

**Supplementary Table 3.** Genes significantly upregulated or downregulated ( $p < 0.05$ ), or not significantly changed ( $p > 0.05$ ) by miR-27b-3p mimic-treated compared to control mimic-treated OA FLS, as determined by RT-qPCR array. Genes undetected by array analysis are also indicated.

<b>Genes Significantly Upregulated (<math>p &lt; 0.05</math>)</b>		
<b>Symbol</b>	<b>Complete name</b>	<b>p-value</b>
ADAMTS8	ADAM metalloproteinase with thrombospondin type 1 motif, 8	0.0345
COL14A1	Collagen, type XIV, alpha 1	0.0271
COL1A1	Collagen, type I, alpha 1	<0.0001
COL5A1	Collagen, type V, alpha 1	0.0008
FN1	Fibronectin 1	0.0149
THBS1	Thrombospondin 1	0.018
TNC	Tenascin C	0.036
<b>Genes Significantly Downregulated (<math>p &lt; 0.05</math>)</b>		
<b>Symbol</b>	<b>Complete name</b>	<b>p-value</b>
CTNND1	Catenin ( cadherin-associated protein), delta 1	0.0046
HAS1	Hyaluronan synthase 1	0.0225
ITGA2	Integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	0.0241
<b>Genes Not Significantly Changed (<math>p &gt; 0.05</math>)</b>		
<b>Symbol</b>	<b>Complete name</b>	
ADAMTS13	ADAM metalloproteinase with thrombospondin type 1 motif, 13	
ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1	
CD44	CD44 molecule (Indian blood group)	
CLEC3B	C-type lectin domain family 3, member B	
COL12A1	Collagen, type XII, alpha 1	
COL15A1	Collagen, type X V, alpha 1	
COL16A1	Collagen, type X VI, alpha 1	
COL4A2	Collagen, type IV, alpha 2	
COL6A2	Collagen, type VI, alpha 2	
COL6A1	Collagen, type VI, alpha 1	
COL7A1	Collagen, type VII, alpha 1	
COL8A1	Collagen, type VIII, alpha 1	
CTGF	Connective tissue growth factor	
CTNNA1	Catenin ( cadherin-associated protein), alpha 1, 102kDa	
CTNNB1	Catenin ( cadherin-associated protein), beta 1, 88kDa	
ECM1	Extracellular matrix protein 1	
ICAM1	Intercellular adhesion molecule 1	
ITGA3	Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	
ITGA4	Integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	
ITGA5	Integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	
ITGA6	Integrin, alpha 6	
ITGA7	Integrin, alpha 7	
ITGA1	Integrin, alpha 1	
ITGAV	Integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)	
ITGB2	Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	
ITGB3	Integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	
ITGB5	Integrin, beta 5	
ITGB1	Integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	
LAMA2	Laminin, alpha 2	
LAMA3	Laminin, alpha 3	
LAMA1	Laminin, alpha 1	
LAMB3	Laminin, beta 3	
LAMB1	Laminin, beta 1	
LAMC1	Laminin, gamma 1 (formerly LAMB2)	
MMP10	Matrix metalloproteinase 10 (stromelysin 2)	
MMP14	Matrix metalloproteinase 14 (membrane-inserted)	
MMP15	Matrix metalloproteinase 15 (membrane-inserted)	
MMP16	Matrix metalloproteinase 16 (membrane-inserted)	
MMP2	Matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	
MMP3	Matrix metalloproteinase 3 (stromelysin 1, progelatinase)	
MMP9	Matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	
MMP1	Matrix metalloproteinase 1 (interstitial collagenase)	
MMP11	Matrix metalloproteinase 11 (stromelysin 3)	
PCAM1	Platelet/endothelial cell adhesion molecule	
SGCE	Sarcoglycan, epsilon	
SPARC	Secreted protein, acidic, cysteine-rich ( osteonectin)	
SPG7	Spastic paraplegia 7 (pure and complicated autosomal recessive)	
SPPI	Secreted phosphoprotein 1	
TGFB1	Transforming growth factor, beta-induced, 68kDa	

THBS2	Thrombospondin 2
THBS3	Thrombospondin 3
TIPM2	TIMP metalloproteinase inhibitor 2
TIPM3	TIMP metalloproteinase inhibitor 3
TIPM1	TIMP metalloproteinase inhibitor 1
VCAM1	Vascular cell adhesion molecule 1
VCAN	Versican
VTN	Vitronectin
<b>Genes Undetected</b>	
<b>Symbol</b>	<b>Complete name</b>
ANOS1	Anosmin-1, (KALI) Kallmann syndrome 1 sequence
CDH1	Cadherin 1, type 1, E-cadherin ( epithelial)
CNTN1	Contactin 1
COL11A1	Collagen, type XI, alpha 1
CTNND2	Catenin ( cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein)
ITGA8	Integrin, alpha 8
ITGAL	Integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
ITGAM	Integrin, alpha M ( complement component 3 receptor 3 subunit)
ITGB4	Integrin, beta 4
MMP12	Matrix metalloproteinase 12 (macrophage elastase)
MMP13	Matrix metalloproteinase 13 ( collagenase 3)
MMP7	Matrix metalloproteinase 7 (matrilysin, uterine)
MMP8	Matrix metalloproteinase 8 (neutrophil collagenase)
NCAM1	Neural cell adhesion molecule 1
SELE	Selectin E
SELL	Selectin L
SELP	Selectin P (granule membrane protein 140kDa, antigen CD62)