

***p32* heterozygosity protects against age- and diet-induced obesity by increasing energy expenditure**

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Running Title: *p32* heterozygosity prevents obesity

Figure S1

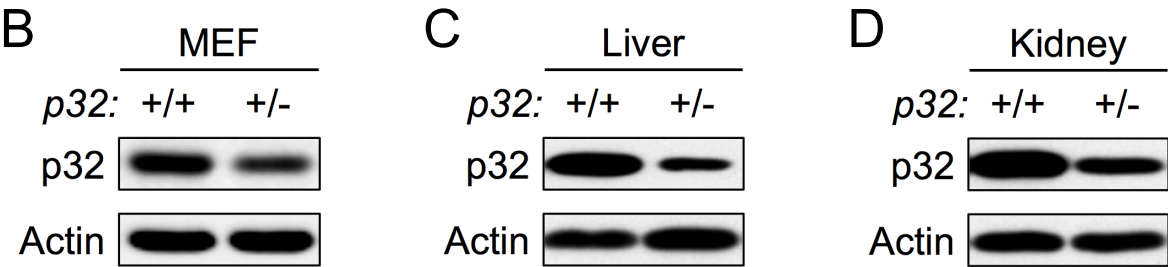
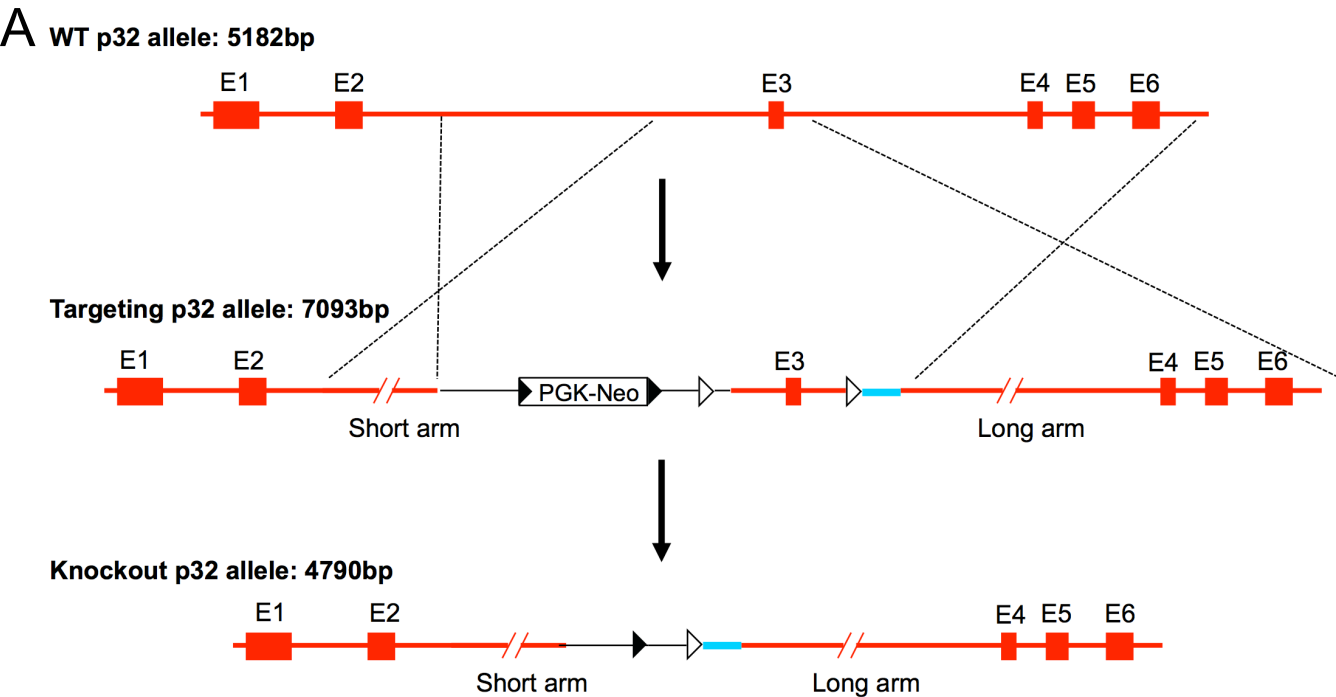
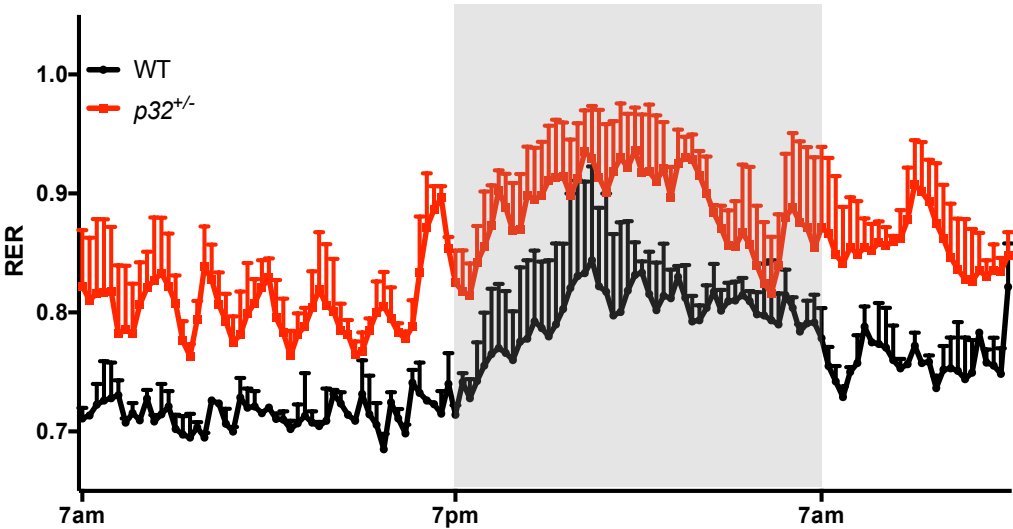
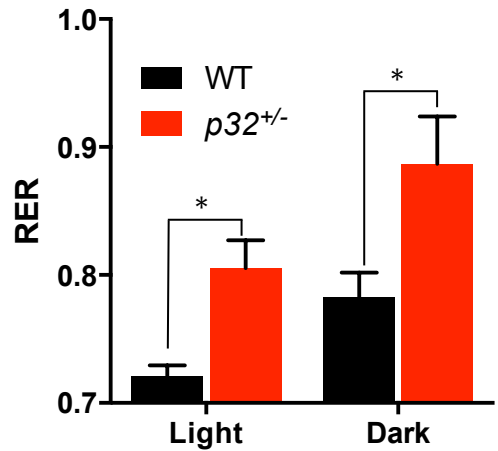


