

Figure S1. Original gels of the different panels presented in Figure 4c. Dotted yellow frames correspond to gels shown in panels of Figure 4c. The electrophoresis of PCR products of CaMK2a-Cre transgene and Igfbp2 KO allele, respectively.

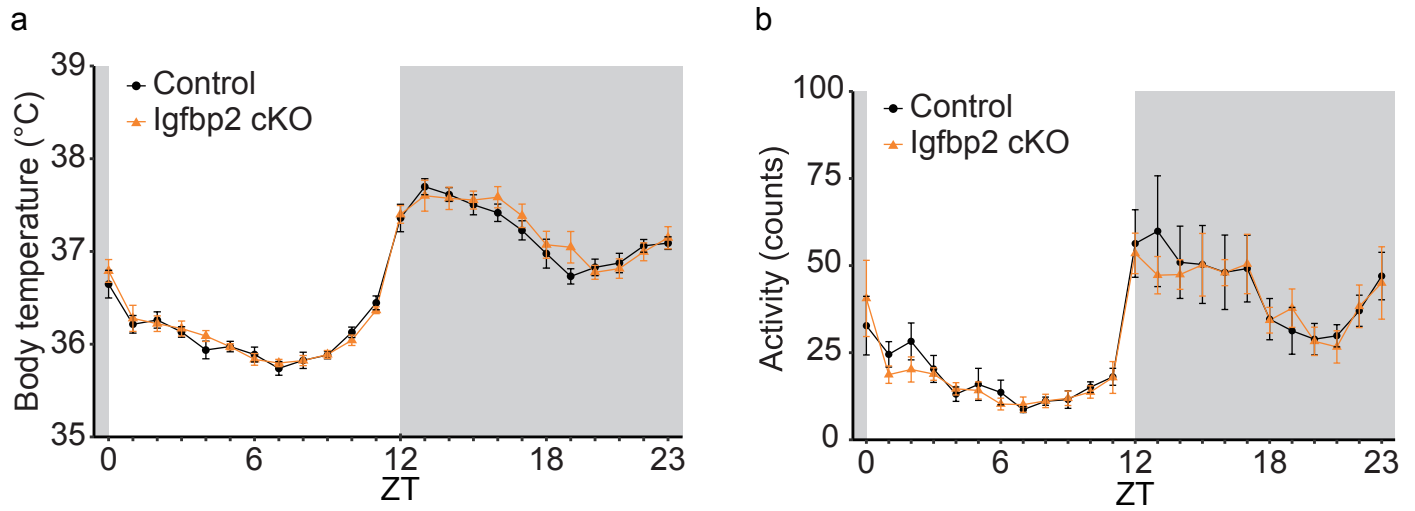


Figure S2. Circadian rhythms of core body temperature and activity of Igfbp2 cKO mice born from natural breeding.
a, b) Circadian rhythms of core body temperature (a) and activity (b) of the male Igfbp2 cKO and the control mice (n=7 in each group) born from natural breeding. Error bar shows SEM.

Table S1. Primers for qPCR primers.

Primer name	Sequence	Accession number
RT Igf1 F	gatctgcctctgtgacttcttg	NM_001111275
RT Igf1 R	caatgcctgtctgagggtgccct	
RT Igfbp2 F	ctccctgcacatccccaactgtgac	NM_008342
RT Igfbp2 R	ggtattgggggtcacacaccagcac	
RT Igfr F	catgtactgtatcccctgcgaag	NM_010513
RT Igfr R	catgaagtctccaactccgaggc	
RT Insr F	gctgttgagctggattattgtctc	NM_010568
RT Insr R	cactcactggccgagtcgtcatac	
RT Igfbp5 F	ggggttgcctcaacgaaaagagc	NM_010518
RT Igfbp5 R	cggaaatgcgagtgctgctgggc	
RT gapdh F	caacagcaactcccactcttc	NM_001289726
RT gapdh R	cctgttgctgtagccgtattc	

Table S2. crRNA, ssDNA and PCR primers used to generate *Igfbp2* floxed mice.

Sequence name	Sequence	Use for
crRNA1	gagaaggggattgagcgttggg	Target of gRNA
crRNA2	agtgacttccccgccattccagg	Target of gRNA
ssDNA1	caagcgactggcttccgtgagcttcagttccccgcgtgtgaaagagaagg ggatttgagATAACTTCGTATAGCATACATTATACGAAG TTATaagcttcgtgggaccagagtctctttatctctgtgctcagacgcctc tcggaagcctcagggga	loxP KI ssDNA near <i>Igfbp2</i> Ex2
ssDNA2	agagtcttgggggggatggctgctgagctcatgccacctgtccctaata cctggaaATAACTTCGTATAGCATACATTATACGAAGTT ATggatcctggcggggaagtcactgttccatcttacatggggacaagaaa aaggcttctgaaccag	loxP KI ssDNA near <i>Igfbp2</i> Ex4
KI check primer F	ggtattgggggtcacacaccagcac	Genotyping for floxed <i>Igfbp2</i> allele
crRNA1 check primer R	cagactgaggtgttggcacccttg	Genotyping for floxed <i>Igfbp2</i> allele
crRNA2 check primer F	gtgactctcgatgccagtgagtgattg	Genotyping for WT <i>Igfbp2</i> allele
<i>Igfbp2</i> WT R	cccgccattccaggattagggacaag	Genotyping for WT <i>Igfbp2</i> allele
crRNA1 check primer F	ctggtgagggccttggtgtctcttc	Genotyping for <i>Igfbp2</i> KO allele
crRNA2 check primer R	ccagtggtccacactctgtcctcac	Genotyping for <i>Igfbp2</i> KO allele