

Table S1: SYBR Green primers sequence

Gene Name	Fw. Seq.	Rv. Seq.
Abhd5 (Cgi-58)	GACACCAGGTAGGAAGCCAC	GCTTCGAGGTGTGTCCCTG
Acacb	TGTTCTCGGCCTCTCTCAC	GAGGCTGCATTGAACACAAG
Accox1	GGAATTTGGCATCGCAGACC	ACATGCCCAAGTGAAGGTCC
Accox3	GCTCGGTAGGCACTAAGAGG	CTTCTGAGAAAACGGGGACAA
AMPK α 1 (Prkaa1)	ACCAGGTATCAGTACACCA	TCCTTTTCGTCCAACTTCCA
AMPK α 2 (Prkaa2)	GGCAAAGTGAAGACTACCAGG	CTTCAACCCGCCCATGTTTG
Angptl4	GCTCATTGGCTTGACTCCCA	GCCTCCATCTGAAGTCACTCA
aP2	GATGCCTTTGTGGGAACCTG	GAATCCACGCCCACTTTGA
Arf1	GGAGGTCTTTGGCCAGTATCG	ACATTGAAACCAATGGTGGGA
Arfrp1	GGATGTACACGCTGCTTTG	GTGCCAATGTTAGACCACAG
Atrogin-1 (Fbxo32)	CTCAGGGATGTGAGCTGTGA	GGGGGAAGCTTTCAACAGAC
β -actin	GCCGGGACCTGACAGACTAC	AACCGCTGTTGCCAATAGT
Bdnf	GACGTTTACTCTTTTCATGGGC	TGAGTCTCCAGGACAGCAAA
Bmp1	TAGTCATACCAGCACAGGCG	CTACTGCCCCACATGCACT
Cox7rp	TTTGGTTGGTGTGGCAATA	AGTTTCACGCAGAAAGTTGGC
Cpt1a	TTGGAAGTCTCCCTCCTTCA	GCCCATGTTGTACAGCTTCC
Cs	AAGGACGAGGCAGGATGAG	TGCAGCTGTAGCTCTCTCCC
Epas1 (Hif2a)	CATCACGGGATTTCTCTTC	AGGGCCACAGCAAAAGAGAG
Erra	CAGCTGTAAGCTGATGCTCC	AGCTCTTACCCAAACGCCT
Errb	TGAAGGAGCCGCAACTAGAG	GCTGGAACACCTGAGGGTAA
Errg (Nr3b3)	TTGTACTTCTGCCGACCTCC	TGAGATCACAAGCGCAGAC
Fabp-3	CCGTTCTTCTCGATGATGGT	CGGTACCTGGAAGCTAGTGG
Fabp4	AAATCACCGCAGACGACAGG	ATAACACATTCCACCACCAGC
Fabp4	AAATCACCGCAGACGACAGG	ATAACACATTCCACCACCAGC
Fam132b (Ctrp15, Myonectin)	TGCTTGATGCTGTTCTGCTAA	CAGATGGGATAAAGGGGCCTG
Flt1 (Vegfr1)	TGCTGGGTGCCTTTTAAACT	ATGGTACGCTGCTGGGAC
Fst (Follistatin)	GACAATGCCACATACGCCAG	GTTTCTCCGAGATGGAGTTGC
Fst1	GCCAGCTCCACAAAACACAT	GAGCACAGATGTGGAACAGAT
Gbf1	TCCAGAAATGGACGAAGGAA	CACTGGATGAAGAACGGGAT
Glut4 (slc2a4)	CAGTGTCCAGTCACTCGCT	CAGCGCTGAGTCTTTTCTT
Got2 (Fabpm)	ACTTGGGAAGCAATGGTTG	GTGATGTGCTGCCAGTTGTG
Gpi1	AATGGAAAGTCCAATGGCTG	ACTTTGTGCCCCTGTCTACG
H6pd (G6pd)	TGCTGATGTTGAGAGGCAGT	GGAGACCATAGATGCGGAA
Idh1	CTCTGCAGCATCTTTGGTGA	TGACACGAATCATTGGGAA
Il6ra	ACCAGGTGATCATTGAGGGA	TGGGTGACTCTGGCTCACA
Ins16	GATTCACAAAACCCAGTCCCTG	CCTTAGGAAGCAACTCCGTCT
Kdr (Vegfr2)	TCCAGAATCCTCTTCCATGC	CCAGAGACCCTCGTTTTCAG
Lif	GACCACGGCTCCAGTATATAAATC	GCAGCAGTAAGGGCACAAATC
Mmp2	CAGGGCACCTCTACAACAG	CAGTGGACATAGCGGTCTCG
Mstn	GAGCCCAGGCACTGGTATTT	AGGGATTGAGCCCATCTTCTC
MtDNA1	CCGCAAGGGAAAGATGAAAGAC	TCGTTTGGTTTCGGGGTTTC
Myh3	GACTCAGCCGACCCATGAG	CTCTGGCTTAACCACCAGGG
