 24.74 | 1.51 |
| Adra2b | Adrenergic, alpha-2B-, receptor | 31.91 | 32.43 | n/a |
| Adrb1 | Adrenergic, beta-1-, receptor | 26.58 | 27.85 | 2.24 |
| Agrp | Agouti related protein homolog (mouse) | 30.37 | 31.01 | n/a |
| Apoa4 | Apolipoprotein A-IV | 36.23 | 26.59 | n/a |
| Atrn | Attractin | 26.24 | 26.65 | 1.24 |
| Bdnf | Brain-derived neurotrophic factor | n.d. | 33.41 | n/a |
| Brs3 | Bombesin-like receptor 3 | n.d. | n.d. | n/a |
| C3 | Complement component 3 | 31.34 | 24.39 | n/a |
| Calca | Calcitonin-related polypeptide alpha | 30.01 | 31.11 | n/a |
| Calcr | Calcitonin receptor | 33.24 | 34.02 | n/a |
| Cartpt | CART prepropeptide | 36.27 | 35.72 | n/a |
| Cck | Cholecystokinin | 35.88 | 33.65 | n/a |
| Cckar | Cholecystokinin A receptor | 33.51 | 34.47 | n/a |
| Clps | Colipase, pancreatic | 32.24 | 35.23 | n/a |
| Cnr1 | Cannabinoid receptor 1 (brain) | 30.51 | 31.91 | n/a |
| Cntf | Ciliary neurotrophic factor | 26.74 | 28.16 | 2.48 |
| Cntfr | Ciliary neurotrophic factor receptor | 29.00 | 28.22 | 0.54 |
| Crh | Corticotropin releasing hormone | n.d. | n.d. | n/a |
| Crhr1 | Corticotropin releasing hormone receptor 1 | n.d. | n.d. | n/a |
| Drd1a | Dopamine receptor D1A | 33.08 | 33.94 | n/a |
| Drd2 | Dopamine receptor D2 | 33.79 | 33.00 | n/a |
| Gal | Galanin prepropeptide | 32.35 | 31.56 | n/a |
| Galr1 | Galanin receptor 1 | 31.74 | 31.55 | n/a |
| Gcg | Glucagon | n.d. | 32.32 | n/a |
| Gcgr | Glucagon receptor | 31.33 | 28.58 | n/a |
| Gh1 | Growth hormone 1 | 37.85 | 33.53 | n/a |
| Ghr | Growth hormone receptor | 21.10 | 22.04 | 1.78 |
| Ghrl | Ghrelin/obestatin prepropeptide | 29.58 | 29.71 | 1.02 |
| Ghsr | Growth hormone secretagogue receptor | 34.96 | 33.79 | n/a |
| Glp1r | Glucagon-like peptide 1 receptor | 34.67 | 36.23 | n/a |
| Prlhr | Prolactin releasing hormone receptor | n.d. | n.d. | n/a |
| Mchr1 | Melanin-concentrating hormone receptor 1 | 33.12 | 32.05 | n/a |
| Grp | Gastrin releasing peptide | n.d. | 37.98 | n/a |
| Grpr | Gastrin releasing peptide receptor | 37.47 | 34.78 | n/a |
| HcRt | Hypocretin | 35.60 | n.d. | n/a |
| Hcrtr1 | Hypocretin (orexin) receptor 1 | 32.97 | 32.02 | n/a |
| Hrh1 | Histamine receptor H 1 | 30.87 | 30.52 | n/a |

| | | | | |
|---|---|---|---|---|
| Htr2c | 5-hydroxytryptamine (serotonin) receptor 2C | 32.43 | 32.16 | n/a |
| Iapp | Islet amyloid polypeptide | n.d. | 34.49 | n/a |
| Il1a | Interleukin 1 alpha | n.d. | 30.82 | n/a |
| Il1b | Interleukin 1 beta | 30.50 | 28.65 | n/a |
| Il1r1 | Interleukin 1 receptor, type I | 26.56 | 25.68 | 0.51 |
| Il6 | Interleukin 6 | 33.42 | 32.24 | n/a |
| Il6r | Interleukin 6 receptor | 25.80 | 25.04 | 0.55 |
