

Table I. Rat Genes Analyzed By Real Time Quantitative RT-PCR

Category	Gene Name	Accession	Forward Primer	Reverse Primer	Comment
<b>Cell Cycle</b>	Cyclin B	X64589	CTCTCCAAGCCC AATGGAAA	ATCGGAGAAAG CCTGACACAGA	
	Cyclin E	D14015	GATCCAGAAAA AGGAAGCCAAA	TGTCAATCTTG GCAATTTCTTC	UC*
	CDK1	X60767	CAGAGCTGGCG ACCAAGAA	AAGATCCTGAA GAGCTGGTCAA	
	PCNA	Y00047	GCAACTTGGAA TCCCAGAACA	CCCGGCATATA CGTGCAAAT	UC*
	Thymidine Synthase	L12138	GCCCCGCAGCA TGGA	TGAAGCCGCAG CGCATA	UC*
	p21	U24174	GAGGCCTCTTCC CCATCTTCT	AATTAAGACAC ACTGAATGAAG GCTAAG	
<b>ECM</b>					
Hyaluronan Synthesis	HA Synthase-2	AF008201	TCGGAACCACA CTGTTTGGGA	TGGATAAACTG GTAGCCAACAA TATAA	
	and Binding Proteins	CD44	U96138	GCCAGTGACAG GTTCCATCA	AGGATCTAGTA GCCTCTGGAAA AGG
	RHAMM	AF133037	TGTGACCCTCAA GACTCCATTG	CACGGTCCCTG CAGTCTGA	
	Versican V0 Isoform	AF062402	CAACCACTCCGT CAGTGCAGTA	GAGAAGGCGC AACACTTTCAT	UC*
	Versican V3 Isoform	AF072892	GCAGCGACCAG CAGATACT	TGACCGCCCCG ATGTC	
	Aggrecan	J03485	CAGAACCTTCGC TCCAATGAC	CCTCAATGCCA TGCATCACTT	
	Nerocan	M97161	GGAGAATGCCT CTCTTGTTGGT	GAATCCTTCAT CACACTGGTAT CG	ND*
	Brevican	X79881	CCCCGCATCGCT CACA	GCGATAGACCC CGGAATCAT	ND*
Heparan Sulfate Proteoglycan	Syndecan-1	M81785	TTCACTGTTTTG CACAGTTA	GGCACCAAACA GATAGTCCATA CC	
	Syndecan-2	AA925627	TTCACTGTTTTG CACAGTTA	CTTCCAAAGCT GCACAATGC	
	Syndecan-3	U52825	CACCTCCTCCCA GGGAAAG	ACGCTAGAGTG GCCTCCCTTA	
	Syndecan-4	M81786	TGCACTGGCCAC	CCTGCTAAACC	UC*

Other Proteoglycans	Glypican	L34067	ACAATTTAA TCATTGGCA GTGTGCATATGT G	AGCCTCAATCT TTAGCTGTGAG TGTGTCCTTGTT G	
	Agrin	M64780	CCCAGCACACG CCTATCTGT	GGTCTCGAGTT TGGCATTGAC	
	Decorin	X59859	CCTGACAATCCC CTGATATCTATG T	GTCCAGACCCA GATCAGAACAC T	
	Biglycan	U17834	CTTCCGCTGCGT CACTGA	GGTGGCTACCA CTGCTTCTACTT C	
	Lumican	X84039	GTTGAAAAGTG TGCCCATGGT	TTCATCAATAT GGTCGATCTGG TT	
	Bamacan	U82626	TCCCCAGGAAG CATTTGAAA	AACTCTGTGTT GCACTGCTCAA G	UC*
Cell Adhesion	Fibronectin	X15906	CATGGCTTTAGG CGAACCA	CATCTACATTC GGCAGGTATGG	
	Osteopontin	M14656	CGGCCTTGCCTC CTGTCT	GTAATGCGCCT TCTCCTCTGA	
	Laminin	X94551	CAGATCCTGGTG GCAAACG	CGACAAAGCGC AGGAACTAGA	UC*
	Laminin Receptor	M27798	TCTGTGCCCATT CAGCAGTTC	GAGCTGCTGAC CAGTCCTCAGT	UC*
	Thrombospondin-4	X89963	GACAAGGTCAT TGATCGCATTG	CAGTCTGATAG GCCCTGAAGTC A	
	Cartilage Oligomeric Matrix Protein	X72914	AACGCTCACCCC TGTTTCC	GGACAGGCTTC GCAGTGAA	
	Tenascin-R	Z18630	CCTGGCCCTGGA TCACATAA	CCAAGTCTCAC CACCAAAGAAA G	ND*
	Tenascin-C	U15550	CAGAAGCCTTG GCCATGTG	GCACTCTCTCC CCTGTGTAGGA	
	Integrin H36- Alpha7	X65036	ATCAAGGCCAG TCACTCAATACT CT	TCCCATTGGCG ATCTCATG	UC*
	Sciatic Nerve Integrin Beta 4	U60096	TGGTGGAGGCC ATTGATGT	CCGCTAGCTTG CTCCTTAATGA	
Integrin Alpha-1	X52140	GGATTTAATGAC GTCGTGATTGG	CCACTGCCATG ATAAATGTACA CA	UC*	
Integrin Alpha-6	AA955091	GCAGTATATTCA	TCCGCCAGAAA	UC*	

