

Table S1. The sequences of siRNAs or shRNAs.

| Oligonucleotides | Sequences             |
|------------------|-----------------------|
| scrambled siRNA  | UUCUCCGAACGUGUCACGUTT |
| shIGF2BP2-1      | CAUGCCGCAUGAUUCUUGATT |
| shIGF2BP2-2      | GAACGAACUGCAGAACUUATT |
| shIGF2BP1-1      | CCGGGAGCAGACCAGGCAATT |
| shIGF2BP1-2      | UGAAUGGCCACCAGUUGGATT |
| shIGF2BP3-1      | CGGUGAAUGAACUUCAGAATT |
| shIGF2BP3-2      | GCAAAGGAUUCGGAAACTT   |
| shTM7SF2-1       | CUGUUUCUUCGACUUCAAAUA |
| shTM7SF2-2       | GCGAAUUCCCAGAAAAACACU |
| shMETTL16-1      | ATGGCTGGTATTTCTCGCAA  |
| shMETTL16-2      | GGAAGATTTTGGACTTTCT   |

Table S2. Primers used in the study.

| Primers                         | Sequences (5'-3')        |
|---------------------------------|--------------------------|
| METTL16 forward primer          | TGAGAGGTGGCTGTTGGTC      |
| METTL16 reverse primer          | AGTGAGCTAAGATCGCACCA     |
| TM7SF2 forward primer           | CCGCCATCCCAACTATCTT      |
| TM7SF2 reverse primer           | GGAGCCGCTTCAGTAGATGT     |
| IGF2BP1 forward primer          | TAGTACCAAGAGACCAGACCC    |
| IGF2BP1 reverse primer          | GATTTCTGCCCCGTTGTTGTC    |
| IGF2BP2 forward primer          | CTACGCCTTCGTGGACTACC     |
| IGF2BP2 reverse primer          | CATCCAACACCTCCCACTG      |
| IGF2BP3 forward primer          | TTGCAGGAATTGACGCTGTA     |
| IGF2BP3 reverse primer          | ACCCAAGGCGTTCAGATTTA     |
| PLA2G5 forward primer           | ACGGCTTCTACGGCTGTTAC     |
| PLA2G5 reverse primer           | ATGTTGCAGCCCTTCTCCTC     |
| PHOSPHO1 forward primer         | ATTCCTGGTCCTCCCAACT      |
| PHOSPHO1 reverse primer         | GCCATAGGTGGAGACCCTCT     |
| PLA2G4D forward primer          | ACCAGTCATCCTGTGTGGAA     |
| PLA2G4D reverse primer          | GGGCGATCTGACGTTTCTT      |
| SPTLC3 forward primer           | GCAGACCCTTTCAGGGATTC     |
| SPTLC3 reverse primer           | TACCCTCCTGCCTGGAAGTT     |
| ACADL forward primer            | CCCAGGATACCGCAGAACTA     |
| ACADL reverse primer            | TTGCACTGTCTGTAGGTGAGC    |
| PLPP2 forward primer            | TACATGATTGGGCGTCTGAG     |
| PLPP2 reverse primer            | CCCACTTCCAACAGAGTCGT     |
| OXCT2 forward primer            | GGGCAGAAATACGAGAAACG     |
| OXCT2 reverse primer            | GGATGCCTATGCCCAGATT      |
| HSD17B3 forward primer          | GAGATCGAGCGGACTACAGG     |
| HSD17B3 reverse primer          | AATGGCTTGGGAGAAGGTTT     |
| OLAH forward primer             | ACGAGGTCAGGAGATCGAGA     |
| OLAH reverse primer             | GGTTCAC TGCAAGCTCCAC     |
| TM7SF2 1-118bp forward primer   | GTCTGCGTTCCGTGTCCAGG     |
| TM7SF2 1-118bp reverse primer   | GCGCTCACAATAGTCAGTCAAGGA |
| TM7SF2 84-224bp forward primer  | CGGACAGTGTTTCCTTGACTGAC  |
| TM7SF2 84-224bp reverse primer  | GGCAGCAGCAGTAGCAGAG      |
| TM7SF2 204-387bp forward primer | GGCTCTGCTACTGCTGCTG      |
| TM7SF2 204-387bp reverse primer | CGCCGGCAGTAGGTAGAG       |
| TM7SF2 359-477bp forward primer | TGCAGGCGGCGCTCTACCTAC    |