| Ins1 | Insulin 1 | 35.44 | 34.03 | n/a |
| Ins2 | Insulin 2 | 31.72 | 33.97 | n/a |
| Insr | Insulin receptor | 25.14 | 25.51 | 1.20 |
| Lep | Leptin | 20.69 | 22.22 | 2.69 |
| Lepr | Leptin receptor | 31.72 | 31.30 | n/a |
| Mc3r | Melanocortin 3 receptor | 38.62 | n.d. | n/a |
| Nmb | Neuromedin B | 27.75 | 27.68 | 0.89 |
| Nmbr | Neuromedin B receptor | 33.14 | 32.04 | n/a |
| Nmu | Neuromedin U | 34.07 | 32.32 | n/a |
| Nmur1 | Neuromedin U receptor 1 | 29.40 | 29.00 | 0.70 |
| Npy | Neuropeptide Y | 27.33 | 27.15 | 0.82 |
| Npy1r | Neuropeptide Y receptor Y1 | 26.84 | 26.60 | 0.78 |
| Nr3c1 | Nuclear receptor subfamily 3, group C, member 1 | 23.72 | 24.15 | 1.25 |
| Ntrk1 | Neurotrophic tyrosine kinase, receptor, type 1 | 36.78 | 38.09 | n/a |
| Nts | Neurotensin | 34.02 | n.d. | n/a |
| Ntsr1 | Neurotensin receptor 1 | 28.98 | 28.33 | 0.59 |
| Oprk1 | Opioid receptor, kappa 1 | 36.26 | 33.38 | n/a |
| Oprm1 | Opioid receptor, mu 1 | 34.56 | 33.32 | n/a |
| Sigmar1 | Sigma non-opioid intracellular receptor 1 | 24.57 | 24.41 | 0.83 |
| Pomc | Proopiomelanocortin | 26.54 | 27.34 | 1.61 |
| Ppara | Peroxisome proliferator activated receptor alpha | 26.57 | 27.02 | 1.26 |
| Pparg | Peroxisome proliferator-activated receptor gamma | 22.76 | 23.52 | 1.57 |
| Ppargc1a | Peroxisome proliferator-activated receptor gamma, coactivator 1 alpha | 30.67 | 31.50 | n/a |
| Ptpn1 | Protein tyrosine phosphatase, non-receptor type 1 | 26.13 | 26.33 | 1.06 |
| Pyy | Peptide YY (mapped) | 35.58 | 34.08 | n/a |
| Ramp3 | Receptor (G protein-coupled) activity modifying protein 3 | 29.67 | 28.39 | 0.38 |
| Sort1 | Sortilin 1 | 23.01 | 23.78 | 1.57 |
| Sst | Somatostatin | 35.09 | 36.08 | n/a |
| Sstr1 | Somatostatin receptor 1 | 32.16 | 32.85 | n/a |
| Thrb | Thyroid hormone receptor beta | 25.05 | 25.62 | 1.38 |
| Tnf | Tumor necrosis factor (TNF superfamily, member 2) | 30.78 | 31.23 | n/a |
| Trh | Thyrotropin releasing hormone | n.d. | 32.93 | n/a |
| Trhr | Thyrotropin releasing hormone receptor | 35.26 | 35.05 | n/a |
| Ucn | Urocortin | 39.48 | 36.11 | n/a |
| Ucp1 | Uncoupling protein 1 (mitochondrial, proton carrier) | 34.84 | 35.73 | n/a |
| Rplp1 | Ribosomal protein, large, P1 | 18.02 | 17.92 | n/a |
| Hprt1 | Hypoxanthine phosphoribosyltransferase 1 | 23.39 | 23.34 | n/a |
| Rpl13a | Ribosomal protein L13A | 19.87 | 19.84 | n/a |
| Ldha | Lactate dehydrogenase A | 21.36 | 22.03 | n/a |
| Actb | Actin, beta | 18.48 | 18.53 | n/a |

## Supplementary Table 3

**Table S3**. Primer sequences used in RT-qPCR analysis

| NCBI symbol | Gene | Forward primer sequence | Reverse primer sequence |
|---|---|---|---|
| ***Actb*** | Actin beta | 5'-GCGCAAGTACTCTGTGTGGA | 5'-ACATCTGCTGGAAGGTGGAC |