			AAACAGGCTTT	TCCATGTG	
			AACC		
	Integrin Alpha-5	S58528	GTCAGCCCAGTC	GGGCTTGAAAC	UC*
			GTGTCTTACA	TCCTCTTATCTC	
				A	
	Integrin Alpha-8	AF148797	ACAATTCCCCAT	TTCTTGCAGGG	ND*
			CTTGTCAGAAA	CTCTGTCTGT	
	Integrin Beta-1	U12309	GGAGAAAACCTG	TGGGCTGGTAC	UC*
			TGATGCCATACA	AGTTTTGTTCA	
			T		
	Integrin Beta-3	S58529	GGAAGGCTGGC	TGGTTGTCCCG	ND*
			AGGCATT	GCCAAT	
	Integrin Beta-5	AI044261	GGGAGCGGATC	GACCATTTGCT	
			CCTTACAG	CACGCTAGCT	
	Integrin Beta-7	AF003598	AGTGCCCTCCAA	CGTCCCACCTC	
			GCTTAACCA	TCTCTCGAA	
	Integrin Associated Protein Form 4 p-Selectin	AF017437	TCTTTGCATCAT	AAAGCTATGAT	UC*
			GGCTTGTGA	TCCCAAACCTG	
				AA	
		L23088	GGAGCGCATCG	GTATTCACACT	UC*
			AGACCATT	CTGGCCCATAG	
				AA	
Collagens	Collagen Alpha 1 Type I	Z78279	GGAGAGTACTG	CTGACCTGTCT	
			GATCGACCCTA	CCATGTTGCA	
			AC		
	Collagen Alpha 1 Type II	L48440	CCGATCCCCTGC	TGCTCTCGATC	ND*
			AGTACATG	TGGTTGTTCA	
	Collagen Alpha 1 Type III	X70369	GAAAAAACCCCT	GGATCAACCCA	
			GCTCGGAATT	GTATTCTCCAC	
				TCT	
	Collagen Alpha 2 Type V	AJ224880	GCTCCAGATGA	CCGCATGGTTT	
			CACAAACAAAA	CAATTTGACT	
			CT		
	Collagen Alpha 1 Type XII	U57361	GAGACATTGCTT	TGCTCATCTGG	
			CCCAGAACATG	CCACTGATC	
<b>ECM Remodeling</b>					
Proteases/Protease Inhibitors	MMP1/Interstitial Collagenase	U53605	CCACTGAAACT	GTGGCAGAACC	ND*
			AGAGATGCCCT	TGAGGGAAA	
			AAT		
	MMP2/Gelatinase A	U65656	CCCATGAAGCCT	TGGAAGCGGAA	
			TGTTTACCA	CGGAAACT	
	MMP3/Stromelysin 1/Transin	X02601	TCCAGGAAAA	GAAACCCAAAT	ND*
			TAG	GCT	
	MMP7/Mettrilysin	L24374	TCTAGGCCATGC	CCGTCCAGTAC	ND*

