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| **Supplementary Table 1** Primers for qRT-PCR and sequences for probes |
| Gene Symbol |  | 5’-3’ |
| α-SMA | F | CTATGAGGGCTATGCCTTGCC |
| R | GCTCAGCAGTAGTAACGAAGGA |
| COL1A1 | F | GAGGGCCAAGACGAAGACATC |
| R | CAGATCACGTCATCGCACAAC |
| COL3A1 | F | GCCAAATATGTGTCTGTGACTCA |
| R | GGGCGAGTAGGAGCAGTTG |
| CTGF | F | CAGCATGGACGTTCGTCTG  |
| R | AACCACGGTTTGGTCCTTGG  |
| MMP-2 | F | GTGCCCAAGAATAGATG |
| R | AGAAGGTTGTGAAAGGA |
| MMP-9 | F | TTGACAGCGACAAGAAGTG |
| R | CTGAGGAATGATCTAAGCC |
| TIMP-1 | F | AGAGTGTCTGCGGATACTTCC |
| R | CCAACAGTGTAGGTCTTGGTG |
| SMAD3 | F | CCATCTCCTACTACGAGCTGAA |
|  | R | CACTGCTGCATTCCTGTTGAC |
| SMAD2 | F | CCGACACACCGAGATCCTAAC |
|  | R | GAGGTGGCGTTTCTGGAATATAA |
| TGF-β | F | TGTGACAGCAGGGATAA |
|  | R | TGAGAAGCAGGAAAGGC |
| β-ACTIN | F | TTGCGTTACACCCTTTCTTG |
|  | R | GCTGTCACCTTCACCGTTCC |
| TUBD1 | F | TCTGGCCGATGGAATTATGGT |
|  | R | AGTAACCGTATGCCCAGTTGT |
| Pre-TUBD1 | F | GTGAACCACCGACTCAGGTT |
|  | R | TTCTGGGTGGGGGATATGTA |
| circTUBD1- divergent primers | F | AAGAAGTTCCAATTGCCCGG |
|  | R | CATTTCTCCACTTCCTTCCGG |
| circTUBD1- NC |  | TTCTCCGAACGTGTCACGT |
| sh1-circTUBD1 |  | CAAAGATGGAAGAAGTTCC |
| sh2-circTUBD1 |  | AAAGATGGAAGAAGTTCCA |
| miR-203a-3p | F | RiboBio, Guangzhou, China |
|  | R | Universal Reverse Primer (CWBIO) |
| U6 | F | CTCGCTTCGGCAGCACA |
|  | R | AACGCTTCACGAATTTGCGT |
| miR-203a-3p mimics |  | 5’-GUGAAAUGUUUAGGACCACUAG-3’ |
|  | 5’-AGUGGUCCUAAACAUUUCACUU-3’ |
| miR-203a-3p mimicsnegative control |  | 5’-UUCUCCGAACGUGUCACGUTT-3’ |
|  | 5’-ACGUGACACGUUCGGAGAATT-3’ |
| miR-203a-3p inhibitor |  | 5’-CUAGUGGUCCUAAACAUUUCAC -3’ |
| miR-203a-3p inhibitor negative control |  | 5’-CAGUACUUUUGUGUAGUACAA -3’ |
| miR-203a-3p-probe-for pull down  |  | 5’-GUGAAAUGUUUAGGACCACUAG -3’  |
|  | 5’-CACUUUACAAAUCCUGGUGAU C -3’  |
| miR-203a-3p-probe NC-for pull down  |  | AAAAGUUUUGUACUACACACUG |
| circTUBD1-NC probe-for pull down  |  | Bio-UUUGUACUACACAAAAGUACUG |
| circTUBD1 probe-for pull down  |  | Bio-CCGGGCAATTGGAACTTCTTCCAT |
| circTUBD1- FITC probes- for FISH  |  | FITC- CCGGGCAATTGGAACTTCTTCCAT - FITC |
| miR-203a-3p probe- for FISH  |  | CY3-AACCCATGGAATTCAGTTCTCA- CY3 |