

Supplementary information

Telomerase reverse transcriptase acts in a feedback loop with NF- κ B pathway to regulate macrophage polarization in alcoholic liver disease

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Table S1. Nucleotide sequence of primers used for real time-PCR.

Gene	Accession no.	Forward	Reverse
TERT	NM_009354.1	5'-GGCTCTTCTTCTACCGTAAG-3'	5'-TGATGCCTGACCTCCTCTTG-3'
TNF- α	NM_001278601.1	5'-CACCACCATCAAGGACTCAA-3'	5'-AGGCAACCTGACCACTCTCC-3'
IL-1 β	NM_008361.3	5'-CTTTGAAGTTGACGGACCC-3'	5'-TGAGTGATACTGCCTGCCTG-3'
NOS2	NM_010927.3	5'-AATCTTGGAGCGAGTTGTGG-3'	5'-CAGGAAGTAGGTGAGGGCTTG-3'
CCL2	NM_011333.3	5'-GGGCCTGCTGTTACAGTT-3'	5'-CCAGCCTACTCATTGGGAT-3'
Arg-1	NM_007482.3	5'-CTCCAAGCCAAAGTCCTTAGAG-3'	5'-AGGAGCTGTCATTAGGGACATC-3'
Mrc2	NM_008626.3	5'-TGCAAGCAATGCATCCAAGCCT-3'	5'-ACGGCTTTCCGTGTGAGTTT-3'
IL-10	NM_010548.2	5'-GCCTTGCAGAAAAGAGAGCT-3'	5'-AAAGAAAGTCTTCACCTGGC-3'
CD163	NM_001170395.1	5'-TGGGTGGGGAAAGCATAACT-3'	5'-AAGTTGTCGTCACACACCGT-3'
GAPDH	NM_001289726.1	5'-GGACCTCATGGCCTACATGG-3'	5'-TAGGGCCTCTCTTGCTCAGT-3'

Supplementary figure legends

Figure S1. Effect of TERT over-expression on murine M2 macrophage polarization. GV144-TERT was transiently transfected into RAW264.7 cells without and with IL-4 stimulation. (a) TERT successful over-expression was verified by real-time PCR and western blot in IL-4-stimulated RAW 264.7 cells. The results are shown as relative expression against control expression without treatment. (b) The mRNA levels of M2 macrophages biomarkers including Arg-1, IL-10, Mrc2 and CD163 were detected by real-time PCR. The results are shown as relative expression against control expression without treatment. (c) The secretion of proinflammatory cytokine IL-10 was determined by ELISA. Data shown are the mean \pm SD from 3 independent experiments. * $P < 0.05$, ** $P < 0.01$ vs control group. # $P < 0.05$, ## $P < 0.01$ vs IL-4-treated group.

