

SUPPLEMENTARY TABLE S1. GENES EXPRESSED BY HUMAN MESENCHYMAL STEM CELLS IN THREE-DIMENSIONAL COLLAGEN CULTURE IN RESPONSE TO 10% UNIAXIAL CYCLIC TENSILE STRAIN

<i>Symbol</i>	<i>Entrez gene name</i>	<i>Fold change</i>	<i>p-value</i>
<i>TBX3</i>	T-box 3	4.354	6.07E-12
<i>CRISPLD2</i>	Cysteine-rich secretory protein LCCL domain containing 2	2.715	1.15E-10
<i>EZR</i>	Ezrin	2.564	5.44E-03
<i>PIK3CD</i>	Phosphoinositide-3-kinase, catalytic, delta polypeptide	2.515	5.46E-11
<i>PMEP1</i>	Prostate transmembrane protein, androgen induced 1	2.496	5.46E-11
<i>PDLIM4</i>	PDZ and LIM domain 4	2.414	4.07E-09
<i>HAS2</i>	Hyaluronan synthase 2	2.373	6.07E-12
<i>TRIB1</i>	Tribbles homolog 1 (Drosophila)	2.338	6.07E-12
<i>JARID2</i>	Jumonji, AT rich interactive domain 2	2.155	1.23E-03
<i>HLX</i>	H2.0-like homeobox	2.062	9.42E-03
<i>BHLHE40</i>	Basic helix-loop-helix family, member e40	1.967	5.34E-10
<i>CAMK2N1</i>	Calcium/calmodulin-dependent protein kinase II inhibitor 1	1.93	3.58E-03
<i>STMN4</i>	Stathmin-like 4	1.895	6.83E-03
<i>MICALL1</i>	MICAL-like 1	1.859	3.00E-05
<i>IGF1R</i>	Insulin-like growth factor 1 receptor	1.802	7.90E-03
<i>UCK2</i>	Uridine-cytidine kinase 2	1.774	1.00E-04
<i>ADAM12</i>	ADAM metalloproteinase domain 12	1.737	1.21E-11
<i>FOXD1</i>	Forkhead box D1	1.695	5.19E-07
<i>PLAUR</i>	Plasminogen activator, urokinase receptor	1.694	4.15E-03
<i>CLU</i>	Clusterin	1.67	3.01E-03
<i>VEGFA</i>	Vascular endothelial growth factor A	1.667	1.16E-07
<i>LRRFIP1</i>	Leucine rich repeat (in FLII) interacting protein 1	1.666	1.96E-03
<i>MCAM</i>	Melanoma cell adhesion molecule	1.664	4.80E-06
<i>TNFRSF12A</i>	Tumor necrosis factor receptor superfamily, member 12A	1.63	1.66E-07
<i>ZNF281</i>	Zinc finger protein 281	1.63	7.03E-03
<i>DLEU2</i>	Deleted in lymphocytic leukemia 2 (nonprotein coding)	1.617	9.00E-05
<i>INSIG1</i>	Insulin-induced gene 1	1.605	7.45E-07
<i>DNAJC7</i>	DnaJ (Hsp40) homolog, subfamily C, member 7	1.584	3.33E-03
<i>ARL4C</i>	ADP-ribosylation factor-like 4C	1.543	3.64E-11
<i>NXN</i>	Nucleoredoxin	1.54	1.00E-05
<i>BMP1</i>	Bone morphogenetic protein 1	1.513	4.85E-03
<i>GGH</i>	Gamma-glutamyl hydrolase (conjugase, folic polyglutamyl hydrolase)	1.51	1.00E-03
<i>IRS1</i>	Insulin receptor substrate 1	1.502	9.90E-07
<i>CHST3</i>	Carbohydrate (chondroitin 6) sulfotransferase 3	1.461	5.50E-04
<i>FSCN1</i>	Fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)	1.458	9.16E-08
<i>PLAU</i>	Plasminogen activator, urokinase	1.448	2.00E-05
<i>MELK</i>	Maternal embryonic leucine zipper kinase	1.448	1.43E-03
<i>RALA</i>	v-ral simian leukemia viral oncogene homolog A (ras related)	1.402	6.33E-03
<i>WNT5B</i>	Wingless-type MMTV integration site family, member 5B	1.397	3.04E-03
<i>FXRD5</i>	FXRD domain containing ion transport regulator 5	1.386	6.50E-04
<i>TRMT61A</i>	tRNA methyltransferase 61 homolog A (S. cerevisiae)	1.386	2.20E-07
<i>ITPR3</i>	Inositol 1,4,5-trisphosphate receptor, type 3	1.385	2.51E-03
<i>SGPL1</i>	Sphingosine-1-phosphate lyase 1	1.365	6.07E-12
<i>LBH</i>	Limb bud and heart development homolog (mouse)	1.356	1.60E-04
<i>JUND</i>	Jun D proto-oncogene	1.351	3.89E-06
<i>SERINC5</i>	Serine incorporator 5	1.279	1.10E-04
<i>TCF4</i>	Transcription factor 4	1.273	8.00E-05
<i>STX4</i>	Syntaxin 4	1.242	2.35E-03
<i>MUS81</i>	MUS81 endonuclease homolog (S. cerevisiae)	1.219	4.06E-03
<i>DUSP23</i>	Dual specificity phosphatase 23	1.205	5.80E-08
<i>ATXN1</i>	Ataxin 1	1.184	3.00E-05
<i>SPTLC2</i>	Serine palmitoyltransferase, long chain base subunit 2	1.172	3.00E-05
<i>NAA15</i>	N(alpha)-acetyltransferase 15, NatA auxiliary subunit	1.171	1.76E-03
<i>RAP1GDS1</i>	RAP1, GTP-GDP dissociation stimulator 1	1.162	9.90E-04
<i>PVRL3</i>	Poliovirus receptor-related 3	1.161	2.70E-04
<i>S100BP</i>	S100P binding protein	1.126	2.53E-09
<i>PRRX1</i>	Paired related homeobox 1	-1.125	6.07E-12
<i>FZD8</i>	Frizzled family receptor 8	-1.182	9.31E-06
<i>SGSM1</i>	Small G protein signaling modulator 1	-1.442	6.07E-12
<i>LTBP3</i>	Latent transforming growth factor beta binding protein 3	-1.514	6.00E-05
<i>SYNPO2</i>	Synaptodin 2	-1.567	1.23E-06
<i>FST</i>	Follistatin	-1.761	2.47E-03
<i>PTX3</i>	Pentraxin 3, long	-2.216	5.00E-05
<i>EFEMP1</i>	EGF containing fibulin-like extracellular matrix protein 1	-2.299	4.09E-09