Figure S2

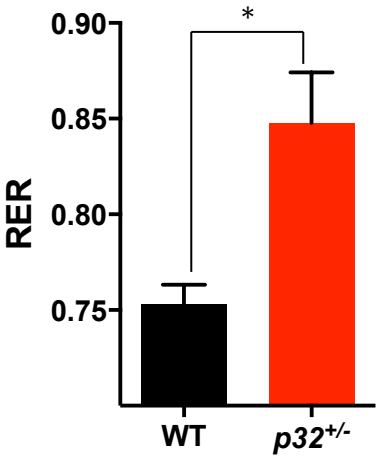
A



B



C



Supplemental Figure Legends

Figure S1. Generation of p32 knockout mice.

(A) Schematic representation of the targeting vector for deletion of exon 3 in the mouse *p32* gene.

(B-D) p32 protein expression in MEF cells (B), and liver (C) and kidney (D) tissues.

Figure S2. RER of 52-week-old WT and *p32*^{+/-} mice.

WT and *p32*^{+/-} mice were fed with a normal chow diet for 52 weeks. (A) Respiratory Exchange Ratio (RER) is calculated by CO₂ production over oxygen uptake (CO₂/O₂), which was measured with an indirect calorimetry chamber over the indicated time period. The statistical comparisons were evaluated using a two-way ANOVA (n=3, p=0.028).

(B) Average RER in light (7am through 7pm) and dark cycles (7pm through 7am), n=3.

(C) Average RER over a 24-hour period, n=3.