

Supplementary Table 1: Sequence for primers used in the study

Name	Forward (5' seq 3')	Reverse (5' seq 3')
hPGC1 $\alpha$	aac agc agc aga gac aaa tgc acc	tgc agt tcc aga gag ttc cac act
hCox 4i	cgg tgc cat gtt ctt cat cgg ttt	tca tgt cca gca tcc tct tgg tct
hCOX5B	gga aga ccc taa ttt agt ccc ct	cca gct tgt aat ggg ctc cac
hATPSYNF1	cta tgc ggc gca aac atc tc	ggt ggt agt ccc tca tca aac t
hCYT-C	aag att gtg cca ctg cac tca agc	agg tga gca caa cag gaa ctg gaa
hFASN	agg ttt gat gcc tcc ttc ttc gga	tgg ctt cat agg tga ctt cca gca
hACC	tcg ctt tgg ggg aaa taa agt g	gtg tga cca tga caa cga ata ta
hACLY	aag atc tcg tgg cca atg gag tca	agg ttt gcg gat caa acc aag ctc
hSLC25A1	ttc ccc acc gag tac gtg aa	gta gag cag gga gct aag gc
hPDHEA1	atg cag act gta cgc cga atg	ggg tga aag taa agc cgt gag
hCS	ggtggcatgagagggcatgaa	tagccttgggtagcagtttct
hPDK1	tcc tgg act tcg gat cag tga	cgg atg gtg tcc tga gaa gat t
hERR $\alpha$	aat gca ctg gtg tct cat ctg ctg	tga tgg tga cca caa tct ctc ggt
hPGC1 $\beta$	aac ttc tgg ctc aag acg tgc tct	tct tgg gtg aag ctg cga tcc tta
hSREBP1c	gga ggg gta ggg cca acg gcc	cat ctc ttc gaa agt gca atc c
hActin	ggc tgt att ccc ctc cat cg	cca gtt ggt aac aat gcc atg
mPgc1 $\alpha$	ccc tgc cat tgt aaa gac	tgc tgc tgt tcc tgt ttt
mCox 4i	acc aag cga atg ctg aac at	ggc gga gaa gcc ctg aa
mCox5b	gct gca tet gtg aag agg aca ac	cag ctt gta atg ggt tcc aca gt
mAtpsynF1	tct cca tgc ctc taa cac tcg	cca ggg tca aca gac gtg tca g
mCyt-C	cca aat ctc cac ggt ctg ttc	atc agg gta tcc tct ccc cag
mAcly	aag cct ttg aca gcg gca tca ttc	ttg agg atc tgc act cgc atg tct
mAcc:	gtc ccc agg gat gaa cca ata	gcc atg ctc aac caa agt agc
mFas	gga ggt ggt gat agc cgg tat	tgg gta atc cat aga gcc cag
mPdhea1	gctggcataaacctacggac	cct ttc cct tta gca caa cct c
mPdk1	ctg gtg caa agt tgg tat atc ca	gtg ctg gtt gag tag cat tct aa
mCs	ggacaattttccaaccaatctgc	tcggttcattccctctgcata
mErr $\alpha$	cct ccc gcc ttc tac agg t	cac acg gca cag tag cga g
m Pgc1 $\beta$	gct ctg gta ggg gca gtg a	tcc tgt aaa agc ccg gag tat
mActin	gag acc ttc aac acc cc	gtg gtg gtg aag ctg tag cc

h=human; m= mouse