

Supplementary Table: Primer Sequences

Bisulphite Sequencing

MmMCT1_BSP+1_F	GTGTAGGTGTAGTAGTTAAGGAGTT
MmMCT1_BSP+1_R	TCAAAATCCCCTTCACCC
MmMCT1_BSP+2_F	TGGGTGAAGGGGATTTTG
MmMCT1_BSP+2_R	CTAACAAATCACCTAATAAAACACC
MmMCT1_BSP_Int1F	TAGTTTTGTTTTTGTATTTTAGGT
MmMCT1_BSP_Int1R	AAACTCTCCTCTATAAAATCCC

Cloning MCT1 3'UTRs

MmMCT1_3UTR_F	TATTCTAGACCTGTGAAGCCTGGAGAG
MmMCT1_3UTR_R	AAAGGATCCAGGCATGCTAATGTGGAGGAGGTCTTC
HsMCT1_3UTR_F	AAAAGTATCCATGGGGCTGAAGGG
HsMCT1_3UTR_R	AAAGGATCCCCTCACTCCACTAACAAG

Cloning miRs

mmu-mir-124-2_F	cgcagatctCGATCCATGTCATCATTGAA
mmu-mir-124-2_R	cgcgctagcTATTTGGAAAAGGCCAGCAC
mmu-mir-183_F	cgcggatccGGGTGATGGTATTGGGATGT
mmu-mir-183_R	cgctctagaGACACACAGACCCTGGGATG
mmu-mir-29b-2_F	cgcggatccGACACTATGCATCTTGGGAAA
mmu-mir-29b-2_R	cgctctagaGCTCTTACCCCTTCCTTGCT
mmu-mir-377_F	gcgggatccAGACTTGGTGTCCGTGTGCT
mmu-mir-377_R	gcgtctagaAGAACAGCGAGTGTGTCTGC
mmu-mir-9-2_F	cgcggatccCAACAGCTTGCTGCACCTTA
mmu-mir-9-2_R	cgctctagaTGTAACGTTTGCTTCAAAATGA
mmu-mir-375_F	cgcggatccGGGACTGAACTGGCAGTATAAGAG
mmu-mir-375_R	gggtctagaCTCTGGGACAGAGCAGGACT
mmu-mir-320_F	cgcggatccGCTGCAGCTCAGCTCCTC
mmu-mir-320_R	cgctctagaCAATGACCACGCCAAGGT
mmu-mir-29c_F	cgcggatccTGAGAAAGTTTTGTGTTTCAAGATG
mmu-mir-29c_R	cgctctagaGATAAACAGACATGATAGATTGAATG
mmu-mir29a_F	cgcggatccGCACCATTTGAAATCAGTGTTTC

mmu-mir29a_R	cgctctagaTATCCCCTGCTCCTCTCACA
mmu-mir-7a-2_F	cgcgatccgtccacctgcttcccgtag
mmu-mir-7a-2_R	agcctcgggtggtggtctct

miR RT-PCR

miR RT Primers

mmu-mir-7a-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACACAACA
mmu-miR-29a-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTAACCG
mmu-miR-29b-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACAACACT
mmu-miR-29c-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTAACCG
mmu-miR-183-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACAGTGAA
mmu-miR-9-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTCATAAC
mmu-miR-9*-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTTTTC
mmu-miR-320-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTCGCCC
mmu-miR-375-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACctcacgc
mmu-miR-124-RT	GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCggcatt

miR Forward PCR Primers

mmu-mir-7a-F	gccgccTGAAGACTAGTGATTT
mmu-miR-29a-F	gccgccTAGCACCATCTGAAAT
mmu-miR-29b-F	gccgccTAGCACCATTTGAAATC
mmu-miR-29c-F	gccgccTAGCACCATTTGAAAT
mmu-miR-183-F	gccgccTATGGCACTGGTAGAA
mmu-miR-9*-F	gccgccATAAAGCTAGATAACC
mmu-miR-320-F	gccgccAAAAGCTGGGTTGAGA
mmu-miR-375-F	GGCGTTTGTTCGTTTCGGCTC
mmu-miR-124-F	GGAGGTAAGGCACGCGGTG

Common miR Reverse Primer

miR-R	CCAGTGCAGGGTCCGAGGT
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Primers for mutating miR binding sites in MmMCT1 3'UTR

MmMCT1-3-124mut-F	ataGATATCagttttagtttttagaactcttttagagagcctt
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MmMCT1-3-124mut-R cccGATATCatattataatcttcatgacactgttaaagctaag
MmMCT1-3-29mut-F cccGATATCcagtgacagacagtgacatttgtgtgg
MmMCT1-3-29mut-R cccGATATCtgtagactagaggccagcagatggt

qRT-PCR

Primers for detecting *Mct1* and Cyclophilin A (*PPIA*)

MmMCT1_qPCR GTGTTATTGGAGGTCTTGGG
MmMCT1_qPCR AAGAAAGCCTGATTAAGTGGAG
MmPPIA_qPCR AACTGAATGGCTGGATGG
MmPPIA_qPCR CTACAGAAGGAATGGTTTGATGG