

The primers used in RT-qPCR are shown

Genes	Forward Primer 5' >3'	Reverse Primer 5' >3'
<i>UCA1</i>	CTCTCCATTGGGTTCCACCATTC	GCGGCAGGTCTTAAGAGATGAG
<i>H19</i>	TACAACCACTGCACTACCTG	TGGCCATGAAGATGGAGTCG
<i>TC1500845</i>	ACCACGACTCCCAAGAGGTA	CAGCTGCGATGGTGAGAACT
<i>TC0101441</i>	CAAGGCAGGTGAGAACGAGT	CTCGACTTAGGGAGCTGCAC
<i>ROR</i>	CCAGGACAATGAAACCAC	TGGAGCAGGTATGAGATT
<i>MALAT1</i>	GGATCCTAGACCAGCATGCC	AAAGGTTACCATAAGTAAGTTCCAGAAAA
<i>NEAT1</i>	CCAGTTTTCCGAGAACCAAA	ATGCTGATCTGCTGCGTATG
<i>SRA1</i>	TGATGACATCAGCCGACGCCT	GCTGCAGATTTCTCTTCATTG
<i>HOTAIR</i>	CAGTGGGGAACTCTGACTCG	GTGCCTGGTGCTCTCTTACC
<i>BC200</i>	AGACCTGCCTGGGCAATATAGC	GTTGTTGCTTTGAGGGAAGTTACG
<i>RP11-445H22.4</i>	GTAAAGCCATCACCAGGACAACC	CTCCCTAACAGAAGCCCACCA
<i>TC01000223</i>	ATGAGGGCTCTGCTCTATGAATGG	GGCTTGTTTCAGTGTCTGTTAAGGGT
<i>TC01001686</i>	GGCTACTTACATGGTCCAGCA	TAGCATGGAAAGGACCACTGC
<i>ESR1</i>	CCACCAACCAGTGCACCATT	GGTCTTTTCGTATCCCACCTTTC
<i>ESR2</i>	GTCACTAACTTGGAAGGTGGG	AGATGTGATAACTGGCGATGG
<i>NANOG</i>	ACCTATGCCTGTGATTTGTGG	AGTGGGTTGTTTGCCTTTGG
<i>SOX2</i>	TCAGGAGTTGTCAAGGCAGAG	CGCCGCCGATGATTGTTATTA

<i>POU5F1</i>	GTGGAGGAAGCTGACAACAA	GCCGGTTACAGAACCACACT
<i>TSHR</i>	TGGTGTGGTTCGTTAGTCTG	AGTTTGTAGTGGCTGGTGAG
<i>Tg</i>	TCGTCTTGCCCTTCAGTTTAC	GTAAATGTGCCTCTTGTGCC
<i>pre-H19</i>	CCCAGAACCCACAACATGAA	GAGCTGGGTAGCACCATTT
<i>ACTB</i>	TTGCCGACAGGATGCAGAAGGA	AGGTGGACAGCGAGGCCAGGAT

shRNA sequences

Name	5' >3'
shER β -1	CTCACCATCTAGCCTTAATTC
shER β -2	GGTCGTGTGAAGGATGTAAGG
shH19-1	GAGTTAGCAAAGGTGACATCT
shH19-2	GACGTGACAAGCAGGACATGA
shH19-3	GCACTACCTGACTCAGGAATC
NTC	TTCTCCGAACGTGTCACGTTTC

RNA probe sequences for H19 in FISH assay

Name	Forward Primer 5' >3'	Reverse Primer 5' >3'
<i>H19</i> probe	AGCTAGAGGAACCAGACCTCATCA	AATGGAATGCTTGAAGGCTGC

siRNA sequences

Name	5'>3'
siER β -1	GCCCAA AUGUGUUGUGGCCTT
siER β -2	UCAUUAUGUCCUUGAAUGCTT
siNC	UUCUCCGAACGUGUCACGUTT

miRNA mimic

Name	5'>3'
miR-127-5p	CUGAAGCUCAGAGGGCUCUGAU
miR-876-3p	UGGUGGUUUACAAAGUAAUUCA
miR-1976	CCUCCUGCCCUCCUUGCUGU
miR-3126-5p	UGAGGGACAGAUGCCAGAAGCA
miR-3198	GUGGAGUCCUGGGGAAUGGAGA
miR-4268	GGCUCCUCCUCUCAGGAUGUG
NC	UUCUCCGAACGUGUCACGUTT

miRNA inhibitor

Name	5'>3'
miR--3126-5p	UGCUUCUGGCAUCUGUCCUCA
NC	CAGUACUUUUGUGUAGUACAA

The primers used in plasmid construction are shown

plasmid	Forward Primer 5' >3'	Reverse Primer 5' >3'
pGL3-H19-WT	ATATGGTACCACAACCCTCACCAAAGGCCAA	ATATAAGCTTCTCCCTCACCCCTGCTCCTCG
pGL3-H19-Del	CGGGGTACCGGTCAACTGGATGGGAATCGG	ATATAAGCTTCTCCCTCACCCCTGCTCCTCG
pGL3-H19-Mut	ACCGGGGTGCCAGCGGCTGTCCGACCTCTG TCGTGCGGAAACCGCGGTG	GGTCACCGCGGTTTCCGCACGACAGAGGTC GGACAGCCGCTGGGCACCCC
psiCHECK2-ESR2-WT	CCGCTCGAGCGCCTGGCCCTGAGGTGAACTG	ATAAGAATGCGGCCGCCCAAATGAGGGAC CACACAGCAGAAAGATG
psiCHECK2-ESR2-Mut	GGGCTTCATCTTTCTGCTGTGTGTATTTATAT TTGGGCGGCCGCTGGCCGCAATAA	AGATATTTTATTGCGGCCAGCGGCCGCCCA AATATAAATACACACAGCAGAAAGATG
pcDNA6b-H19-Mut(miR-3126-5p binding sites)	GCCGGGCAGGTGAGTCCCTAAAAAACCAGG CCTCGCTTCCCCAGC	GGGAAGCGAGGCCTGGGTTTTTTAGGGACT CACCTGCCCGGCAGA