			CTTTGCA	TCATCCTTGTC A	
	MMP8/ Neutrophil collagenase	AJ007288	CGAAAATTCTAC CACTTACCAAGC A	CCTTAAGCTTC TCGGCAATCA	
	MMP9/ Gelatinase B	U24441	CGTGGCCTACGT GACCTATGA	TGCACCGCTGA AGCAAAAG	
	MMP10/ Stromelysin 2/ Transin 2	X05083	TCGAGTTTGACC CCAATGC	AAATTAGGCGA GAAATACTATT TTACAGTGTT	ND*
	MMP11/ Stromelysin 3	U46034	AAGTTTCCCTCG ACCCATAGG	AGGTGTTGTCA GCGGAAAGTG	
	MMP12/ Metalloelastase	X98517	GAGCTGGCACA ATGAAGTTTCTC	GCCCCACAGGC AGATACCT	
	MMP13/ Collagenase 3	M60616	TGGAATAAAG AACATGGTGAC TTCTA	CCCCGCCAAGG TTTGG	ND*
	MMP21/23	AB01060	CATGCACCTCAA TG	GGTGTAGTCCC CAC	
	MT1-MMP/ MMP14	X91785	CAACGACCCCTC CGACATC	CGTCATCAGGC AACACGAAGT	
	MT3-MMP/ MMP16	D85509	TTCCAGTTGTG TTAGGCCTTT	TGCTTTGCGCT GAGTATTGC	
	TIMP-1	L31883	TGGAGAGCCTCT GTGGATATGTC	AACGGCCCGCG ATGA	
	TIMP-2	L31884	TGCCCTATGATC CCATGCTA	TCTGTGACCCA GTCCATCCA	
	TIMP-3	U27201	GAACGGAAGCG TGCACATG	TTGGCCCGGAT CACGAT	
Other Enzymatic Modulators	Lysyl Oxidase	U11038	TGGCACCGGTTA CTTCCAGTAC	ACGTGGATGCC TGGATGTAGT	
	Elastase I	L00117	GGTCATTGCCTA CAACTGAACGT	TTATTGCAGAG CTAAGCACCAT CT	ND*
	Elastase II	L00124	TTATTAACCCGA CACCTAACCA	CCCCTGCTCC CGAGTACA	ND*
	Endogenous Vascular Elastase	S73894	CGATGTCCTGCA GCAACTGA	TCATGGTACGT GCGCAGATT	UC*
	Tropoelastin	M86376	CCTAGGAGCCA GGCCATTC	TGGGCTGGGTA GATAGGAGAA A	
TGF-beta and Receptors	TGF-beta 1	X52498	AAGAAGTCACC CGCGTGCTA	TGTGTGATGTC TTTGGTTTTGTC A	UC*
	TGF-beta 2	AF135598	TCTCCAACCCAG	CTCGGCTCTGG	

TGF-beta 3	X71903	CGCTACAT CTTTGCTCATGG CAGTACATCTG	TTTTCACAAC CCTTTAACAAC ATCCCGATTCC	
TGF-beta Receptor Type I	L26110	CATCGGCAAAG GTCGGTTT	AATATCTTCAC GGCAACTTCTT CTC	UC*
TGF-beta Receptor Type II	L09653	TCACCTACCACG GCTTCACTCT	CGCCCTTTTCTT TTCCTTCA	UC*
TGF-beta Receptor Type III	M80784	CAGCGGCAGAG AGAGGTTACC	GAACACGATAG GTTTGTGGTGA GT	UC*

**Coagulation/  
Hemostasis**

PAI-1	M24067	TTCCTCCACAGC CATTCTAGTCT	GAAAGGATCGG TCTAAAACCAT CTC	
PAI-2	X64563	TGTCTGAGAGC AATGACCTTTTT C	CCACAGTGCCC TCCTCGTT	
tPA	M23697	CCGTCCGAAGTT GCAGTGA	GCTGACACGTA CCCCATTG	UC*
uPA	X63434	CAGGAACCCCG ACAACCA	CATTCTTGGAC AAACTGCTTTA GG	
uPA Receptor	AF007789	GGACGAACCCT ACACCAAAGG	GTGAAAGGTCT GGTTGCTATGG A	

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\*UC=Unchange; ND=Not Detectable