

Supplementary Figure 1

	rPomc			hPOMC		
	NeuroD1	Tpit	Pitx1	(NeuroD1)	(Tpit)	(Pitx1)
Wt	AAGGCAGATGGAC	GCCTCACACCAGGATGCTAAGCCTCT		Wt	CAGGCAGATGCCA	CCCACACGGGGGTGCTAAGCCTCC
M1	AAGGCAGATGGAC	GCCTCAC CAA AGGATGCTAAGCCTCT		M1	CAGGCAGATGCCA	CCC ACAAA GGGGGTGCTAAGCCTCC
M2	AAGGCAGATGGAC	GCCTCACACCAGGATGCTA CTA CTCT		M2	CAGGCAGATGCCA	CCCACACGGGGGTGCTA CTA CTCC
M3	AAGGCAGATGGAC	GCCTCAC CAA AGGATGCTA CTA CTCT		M3	CAGGCAGATGCCA	CCC ACAAA GGGGGTGCTA CTA CTCC
M4	AAG GTTT ATGGAC	GCCTCACACCAGGATGCTAAGCCTCT		M4	CAG GTTT ATGCCA	CCCACACGGGGGTGCTAAGCCTCC

Supplementary Figure 1. Sequences of the *rPomc* promoter (−480/+63) (left) and *hPOMC* promoter (−428/+68) (right); mutant sequences are indicated in bold.