

**Figure S2** - Male *Ptp4a3* knockout mice exhibited decreased weight and body mass index. A) When compared to wildtype littermates (n=9/genotype), male *Ptp4a3*<sup>-/-</sup> mice exhibited an average of ~10% less body mass (p<0.005). B) Mice were also measured from the nose to the base of the tail and body mass index was determined (BMI=kg/m<sup>2</sup>). Male *Ptp4a3*<sup>-/-</sup> littermates exhibited a ~7% decrease in BMI compared to wildtype (p<0.005). Neither of these phenotypes were significantly altered in female *Ptp4a3*<sup>-/-</sup> mice compared to wildtype.

