

**Supplemental Table 1**

<i>Gene</i>	<i>Primer Sequence</i>	<i>Product Size (bp)</i>
Human GAPDH	F: 5' CGCTCTCTGCTCCTCCTGTT 3' R: 5' CCATGGTGTCTGAGCGATGT 3'	81
Human COL2A1	F: 5' CGTCCAGATGACCTTCCTACG 3' R: 5' TGAGCAGGGCCTTCTTGAG 3'	122
Human SOX9	F: 5' TGGGCAAGCTCTGGAGACTTC 3' R: 5' ATCCGGGTGGTCCTTCTTG TG 3'	98
Human MMP1	F: 5' GGGAGATCATCGGGACAAC TC 3' R: 5' GGGCCTGGTTGAAAAGCAT 3'	72
Human MMP3	F: 5' TGGCATTCAGTCCCTCTATGG 3' R: 5' AGGACAAAGCAGGATCACAGTT 3'	116
Human MMP13	F: 5' AAGGAGCATGGCGACTTCT 3' R: 5' TGGCCAGGAGGAAAAGC 3'	72
Human WNT1	F: 5' CTTCGGCAAGATCGTCAACC 3' R: 5' GTGCAGGATTCGATGGAACC 3'	120
Human WNT3	F: 5' CTTCTAATGGAGCCCCACCT 3' R: 5' GAGCCCAGAGATGTGTACTGC 3'	125
Human WNT3A	F: 5' GGCTGTTGGGCCACAGTATTCC 3' R: 5' GCTGGGCATGATCTCCACGTAG 3'	118
Human WNT4	F: 5' CTCGTCTTCGCCGTCTTCT 3' R: 5' AGTTTCTCGCACGTCTCCTC 3'	101
Human WNT5A	F: 5' ATCAATTCCGACATCGAAGG 3' R: 5' CGTTCACCACCCCTGCT 3'	129
Human WNT5B	F: 5' TCAAGAGAGCGAGAAGACTGG 3' R: 5' GTCTGTCAGAAGCTGAGCCC 3'	150
Human WNT7A	F: 5' TGCCCGGACTCTCATGAAC 3' R: 5' GTGTGGTCCAGCACGTCTTG 3'	128
Human WNT7B	F: 5' AGCCAACATCATCTGCAACA 3' R: 5' CTGGTACTGGCACTCGTTGA 3'	130
Human WNT9A	F: 5' GCAAGATGCTGGATGGGTC 3' R: 5' GAGGATGGTCAGGGGCTC 3'	131
Human WNT10A	F: 5' TCCCCTATGAGAGTCCCATCT 3' R: 5' AGCCACAGGCCTTCAGTTT 3'	129
Human WNT10B	F: 5' GGTCCACGAGTGTCAGCAC 3' R: 5' GGAAAAGCACTTTCTCGGA 3'	124

<i>Gene</i>	<i>Primer Sequence</i>	<i>Product Size (bp)</i>
Human WNT11	F: 5' GCTCCTCCTGGGTGTGAC 3' R: 5' GATGGTGTCTTGGACAGCG 3'	146
Human DKK1	F: 5' AGTACTGCGCTAGTCCCACC 3' R: 5' TCCTCAATTTCTCCTCGGAA 3'	172
Human FRZB	F: 5' ACGGGACACTGTCAACCTCT 3' R: 5' CGAGTCGATCCTTCCACTTC 3'	155
Human WIF1	F: 5' TCAGAAAAGCGCAACAGAGA 3' R: 5' TGATGCCTTTATCCAGGGAG 3'	132
Human AXIN2	F: 5' AGTGTGAGGTCCACGGAAAC 3' R: 5' CTGGTGCAAAGACATAGCCA 3'	103
Human CTNNB1	F: 5' CCAGGTGGTGGTTAATAAGG 3' R: 5' CTGAGGAGAACGCATGATAG 3'	88
Human TCF4	F: 5' GCACTGCCGACTACAATAGG 3' R: 5' CTGCATAGCCAGGCTGATTC 3'	150
Human LEF1	F: 5' CGAAGAGGAAGGCGATTTAG 3' R: 5' CTGAGAGGTTTGTGCTTGTC 3'	109
Human NFkB1	F: 5' ATGTATGTGAAGGCCCATCC 3' R: 5' TTGCTGGTCCCACATAGTTG 3'	105
Human RELA	F: 5' TCTGCCGAGTGAACCGAAAC 3' R: 5' AGCCTGGTCCCGTGAAATAC 3'	111
Human SERPINA1	F: 5' AGTTCGCCTTCAGCCTATAACC 3' R: 5' AGTTCGCCTTCAGCCTATAACC 3'	149
Human IL6	F: 5'GGCACTGGCAGAAAACAACC 3' R: 5'GCAAGTCTCCTCATTGAATCC 3'	85
Bovine GAPDH	F: 5' CAACGTGTCTGTTGTGGATCTG 3' R: 5' TGTAGCCTAGAATGCCCTTGAG 3'	116
Bovine MMP3	F: 5' TCACTCGGTTCCGCCTTTCTC 3' R: 5' TGGGCACCACAGGGTCATTAG 3'	93
Bovine MMP13	F: 5' ATTCTTCTGGCGGCTGCATCC 3' R: 5' AGGCGGCATCAATACGGTTGG 3'	95
Mouse GAPDH	F: 5' TGGCAAAGTGGAGATTGTTGCC 3' R: 5' AAGATGGTGTGATGGGCTTCCCG 3'	150
Mouse MMP3	F: 5' GGGAAGCTGGACTCCAACAC 3' R: 5' GCGAACCTGGGAAGGTACTG 3'	91

<i>Gene</i>	<i>Primer Sequence</i>	<i>Product Size (bp)</i>
Mouse MMP13	F: 5' ACTACCATCCTGCGACTCTTG 3' R: 5' GTTTGCCAGTCACCTCTAAGC 3'	111
Mouse CTNNB1	F: 5' TCACGCAAGAGCAAGTAGC 3' R: 5' GCTGGACATTAGTGGGATGAG 3'	150
Mouse TCF4	F: 5' CAATCCAGGAACCCTTTCG 3' R: 5' AGGAGCGTAGACTGAAGAC 3'	160
Mouse LEF1	F: 5' TACAACAAGGGACCCTCCTAC 3' R: 5' GGAGAAAGGGACCCATTTGAC 3'	95