

SUPPLEMENTAL TABLES

SUPPLEMENTAL TABLE 1. Microarray data for gene expression profiling of 12 week-old Mlip^{-/-} vs Mlip^{+/+} male hearts. (Excel File)

SUPPLEMENTAL TABLE 2. Sequences of primers used for PCR

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
Abr	ACAAGATCATGGGCAAGGGG	TCACTCCAAAGACGCCTGTC
Acad11	CGCCTTGGACCTGGAAGAAT	TTCAAGGTCAGCAAGCGGAT
Acadl	ATGGCAAATACTGGGCATC	TCTTGCATCAGCTCTTTCA
Acadm	ACTGACGCCGTTTCAATTTT	GCTTAGTTACACGAGGGTGATG
Atp5g1	CCAGAGGCCCATCTAAGC	CCCAGAATGGCATAGGAGAAG
Atp5l	GGCCACATTTTGGCACTACG	GTGGCCACCAAACCATTCAG
Cd36	GCCAAGCTATTGCGACATGA	AAGGCATTGGCTGGAAGAAC
Cdkn1A	GCCTTAGCCCTCACTCTGTG	AGCTGGCCTTAGAGGTGACA
Cpt1b	TGCCTTTACATCGTCTCCAA	AGACCCCGTAGCCATCATC
Cpt2	CCAGCTGACCAAAGAAGCA	GCAGCCTATCCAGTCATCGT
Ddit4	TCTTGTCCGCAATCTTCGCT	GGAGGACGAGAAACGATCCC
Ephb1	TGCAGCAGGAAACGAGCTTA	AATTCCCGGACGGCTTCATT
Fam81A	CCATCTCAGAGCAGAGCACC	GATTTTGTCAAGCCTGGCCG
Gapdh	GCCTCGTCCCCTAGACAAAA	GATGGGCTTCCCCTTGTATGA
Glut1	AACATGGAACCACCGCTACG	CCATAAGCACAGCAGCCACA
Glut2	AGGAAGAGGCATCGACTGAG	CACAGAGACAGCCGTGAAGA
Glut4	CACTGCTTCTGGCTCTCACA	GCTCTCTCCAACCTCCGT
Hk1	TCACCGAGCTGAAGGATGAC	GCCGAGATCCAGTGCAATGA
Homer1	TGCCTCCGAAAAGATCTCG	CATGAGCTCGAGTGCTGAAGA
Hprt	GCGTCGTGATTAGCGATGATG	ATCCAGCAGGTCAGCAAAGAA
Mt1	CCCGGAGGCCATTGTATTGT	CAGGAGCAGCAGCCTAGAAA
Ndufa9	ATCCCTTACCCTTTGCCACT	CCGTAGCACCTCAATGGACT
Park2	GAGGAATGCGTGCTGCAAAT	CAGTGAGTCGCAATCCCCTT
Pdk4	GCTTGCCAATTTCTCGTCTC	CTTCTCCTTCGCCAGGTTCT
Pfkfb2	GTCCATCCTCGCACCATCTA	TCCTCTTCAACTGGCTCGTC
Pfkm	TTGACCTCTGGTGGAGATGC	TTCTCGCTCTCGGCAGTCTT
Rgs18	TTTTGGGTCGCTGTGAAGA	AACTCTGCTTTGTGCCGTA
Rplp0	CTCCAAGCAGATGCAGCAGA	ATAGCCTTGCGCATCATGGT
Samd5	AAACCCCATACTCACGCAA	CCTTTCCAGTCTTCCGCATCT
Setdb2	AAATCAAGTGCGGTTCCCTCT	TGGAGCAGATATGGCGATGG
Suclg2	CCCCGAAGATGGCTGAACC	ACCTCCTTTCAAACCGCTATTG
Ubc	AGCCCAGTGTTACCACCAAG	ACCCAAGAACAAGCACAAAGG
Uqcrc2	TGCCAGAGTTTCCAGACCTT	CAAATGAGACACCAAAGCA

SUPPLEMENTAL TABLE 3. List of antibodies used for Western blot.

Protein detected	Manufacturer	Reference	Dilution
Akt (pan)	Cell Signaling	4691	1:1000
AMPKα	Cell Signaling	2603	1:1000
AMPKβ1/2	Cell Signaling	4150	1:1000
Glut1	Abcam	ab652	1:1000
Glut4	Sigma	G4173	1:1000
Lamin A/C	Santa Cruz	sc-6215	1:1000
Lamin B	Santa Cruz	sc-6216	1:1000
MLIP	Custom	-	1:5000
mTOR	Cell Signaling	2983	1:1000
p70S6 Kinase	Cell Signaling	9202	1:1000
Phospho-4E-BP1 (Thr37/46)	Cell Signaling	2855	1:1000
Phospho-Akt (Ser473)	Cell Signaling	4060	1:1000
Phospho-Akt (Thr308)	Cell Signaling	2965	1:1000
Phospho-AMPKα (Thr172)	Cell Signaling	2535	1:1000
Phospho-AMPKβ1 (Ser108)	Cell Signaling	4181	1:1000
Phospho-LKB1 (Ser428)	Cell Signaling	3482	1:1000
Phospho-mTOR (Ser2448)	Cell Signaling	5536	1:1000
Phospho-p70S6 Kinase (Ser371)	Cell Signaling	9208	1:1000
Phospho-p70S6 Kinase (Thr389)	Cell Signaling	9234	1:1000
Phospho-PDK1 (Ser241)	Cell Signaling	3438	1:1000
Phospho-PTEN (Ser380)	Cell Signaling	9551	1:1000
Puromycin	Kerafast	3RH11	1:1000
Total OXPPOS Rodent antibody cocktail	AbCam	Ab110413	1:1000