

**Table S1 Primer sequences used in quantitative real-time polymerase chain reaction**

Gene symbol	Forward primer	Reverse primer	Reference
SOX9	GACTTCCGCGACGTGGAC	GTTGGGCGGCAGGTA CTG	[18]
COL2A1	GGCAATAGCAGGTTCCACGTACA	CGATAACAGTCTTGCCCACTT	[18]
Aggrecan	TCGAGGACAGCGAGGCC	TCGAGGGTGTAGCGTGTAGAGA	[18]
COL6A2	GACGCTGTTCTCCGACCT	GGTCTGGGCACACGATCT	[18]
MMP-3	ACGCCAGCCAACTGTGATCCT	ATATGCGGCATCCACGCCTGAA	[38]
MMP-13	TGGAAGGATGCCTTTTTTTTCTC	CACCCTCCCCAAGTATCAATAGG	[22]
TIMP-1	CACCAAGACCTACACTG	GTGACGGGACTGGAAG	[27]
TIMP-2	TCTGGATGGACTGGGTCACA	CTTGATGCAGGC GAAGAACTT	[28]
ADAMTS-1	GGACAGGTGCAAGCTCATCTG	TCTACAACCTTGGGCTGCAAA	[26]
ADAMTS-4	ACTGGTGGTGGCAGATGACA	TCACTGTTAGCAGGTAGCGCTTT	[26]
ADAMTS-5	GGACCTACCACGAAAGCAGATC	GCCGGGACACACGGAGTAC	[26]
IL-1 $\beta$	TGTTGAAAGATGATAAGCCCACTCT	CAAATCGCTTTTCCATCTTCTTC	[45]
IL-6	ATGCCTGACCTCAACTCCACT	GCCACCCAGCTGCAAGATTTT	[45]
TGF- $\beta$ 1	CTGCTACCGCTGCTGTGGCTACTG	CGGTCGCGGGTGCTGTTGT	[45]
TNF- $\alpha$	CGAGTCTGGGCAGGTCTACTTT	AAGCTGTAGCCCCAGTGAGTT	[45]
FOXF1	AAGCCGCCCTATTCTACATC	GCGCTTGGTGGGTGAACT	[18]
PAX1	TGGCCCTCGGCTCATTC	GCCCCTGTTTGTCTCATAAA	[18]
CA12	CGTGCTCCTGCTGGTGATCT	AGTCCACTTGGAACCGTTCCT	[18]
CK8	CTTCTAGGATCTCCGCTGGTTC	GACACCTTGTAGGACTTCTGGGTCA	[49]

**Table S2 Immunophenotyping of human ADSCs at passage 4. Data are presented as the mean  $\pm$  standard error of the mean.**

Surface Markers	ADSCs at P4 (%)
CD90	97.2 $\pm$ 0.5
CD29	95.1 $\pm$ 0.7
CD9	85.7 $\pm$ 0.3
CD31	5.1 $\pm$ 0.5
CD34	1.3 $\pm$ 0.1
CD45	2.4 $\pm$ 0.2
CD271	2.2 $\pm$ 0.6
c-kit	1.1 $\pm$ 0.7
VEGF	3.6 $\pm$ 1.3
KDR	2.3 $\pm$ 0.5
MAP-2	1.8 $\pm$ 0.4