**Table S2. Primers used for real-time PCR.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **GeneBank**  | **Gene** | **Primer sequence** | **Orientation** | **Location** | **Amplicon (bp)** |
| **MMPs and TIMPs** |
| NM\_002421 | MMP-1 | GCTAACAAATACTGGAGGTATGATG | Forward | 1250-1275 | 100  |
| GTCATGTGCTATCATTTTGGGA | Reverse | 1304-1325  |
| NM\_001127891 | MMP-2 | AGACATACATCTTTGCTGGAG | Forward | 1900-1920 | 88  |
| ATCTGCGATGAGCTTGG | Reverse | 1988-1972  |
| NM\_001166308 | MMP-3  | ATGATGAACAATGGACAAAGGA | Forward | 661-682 | 91 |
| GAGTGAAAGAGACCCAGGGA | Reverse | 751-732  |
| NM\_214207 | MMP-7 | TATGCTGCAACTCATGAAC | Forward | 722-740 | 82 |
| CGTAGGTTGGATACATCAC | Reverse | 804-785  |
| NM\_004994  | MMP-9 | CACTACTGTGCCTTTGAGTCC  | Forward | 1531-1551 | 62 |
| CGATGGCGTCGAAGATGTT | Reverse | 1592-1574  |
| NM\_002425 | MMP-10  | TTATACACCAGATTTGCCAAGA | Forward | 394-415 | 56 |
| TTCAGAGCTTTCTCAATGG | Reverse | 450-432  |
| NM\_005940 | MMP-11  | CTATCCTCCAAAGCCATTGTAA | Forward | 2258-2179 | 106  |
| CAACTGTGTTTAATGACAATCCTC | Reverse | 2254-2231 |
| NM\_002426 | MMP-12 | GTATGATGAAAGGAGACAGATGAT | Forward | 1303-1326  | 166 |
| TACGTTGGAGTAGGAAGTCAT | Reverse | 1469-1449 |
| NM\_002427 | MMP-13 | CAGGAATTGGTGATAAAGTAGAT | Forward | 1302-1324 | 85 |
| CTGTATTCAAACTGTATGGGTC  | Reverse | 1365-1386  |
| NM\_004995  | MMP-14 | TCTCCCAGAGGGTCATTCAT | Forward | 618-1637  | 70 |
| TTCCAGTATTTGTTCCCCTTGTAG | Reverse | 1688-1665  |
| NM\_002429 | MMP-19 | CCTGTCACAATATGGGTACCTAC | Forward | 232-254  | 72 |
| CTCGGTGATATCTTCTGGCTT | Reverse | 304-284  |
| NM\_003254 | TIMP-1 | CTGTGTCCCACCCCACC | Forward | 267-283 | 64 |
| GAACTTGGCCCTGATGACGA | Reverse | 330-311  |
| NM\_003255  | TIMP-2  | ACATTTATGGCAACCCTATCAA  | Forward | 481-502 | 70 |
| TCAGGCCCTTTGAACATCTTTA | Reverse | 550-529  |
| NM\_000362 | TIMP-3 | AGGACGCCTTCTGCAAC | Forward | 1281-1297 | 68 |
| CTCCTTTACCAGCTTCTTCC | Reverse | 1348-1329 |
| NM\_003256 | TIMP-4 | ACCTGTCCTTGGTGCAGA  | Forward | 927-944 | 80 |
| TGTAGCAGGTGGTGATTTGG | Reverse | 1004-985 |
| **Molecules involved in intracellular ECM degradation** |
| NM\_000396 | CTSK (Cathepsin K) | TCGACTATCGAAAGAAAGGATA  | Forward | 585-606  | 70 |
| AAAGCCCAACAGGAACCA  | Reverse | 655-637  |
| AF134838 | Endo180 (CD280) | AAGAGGCCCAGCTGGTCA | Forward | 3144-3161 | 100 |
| GCATGGAGGCCAATCCAAAG  | Reverse | 3243-3224 |
| **Fibrillar ECM proteins** |
| BC036531 | Collagen type I (alpha 1) | AACCAAGGCTGCAACCTGGA  | Forward | 3951-3970 | 80 |
| GGCTGAGTAGGGTACACGCAGG  | Reverse | 4030-4009 |
| NM\_000090 | Collagen type III (alpha 1) | CTCCTGGGATTAATGGTAGT  | Forward | 1271-1290 | 70 |
| CCAGGAGCTCCAGGAAT | Reverse | 1340-1324 |
| NM\_212482  | EDA-FN (Extra domain A-Fibronectin)  | CACAGTCAGTGTGGTTGCCT | Forward | 5633-5652 | 68 |
| CTGTGGACTGGGTTCCAATCA  | Reverse | 5700-5680  |
