

HK2 For	TGCTACAGGTCCGAGCCA
HK2 Rev	ATGCTGTCGTCACACGTGC
PKD4 For	CCGCTGTCCATGAAGCA
PKD4 Rev	GCAGAAAAGCAAAGGACGTT
Acss2 For	CTGTGGAGGAGCCACGGGAGTT
Acss2 Rev	TGGAGGAATGGGCCAGGGCAT
PFK For	CGTTGAGGTAGGAATACTTCTGCA
PFK Rev	ACCTCTTCCGAAAGGAGTGGA
SC5D For	ccaatggctggattcatct
SC5D Rev	gtccacagggtgaaaagcat
MVK For	gggacgatgtcttcttgaa
MVK Rev	gaacttggtcagcctgcttc
UCP3 For	TTTGGAGCTGGCTTCTGTG
UCP3 Rev	AAGGCCCTCTTCAGTTGCTC
MTE1 For	GACCTCCCCAAGAGCATAGA
MTE Rev	TCCTTGTAGGAGATGGTGTTC
IDH2 For	CCCTATTGCCAGCATCTTTG
IDH2 Rev	TGTCCAGGAAGTCTGTGGTG
PDHA1 For	GGGACGTCTGTTGAGAGAGC
PDHA1 Rev	TGTGTCCATGGTAGCGGTAA
PFKFB2 For	CGGGAATGGATCTACTCTGG
PFKFB2 Rev	GGAGAGCAAAGTGAGGGA TG
Glut1 For	GTCCTGCTCGTATTGCTGTG
Glut1 Rev	GCCTTTGGTCTCAGGGACTT
PPARα For	TCACAAGTGCCTGTCTGTGCG
PPARα Rev	CAGGTAGGCTTCGTGGATTC
CD36 For	GCCAAGCTATTGCGACATGA
CD 36 Rev	AAGGCATTGGCTGGAAGAAC

Supplemental Table 2

Application	Antibody	Dilution	Amplify	Company
Immunoblot	Actin	1:2000	no	Santa Cruz (sc-81178)
Immunoblot	p246PRAS40	1:1000	no	CST (#2640)

Immunoblot	PRAS40	1:1000	no	CST (#2691)
Immunoblot	pS6Rib	1:2000	no	CST (#4857)
Immunoblot	RibS6	1:500	no	CST (#2317)
Immunoblot	p4EBP1	1:1000	no	CST (#2855)
Immunoblot	p473AKT	1:1000	no	CST (#4058)
Immunoblot	p389S6K	1:500	no	CST (#9234)
Immunoblot	IRS-1	1:1000	no	CST (#2390)
Immunoblot	p389S6K	1:500	no	CST (#9205)
Immunoblot	AKT	1:2000	no	CST (#2966)
IHC	α -sarcomeric actin	1:100	no	Sigma (A2172)
IHC	PRAS40	1:100	no	CST (#2691)
IHC	p473AKT	1:50	yes	CST(#9271)
IHC	FLAG	1:100	yes	Sigma (F3165)