**Supplementary Figure 1: Confirmation of *Fgf21* knock-out in circulation and inguinal white adipose tissue.**

(A) Circulating FGF21 was measured via ELISA in male WT and KO mice. (B) *Fgf21* gene expression was measured in the iWAT of male WT and KO mice. (C) Circulating FGF21 was measured via ELISA in female WT and KO mice. (D) *Fgf21* gene expression was measured in the iWAT of female WT and KO mice. (A-B) n=6 mice/group, \*\* =p=0.0015, \*\*\*\* = p<0.0001, unpaired, two-tailed t-test. (C-D) n=5-6 mice/ group \*\*\*\* = p<0.0001, unpaired, two-tailed t-test. Data represented as mean ± SEM.

**Supplementary Table 1: qPCR primer sequences**

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| **Gene name** | **Sequences** |
| *Acc1* | Fwd 5’-AAGGCTATGTGAAGGATG-3’  Rev 5’-CTGTCTGAAGAGGTTAGG-3’ |
| *Actb* | Fwd 5’-GATGTATGAAGGCTTTGGTC-3’  Rev 5’-TGTGCACTTTTATTGGTCTC-3’ |
| *Atgl* | Fwd 5’-ATATCCCACTTTAGCTCCAAGG-3’  Rev 5’-CAAGTTGTCTGAAATGCCGC-3’ |
| *Cidea* | Fwd 5’-GAATAGCCAGAGTCACCTTCG-3’  Rev 5’-AGCAGATTCCTTAACACGGC-3’ |
| *Dgat1* | Fwd 5’-TGGTGTGTGGTGATGCTGATC-3’  Rev 5’-GCCAGGCGCTTCTCAA-3’ |
| *Elolv3* | Fwd 5’-ATGCAACCCTATGACTTCGAG-3’  Rev 5’-ACGATGAGCAACAGATAGACG-3’ |
| *Fasn* | Fwd 5’-CCCCTCTGTTAATTGGCTCC-3’  Rev 5’-TTGTGGAAGTGCAGGTTAGG-3’ |
| *Fgf21* | Fwd 5’-ATCAGGGAGGATGGAACAGTGG-3’  Rev 5’-AGCTCCATCTGGCTGTTGGCAA-3’ |
| *Lipe1* | Fwd 5’-CTGAGATTGAGGTGCTGTCG-3’  Rev 5’-CAAGGGAGGTGAGATGGTAAC-3’ |
| *Ucp1* | Fwd 5’-GCATTCAGAGGCAAATCAGC-3’  Rev 5’-GCCACACCTCCAGTCATTAAG-3’ |