|                                   |                         |
|-----------------------------------|-------------------------|
| TM7SF2 359-477bp reverse primer   | CAGGGCTGTCAGCACCAGG     |
| TM7SF2 442-582bp forward primer   | ATTAACGGCTTCCAGGCCCTG   |
| TM7SF2 442-582bp reverse primer   | GAGGCTGAAGATGAAAGCGGTG  |
| TM7SF2 553-696bp forward primer   | GCCACCCTCACCGCTTTCA     |
| TM7SF2 553-696bp reverse primer   | ACAGATACGAGGGTTGAGCTCT  |
| TM7SF2 665-815bp forward primer   | TTCTGGGACGAGAGCTCAAC    |
| TM7SF2 665-815bp reverse primer   | CACATGGCCAGTGAGGGACT    |
| TM7SF2 782-933bp forward primer   | CAGAGCTTCGAGGCAGTCC     |
| TM7SF2 782-933bp reverse primer   | GTCCCCAAACGCCAGCATGAA   |
| TM7SF2 902-1028bp forward primer  | ACGGGTTTGGCTTCATGCTG    |
| TM7SF2 902-1028bp reverse primer  | AGGCAGATGACAGAGGCCATG   |
| TM7SF2 1004-1145bp forward primer | TGCCCATGGCCTCTGTCATCT   |
| TM7SF2 1004-1145bp reverse primer | CCTGTGGCTGTAGAGATGGTC   |
| TM7SF2 1108-1272bp forward primer | AGAGTGGCTGGGCTTGAGAC    |
| TM7SF2 1108-1272bp reverse primer | GAGGTAGAAGTAGGGCAGCAGG  |
| TM7SF2 1245-1410bp forward primer | GTCACACCTGCTGCCCTACTT   |
| TM7SF2 1245-1410bp reverse primer | GGAGCCGCTTCAGTAGATGTAGG |
| TM7SF2 1382-1525bp forward primer | TCATGCCCTACATCTACTGAAGC |
| TM7SF2 1382-1525bp reverse primer | GTTGTTTCATCCTCAGGGCTGG  |
| TM7SF2 1436-1578bp forward primer | CACTCATCCACCAGCACACC    |
| TM7SF2 1436-1578bp reverse primer | CCTTGCTCTAAACCACCTCTTCT |
| TM7SF2 1464-1540bp forward primer | GGAGCCTCGACACACTTGG     |
| TM7SF2 1464-1540bp reverse primer | CACCTCTTCTCTGAGGTTGTTCA |
| $\beta$ -actin forward primer     | CATGTACGTTGCTATCCAGGC   |
| $\beta$ -actin reverse primer     | CTCCTTAATGTCACGCACGAT   |
| GAPDH forward primer              | GGAGCGAGATCCCTCCAAAAT   |
| GAPDH reverse primer              | GGCTGTTGTCATACTTCTCATGG |

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Table S3. METTL16 expression in clinical and pathological characteristics of colorectal cancer patients.

| Variable                  | Expression of METTL16 in colorectal cancer |                |                 | <i>P</i> value |
|---------------------------|--------------------------------------------|----------------|-----------------|----------------|
|                           | Low<br>(n=24)                              | High<br>(n=48) | Total<br>(n=72) |                |
| <b>Age</b>                |                                            |                |                 |                |
| ≤65                       | 16                                         | 13             | 29              | 0.01           |
| > 65                      | 8                                          | 35             | 43              |                |
| <b>Gender</b>             |                                            |                |                 |                |
| Female                    | 13                                         | 21             | 34              | 0.404          |
| Male                      | 11                                         | 27             | 38              |                |
| <b>Maximum tumor size</b> |                                            |                |                 |                |
| <4 cm                     | 16                                         | 15             | 31              | 0.004          |
| ≥4 cm                     | 8                                          | 33             | 41              |                |
| <b>T stage</b>            |                                            |                |                 |                |
| T1 and T2                 | 15                                         | 6              | 21              | < 0.001        |
| T3 and T4                 | 9                                          | 42             | 51              |                |
| <b>N stage</b>            |                                            |                |                 |                |
| N0                        | 16                                         | 11             | 27              | < 0.001        |
| N1 and N2                 | 8                                          | 37             | 45              |                |
| <b>Tumor stage</b>        |                                            |                |                 |                |
| I and II                  | 16                                         | 11             | 27              | < 0.001        |
| III and IV                | 8                                          | 37             | 45              |                |