

Supplementary Table 1: Primer and guide RNA sequences used in this study.

qPCR primers	Forward	Reverse	Reference (PMID)
<i>Clstn3</i> E1/2	AGGGGATAGGAACGCCTGG	TGGCTTGTGCTTGTGGCTTTG	This paper
<i>Clstn3</i> E17/18	CGAAGGACCTGACCTCTTC	TGGTAGGACTCCATAGGATTGAC	This paper
<i>Clstn3b</i>	AGAAGGGAGGTGTCACGGAA	CAGAAAGCCCACGCATACCA	This paper
<i>Cidea</i>	TGCTCTTCTGTATCGCCAGT	GCCGTGTTAAGGAATCTGCTG	17618855
<i>Cox8b</i>	GAACCATGAAGCCAACGACT	GCGAAGTTCACAGTGGTTCC	17618855
<i>Dio2</i>	CAGTGTGGTGACGTCTCAAATC	TGAACCAAAGTTGACCACCAG	17618855
<i>Elov13</i>	TCCGCGTTCTCATGTAGGTCT	GGACCTGATGCAACCCTATGA	17618855
<i>Elov16</i>	TGCTGCATCCAGTTGAAGAC	TGCCATGTTATCACCTTGT	17618855
<i>Gfp</i>	AAGCTGACCCTGAAGTTCATCTG	CTTGTAGTTGCCGTCGTCCTTGA	This paper
<i>Ppargc1a</i>	AGCCGTGACCACTGACAACGAG	GCTGCATGGTTCTGAGTGCTAAG	17055439
<i>Prdm16</i>	CAGCACGGTGAAGCCATTC	GCGTGCATCCGCTTGTG	17618855
<i>Ucp1</i>	ACTGCCACACCTCCAGTCATT	CTTTGCCTCACTCAGGATTGG	17618855
<i>CLSTN3</i> E1/2	TCCCAGGGGAGGCAAACG	GCTTGTGCTTGTGGCTTTGTTA	This paper
<i>CLSTN3</i> E17/18	CCCATGGAAATGCTACCAAGAT	GAGTCACTGCTGCCTCATCC	This paper
<i>CLSTN3B</i>	AGATGTTGGGGAAGCAGGAAC	CACACCACAATGATGAGGGTT	This paper
<i>UCP1</i>	GCCCAATGAATACTGCCACT	CTACGACACGGTCCAGGAGT	27575944
ChIP-qPCR primers			
<i>Clstn3</i> promoter	TAGGTTTTTCTGGCCCTCCG	AACCTGGAGGCAAAACCTCG	This paper
<i>Clstn3b</i> PPRE 1	GGTGCACTCATTCTCCTCACTTT	CTCCAGAGCCAACTCTGACAAAA	This paper
<i>Clstn3b</i> PPRE 2	GTTGAGAAATGCTGATCCAACCA	AAACAGATCTAACTCCGTAGGGG	This paper
<i>Fabp4</i> PPRE	GAGAGCAAATGGAGTTCCAGA	TTGGGCTGTGACACTTCCAC	21459326
5' RLM-RACE primers			
<i>Clstn3</i> -specific outer primer	TGAGAGCAGAGTCATCCAGAA		This paper
<i>Clstn3</i> -specific inner primer	CCGAGGATAACCATAAGCACCAGA		This paper
RT-PCR primers			
F1	GTGTACCGAACAGGAGTGA		This paper
F2	TGAACCTGGGCATCAGAATGAG		This paper
F3	GGCAGTTGTGTGGTAECTAGA		This paper
F4	GTTTATGGCTGCTCGTTCTGTG		This paper
F5	GGTCTTCTCCTCATTGCTGT		This paper
F6	GGTGTGAAGGGCATCGAGAA		This paper
F7	CGGCAGGCATTCTCATTACC		This paper
R	CCGAGGATAACCATAAGCACCA		This paper
Genotyping primers			
<i>CLSTN3β</i> KO screening	CCTGAACCTGGGCATCAGAA	CCCAGAGGGAAAGAGAGGGT	This paper
<i>CLSTN3β</i> WT genotyping	CCCAGACGAGGTGGGTAA	CCCAGAGGGAAAGAGAGGGT	This paper
<i>CLSTN3β</i> KO genotyping	CCAGATGACACACTTCAGTGG	AGCCTACTGCTGCCTTGAAC	This paper
AdC3KO flox/flox genotyping	TATTCACCTGTCCTTTGTCTCTAGG	CGTTCTAAATCACCTGCCCTTCA	This paper
Cre genotyping	GCGGTCTGGCAGTAAAACTATC	GTGAAACAGCATTGCTGCACTT	JAX
Cre internal control genotyping	CTAGGCCACAGAATTGAAAGATCT	GTAGGTGGAATTCTAGCATCATCC	JAX
Guide RNAs			
5'	GGCTTGGGACTGTATCTATG		This paper
3' (<i>CLSTN3β</i> KO)	CTTCACTTACCCACCTCGTC		This paper
E17 KO	AGTGGATCCGAACGAGGCCG		This paper