

Supplementary Table 2: List of ECM genes and proteins of interest. Totally, 56 genes and 18 proteins were analysed.

Genes	Proteins	Name	Genes	Proteins	Name
<i>Acan</i>	<i>Acan</i>	Aggrecan core protein	<i>Mmp8</i>		Matrix metalloproteinases 8
<i>Adamts1</i>		A disintegrin and metalloproteinase with thrombospondin motifs 1	<i>Mmp9</i>		Matrix metalloproteinases 9
<i>Adamts2</i>		A disintegrin and metalloproteinase with thrombospondin motifs 2	<i>Mmp10</i>		Matrix metalloproteinases 10
<i>Adamts3</i>		A disintegrin and metalloproteinase with thrombospondin motifs 3	<i>Mmp11</i>		Matrix metalloproteinases 11
<i>Adamts4</i>		A disintegrin and metalloproteinase with thrombospondin motifs 4	<i>Mmp12</i>		Matrix metalloproteinases 12
<i>Adamts5</i>		A disintegrin and metalloproteinase with thrombospondin motifs 5	<i>Mmp13</i>		Matrix metalloproteinases 13
<i>Adamts7</i>		A disintegrin and metalloproteinase with thrombospondin motifs 7	<i>Mmp14</i>		Matrix metalloproteinases 14
<i>Adamts9</i>		A disintegrin and metalloproteinase with thrombospondin motifs 9	<i>Mmp15</i>		Matrix metalloproteinases 15
<i>Adamts14</i>		A disintegrin and metalloproteinase with thrombospondin motifs 14	<i>Mmp16</i>		Matrix metalloproteinases 16
<i>Adamts17</i>		A disintegrin and metalloproteinase with thrombospondin motifs 17	<i>Mmp17</i>		Matrix metalloproteinases 17
<i>Bcan</i>	<i>Bcan</i>	Brevican core protein	<i>Mmp19</i>		Matrix metalloproteinases 19
<i>Crtap</i>		Cartilage-associated protein	<i>Mmp23</i>		Matrix metalloproteinases 23
<i>Cspg4</i>	<i>Cspg4</i>	Chondroitin sulfate proteoglycan 4	<i>Mmp24</i>		Matrix metalloproteinases 24
<i>Dag1</i>	<i>Dag1</i>	Dystroglycan 1	<i>Ncan</i>	<i>Ncan</i>	Neurocan core protein
<i>Ecm1</i>	<i>Ecm1</i>	Extracellular matrix protein 1	<i>Sdc1</i>		Syndecan 1
<i>Egflam</i>		Pikachurin	<i>Sdc2</i>		Syndecan 2
<i>Fn1</i>	<i>Fn1</i>	Fibronectin	<i>Sdc3</i>		Syndecan 3
<i>Hapln1</i>	<i>Hapln1</i>	Hyaluronan and proteoglycan link protein 1	<i>Sdc4</i>		Syndecan 4
<i>Hapln2</i>	<i>Hapln2</i>	Hyaluronan and proteoglycan link protein 2	<i>Sparcl1</i>	<i>Sparcl1</i>	SPARC-like protein 1
<i>Hapln3</i>		Hyaluronan and proteoglycan link protein 3	<i>Spon1</i>	<i>Spon1</i>	Spondin-1
<i>Hapln4</i>	<i>Hapln4</i>	Hyaluronan and proteoglycan link protein 4	<i>Timp1</i>		Tissue inhibitor of metalloproteinases 1
<i>Hpse</i>		Heparanase	<i>Timp2</i>		Tissue inhibitor of metalloproteinases 2
<i>Hspg2</i>	<i>Hspg2</i>	Basement membrane-specific heparan sulfate proteoglycan core protein	<i>Timp3</i>		Tissue inhibitor of metalloproteinases 3
<i>Itgb1</i>	<i>Itgb1</i>	Integrin beta-1	<i>Timp4</i>		Tissue inhibitor of metalloproteinases 4
<i>Lum</i>		Lumican	<i>TnC</i>	<i>TnC</i>	Tenascin-C
<i>Mgp</i>		Matrix Glia protein	<i>TnR</i>	<i>TnR</i>	Tenascin-R
<i>Mmp2</i>		Matrix metalloproteinases 2	<i>Vcan</i>	<i>Vcan</i>	Versican core protein
<i>Mmp3</i>		Matrix metalloproteinases 3	<i>Vtn</i>	<i>Vtn</i>	Vitronectin