MyHCl (Myh7 Slow)	CTCAGGTGGCTCCGAGAAAG	TGGCTGAGCCTTGGAATCTC
MyHCl α (Myh2)	GCAAGAAAGCAGATCCAGAAAC	GGTCTTCTCTGTCTGTAAGTAAGC
MyHCl β (Myh4 Fast)	TCTGGTAACACAAGAGGTGC	AAAAGGCTTGTCTGGGCCT
MyHCl γ (Myh1 Mod)	GCAACAGGAGATTTTGCACCTCAC	CCAGAGATGCCTCTGCTTC
Mylpf	GTATGTTAAGGGCTGCCGGG	TTACAGTGAACGCCCTCTTGA
MyoG	GTGAATGCAACTCCACAGC	CGCGAGCAATGATCTCCTG
Nlrp3	GGACCAGCCAGAGTGAATGA	AACCTGCTTCTCACATGCTGT
Nos3 (eNOS)	GTTGTACGGGCTGACATTT	GGTCTGTGCATGGATGAG
Pck2	TGTACCATAAACCTCGTGGC	GTGGTACCCCTTTGGGTCG
PCK2	TGTACCATAAACCTCGTGGC	GTGGTACCCCTTTGGGTCG
Pfkfb3	CCACCATCACAATCACGGT	ACAGCTACGAAGATGCCGTT
Pfkm	GCCCCGTAAGATACCAACTC	CCATGAAAGACATATGCAAG
Pgc1-1a	AGCCGTGACCACTGACAACGAG	GCTGCATGGTTCTGAGTCTAAG
Pgc-1a total_Sp	TGATGTGAATGACTGGATACAGACA	GCTCATTTGTTACTGGTTGGATG
Pgc1a-1	GGACATGTGCAGCCAGACTCT	CACCTCAATCCACCAGAAAAGCT
Pgc1a-2	CCACCAGAATGAGTACATGGA	GTTACAGCAAGATCTGGGCAAA
Pgc1a-3	AAGTGAGTAAACCGGAGGCATTC	TTCAGGAAGATCTGGGCAAAA
Pgc1a-4	TCACACCAAAACCCACAGAAA	CTGGAAGATATGGCACAT
Pgc1a-a	GGGACATGTGCAGCCAAGA	AAGAGGCTGGTCTCACCAA
Pgc1a-b	GACATGGATGTTGGGATTGTCA	ACCAACCAGAGCAGCACATTT
Pgc1a-c	TGAGTAACCGGAGGCATTTCTCT	TGAGGACCCGTAGCAAGTTTG
Pgc-1 β	TCCTGTAAGGACCCGGAGTAT	GCTCTGGTAGGGGAGTGA
Pkm2	TCGCATGCAGCACCTGATT	CCTCGAATAGCTGCAAGTGGTA
Plin1	GGTGTACAGCGTGGAGAGTAA	TCTGGAAGCACTCACAGGTC
Plin2 (Adfp)	CAGCTCTCCTGTTAGGCGT	CGGAGGACACAAGGTCGTAG
Plin3	TACTTTGTCCGGTTGGGCTC	GATTCATCAGGCCGAGCA
Plin4	GAGGGACCCCTTACCCTGAC	CTCAAGGCTTGGCTTTGGAT
Plin5 (Oxpat)	CCATCAGACATGGTGGTGACA	GCTAGCTCAGCCTCAGTCAT
Scd1	GCCGAGCCTTGTAAAGTTCTG	CCTCTGCAAGCTCTACACC
Sec23a	CACGGAGCTTCTAGACAGAAAT	ATTCCAACCTGAACCCGACCC
Sirt2	GGCTCAGGATTACAGACTCGG	GCTCGTCTAGAAGACGCTCC
Sirt5	ACAGGGCGGTTAAGAAGTCC	GGCCGAGTTTAAACATGGAGA
Sirt6	ACCCACAAAACATGACCGCC	TTTGTCTAGCACGCGAGGTC
Sirt7	CCGTCGACCCAAACTCTACA	CTGCCACCGGTTGTAGACAG
Sparc (Osteonectin)	CCAGGCAAGGAGAAAGAAG	ATTCTGCAGCCCTTCAGAC
Srebp2	GATGATACCCCGACGTTCA	TGCAGGACTTGAAGCTGGT
SRF	GCAGTATGTATGCCCCAC	CAGCCATCTGGTGAAGCTGAA
Stars (Abra)	GGCTACGGAGGGGATATGGA	CAGAGTACCTGTTTGCCTGGG
Tf2b	TGGAGATTTGTCCACCATGA	GAATTGCCAAACTCATCAAACCT
Ucp2	TGGAATAACGAGGGGATCGG	GGAGAAACGGGGACCTTCAA
VE-cadherin	ACGGACAAGATCAGCTCCTC	TCTCTTATCGATGTGCATT
Vegfa	AAAACGAAAGCGCAAGAAA	TTTCTCCGCTCTGAACAAGG
Vegfb	ACACCAAGTCCGAATGCAGAT	GTATGGCAACCTGTCTGGCT