| NM\_212482  | EDB-FN (Extra Domain B-Fibronectin) | CAGTAGTTGCGGCAGGAGAA  | Forward | 4168-4188 | 65 |
| GTATCCTACTGAGGAGTCCACAAAATC | Reverse | 4232-4206  |
| **Matricellular proteins** |
| NM\_002160 | TN-C (Tenascin-C) | CAACCTGATGGGGAGATATGGGGA | Forward | 6769-6792 | 75 |
| GAGTGTTCGTGGCCCTTCCAG | Reverse | 6846-6826  |
| NM\_001901 | CTGF (CCN2) | ATGATGTTCATCAAGACCTGTGCCTG | Forward | 199-183 | 80 |
| CTTCCTGTAGTACAGGGATTCAAAGATGTC | Reverse | 199-184 |
| **Small leucine-rich proteoglycans** |
| NM\_001711 | BGN (Biglycan) | CTCAAGCTCCTCCAGGTGGTC | Forward | 1067-1087 | 93 |
| CCGAAGCCCATGGGACAGAAGTC  | Reverse | 1151-1127  |
| BT019800 | DCN (Decorin) | CTGACACAACTCTGCTAGAC  | Forward | 242-261 | 97  |
| GACAAGAATCAATGCGTGAAG | Reverse | 339-319  |
| NM\_002023 | FMOD (Fibromodulin) | CACAATGAGATCCAGGAAG | Forward | 761-779 | 85 |
| TCCGAAGGTGGTTATAACTC  | Reverse | 845-826  |
| BT006707  | LUM (Lumican) | TAGACAACAATAAGATCAGCAACA | Forward | 635-658 | 85 |
| TTCGTTGTGAGATAAACGCAG | Reverse | 720-700  |
| **Contractility and myofibroblast-associated proteins** |
| NM\_001613  | α-SMA (α-Smooth Muscle Actin) | AGCGTGGCTATTCCTTCGT | Forward | 637-655 | 97 |
| CTCATTTTCAAAGTCCAGAGCTACA | Reverse | 733-707 |
| NM\_001142483 | P311 | CCTGGACTGAAGAGAGG  | Forward | 321-447  | 78 |
| CAGACAAAGAGTTCTGGGTA | Reverse | 508-489  |
| NM\_001004439  | α11 integrin  | GAAGGCACCAACAAGAACGA | Forward | 1144-1163  | 60 |
| AGGAAAAGCCCGTCTGTGA  | Reverse | 1204-1186  |
| NM\_002473  | NMMIIA (Non-Muscle Myosin IIA)  | ACCGAGAAGATCAATCCATC | Forward | 722-741  | 81 |
| AGATACTGGATGACCTTCTTG | Reverse | 803-783 |
| NM\_005964 | NMMIIB (Non-Muscle Myosin IIB)  | CCGTTTTACATAATCTGAAGGATC | Forward | 395-418 | 98 |
| TTGGAAGATTCTTGTAAGGGTT | Reverse | 493-472 |
| **TGF-β Signaling related genes** |
| NM\_000660 | TGF-β1  | CAACGAAATCTATGACAAGTTCAAGCAG | Forward | 1218-1245 | 76 |
| CTTCTCGGAGCTCTGATGTG | Reverse | 1294-1275  |
| NM\_003238 | TGF-β2  | TGGTGAAAGCAGAGTTCAGAG | Forward | 1883-1903  | 140 |
| CACAACTTTGCTGTCGATGTAG | Reverse | 2022-2001 |
| NM\_003239 | TGF-β3  | ACACCAATTACTGCTTCCGCAA | Forward | 1161-1182 | 81 |
| GCCTAGATCCTGTCGGAAGTC | Reverse | 1242-1220  |
| NM\_001130916 | TGF-βR1 (TGF-β Receptor 1)  | GTGTATAGCTGAAATTGACTTAA | Forward | 286-308 | 99 |
| TGATTGCAGCAATATGTTGTA | Reverse | 384-364 |
| NM\_003242 | TGF-βR2 (TGF-β Receptor 2) | CTGGTGAGACTTTCTTCATGTG | Forward | 768-789 | 127 |
| CTGATGCCTGTCACTTGAAA | Reverse | 894-875 |
| NM\_001964 |  EGR1 (Early Growth Response 1)  | ACGTCTTGGTGCCTTTTGTG | Forward | 2663-2682 |  75 |
| GAGGTGAGCATGTCCCTCA | Reverse | 2737-2719  |
| NM\_001136179 | EGR2 (Early Growth Response 2)  | AGCTTTGCTCCCGTCTCTG | Forward | 469-487 | 88 |
| AGCTGGCACCAGGGTACT | Reverse | 556-539  |
| NM\_004430 | EGR3 (Early Growth Response 3)  | CGTTGGACAGCAATCTCTTC | Forward | 903-922 | 74 |
