

Table S1. Primer sequences.

qPCR primers		
Gene	Forward (5'-3')	Reverse (5'-3')
PI4K2A	CGAGGCAATGACAACCTGGCTGA	GCCACCTTGATAACAGGCTCCT
PI4KB	TGGTCGGTGGATGACATAGGCG	CTGGTGATGCTGTCCACAGAGA
ACBD3	TCAGTGAGTCCAGCGATGACGA	GGCACAATCTCATCCAGCAAAGG
ZFP36L1	CCCTTTGAGGAAAACGGTGCCT	GCAAAAGCCGATGGTGTGGAAG
HNRNPD	GCCAAGGTTACGGTGGTTATGG	TGATGACCACCTCGCTGGATA
KHSRP	GTGGACAAACCTCTCCGCATCA	GCCAATCCGAGATCCGTACTCA
TTP	GCTATGTCGGACCTTCTCAGAG	CCTGGAGGTAGAAGTTGTGACAG
ZFP36L2	GTACGGCGAAAAGTGCCAGTTC	AGCCGATGGTATGAAAGGTGCG
STC1	GCAGGAAGAGTGCTACAGCAAG	CATTCCAGCAGGCTTCGGACAA
STC2	GCATGACTTTTCTGCACAACGCT	GGCTTATGCAGCCGAACTGTG
SEMA7A	CTTCTTCCGAGAGGACAATCTCG	GTGTTCCACTTGGAGACTGACAG
SPP1	CGAGGTGATAGTGTGGTTTATGG	GCACCATTCAACTCCTCGCTTTC
PDGFD	GCGGCTTCACTCTCAGGAGAAT	CTTGTGTCCACACCATCGTCTC
AXL	GTTTGGAGCTGTGATGGAAGGC	CGCTTCACTCAGGAAATCCTCC
ZEB1	GGCATAACCTACTCAACTACGG	TGGGCGGTGTAGAATCAGAGTC
SNAI1	TGCCCTCAAGATGCACATCCGA	GGGACAGGAGAAGGGCTTCTC
SNAI2	ATCTGCGGCAAGGCGTTTTCCA	GAGCCCTCAGATTTGACCTGTC
ChIP-ACBD3 promoter	CAAAGTCACTGAATTTCTCTGCA	TCGACGGACACCTCGAGT
ChIP-PI4K2A promoter	TCCAGTAAGCCAATTGGAAGCT	CGCGCTCCACACCACT
Clone primers		
Primers for 3'-UTR cloning (pRL-neo)		
PI4K2A 3'-UTR	GCTCTAGACTCCAGAGGCAGGCAGAG	AAGGAAAAAGCGGCCGAGCTGCCCTCCAGACA
PI4K2A 3'-UTR-MT182	CCACACCTTTCTTTTGGGTTTATCCGACGCTCCTC CATCTCCCAT	ATGGGAGATGGAGGAGCGTCCGATAAACCCAAAAGAAAG GTGTGG
PI4K2A 3'-UTR-MT183	GCTCTAGACTCCAGAGGCAGGCAGAG	AAGGAAAAAGCGGCCG AGTGCCCCCTCCAGACACAGAAGACGCTCTTTTACTCCC TCTGAGGC
ACBD3 3'-UTR	GCTCTAGACTAGATAAAAAATGTTGTTACAAAGTCTG GA	AAGGAAAAAGCGGCCGCTCGCACTTGTACTGTACTAATC AACAG
ACBD3 3'-UTR-MT34a	GAAGTAACATGCACTAATATGAAATCTCAGGCTG AGACAGTCTATTTCTTTAATTGTTACTAC	GTAGTAACAAATTAAGAAAATAGACTGTCTCAGCCTGA GATTTCCATATTAGTGCAATGTTACTTC
Primers for 3'-UTR cloning (pEGFP-C3)		
ACBD3 3'-UTR-FL	CCGCTCGAGTGACTAGATAAAAAATGTTGTTACAAAG TCTGGA	CGGGATCCTCGCACTTGTACTGTACTAATCAACAG
ACBD3 3'-UTR-1.6k	CCGCTCGAGTGACTAGATAAAAAATGTTGTTACAAAG TCTGGA	CGGGATCCACAGTATTTTCTCATAAAAAAAAATCCA
ACBD3 3'-UTR-1.1k	CCGCTCGAGTGACTAGATAAAAAATGTTGTTACAAAG TCTGGA	CGGGATCCTTAAGCATGGGCATATGTATTTCC
ACBD3 3'-UTR-0.9k	CCGCTCGAGTGACTAGATAAAAAATGTTGTTACAAAG TCTGGA	CGGGATCCGATTTTATGTATTTTAAATTCAGTAGGTGCC
ACBD3 3'-UTR-MT1	GCACCTACTGAATTAATAACATAAAATCACTCAAA TATAATTCAGCATATGGGAAGTAACA	TGTTACTTCCCATATGCTGAATTATATTTGAGTGATTTTA TGTATTTTAAATTCAGTAGGTGC
ACBD3 3'-UTR-MT2	GAAATCACTGCCAGACAGTCTACTCTCTTTAAT TTGTTACTACTTAGTCACACTTAG	CTAAGTGTGACTAAGTAGTAACAAATTAAGAGAGTAGA CTGTCTCTGGCAGTGATTTCC
Primers for gene expression (pcDNA3.1)		
PI4K2A (HA tag)	CCGCTCGAGATGTACCCATACGATGTTCCAGATTAC GCTATGGACGAGACGAGCCC	GCTCTAGACTACCACCATGAAAAGAAGGG
D308A (HA tag)	CTTACATCATCCGCAACACTGCTCGAGGCAATGACA ACTGG	CCAGTTGTCATTGCCTCGAGCAGTGTGCGGATGATGTAA G
PI4K2A (1-479) (MYC tag)	CCGCTCGAGATGGAACAAAACTCATCTCAGAAGAG GATCTGGACGAGACGAGCCAC	CGGGGTACCCTACCACCATGAAAAG
PI4K2A (1-266) (MYC tag)	CCGCTCGAGATGGAACAAAACTCATCTCAGAAGAG GATCTGGACGAGACGAGCCAC	CGGGGTACCCTAGCCTTCAACAAAGAG
PI4K2A (79-266) (MYC tag)	CCGCTCGAGATGGAACAAAACTCATCTCAGAAGAG GATCTGGCGCAGGCCAGGCTC	CGGGGTACCCTAGCCTTCAACAAAGAG

PI4K2A (79-479) (MYC tag)	CCGCTCGAGATGGAACAAAACTCATCTCAGAAGAG GATCTGGCGCAGGCCAGGCTC	CGGGGTACCCTACCACCATGAAAAG
PI4K2A (267-479) (MYC tag)	CCGCTCGAGATGGAACAAAACTCATCTCAGAAGAG GATCTGTACAAAGATGCAGACT	CGGGGTACCCTAGCCTTCAACAAAGAG
Primers for gene expression (pEGFP-C3)		
ACBD3	GGAATCATACTGGCTGCCGTCTG	GGGGTACCTCTAGTATAATAGACTCTGTAGTAGACTGATT TTGA
Primers for gene expression (Sluc-P4M2X-T2A-Venus)		
RAB6A	CCCAAGCTTATGTCCACGGGCGGAG	GCTCTAGATTAGCAGGAACAGCCTCCTTC