

**Table 1s** Mouse primer sequences used for real-time polymerase chain reaction

Target gene	Sequence	Length of product(bp)	GeneBank accession NO.
FAK	ATATGAACTCGCCACCCAC	20	XM_021629041.1
	CATGTAGTCACTCTTCACCTGT	22	
Interginβ1	TGCCAGCCAAGTGACATAGAG	21	NM_010578.2
	TTCTGTGGTTCTCCTGATCTCAA	23	
NCAM	TGCCTCCAACCATCATCTGG	20	XM_017313201.1
	GACTATGAACCGGACGTCTT	20	
N-Cadherin	CTTGCTTCAGGCGTCTGTGGA	21	NM_007664.5
	TTCGTGCACATCCTTCGGTAA	21	
Sox9	AGCACAAGAAAGACCACCCC	20	XM_021176419.1
	ATGTGAGTCTGTTCCGTGGC	20	
Col1	ATGCCGCGACCTCAAGATG	19	XM_021175426.1
	TGAGGCACAGACGGCTGAGTA	21	
Col2	AGGGCAACAGCAGGTTACATA	23	XM_021182830.1
	C TGTCACACCAAATTCCTGTTCA	23	
GAPDH	GTCGGTGTGAACGGATTTGG	20	XM_017321385.1
	CTGGAAGATGGTGATGGGCT	20	

**Table 1s** Human primer sequences used for real-time polymerase chain reaction

Target gene	Sequence	Length of product(bp)	GeneBank accession NO.
FAK	ACTGGATTCTGTCAAGGCCA	20	NM_001352746.1
	CCGATTGCCAGTCCACTGA	20	
Interginβ1	ACCTGATCCTGTGTCCCATTG	21	NM_002211.3
	CAGCAGTAATGCAAGGCCAA	20	
NCAM	GCTGGACAAAGGATGGGGAA	20	NM_001242608.1
	CTTTGAGGTGGATGGTCGCA	20	
N-Cadherin	ACTCCAGGGACCTTTTCCT	20	XM_017025514.1
	CCCTCAAATGAAACCGGGCT	20	
Sox9	TTGAGCCTTAAAACGGTGCT	20	NM_000346.3
	CTGGTGTTCTGAGAGGCACA	20	
Col1	GAAGAGTGGAGAGTACTGGATTGA	25	XM_005257059.4
	C GGTTCTTGCTGATGTACCAGTTC	23	
Col2	TCACGTACACTGCCCTGAAG	20	XM_017018831.1

	TGCAACGGATTGTGTTGTTT	20	
GAPDH	TCACTGCCACCCAGAAGACT	20	NM_001289746.1
	TTCTAGACGGCAGGTCAGGT	20	

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**Table 2s** Element component of PHEMA brush with different polymerization time

	C-C	C-O	O-C=O	C-OH	C	O
PHEMA-30	58.2%	18.6%	7.62%	15.6%	66.16%	32.09%
PHEMA-300	53.8%	18.5%	10.9%	16.7%	66.56%	29.59%