| AATGGAGCCCATGTCGTTG | Reverse | 976-958 |
| NM\_005966 | NAB1 (NGFI-A Binding Protein-1) | CAAAGTCCCACTCATCAGAGA | Forward | 1930-1950  | 114 |
| TCACAGCTATCTTGAATCTTCAG | Reverse | 2043-2020  |
| NM\_005967 | NAB2 (NGFI-A Binding Protein-2) | CACATCCCTGCTAAAGCTGAA | Forward | 1170-1190 | 111 |
| ATGATGCTGTATTTGCGGATCT | Reverse | 1280-1259  |
| **Growth factors and cytokines** |
| NM\_001171630 | VEGF-A Vascular Endothelial Growth Factor-A) | AGTGTGTGCCCACTGAGGA | Forward | 1316-1334  | 97 |
| GTGCTGTAGGAAGCTCATCTC | Reverse | 1413-1393  |
| NM\_002006  | FGF-2 (Fibroblast Growth Factor-2)  | AGTTGGTATGTGGCACTGAA | Forward | 831-850 | 75 |
| GTATAGCTTTCTGCCCAGGTC  | Reverse | 886-906  |
| NM\_199168 | CXCL12/SDF-1α | TACAGATGCCCATGCCGA | Forward | 174-191  | 93 |
| CTGAAGGGCACAGTTTGGAG | Reverse | 266-247  |
| NM\_000576  | IL1βInterleukin-1 beta) | CAGTGAAATGATGGCTTATT  | Forward | 111-130  | 75 |
| CTTCATCTGTTTAGGGCCA  | Reverse | 186-168  |
| NM\_000572  | IL10Interleukin-10) | AGAACCTGAAGACCCTCAG | Forward | 400-418  | 103 |
| CTTATTAAAGGCATTCTTCACCT | Reverse | 503-481  |
| NM\_000594  | TNF-α (Tumor Necrosis Factor-α) | TCCCCAGGGACCTCTCTCTAATC | Forward | 357-379  | 92 |
| CTACAACATGGGCTACAGGCTTG | Reverse | 449-427  |
| **Cell-cell junction proteins** |
| NM\_000166  | Cx32 | TCATCTTCATCTTCAGAATCATGG | Forward | 226-249  | 85 |
| GTGTTGCAGATGAAGGAAGA  | Reverse | 310-291  |
| NM\_181703  | Cx40 | GAATGTCTTCATTGTCTTTATGCTG  | Forward | 753-777  | 105 |
| ACAAATCGCTGTCTGATCTTC  | Reverse | 857-837  |
| NM\_000165 | Cx43 | AGCAGTCTGCCTTTCGTTGTA | Forward | 393-412 | 73 |
| GATTGGGAAAGACTTGTCATAGCAG | Reverse | 466-442  |
| NM\_001097519 | Cx45 | AGCTGGGTCCAACAAAAGC  | Forward | 1151-1169  | 108 |
| ACCATAAACTATGAGAAGCACAGATT | Reverse | 1258-1233  |
| NM\_001792 | Cadherin-2 | TGAGGAGTCAGTGAAGGAG | Forward | 843-861 | 91 |
| CTTCTGCCTTTGTAGGTGG | Reverse | 933-915 |
| NM\_001797 | Cadherin-11 | TTCCTTCGTGTTGTCATTTGTTG | Forward | 174-196 | 89 |
| CTTCTTCACCCATTGGATACTTG | Reverse | 262-240 |
| **Housekeeping genes** |
| NM\_002046 | GAPDH Glyceraldehydes-3-phosphate d­dehydrogenase) | CTTTGTCAAGCTCATTTCCTGGTA | Forward | 1020-1043 | 70 |
| GGCCATGAGGTCCACCA | Reverse | 1089-1073  |
| M31642  | HPRT1 Hypoxanthine phosphoribosyltransferase I) | TGTTGGATTTGAAATTCCAGACAAG | Forward | 619-643 | 107 |
| CTTTTCCAGTTTCACTAATGACACAA | Reverse | 727-700  |
| NM\_021009 | UBC (Ubiquitin C) |  GTGGCACAGCTAGTTCCGT  | Forward | 371-389 | 96 |
| CTTCACGAAGATCTGCATTGTCA | Reverse | 444-467 |
| NM\_004048 | B2M (Beta-2-microglobulin) | TGTCTTTCAGCAAGGACTGGTCTTTC | Forward | 281-306 | 92 |
| ATGGTTCACACGGCAGGCATA | Reverse | 351-372  |
| NM\_001172085 | TBP (TATAA-box binding protein) | TTCGGAGAGTTCTGGGATTG | Forward | 542-562 | 94 |
| ACGAAGTGCAATGGTCTTTAG | Reverse | 635-614 |