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Supplementary Table. 1 List of primers used for real-time PCR.

Gene name		Primer
GAPDH	Forward	5'-AGCCACATCGCTCAGACAC-3'
	Reverse	5'-GCCCAATACGACCAAATCC-3'
SOX2	Forward	5'-AGTCTCCAAGCGACGAAAAA-3'
	Reverse	5'-GGAAGTTGGGATCGAACAA-3'
Nanog	Forward	5'-TGCAATGTCTTCTGCTGAGAT-3'
	Reverse	5'-G TTCAGGATGTTGGAGAGTTC-3'
Oct3/4	Forward	5'-CGACCATCTGCCGCTTTGAG-3'
	Reverse	5'-CCCCCTGTCCCCCATTCCTA-3'
SLC13A5	Forward	5'-AGGGCTCTGGTTTTCACTCG-3'
	Reverse	5'-CTCAAGACCAGGCATTCCGT-3'
TMEM151B	Forward	5'-CTACCAGGGCAACAGCCTCAT-3'
	Reverse	5'-GTGCGGCGGACATAGTGGTA-3'
HCRTR2	Forward	5'-CCGGAAGTCCTTGACCACTC-3'
	Reverse	5'-AGTTTTACTCAGGTATCCTTGTC A-3'
CD9	Forward	5'-CATCTGCCCCAAGAAGGA-3'
	Reverse	5'-GCGGATAGCACAGCACAA-3'
CD24	Forward	5'-TGAAGAACATGTGAGAGGTTTGAC-3'
	Reverse	5'-GAAAACTGAATCTCCATTCCACAA-3'
CD26	Forward	5'-AAGTGGCGTGTTCAAGTGTG-3'
	Reverse	5'-GGAGTTGGGAGACCCATGTA-3'
CD44	Forward	5'-TGTC AACCGTGATGGTACTCGC-3'
	Reverse	5'-GTATCCTGATCTCCAGTAGGC-3'
ALDH1A2	Forward	5'-GATGCTGACTTGGACTATGCTGT-3'
	Reverse	5'-CTGTTTCTTATCAATCTGGGGAC-3'
ALDH1A3	Forward	5'-TCTCGACAAAGCCCTGAAGT-3'
	Reverse	5'-GTCCGATGTTTGAGGAAGGA-3'

Supplementary Table 2. Characteristics of hydrogels used in this study

gel	charge	Modulus (kPa)
DN	negative	300
PCDME	twitter ionic: +/-	51
PNaSS	negative	3