**SUPPLEMENTARY MATERIAL** (Lucas et al)

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**B**

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| --- | --- |
| Supp fig1  **A** | \*\*  \*\*  \*  **Final body weight (g)**  **SD**  **HFD** |

**Figure S1**: A) Weight gain induced by 30 weeks of HFD feeding in WT and GRK2+/- genotypes expressed as fold-increase over control SD-fed mice (N=5-7 per genotype and condition). Data are means±SEM. ++p<0.01; +p<0.05 referred to SD-fed mice; \*p<0.05 referred to fold increase between genotypes. B) Final body weight after 30 weeks of SD or HFD feeding in WT and GRK2+/- genotypes (N = 5-7). Data are means±SEM. Statistical analysis was performed using unpaired two-tail Student’s t-test. \*p<0.05, \*\*p<0.01



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**Figure S2**: Circulating plasma NEFA concentrations in 30-week SD and HFD-fed control and GRK2+/- mice upon 16 hours of fasting. Data are represented as means ± SEM of 6-9 mice per group. Statistical significance was analyzed by unpaired two-tail Student’s t-test. \*p<0.05

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| --- | --- |
| **HFD**  **SD**  **A** | **HFD**  **SD**  **B** |

**Figure S3:** mRNA levels of TFAM and COI genes were quantified by qPCR and normalized by a geometrical mean of HPRT and RPS29. Data are means ± SEM (N=5-6 per group) and the statistical analysis used was a unpaired two-tail Student’s t-test.

**Table S1.** Primers used for RT-PCR analysis.

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| *acta1* |  | *TaqMan® Gene Expression Assay (Applied Biosystems):*  *Ref. Mm00808218\_g1* |
| *atp2a2* (serca2) |  | *TaqMan® Gene Expression Assay (Applied Biosystems):*  *Ref. Mm01201431\_m1* |
| *adrbk1* | Forward  Reverse | *5´-CATGCACAATCGCTTTGTAGTC-3′*  *5´ -GGTCCGAGATTCTCACATGG-3′* |
| *bnp* | Forward  Reverse | *5´-GTCAGTCGTTTGGGCTGTAAC-3′*  *5´-AGACCCAGGCAGAGTCAGAA-3′* |
| *mt-coI* | Forward  Reverse | *5´-TCTCCTTCTCCTAGCATCATCA-3′*  *5´-CCGGCTAGAGGTGGGTAGA-3′* |
| *hprt1* | Forward  Reverse | *5´ -TCCTCCTCAGACCGCTTTT-3´*  *5´ -CCTGGTTCATCATCGCTAATC-3´* |
| *ppara* | Forward  Reverse | *5´ -CACGCATGTGAAGGCTGTAA-3´*  *5´ -CAGCTCCGATCACACTTGTC-3´* |
| *ppargc1a* | Forward  Reverse | *5´ -CCCTTCTTTGCCATTGAATC -3′*  *5´ -AATGTTAGGAAAGTTTAGCATCTGG-3′* |
| *ppargc1b* | Forward  Reverse | *5´ -GGCGCGCTGCTGGAT-3´*  *5´ -CTCCAGAGTCCCCACCCTG-3´* |
| *rps29* | Forward  Reverse | *5´ -CTGAACATGTGCCGCCAGT-3′*  *5´ -TCAAGGTCGCTTAGTCCAACTTAAT-3′* |
| *tfam* | Forward  Reverse | *5´ -ATTGACCATGTGCTTCAGAGC-3′*  *5´ -GCATCCCTGTATCGCTGTAGT-3′* |