

**ESM Table 1. Genotyping and qPCR primers (5' - 3').** Ubc Cre, LepR loxP/loxP, Rosa26 YFP, and Rosa26 confetti primers were used to genotype mice. InsR primers were used as a control gene for qPCR with LepR loxP/loxP primers

Gene	Forward	Reverse	
<b>Ubc Cre</b>	CGCTCGGGTTGGCGAGTGTGTTTGAA	GCCTGGCGATCCCTGAACATGTCCATCAGG	
<b>LepR loxP/loxP</b>	GTTGTTGTAAGCTACAAGGCTGTATG	GTACAGGTCTTTGCTAACACCTGAAG	
<b>InsR</b>	TCCACTTAGAGTAACAGACTGAGGTT	AAGTTAAGAGGGAAATGTGTGGAATAC	
Gene	Common	Wild Type	Mutant
<b>Rosa26 YFP</b>	AAAGTCGCTTGAGTTTAT	GGAGCGGGAGAAATGGATATG	AAGACCGCGAAGAGTTGTC
<b>Rosa26 Confetti</b>	CCAGATGACTACCTATCCTC	AAAGTCGCTTGAGTTTAT	GAATTAATTCCGGTATAACTTCG