

The nucleocytoplasmic translocation and up-regulation of ING5 protein in breast cancer: a potential target for gene therapy

Supplementary Materials

Supplementary Table 1: Primers employed in the present study

Names	Primer's sequence	Distribution	AT(oC)	Product size (bp)	Extension time (s)
<i>E-cadherin</i>	F:5'-CCGCCATCGCTTACA-3' R:5'-GGCACCTGACCCTTGTA-3'	NM-057374.2 1017-1278	60	262	34
<i>N-cadherin</i>	F:5'-GAAAGACCCATCCACG- 3' R: 5'-CCTGCTCACCACCACTA- 3'	NM-031333.1 2365-2581	60	217	34
<i>MMP-2</i>	F:5'- TGATCTTGACCAGAATACCATCGA- 3' R: 5'- GGCTTGCGAGGGAAGAAGTT - 3'	XM_004057658.2 429-518	60	94	34
<i>MMP-9</i>	F:5'- TGTACCGCTATGGTTACT - 3' R: 5'- CCTCAAAGGTTTGAAT - 3'	NM_004994.2 169-353	60	189	34
<i>Zeb1</i>	F:5'- GCTTGTGATTTGTGTGACAAGA - 3' R: 5'-AATCGCATGTGTTCAATCAA - 3'	XM_017016603.1 6160-6305	60	146	34
<i>Zeb2</i>	F:5'- TCTGCGACATAAATACGA- 3' R: 5'- GAGTGAAGCCTTGAGTGC- 3'	XM_019022312.1 3189-3296	60	108	34
<i>Snail</i>	F:5'-GGCTCAGTTCGTAAAGG-3' R:5'-GCAGCGGTAGTCCACA-3'	NM-001032543.17- 363	60	357	34
<i>Slug</i>	F:5'-ATGCCTGTCATACCACAA-3' R: 5'-GAGGAGGTGTCAGATGGA-3'	FBgn0028564 290-462	60	173	34
<i>VEGF</i>	F:5'- GCGCTCGGTGCTGGAATTTG -3' R: 5'- TAGAGCAATCTCCCAAGCCG -3'	XM_016955597.1 138-298	60	161	34
<i>β-catenin</i>	F:5'- GCTTGGAATGAGACTGCTGA -3' R: 5'- CTGGCCATATCCACCAGAGT -3'	X87838 2221-2334	60	114	34
<i>NF-κB</i>	F:5'- GTGGACTACCTGGTGCCTCTA -3' R: 5'- GTCCTTGGGTCCAGCAGTT -3'	XM_011532006.2 437-630	60	194	34
<i>Cyclin E</i>	F: 5'-GGATGTTGACTGCCTTGA-3' R: 5'-CGCACCCTGATACCCT-3'	BA000005 1044-1150	60	107	34
<i>p21</i>	F: 5'-ACTGTCTTGTACCCTTGTGCC-3' R: 5'-AAATCTGTCATGCTGGTCTGC-3'	XM_003950827 572-679	60	108	34
<i>BRMS1</i>	F: 5'- CTGTCCAGCCTCCAAGCAAAG-3' R: 5'- TCTAGGTCCAGCATCTCACTGAC-3'	XM_001171301.4 278-476	60	199	34
<i>GST-π</i>	F: 5'- CGGGCAAGGATGACTATGTGA -3' R: 5'- GGGCTAGGACCTCATGGATCA -3'	BC044846.1 1137-1475	60	339	34
<i>ING5</i>	F: 5'- CAAGGAATACAGTGACGACAA -3' R: 5'- AAAATCACTGCCCTCCATC -3'	NM_001330162.1 272-407	60	136	34
<i>GAPDH</i>	F: 5'-CAATGACCCCTTCATTGACC-3' R: 5'- TGGAAGATGGTGTGGGATT-3'	NM_002046.3 201-335	60	135	34

AT = annealing temperature.

Supplementary Table 2: The antibodies used in the present study

Names	Source	Company
GAPDH	Rabbit	Wanleibio
ING5	Rabbit	Proteintech Biotech. Inc.
E-Cadherin	Rabbit	Abcam
N-Cadherin	Mouse	Abcam
Twist	Rabbit	Wanleibio
Snail	Rabbit	Wanleibio
Zeb1	Rabbit	Wanleibio
Slug	Rabbit	Abcam
VEGF	Rabbit	Santa Cruz Biotech. Inc.
Claudin-1	Mouse	Santa Cruz Biotech. Inc.
p-NF- κ B	Rabbit	Santa Cruz Biotech. Inc.
p-Akt	Rabbit	Santa Cruz Biotech. Inc.
Akt	Rabbit	Santa Cruz Biotech. Inc.
p53	Rabbit	Wanleibio
Cdk4 (C-22)	Rabbit	Santa Cruz Biotech. Inc.
Cyclin D1 (H-295)	Rabbit	Santa Cruz Biotech. Inc.
Cdc2 (B-6)	Mouse	Santa Cruz Biotech. Inc.
Cyclin B1 (GNS1)	Mouse	Santa Cruz Biotech. Inc.
c-myc (9E10)	Mouse	Santa Cruz Biotech. Inc.
AIF(E-1)	Mouse	Santa Cruz Biotech. Inc.
ADFP	Rabbit	Abcam
FBXW7	Rabbit	Wanleibio
MRP	Mouse	Abcam