

**Supplement Table 2.** qRTPCR primer details

<b>Gene</b>	<b>Species/ Accession</b>	<b>Sequence 5'-3'</b>	<b>Tm</b>	<b>Product Size</b>
<i>COL1A1</i>	<i>Ovis aries</i> AF129287	F -ATCCCTGGACAACCTGGACTC R -TCATCATAGCCGTAAGACAACTGG	57	107
<i>COL2A1</i>	<i>Bos taurus</i> X02420	F – TGACCTGACGCCCATTCATC R – TTCCTGTCTCTGCCTTGACCC	55	154
<i>ACAN</i>	<i>Bos tauris</i> U76615	F – TCACCATCCCCTGCTACTTCATC R – TCTCCTTGAAATGCGGCTC	58	105
<i>IL1RN</i>	<i>Ovis aries</i> XM004005903.11	F – TTCGCCTTCATCCGCTCTGACAAC R-CTGCTGTAAGTAGAACCTGGTGACC	59	159
<i>MMP2</i>	<i>Ovis Aris</i> AF267159	F – TGCTACCACCTCCAACCTACGATG R – GTGCCAGTATCAATGTCAGGGG	60	240
<i>MMP3</i>	<i>Bos taurus</i> AF135232	F – TCCCCCAGTTTCCCCTAATG R – GATTTCTCCCCTCAGTGTGCTG	58	124
<i>MMP9</i>	<i>Bos taurus</i> X78324	F -AGGTGAATCAGGTGGACTATGTGG R -AGAAAGGAAGGTGGGAAGAGAGG	59	221
<i>MMP13</i>	<i>Ovis aries</i> AY091604	F – TGACAGGCAGACTTGATGATAAC R – CATTTTGGACCACTTGAGAGTTC	58	113
<i>ADAMTS4</i>	<i>Bos taurus</i> NM181667	F – AACTCGAAGCAATGCACTGGT R – TGCCCGAAGCCATTGTCTA	60	149
<i>ADAMTS5</i>	<i>Bos taurus</i> AF192771	F – GCATTGACGCATCCAAACCC R-CGTGGTAGGTCCAGCAAACAGTTAC	55	97
<i>TIMP1</i>	<i>Ovis aries</i> S67450	F – GGTTCAGTGCCTTGAGAGATGC R – GGGATAGATGAGCAGGGAAACAC	57	265
<i>TIMP3</i>	<i>Bos taurus</i> NM174473	F – CTCCTTTGCCCTTCTCTACCC R – TCTGGTCAACCCAAGCATCG	57	286