

Sequences of the used shRNA, primers, probes

shRNA sequences (sense, antisense sequences targeting SOCS2 or luciferase are underlined)

shSOCS2-1

GATCCCCGAAGCCAAAGAGAAATTAATTCAAGAGATTAATTTCTCTTTGGCTTCTTTTTGGAAA

shSOCS2-3

GATCCCCGCTAAAGACAAGAATATCATTCAAGAGATGATATTCTTGTCTTTAGCTTTTTGGAAA

shLuc

GATCCCCCTTACGCTGAGTACTTCGATTCAAGAGATCGAAGTACTCAGCGTAAGTTTTGGAAA

Primer and probes for qRT-PCR

SOCS2 forward

CAGATGTGCAAGGATAAGCGG

SOCS2 reverse

CAGATAAAGGTGAACAGTGCCG

SOCS2 probe

6-FAM-CAGGTCCAGAAGCCCCCGG-TAMRA

TBP forward

5'-CACGAACCACGGCACTGATT-3';

TBP reverse

TTTTCTTGCTGCCAGTCTGGAC

TBP probe

6-FAM-TCTTCACTCTTGGCTCCTGTGCACA-TAMRA

Primers and probes for methylation analysis

SOCS2 forward

AATTAAACTCCCGAACTCGAA

SOCS2 reverse

GTTGGGTTTGCGGGGTTT

SOCS2 probe

6-FAM-AAACGTTCGAACGCCTCCC-TQ2

ACTB forward

CCAATAAAACCTACTCCTCCCTTAA

ACTB reverse

GTGATGGAGGAGGTTTAGTAAGTT

ACTB probe

R6G-ACCACCACCAACACACAATAACAAACACA-BBQ-650