| ***Adipoq*** | Adiponectin | 5'-GAGACGCAGGTGTTCTTG | 5'-CCTACGCTGAATGCTGAG |
| ***Adipor1*** | Adiponectin receptor 1 | 5'-GCTGGCCTTTATGCTGCTCG | 5'-TCTAGGCCGTAACGGAATTC |
| ***Adipor2*** | Adiponectin receptor 2 | 5'-TCTAG CCGTAACGGAATTC | 5'-GATACTGAGGGGTGGCAAAC |
| ***Atgl*** | Adipose triglyceride lipase | 5'-AGACTGTCTGAGCAGGTGGA | 5'-AGTAGCTGACGCTGGCATTC |
| ***Cebpa*** | CCAAT enhancer binding protein alpha | 5'-GACCATCCGCCTTGTGTGTA | 5'-CTGACATTGCACAAGGCACC |
| ***Cebpb*** | CCAAT/enhancer binding protein beta | 5'-GACAAGCTGAGCGACGAGTA | 5'-AGCTGCTCCACCTTCTTCTG |
| ***Cebpd*** | CCAAT/enhancer binding protein delta | 5'-GAATTGCTACAGTTTCTTGG | 5'-ATGCGCAGTCTCTTCCTC |
| ***Cfd*** | Complement factor D | 5'-CCTACATGGCTTCAGTGCAA | 5'-TTCAGGACTGGACAGGGAGT |
| ***Fabp4*** | Fatty acid binding protein 4 | 5'-AGAAGTGGGAGTTGGCTTCG | 5'-ACTCTCTGACCGGATGACGA |
| ***Fasn*** | Fatty acid synthase | 5'-GGTAGGCTTGGTGAACTGTCTC | 5'-TCTAACTGGAAGTGACGGAAGG |
| ***Fgf2*** | Fibroblast growth factor 2 | 5'-TTCACAGCCTGTGCTCTAGGG | 5'-GATCGGGTCAGGTTTTGGAAA |
| ***Fgf10*** | Fibroblast growth factor 10 | 5'-GAGATGTCCGCTGGAGAAAG | 5'-CCCCTTCTTGTTCATGGCTA |
| ***Fgf21*** | Fibroblast growth factor 21 | 5'-AGGCTTTGACACCCAGGATT | 5'-ACAGATGACGACCAGGACAC |
| ***Gapdh*** | Glyceraldehyde-3-phosphate dehydrogenase | 5'-TGCCCCCATGTTTGTGATG | 5'-TGGTGGTGCAGGATGCATT |
| ***Glut1*** | Glucose transporter 1 | 5'-TGGCCAAGGACACACGAATACTGA | 5'-TGGAAGAGACAGGAATGGGCGAAT |
| ***Glut4*** | Glucose transporter 4 | 5'-ATCAACGCCCCACAGAAAGT | 5'-CCTGCCTACCCAGCCAAGT |
| ***Hsl*** | Hormone-sensitive lipase | 5'-CTCCTCATGGCTCAACTCC | 5'-ACTCCTGCGCATAGACTCC |
| ***Insr*** | Insulin receptor | 5'-ATCTCCTGGGATTCATGCTG | 5'-TACTGGGTCCAGGGTTTGAG |
| ***Irs1*** | Insulin receptor substrate 1 | 5'-GATTTAAGCACCTATGCCAG | 5'-GAATCGTGAAAGAGTTCGAG |
| ***Irs2*** | Insulin receptor substrate 2 | 5'-CCACACACCTGTCCTCATTG | 5'-TAATCCGCTTTGCCAAAATC |
| ***Lep*** | Leptin | 5'-GAC ACC AAA ACC CTC AT | 5'-CAG GGT CTG GTC CAT CT |
| ***Lpl*** | Lipoprotein lipase | 5'-TTGAGAAAGGGCTCTGCCTGAGTT | 5'-TGCTTCTCTTGGCTCTGACCTTGT |
| ***Pparg*** | Peroxisome proliferator activated receptor gamma | 5'-TCGCTGATGCACTGCCTATG | 5'-TGATTCCGAAGTTGGTGGGC |
| ***Ppargc1b*** | Peroxisome proliferative activated receptor, gamma, coactivator 1 beta | 5'-CTACCAGAGCCCACCCAGTA | 5'-CAGGATGAGGAGCCAGAACT |
| ***Retn*** | Resistin | 5'-ACT TCA GCT CCC TAC TG | 5'-GTC TAT GCT TCC GCA CT |
| ***Tnf*** | Tumor necrosis factor | 5'-CATCTTCTCAAAACTCGAGTGACAA | 5'-TGGGAGTAGATAAGGTACAGCCC |
| ***Vegfa*** | Vascular endothelial growth factor A | 5'-CCGGTTTAAATCCTGGAGCG | 5'-TTTAACTCAAGCTGCCTCGC |