

Supporting Information

Impact of High-Molecular-Weight Hyaluronic Acid on Gene Expression in Rabbit Achilles Tenocytes In Vitro

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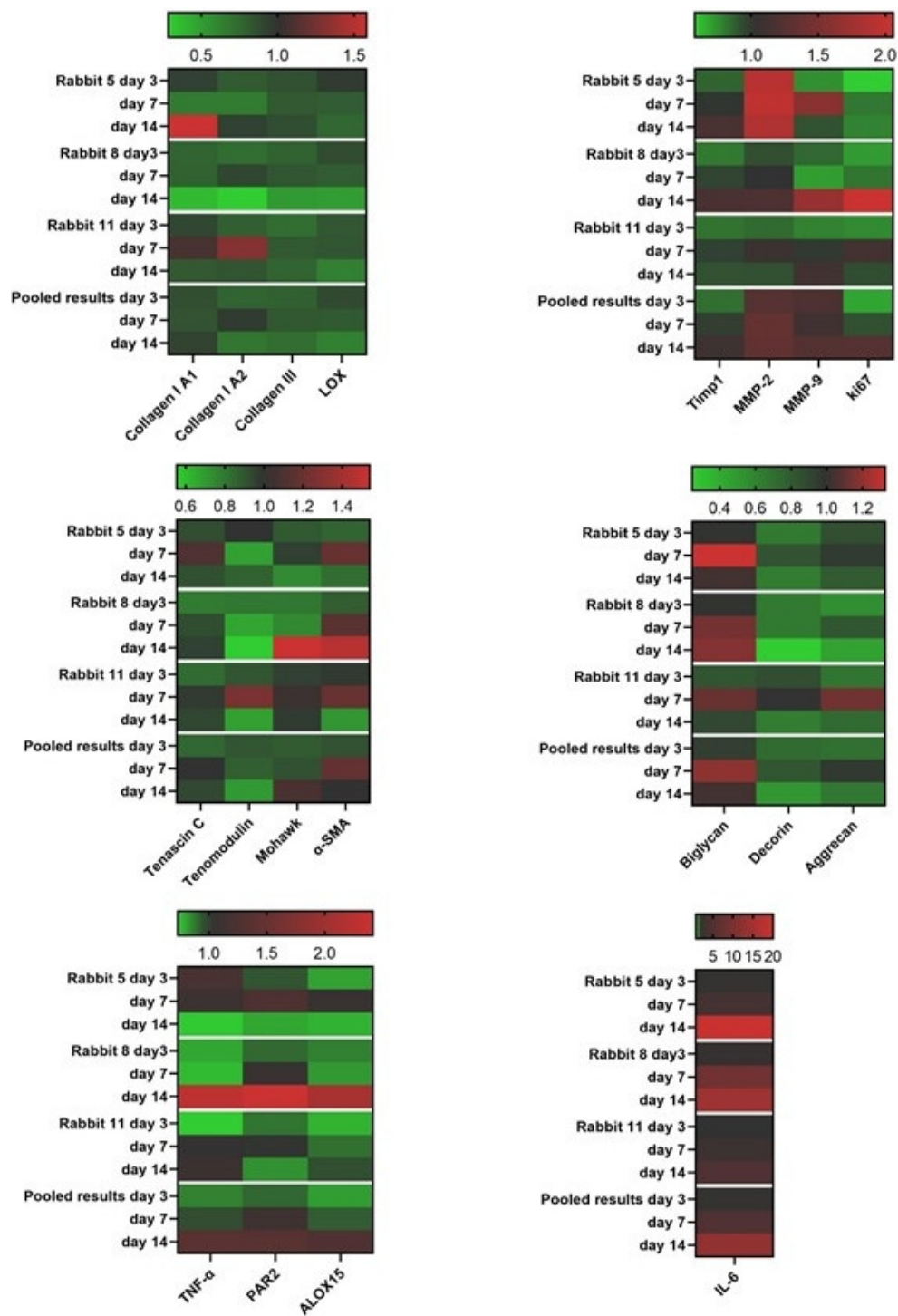


Figure S1. Heat Maps of qPCR results from tenocytes isolated from Achilles tendon of three different rabbits. Fields in green show downregulation of gene expression level, fields in red overexpression and black rectangles show no difference compared to cDNA isolated from tenocytes cultured in control medium without HA.

Table S1. Gene abbreviations, NCBI reference sequences of mRNAs (used as template for primer design), amplicon size and primer sequences used for Real-Time PCR Analysis.

Gene	mRNA ID (NCBI Reference Sequence)	Amplicon Size (bp)	Forward Primer Sequence (3'→ 5')	Reverse Primer Sequence (5'→ 3')
18s rRNA	NR_033238.1	176	GGAAGTGAAGCCAT GATTAAG	CGGAAGTACGACGGT ATCTG
Col1A1	XM_008271783.1	271	CTGGTGAATCTGGAC GTGAG	TGTCTCACCCTTGTC CCAC
Col1A2	NM_001195668.1	170	CCAATCACGCCTCTC AGAAC	GCAGCCATCGACAAG AACAG
Col3A1	XM_002712333.2	259	GCATTGCTTACATGG ATCAGG	CCAACGTCCGCACCA AATTC
LOX	XM_008254949.1	176	TCCAGCCCGGCAAC TACATT	TATCCGTTGGGAGTT GGGGC
TNC	FJ480400.1	219	GTCACATCATCACAGC TCTGG	CTGAGTGTGTATTCCG TGGC
TNMD	NM_001109818.1	239	GCAGTTTCCGAGTTA CAAGAC	CGACGGCAGTAAATA CAACAG
DCN	NM_001082330.1	255	GTGGACAATGGTTCT CTGGC	AAGGTGGATGGCTGG ATCTC
ACAN	L38480.1	113	GCTACGGAGACAAG GATGAG	GTAAAAGACCTCACC CTCCAT
BGN	NM_001195691.1	199	GGCCTGAAGCTCAAC TACCT	GGCTCCCGTTCTCAAT CATC
Mohawk	NC_013684.1		AACGTCGAGCAGTCT CTGAG	CACGCACTCTGGTAC AGTTG
α -SMA	NM_001101682.2	224	CGTGACTACTGCTGA ACGTG	GGATGCCAGCAGATT CCATC
MKI67	XM_008251084.2	283	CACATCCAGCAGTGA AACGG	GTGTTAGCAGTACCT GAAGTC
TIMP1	NM_001082232.2	236	CTACCTTGTACCAGC GTTATG	GAAGCTCAGACTGTT CCAGG
MMP2	D63579.1	220	GAAGATCGACGCTGT GTACG	GTATCTCCAGAACTT GTCTCC
MMP9	D26514.1	160	GATACAGCCTGTTCC TCGTG	GGACCATATAGATGC TGGATG
IL-6	AF169176	153	GAAAACACCAGGGTC AGCAT	CAGCCACTGGTTTTT CTGCT
TNF- α	M12845	138	CTCCTACCCGAACAA GGTCA	CGGTCACCCTTCTCC AACT
PAR2=F2r11	NW_003159481.1		TTCCCGGCCTTCCTC ACGG	CTTCTGGGAGCTGAGC
ALOX15	NM_001082282.1	141	CGACTTCGCCCTGCT GGATA	GCTGGATGACCATAG GCATGA
CD206	XM_002717356.3	198	TGTCCAGAGGATTGG GGCAC	TTCATGGTAGCTCCC GCCAG

Abbreviations: TNC = tenascin C, TNMD = tenomodulin, DCN = decorin, ACAN = aggrecan,

BGN = biglycan, **MKI67** = Ki67