

Table S4. qPCR primers and full names of genes tested

Gene		Forward primer	Reverse primer	Annealing temp.	Amplicon size (bp)	RefSeq	Location
<i>PCOLCE</i>	Procollagen C-endopeptidase	GACTGCGACAGTGAAGTCCA	GCTTGCAAGGCACGTAAAAC	58	146	NM_002593	Ex8
<i>RUVBL2</i>	RuvB-like 2 (E. coli)	CCAAGATGATTGAGTCCCTGAC	GCACGAACTTGGTCTGG ^a	60	150	NM_006666	Ex7-9
<i>TGFB2</i>	Transforming growth factor, beta 2	AATTGCTGCCTACGTCCACT	TTGGGTTCGTGTATCCATTTC	62	70	NM_001135591	Ex6
<i>EIF2C2</i>	Eukaryotic translation initiation factor 2C, 2	TGAGATGACAGACGTGACTGG	CAGGGGTCGCAATAGCTTTA	60	83	NM_012154	Ex10-11
<i>BGN</i>	Biglycan	CTCCCCTGACACCACGCTGCT	AGGTGCTGGAGACCCTTGAAGTCAT	58	84	NM_001711	Ex3
<i>DCN</i>	Decorin	CCTTCACGCATTGATTCTTGT	AAAGTCGTTCCAACCTCACCA	58	86	NM_133503	Ex3-4
<i>MYOM1</i>	Myomesin 1, 185kDa	CTCTGAGGGCTCACCAACTC	AAAAGTGGCAGCGAGTGAAC	62	134	NM_003803	Ex15
<i>SFRS9</i>	Serine/arginine-rich splicing factor 9	GATGCGGCCGTACTTGTA	GCATCTACGTGGGGAACCT	60	77	NM_003769	Ex1
<i>CAPG</i>	Capping protein (actin filament), gelsolin-like	CCCAGAAGAGGTTTCCCATC	CTCTCCCAGCAGCGTGTT	60	109	NM_001747	Ex3-4
<i>IGFBP6</i>	Insulin-like growth factor binding protein	GCCGTAGACATCTGGACTCAGTGCT	TGGGCACGTAGAGTGTTTGAGCC	62	78	NM_002178	Ex3
<i>FRAS1</i>	Fraser syndrome 1	GAGCAGTTCCTCAACCTCGT	TCCCAGTGTTGTGGAGATCA	60	85	NM_025074	Ex20-21
<i>M6PR</i>	Mannose-6-phosphate receptor (cation dependent)	GGGAGCCAAAGGAATGGAGCAGT	TGCTGCAGGCACATTTTCGAGGT	60	118	NM_002355	Ex6-7

^aThis was the only reaction using FAM reporter technology. The probe for *RUVBL2* was TACGACGCTATGGGCTCC (Solaris). The other reactions used SYBR-Green reporter.