



Figure S1. HDF metabolic activity encapsulated in pDAM2, pDAM2: PRP/ALG and pDAM2: PPP/ALG hydrogels at 0, 1, 5 and 7 days of culture and analyzed by WST-1 colorimetric assay.

Table S1. Primers for RT-PCR.

Gene (RNA)	Sequence	ID (Bio-Rad, Laboratories, Spain)
GAPDH (1.25 ng)	TCATTTCTGCTATGACAACGAATTTGGCTACAGCAACAGGGTGGTGGAC- CTCATGGCCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGCA AGAGCACAAGAGGAAGAG	dHsaCPE5031597
COL1A1 (2.5 ng)	TTGGTCTCGTCACAGATCACGTCATCGCAACACCTTGCCGTTGTCGCAGAC- GCAGATCCGGCAGGGCTCGGGTTTCCACACGTCCTCGGTCATGGTACCTGAGGCCGTT CTGTACGCAGGT	dHsaCPE5034390
COL1A2 (2.5 ng)	AGAGATGAACTGAGGTCCTTGTTTTGTTTGTTCATAATACAAAGGTGCTAATTAA- TAGTATTTTCAGATACTTGAAGAATGTTGATGGTGCTAGAAGAATTTGAGAAGAAATA CTCCTGTATT	dHsaCPE5026780
COL3A1 (2.5 ng)	GATGAGATTATGACTTCACTCAAGTCTGTTAATGGACAAATAGAAAGCCTCATTAG- TCCTGATGGTTCTCGTAAAAACCCCGCTAGAAACTGCAGAGACCTGAAATTCTGCCA TCCTGAACT	dHsaCPE5040292
COL4A1 (25 ng)	TTGTGACATTAGCTGAGTCAGGCTTCATTATGTTCTTCTCATAACAGACTTGG- CAGCGGCTGACGTGCGTGCGCAGCTCCCCTGCCTTCAAGGTGGACGGCGTAGGCTT CTTGAACATCTCGC	dHsaCPE5049054
COL4A2 (25 ng)	GTGGGGTTCCTCGCCCAGAGCGTCTTGGCGGGTGTGAAGAAGTTT- GATGTGCCGTGTGGAG- GAAGAGATTGCAGTGGGGGCTGCCAGTGCTACCCTGAGAAAGGTGGACGTGGTCAG CCTGG	dHsaCPE5036732
COL4A3 (25 ng)	CCTGGGTAGGGGAAGAGAAGGGGGCATGTGGTATCCTGGAGCATTGTGTATA- GAACTGGAT- TTTCAGACCTGCTGAGGACCGTAAGGCCTGATGGAACACAGAACTGAACTGAGGTT CATGG	dHsaCPE5040370
ELN (25 ng)	GGATTCGCTCTAGCATCCCTCCTCTCCTGGGTCCACTTGGCCGTCTCCTCCCCAC- CGATCGCTGTTCCCCACATCTGGGGCGCTTTGGGTTGGAAAACCACCCACACTGG GAATAGCCACC	dHsaCPE5192509
FN1 (1.25 ng)	TGCCTCTCACACTTCCACTCTCCTCGGCCGTTGCTGTGCAGATGCACTGGAG- CAGGTTTCCTCGATTATCCTTCTTGCTCCAGGTGTCTCCAATTCTATAGGATGTCCTTG TGTCTGATCG	dHsaCPE5035056

Table S2. RT-PCR protocol.

T° (°C)	Time	Ramp Rate	Number of Cycles
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Hold	25	3 min	2 °C/sec	1
RT	48	60 min	2 °C/sec	1
Enzyme activation	95	10 min	2 °C/sec	1
Denaturation	95	30 sec	2 °C/sec	40
Annealing/extension	55	2 min	2 °C/sec	
Enzyme deactivation	98	10 min	2 °C/sec	1
Hold	4	Infinite	2 °C/sec	1