Supplementary Table 3: Gene Expression of Extracellular Matrix (ECM) and Cell Adhesion Molecules (All Data)

Gene Id	Description	Fold Change	95% CI	P-Value
Adamts1	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 1	1.3314	(1.01, 1.65)	0.078127
Adamts2	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 2	0.8025	(0.75, 0.86)	0.000789
Adamts5	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2)	1.3287	(0.46, 2.20)	0.375742
Adamts8	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 8	0.9658	(0.00001, 2.27)	0.484741
Cd44	CD44 antigen	1.3263	(0.63, 2.03)	0.316184
***Cdh1**	**Cadherin 1**	**0.4853**	**(0.37, 0.60)**	**0.00039**
Cdh2	Cadherin 2	0.9672	(0.66, 1.28)	0.780854
Cdh3	Cadherin 3	0.4226	(0.05, 0.79)	0.146559
Cdh4	Cadherin 4	1.0171	(0.35, 1.68)	0.864785
Cntn1	Contactin 1	1.1167	(0.00001, 2.70)	0.487153
Col1a1	Collagen, type I, alpha 1	3.1802	(0.76, 5.61)	0.05288
Col2a1	Collagen, type II, alpha 1	3.8509	(0.00001, 13.90)	0.195432
Col3a1	Collagen, type III, alpha 1	1.7215	(1.18, 2.26)	0.025846
Col4a1	Collagen, type IV, alpha 1	1.7688	(1.23, 2.30)	0.014611
***Col4a2**	**Collagen, type IV, alpha 2**	**2.3052**	**(1.52, 3.09)**	**0.00733**
Col4a3	Collagen, type IV, alpha 3	1.4253	(0.62, 2.23)	0.22452
Col5a1	Collagen, type V, alpha 1	1.6345	(1.14, 2.13)	0.014246
Col6a1	Collagen, type VI, alpha 1	1.152	(0.29, 2.01)	0.851439
Ctgf	Connective tissue growth factor	1.2056	(0.72, 1.69)	0.382354
Ctnna1	Catenin (cadherin associated protein), alpha 1	0.8137	(0.73, 0.90)	0.009532
Ctnna2	Catenin (cadherin associated protein), alpha 2	1.0842	(0.18, 1.99)	0.822368
Ctnnb1	Catenin (cadherin associated protein), beta 1	0.7936	(0.64, 0.95)	0.060991
Ecm1	Extracellular matrix protein 1	1.6714	(1.43, 1.92)	0.000658
Emilin1	Elastin microfibril interfacer 1	1.2637	(0.61, 1.91)	0.675869
***Entpd1**	**Ectonucleoside triphosphate diphosphohydrolase 1**	**0.4822**	**(0.34, 0.63)**	**0.002935**
Fbln1	Fibulin 1	0.866	(0.73, 1.00)	0.111354
***Fn1**	**Fibronectin 1**	**3.2415**	**(2.48, 4.01)**	**0.000005**
Hapln1	Hyaluronan and proteoglycan link protein 1	0.5151	(0.15, 0.88)	0.122023
Hc	Hemolytic complement	0.5106	(0.00001, 2.26)	0.674741
Icam1	Intercellular adhesion molecule 1	1.0144	(0.85, 1.18)	0.89718
***Itga2**	**Integrin alpha 2**	**0.3455**	**(0.24, 0.45)**	**0.002473**
Itga3	Integrin alpha 3	1.4944	(1.26, 1.73)	0.002257
Itga4	Integrin alpha 4	6.9667	(0.00001, 25.77)	0.104377
Itga5	Integrin alpha 5 (fibronectin receptor alpha)	0.8197	(0.73, 0.91)	0.012424
Itgae	Integrin alpha E, epithelial-associated	1.104	(0.25, 1.96)	0.613172
Itgal	Integrin alpha L	18.7969	(0.00001, 67.56)	0.159671

