**Additional file 1**

**Table S1. Specific small interfering RNAs of MMP-12 gene**

|  |  |  |  |
| --- | --- | --- | --- |
| **MMP-12** | **Forward 5 → 3** | **Reverse 5 → 3** | **Position** |
| siRNA-1 | GCUCUUCGUCCAGAGGAAUTT | AUUCCUCUGGACGAAGAGCTT | 222-241 |
| siRNA-2 | CCGAGAGAUUGCUCAGUAUTT | AUACUGAGCAAUCUCUCGGTT | 494-513 |
| siRNA-3 | GCCAAAGGUUCUGAAAGAUTT | AUCUUUCAGAACCUUUGGCTT | 770-789 |
| snRNA | GCACUUCUCCUAGAGUCCATT | UUGCAAGCGAGAGUAUGCGTT | -- |

**Table S2. Primer sequences for Quantitative real-time PCR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gene Name | Forward 5 → 3 | Reverse 5 → 3 | Amplification size (bp) | \*Amplification efficiency (%) |
| MMP-12 | CAACTTCTCAGAGTGCGATTTG | TTGAGTGGAGCCTTTATCCAGT | 205 | 95.12 |
| Beta Tubulin | TGCATTGGTACACTGGAGAAG | GCTTCCTGGTACTGCTGATATT | 240 | 91.23 |

\*Amplification efficiency (%) = (10-1/slope -1) ×100