**Supplementary materials**

**Table 1 The primer sequence of the EMT-related genes**

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| **Genes** | **Primer forward** | **Primer reverse** |
| ABI3BP | CAAATGCAACATGCTCTCCAGT | TTGGCCTTTTACCTTTTGGCA |
| AREG | GTGGTGCTGTCGCTCTTGATA | CCCCAGAAAATGGTTCACGCT |
| CADM1 | ATGGCGAGTGTAGTGCTGC | GATCACTGTCACGTCTTTCGT |
| CDH6 | AGAACTTACCGCTACTTCTTGC | TGCCCACATACTGATAATCGGA |
| COL1A1 | GAGGGCCAAGACGAAGACATC | CAGATCACGTCATCGCACAAC |
| COL4A2 | TTATGCACTGCCTAAAGAGGAGC | CCCTTAACTCCGTAGAAACCAAG |
| FGF2 | AGAAGAGCGACCCTCACATCA | CGGTTAGCACACACTCCTTTG |
| GPX7 | CCCACCACTTTAACGTGCTC | GGCAAAGCTCTCAATCTCCTT |
| LAMA2 | TGCTGTCCTGAATCTTGCTTC | AGCATTTGTAATCGGGTGTCTC |
| LEPRE1 | CAAGCGGAGCCCCTACAAC | CTCCCAGTCGAAATTCTTGCAT |
| MATN3 | TCTCCCGGATAATCGACACTC | CAAGGGTGTGATTCGACCCA |
| SERPINE2 | TGGTGATGAGATACGGCGTAA | GTTAGCCACTGTCACAATGTCTT |
| SERPINH1 | TCAGTGAGCTTCGCTGATGAC | CATGGCGTTGACTAGCAGGG |
| SNAI2 | CGAACTGGACACACATACAGTG | CTGAGGATCTCTGGTTGTGGT |
| SPARC | TGAGGTATCTGTGGGAGCTAATC | CCTTGCCGTGTTTGCAGTG |
| THY1 | ATCGCTCTCCTGCTAACAGTC | CTCGTACTGGATGGGTGAACT |
| VCAN | GTAACCCATGCGCTACATAAAGT | GGCAAAGTAGGCATCGTTGAAA |
| VIM | GACGCCATCAACACCGAGTT | CTTTGTCGTTGGTTAGCTGGT |
| COMP | GATCACGTTCCTGAAAAACACG | GCTCTCCGTCTGGATGCAG |
| GREM1 | CGGAGCGCAAATACCTGAAG | GGTTGATGATGGTGCGACTGT |
| MMP3 | AGTCTTCCAATCCTACTGTTGCT | TCCCCGTCACCTCCAATCC |
| SGCD | GCGGAAACGATGCCTGTATTT | TGGCGTAGAGAGGTTGTAAGAA |
| CD86 | CTGCTCATCTATACACGGTTACC | GGAAACGTCGTACAGTTCTGTG |
| IL18R1 | CCTTGACCCTTTGGGTGCTTA | CTCATGTGCAAGTGAACACGA |
| SPON1 | CCCAAGTCAGAGGGCTACTG | GGTTCCCGGCTTGTAGAAGT |