

Table 1: Listing of PCR analytes – and fold change in expression levels

Pathway	Symbol	Gene Name	Fold Difference
ECM Degradation	Mmp14	Matrix metalloproteinase 14 (membrane-inserted)	0.26
	Mmp2	Matrix metalloproteinase 2	0.22
	Mmp11	Matrix metalloproteinase 11	1.75
	Mmp15	Matrix metalloproteinase 15	0.73
	Timp2	Tissue inhibitor of metalloproteinase 2	0.37
	Timp4	Tissue inhibitor of metalloproteinase 4	0.27
	Timp1	Tissue inhibitor of metalloproteinase 1	2.45
	Serpine2	(PAI-2) Serine (or cysteine) peptidase inhibitor, clade E, member 2	0.22
ECM Deposition	Col1a1	Procollagen, type VI, alpha 1	0.20
	Col3a1	Procollagen, type III, alpha 1	0.03
	Eln	Elastin	0.33
	Lamb3	Laminin, beta 3	0.42
	Fn1	Fibronectin 1	0.54
	Fbn2	Fibrillin 2	1.56
	Fbn1	Fibrillin 1	0.51
	Thbs1	Thrombospondin 1	0.50
	Sparc	(SPARC) Secreted acidic cysteine rich glycoprotein	1.37
	Ltbp2	Latent transforming growth factor beta binding protein 2	0.34
	Ltbp1	Latent transforming growth factor beta binding protein 1	0.24
	Acvr1l	Activin A receptor, type II-like 1 (ALK-1)	0.23
	Acvr1	Activin A receptor, type 1 (ALK-2)	0.71
	Tgfb1	Transforming growth factor, beta 1	2.17
	Tgfb2	Transforming growth factor, beta 2	0.84
	Smad1	MAD homolog 1 (Drosophila)	0.34
	Smad5	MAD homolog 5 (Drosophila)	0.56
	Smad2	MAD homolog 2 (Drosophila)	0.74
	Smad3	MAD homolog 3 (Drosophila)	8.83
	Smad6	MAD homolog 6 (Drosophila)	0.97
Smad7	MAD homolog 7 (Drosophila)	0.30	
Ctgf	Connective tissue growth factor	1.10	
Cellular Signaling	Il6	Interleukin 6	0.42
	Mapk12	(p38MAPK- γ) Mitogen-activated protein kinase 12	0.67
	Mapk11	(p38MAPK- β) Mitogen-activated protein kinase 11	0.18
	Mapk14	(p38MAPK- α) Mitogen activated protein kinase 14	0.86
	Mapk1	(ERK-2) Mitogen activated protein kinase 1	0.81
	Mapk3	(ERK-1) Mitogen activated protein kinase 3	3.46
	Mapk8	(JNK) Mitogen activated protein kinase 8	0.91
	Eif3s2	Mitogen activated protein kinase 9	1.08
	Prkca	Protein kinase C, alpha	0.22
	Prkcb1	Protein kinase C, beta 1	1.26
	Prkcd	Protein kinase C, delta	0.76
	Prkch	Protein kinase C, eta	3.82
	Prkci	Protein kinase C, iota	0.72
	Plau	Plasminogen activator, urokinase	1.49
	Edn1	(Preproendothelin-1) Endothelin 1	4.12
	Ednra	Endothelin receptor type A	4.26

Table 2: Listing of immunoblotting analytes

Antibody	Company Name	Catalog Number	Molecular Weight (kDa)	Gel Loading
Angiopoietin-1	LifeSpan BioSciences (Seattle, WA)	LS-C139797	48 kDa	4-12% Bis-Tris
Angiostatin (AS4.5)	EMD Millipore (Bellerica, MA)	PC371	50 kDa	4-12% Bis-Tris
Endoglin	Cell Signaling Technology (Danvers, MA)	4335	95 kDa	4-12% Bis-Tris
KLF2	Sigma-Aldrich (St. Louis, MO)	AV37859	40 kDa	4-12% Bis-Tris
TEK (Tie-2)	Santa Cruz Biotechnology (Dallas, TX)	sc-324	150 kDa	3-8 % Tris Acetate
VEGF	Santa Cruz Biotechnology	sc-507	28 kDa	4-12% Bis-Tris
HIF1alpha	Abcam (Cambridge, MA)	Ab16066	116 kDa	4-12% Bis-Tris
HO-1	Santa Cruz	Sc-7695	32 kDa	4-12% Bis-Tris
β -actin	Bio Vision (San Francisco, CA)	3662-100	45 kDa	Both