

Table S1. Primers and probes

Gene	Sequence
Total UCA1	F :5'- CTCTCCATTGGGTTACCATTC -3' R: 5'- GCGGCAGGTCTTAAGAGATGAG -3'
UCA1-1.4 kb	F: 5'- CACCATGCACCTTGTGACTC -3' R: 5'- CGTATAGAAGACCACCTAAAC -3'
UCA1-2.3kb	F: 5'- GGAGCCAAGAAGTCTGGAG -3' R: 5'- GTCATAATGGTGGAAATGTCG -3'
GAPDH	F: 5'- CCCACTCCTCCACCTTTGA -3' R : 5'- CCACCACCCTGTTGCTGTAG -3'
U6 snRNA	F: 5'- CGGCAGCACATATACTAAAAT R: 5'- AAAATATGGAACGCTTCACGA
ACTB	F: 5'- ACTCTTCCAGCCTTCCTTCC R: 5'- CTCGTCATACTCCTGCTTGC
sgUCA1	5' GTGCATGGTGGAGAGATGAT-3'
Taqman UCA1 (Cat# 4331182)	Nucleotides 879~905 (NR_015379.3)
RNAscope™ Probe- Hs- UCA1(Cat#417521)	Nucleotides 659~2289 (NR_015379.3)
UCA1-mHRE4 -U	5'-GCCAGGTGTGGTGGC <u>AT</u> ATGCCTGTAATCCCAGC-3'
UCA1-mHRE4-L	5'-GCTGGGATTACAGGC <u>AT</u> ATGCCACCACACCTGGC-3'