

### Supplementary table 1: ShRNA oligo sequences

Oligonucleotide	Sequence 5'-3'
DBD-p63 forward	5'GATCCCCAACCATGAGCTGAGCCGTGAATTTTCAAGAGAAATTCACGGCTCAGCTCATGGTTTTTTTTGGAAA3'
DBD-p63 reverse	5'AGCTTTTCCAAAAAACCATGAGCTGAGCCGTGAATTTCTCTTGAAAATTCACGGCTCAGCTCATGGTTGGG 3'
p63-UTR forward	5'GATCCCCACATGTGAGTGACGATGATTTCAAGAGAATCATCGTCACTCACATGTTTTTTGGAAA3'
p63-UTR reverse	5'AGCTTTTCCAAAAACATGTGAGTGACGATGATTTCTCTTGAAATCATCGTCACTCACATGTGGG3'
p53 forward	5'GCTTTTCCAAAAAGACTCCAGTGGTAATCTACTCTCTTGAAGTAGATTACCACTGGAGTCGGG3'
p53 reverse	5' AGCTTTTCCAAAAAGACTCCAGTGGTAATCTACTCTCTTGAAGTAGATTACCACTGGAGTCGGG3'

### Supplementary table 2: Primers for $\Delta$ Np63 $\alpha$

Oligonucleotide	Sequence 5'-3'
$\Delta$ Np63 $\alpha$ forward	5' GGATCCTCGCCATGTTGTACCTGGAAAACAA3'
p63 $\alpha$ -HA tagged reverse	5' TGAGAGCTCGAGTCATTAAGCGTAATCTGGAACATCGTATGGGTA3'

### Supplementary table 3: Primers for site-directed mutagenesis

Site-directed mutagenesis Oligonucleotide	Sequence 5'-3'
DBD- p63 forward	5' CGGTGCCCCAACCATGAACTTAGTCGAGAATTCAACGAGGGACAG3'
DBD-p63 reverse	5' CTGTCCCTCGTTGAATTCTCGACTAAGTTCATGGTTGGGGCACCG3'

### Supplementary table 4: siRNA sequences

siRNA	Sequence
ScrGFP	Sense 5'GCAGCACGACUUCUUCAAGdTdT3'
	Anti-sense 5'CUUGAAGAAGUCGUGCUGCdTdT3'
p63 UTR1	Sense 5'CAUCUGACCUGGCAUCUAAAdTdT3'
	Anti-sense 5'UUAGAUGCCAGGUCAGAUGdTdT3'

### Supplementary table 5: Primers for QRT-PCR

Target	Primer	Sequence 5'-3'
p63- $\alpha/\beta$	Forward	5' CAGCACCAGCACTTACTTCAGA3'

p63- $\alpha$	Reverse	5'CCACCTCGGTAAGAAACTGA3'
p63- $\beta$	Reverse	5'TCAGACTTGCCAGATCCTGA3'
p63- $\gamma$	Forward	5'ACAGGAAGGCGGATGAAGATAGCA3'
p63- $\gamma$	Reverse	5'GGCTCCACAAGCTCATTCT3'
$\Delta$ N-p63	Forward	5'GGAAAACAATGCCCAGACTC3'
$\Delta$ N-p63	Reverse	5'GTGGAATACGTCCAGGTGC3'
TGF $\beta$ -1	Forward	5'GCCCTGGACACCAACTATTGC3'
TGF $\beta$ -1	Reverse	5'GCACTTGCAGGAGCGCA3'
TGF $\beta$ -2	Forward	5'ACGTGTTGAGAGATCGAGG3'
TGF $\beta$ -2	Reverse	5'CCCAGCACTCAGTCAACGTC3'
TGF $\beta$ -3	Forward	5'GTCACTGACACTGTGCGCGA3'
TGF $\beta$ -3	Reverse	5'CTGGCCTCAGCTGCACTTAC3'
Snail	Forward	5'CCTCCCTGTCAGATGAGGAC3'
Snail	Reverse	5'GTTCCCTTATGGAGTCGGACC3'
Slug	Forward	5'AGATGCATATTCGGACCCAC3'
Slug	Reverse	5'CCTCATGTTTGTGCAGGAGA3'
Twist	Forward	5'GGAGTCCGCAGTCTTACGAG3'
Twist	Reverse	5'GGAGATGGTCCAGGAGGTCT3'
RPLPO	Forward	5'ATCAACGGGTACAAACGAGTC3'
RPLPO	Reverse	5'CAGATGGATCAGCCAAGAAGG3'