

Additional File 1 for:

**Low-intensity pulsed ultrasound promotes mesenchymal stem cell
transplantation-based articular cartilage regeneration via inhibiting the
TNF signaling pathway**

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Table S1. Lists of hUC-MSCs qPCR primers.

Gene	Sense Strand (5'-3')	Antisense Strand (5'-3')
<i>GAPDH</i>	CTCCTCACAGTTGCCATGTA	GTTGAGCACAGGGTACTTTATTG
<i>SOX-9</i>	ACCTTTGGGCTGCCTTATATT	TCCCTCACTCCAAGAGAAGAT
<i>COL-II</i>	CAAACCCAAAGGACCCAAGTA	TGTGAGAGGGTGGGATGAA
<i>COL-X</i>	ACCCAAGGACTGGAATCTTTAC	GCCATTCTTATACAGGCCTAC
<i>ACAN</i>	AGTCCTCAAGCCTCCTGTACTCA	CGGGAAGTGGCGGTAACA
<i>COMP</i>	CGAGTCCGCTGTATCAACACC	TCCGTGCAAACCTGCTTGT
<i>TNF-α</i>	TCAGAGGGCCTGTACCTCAT	GGAGGTTGACCTTGGTCTGG
<i>IL-1β</i>	TGAGCTCGCCAGTGAAATGA	CATGGCCACAACAACCTGACG
<i>CXCL8</i>	CAGTTTTGCCAAGGAGTGCT	AGTTTTCTTGGGGTCCAGA

GAPDH, glyceraldehyde 3-phosphate dehydrogenase; *SOX-9*, sex-determining region Y-box 9; *COL-II*, type II collagen; *COL-X*, type X collagen; *ACAN*, aggrecan; *COMP*, cartilage oligomeric matrix protein; *TNF- α* , tumor necrosis factor- α ; *IL-1 β* , interleukin-1 β ; *CXCL8*, C-X-C motif chemokine ligand 8.

Table S2. Lists of C28/I2 qPCR primers.

Gene	Sense Strand (5'-3')	Antisense Strand (5'-3')
<i>GAPDH</i>	GGTCGGTGTGAACGGATTTGG	GCCGTGGGTAGAGTCATACTGGAAC
<i>TNF-α</i>	ATGCTGGGACAGTGACCTGG	ATTGTCATACCAGGAAATGAGCTT
<i>IL-1β</i>	CCAAAAGATGAAGGGCTGCT	CCTTGATGGTGGTGCATGAG
<i>IL-6</i>	TTCCATCCAGTTGCCTTCTTG	GAAGGCCGTGGTTGTCACC

GAPDH, glyceraldehyde 3-phosphate dehydrogenase; *TNF- α* , tumor necrosis factor- α ; *IL-1 β* , interleukin-1 β ; *IL-6*, interleukin 6.