Itgam	Integrin alpha M	14.8365	(0.00001, 42.17)	0.087003
Itgav	Integrin alpha V	0.7158	(0.62, 0.81)	0.004135
Itgax	Integrin alpha X	1.6158	(0.00001, 3.99)	0.382954
Itgb1	Integrin beta 1 (fibronectin receptor beta)	0.831	(0.58, 1.09)	0.283103
Itgb2	Integrin beta 2	0.9507	(0.54, 1.36)	0.974854
Itgb3	Integrin beta 3	1.0448	(0.77, 1.32)	0.650141
Itgb4	Integrin beta 4	1.3585	(0.89, 1.83)	0.129847
Lama1	Laminin, alpha 1	1.0273	(0.90, 1.15)	0.659334
Lama2	Laminin, alpha 2	1.3132	(0.92, 1.70)	0.123546
Lama3	Laminin, alpha 3	0.5483	(0.12, 0.98)	0.23183
Lamb2	Laminin, beta 2	1.1747	(1.04, 1.31)	0.032743
Lamb3	Laminin, beta 3	1.2991	(0.00001, 5.60)	0.287687
Lamc1	Laminin, gamma 1	1.3738	(1.11, 1.64)	0.013673
***Mmp10**	**Matrix metallopeptidase 10**	**3.9831**	**(0.00001, 9.30)**	**0.043207**
Mmp11	Matrix metallopeptidase 11	1.2755	(1.04, 1.51)	0.041379
***Mmp12**	**Matrix metallopeptidase 12**	**9.1316**	**(0.00001, 29.91)**	**0.005753**
Mmp13	Matrix metallopeptidase 13	1.7152	(0.00001, 8.60)	0.59266
Mmp14	Matrix metallopeptidase 14 (membrane-inserted)	1.2309	(0.81, 1.66)	0.274402
Mmp15	Matrix metallopeptidase 15	0.7902	(0.61, 0.97)	0.094607
Mmp1a	Matrix metallopeptidase 1a (interstitial collagenase)	0.3431	(0.09, 0.60)	0.155278
Mmp2	Matrix metallopeptidase 2	1.7237	(0.68, 2.77)	0.113119
Mmp3	Matrix metallopeptidase 3	0.2371	(0.00001, 1.15)	0.233726
Mmp7	Matrix metallopeptidase 7	1.3975	(0.00001, 4.10)	0.609798
Mmp8	Matrix metallopeptidase 8	1.0075	(0.00001, 2.04)	0.598212
Mmp9	Matrix metallopeptidase 9	5.4801	(0.00001, 14.01)	0.080729
Ncam1	Neural cell adhesion molecule 1	1.0348	(0.69, 1.38)	0.687284
Ncam2	Neural cell adhesion molecule 2	0.1574	(0.00001, 0.69)	0.510377
Pecam1	Platelet/endothelial cell adhesion molecule 1	0.7129	(0.52, 0.91)	0.053912
Postn	Periostin, osteoblast specific factor	0.7587	(0.20, 1.32)	0.900194
Sele	Selectin, endothelial cell	1.0111	(0.35, 1.67)	0.919159
Sell	Selectin, lymphocyte	0.2302	(0.00001, 0.86)	0.349432
Selp	Selectin, platelet	0.6239	(0.33, 0.92)	0.127502
Sgce	Sarcoglycan, epsilon	0.8957	(0.41, 1.38)	0.670762
Sparc	Secreted acidic cysteine rich glycoprotein	1.1183	(0.90, 1.33)	0.278855
Spock1	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan 1	0.6686	(0.18, 1.15)	0.376396
Spp1	Secreted phosphoprotein 1	1.0942	(0.02, 2.17)	0.511897
Syt1	Synaptotagmin I	4.9617	(0.00001, 15.09)	0.154091
Tgfbi	Transforming growth factor, beta induced	1.3228	(0.88, 1.77)	0.178037
Thbs1	Thrombospondin 1	0.8531	(0.75, 0.96)	0.040002
Thbs2	Thrombospondin 2	3.2806	(0.06, 6.50)	0.051335
Thbs3	Thrombospondin 3	1.5986	(0.78, 2.41)	0.099082
Timp1	Tissue inhibitor of metalloproteinase 1	1.0509	(0.88, 1.22)	0.493715
Timp2	Tissue inhibitor of metalloproteinase 2	1.581	(0.52, 2.65)	0.219348
Timp3	Tissue inhibitor of metalloproteinase 3	1.6668	(1.29, 2.04)	0.004066
Tnc	Tenascin C	2.1979	(0.72, 3.68)	0.078169
Vcam1	Vascular cell adhesion molecule 1	1.2305	(1.11, 1.35)	0.006313
Vcan	Versican	0.9677	(0.84, 1.09)	0.619731
Vtn	Vitronectin	0.918	(0.17, 1.67)	0.919721
Actb	Actin, beta	0.9382	(0.87, 1.00)	0.124592
B2m	Beta-2 microglobulin	1.5399	(1.34, 1.74)	0.000434

Gapdh	Glyceraldehyde-3-phosphate dehydrogenase	0.7839	(0.67, 0.90)	0.018572
Gusb	Glucuronidase, beta	0.8598	(0.76, 0.96)	0.059303
Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1	0.7967	(0.73, 0.87)	0.002076
MGDC	Mouse Genomic DNA Contamination	1.0706	(0.00001, 2.20)	0.632672
RTC	Reverse Transcription Control	1.0655	(0.00001, 2.32)	0.593124
RTC	Reverse Transcription Control	0.9417	(0.00001, 1.99)	0.544155
RTC	Reverse Transcription Control	1.0093	(0.00001, 2.11)	0.564558
PPC	Positive PCR Control	1.1053	(0.00001, 2.27)	0.674324
PPC	Positive PCR Control	1.1279	(0.00001, 2.42)	0.667349
PPC	Positive PCR Control	1.1138	(0.00001, 2.34)	0.665537

* = fold change greater than 2 (or less than 0.5) and statistically significant ($p<0.05$)

CI = confidence interval