

Table SI. Sequences of primers for PCR.

Gene	Direction	Sequence (5'-3')
GAPDH	Forward	ACAAC TTTGGTATCGTGGAAGG
	Reverse	GCCATCACGCCACAGTTTC
HAND2-AS1	Forward	GGAGTCACAGGCAGTCGTAGA
	Reverse	GAAGGCACAGATCATT CATGG
LEMD1-AS1	Forward	AATGACCGCAATCCCAAGGT
	Reverse	GGTGACTAGCAGTGCGTGAT
MPPED2	Forward	ACGCACTACAACATCAACCAGAGC
	Reverse	TGGACACAGAGGGGAAACGGTAG
SAMD12	Forward	GATCACCTGCCCATGCTGAAG
	Reverse	GTAAGATGTGCTGCCGGAGGTTC
LONRF1	Forward	GTGGACTGCCTGGTGTTC AACTAC
	Reverse	CTGAAGTCTGAAGCGGCGATGG
SORD	Forward	GCCCAAATGAGGTCTTGCTGAGG
	Reverse	CGTGGCACAGAAGAAGATGGAAGG
SERPINA1	Forward	TGTGCTGCCTGGTCCCTGTC
	Reverse	GCTGGCTGTCTGGCTGGTTG

Table SII. List of antibodies used for western blotting.

Target protein	Cat. no.	Company	Species	Dilution
Mpped2	YN5340	Immunoway	Rabbit	1:1,000
Samd12	SC-377123	Santa Cruz	Mouse	1:50
		Biotechnology, Inc.		
Lonrf1	YN3392	Immunoway	Rabbit	1:1,000
Sord	Ab185705	Abcam	Rabbit	1:500
Serpina1	YT5056	Immunoway	Rabbit	1:1,000