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| **Supplementary Table 1** iSCRIPT reverse transcription reaction mixture.  |
| Components | Volume per reaction,μL |
| iSCRIPT reverse transcription supermix | 4 | Mastermix |
| Nuclease free water | 11 |
| RNA template | 5 |
| Total volume | 20 |

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| **Supplementary Table 2** C1000 Touch Thermal Cycler reverse transcription protocol. |
| 1. Priming | 5 minutes at 25°C |
| 2. Reverse transcription | 20 minutes at 46°C |
| 3. RT inactivation | 1 minute at 95°C |

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| **Supplementary Table 3** Genes of interest for qPCR and the identification of the primers. All primers were purchased from Bio-Rad. |
| Gene | Aliases | Bio-Rad Assay ID |
| Alpha Smooth Muscle Actin | *ACTA2* | qHsaCIP0028813 |
| Collagen Type III Alpha 1 Chain | *COL3A1* | qHsaCEP0052821 |
| Connective Tissue Growth Factor | *CTGF* | qHsaCEP0024255 |
| Vascular Endothelial Growth Factor A | *VEGFA* | qHsaCEP0050718 |
| Gremlin 1, DAN Family BMP Antagonist | *GREM1* | qHSaCEP0053682 |
| Cellular Communication Network Factor 3 | *CCN3* | qHsaCEP0049751 |
| Integrin Subunit Beta 5 | *ITGβ-5* | *q*HsaCIP0027804 |
| Ribosomal Protein S18 | *RPS18* | *q*HsaCEP0040177 |
| Glyceraldehyde 3-Phosphate Dehydrogenase | *GAPDH* | *q*HsaCEP0041396 |
| Collagen Type I Alpha 2 | *COL1A2* | qHsaCEP0024891 |

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| **Supplementary Table 4** SsoAdvanced supermix qPCR reaction protocol. |
|  Component  |  Volume per 20 μl reaction  |  Final concentration  |
| SsoAdvanced universal probes supermix (2x)  |  10 μl  |  1x  |
|  Forward and reverse primers  |  Variable  |  250–900 nM each  |
|  Fluorogenic probe  |  Variable  |  150–250 nM each  |
|  Template   |  Variable  |  cDNA: 100 ng–100 fg  Genomic DNA: 500 ng–5 pg  |
|  Nuclease-free H2O  |  Variable  |  *—*  |
|  *Total reaction mix volume*  |  *20* μ*l*  |  *—*  |

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| **Supplementary Table 5** CFX96 qPCR reaction protocol. |
| Real-Time PCR System  |    Setting/ Scan Mode  | Polymerase Activation and DNA Denaturation  | Amplification  |
|  |  Denaturation at 95°C  | Annealing/ Extension + Plate Read at 60°C | Cycles  |
| Bio-Rad® CFX96 TouchTM | All channels  | 30 sec at 95°C for cDNA  |  5–15 sec      | 10–30 sec  | 35–40      |