Supplementary Table 1. Primer sequences for mouse PG core proteins-and HS biosynthetic enzymes-coding genes.

Name of the gene	Gene	Primer sequences
Syndecan-1	Sdc1	F 5′-GGTCTGGGCAGCATGAGAC-3′
		R 5′-GGAGGAACATTTACAGCCACA-3′
Syndecan-3	Sdc3	F 5′-GGTCAGGCTCTGGCTACTTC-3′
		R 5′-GGGACTGGTGACTGGTTCAG-3′
Glypican-1	Gpc1	F 5′-CTTTAGCCTGAGCGATGTGC-3′
		R 5′-GGCCAAATTCTCCTCCATCT-3′
Perlecan	Hspg2	F 5′-CCGTGCTATGGACTTCAACG-3′
		R 5′-TGAGCTGTGGAGGGTGTATG-3′
Decorin	Dcn	F 5′-CCCCTGATATCTATGTGCCC-3′
		R 5′-GTTGTGTCGGGTGGAAAATC-3′
Biglycan	Bgn	F 5′-GCCTGACAACCTAGTCCACC-3′
		R 5′-CAGCAAGGTGAGTAGCCACA-3′
Lumican	Lum	F 5′-GCTCGAGCTTGATCTCTCCT-3′
		R 5′-CAGTGGTCCCAGGATCTTACA-3′
Brevican	Bcan	F 5′-GTGGAGTGGCTGTGGCTC-3′
		R 5′-AACATAGGCAGCGGAAACC-3′
Neurocan	Ncan	F 5′-CCAGCGACATGGGAGTAGAT-3′
		R 5′-GGGACACTGGGTGAGATCAA-3′
Aggrecan	Acan	F 5′-TTCGCAGGGATAAAGGACTG-3′
		R 5′-CCCTCAGAGTCACAAAGACCA-3′
Versican	Vcan	F 5′-GGAGGTCTACTTGGGGTGAG-3′
		R 5′-GGGTGATGAAGTTTCTGCGAG-3′
Cspg4	NG2/Cspg4	F 5′-TCTTACCTTGGCCCTGTTGG-3′
		R 5′-ACTCTGGTCAGAGCTGAGGG-3′
Cspg5	Cspg5	F 5′-TTGGCTTCGTCAGGCACAAT-3′
		R 5′-GTTACACCTGCAGAAAGCCCC-3′
CD44	CD44	F 5′-CAAGTTTTGGTGGCACACAG-3′
		R 5′-AGCGGCAGGTTACATTCAAA-3′
Phosphacan-1	Ptprz1	F 5′-CCCACTGAAGATGCCGAACT-3′
		R 5′-GTCGTGGTAGAAACCTGGGG-3′
Ext1	Ext1	F 5’-AGCACAAGGATTCTCGCTGT-3’
		R 5’-GGAACCAGACAGAAAGTGGC-3’
Ext2	Ext2	F 5’-ACATCCCACAGAGGCAGATT3’
		R 5’-GATCTGTAGGGTGGCCAGAG3’
Ndst1	Ndst1	F 5′-CACACAGAACGAACTACGC-3′

		R 5′-CCCGTTGATGATCTTGTCC-3′
Ndst2	Ndst2	F 5’-TGGTCCAAGGAGAAAACCTG-3’ R 5’-GCAGGCTCAGGAAGAAGTGA-3’
Glce	Glce	F 5’-GCTCGCTTCAGTTTTCCTCA-3’ R 5’-TCTTAGTACATTTCTGGCTTCAATTC-3’
Hs2st1	Hs2st1	F 5’-TCTTGGAGAACCAGATCCAGA3’ R 5’-ATGGCGCTGTTCAATTTCTC3’
Hs3st1	Hs3st1	F 5’-GGAGGAGCATTACAGCCAAG-3’ R 5’-TTTGGGCGAAGTGAAATAGG-3’
Hs3st2	Hs3st2	F 5’-AACTACGGACGAGGACTGGA-3’ R 5’-ATTACCTCTGGGGCAAATCC-3’
Hs6st1	Hs6st1	F 5’-TGGCTCTTCTCTCGCTTCTC-3’ R 5’-GTCTAGCACACCGGGCAC-3’
Hs6st2	Hs6st2	F 5’-CCAGGCTGAGACCTTCCAG-3’ R 5’-TGTGGAGGATGGAGAGTTGG-3’
Sulf1	Sulf1	F 5’-CCTTGCAGGGAAGCTTCAAA-3’ R 5’-GCTGAGTTCTGGGAGCTTGA-3’
Sulf2	Sulf2	F 5’-GTTCCTCCCGCGATCTAGC-3’ R 5’-GTGTCGTGAGGATGGGATTC-3’
Hpse	Hpse	F 5’-GGCTAGAGGCTTATCTCCTGC-3’ R 5’-TCTTTCTTCGGAAGTCGGTT-3’
Nr3c1	Nr3c1	F 5' - ACGGTGGCAGTGTGAAATTG - 3' R 5' - GACCTCCAAGGACTCTCGTT - 3'
Gapdh	Gapdh	F 5’-CGTCCCGTAGACAAAATGGT-3’ R 5’-TTGATGGCAACAATCTCCAC-3’