**Additional file**

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| **Table S1** Sequences of primers used for plasmid construction in this study |
| MRCCAT1 shRNA1 | Sense (5’-3’) | GatccGCCACTACACAGCACTGCTTTTCAAGAGAAAGCAGTGCTGTGTAGTGGTTTTTTc |
| Antisense (5’-3’) | aattgAAAAAACCACTACACAGCACTGCTTTCTCTTGAAAAGCAGTGCTGTGTAGTGGCg |
| MRCCAT1 shRNA2 | Sense (5’-3’) | GatccGCTTCCAGCCCAGAACTTTTTCAAGAGAAAAGTTCTGGGCTGGAAGCTTTTTTc |
| Antisense (5’-3’) | aattgAAAAAAGCTTCCAGCCCAGAACTTTTCTCTTGAAAAAGTTCTGGGCTGGAAGCg |
| MRCCAT1 shRNA3 | Sense (5’-3’) | GatccGCCCAAAGCCATCTGGTTATTCAAGAGATAACCAGATGGCTTTGGGCTTTTTTc |
| Antisense (5’-3’) | aattgAAAAAAGCCCAAAGCCATCTGGTTATCTCTTGAATAACCAGATGGCTTTGGGCg |
| Control shRNA | Sense (5’-3’) | gatccTTCTCCGAACGTGTCACGTAATTCAAGAGATTACGTGACACGTTCGGAGAATTTTTTg |
| Antisense (5’-3’) | aattcAAAAAATTCTCCGAACGTGTCACGTAATCTCTTGAATTACGTGACACGTTCGGAGAAg |
| pcDNA3.1+-MRCCAT1 | Sense (5’-3’) | aaGGTACCTAGCCATCTCCGTTTTCAAAT |
| Antisense (5’-3’) | aaCTCGAGAGAGAGAGAGGGAAGACACTGT  |
| pLVX-NPR3 | Sense (5’-3’) | CCGGAATTCGCCACCATGCCGTCTCTGCTGGTGC |
| Antisense (5’-3’) | CCGGGATCCAGCTACTGAAAAATGGGATCTGATGGA |

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| **Table S2** Sequences of primers used for qRT-PCR in this study |
| MRCCAT1 | Forward (5’-3’) | CAGCCGTTCAGAATCTCCTGT |
| Reverse (5’-3’) | AACCAGATGGCTTTGGGCAG |
| ATF3\_003 | Forward (5’-3’) | CTTCAGTATTAGCAGAGCCACAGG |
| Reverse (5’-3’) | TCTCCGACTCCTGGGACACA |
| TPM4\_006 | Forward (5’-3’) | AGGCCTGAGCTTCTCAAACT |
| Reverse (5’-3’) | AAAAATGTCCCCTACTTTCCCT |
| ELL2\_004 | Forward (5’-3’) | TCCCTCCGACTTCTTTCCCT |
| Reverse (5’-3’) | GCAACATTCAGAGCCGACTG |
| NPR3 | Forward (5’-3’) | CTCCCTGCAAATCATGTGGC |
| Reverse (5’-3’) | GGGTTCGCCTCTCAATGGTT |
| β-actin | Forward (5’-3’) | GTGGACATCCGCAAAGAC |
| Reverse (5’-3’) | AAAGGGTGTAACGCAACTA |
| U6 | Forward (5’-3’) | CTCGCTTTGGCAGCACA |
| Reverse (5’-3’) | AACGCTTCACGAATTTGCGT |