

Table S1: Sequences of Primers for qPCR and siRNAs

Primers for qPCR

| | | |
|-----------|------------------------|-------------------------|
| LINC00707 | TCACATCTGTGAAAAGAGTGCT | CTGGACTGTGAGTACCAGGC |
| Cdc42 | CCATCGGAATATGTACCGACTG | CTCAGCGGTCGTAATCTGTCA |
| MNAT1 | AGCTCTGTATGAATACCAGCCA | AGTCTTCCTAGCATCTCAAGCTC |
| PCSK9 | ATGGTCACCGACTTCGAGAAT | GTGCCATGACTGTCACACTTC |
| ATG5 | AAGATGTGCTTCGAGATGTGTG | TGGTGTGCCTTCATATTCAAAC |
| HRK | AGGCGGAACCTGTAGGAACG | GAGCGGCTGGTATTCTGAGG |
| STK17A | TCTGAGTCGGCTGTTGATTTC | GGGGTGCTTTAGACATTCTTCA |
| GAPDH | GGGAGCCAAAAGGGTCAT | GAGTCCTCCACGATACCAA |

siRNA sequences:

| | | |
|-----------------|--|---|
| si-LINC00707 1# | AGUGUGCUCUAUGCUGGCUUGAAUA | UAUUCAAGCCAGCAUAGAGCACACU |
| si-LINC00707 2# | ACAGGUGGAUAAGACUAACACUGAA | UUCAGUGUUAGUCUUUCCACCUGU |
| si-LINC00707 3# | CACCCUCUAUUAGUGUUAACAGACA | UGUCUGUUAACACUAAUAGAGGGUG |
| si-Cdc42 | GCAAGAGGAUUAUGACAGA dTdT | UCUGUCAUAAUCCUCUUGCTT |
| Scrambled | UUCUCCGAACGUGUCACGUTT | ACGUGACACGUUCGGAGAATT |
| sh-LINC00707 | CACCGCACCTCTATTAGTGTTAACAGACA CGAATGTCTGTTAACACTAATAGAGGGTG | AAAACACCCTCTATTAGTGTTAACAGACAT TCGTGTCTGTTAACACTAATAGAGGGTGC |
| sh-Cdc42 | CACCGCAAGAGGATTATGACAGACGAATCT GTCATAATCCTCTTGC | AAAAGCAAGAGGATTATGACAGATTCTGTC TGCATAATCCTCTTGC |

Table S2: Differentially expressed genes analyzed by microarray

| Probe ID | T test p-value | Fold Change | | Annotation |
|--------------|----------------|-------------|------------|----------------------|
| ProbeName | pvalues | foldchange | Regulation | GeneSymbol Accession |
| A_23_P200560 | 0.000296055 | 0.175249858 | down | CDC42 NM_001039802 |
| A_32_P18723 | 0.000805435 | 0.190103034 | down | TMEM64 NM_001008495 |
| A_23_P111373 | 0.000709433 | 0.192499909 | down | MRS2 NM_020662 |
| A_24_P175059 | 0.001563131 | 0.264900676 | down | ATG5 NM_004849 |
| A_23_P32615 | 0.003626983 | 0.408216177 | down | MNAT1 NM_002431 |
| A_23_P82550 | 0.002107034 | 0.470830741 | down | STK17A NM_004760 |
| A_32_P170454 | 0.010417781 | 0.488698996 | down | HRK AK094730 |
| A_32_P142440 | 0.000528975 | 0.494150348 | down | PCSK9 NM_174936 |

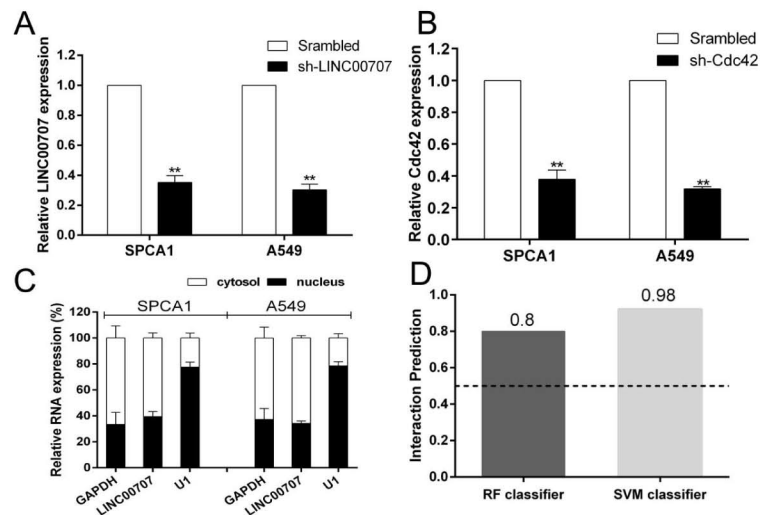


Fig. S1: (A and B) Interference efficiency of sh-LINC00707 and sh-Cdc42. (C) Subcellular distribution of LINC00707 in LAD cells. GAPDH was used as cytoplasm control and U1 was used as nucleus control. (D) Interaction probabilities of LINC00707 and Ago2 predicted by bioinformatic tool.