

Supplementary Materials

Supplementary table 1: shRNA oligos

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| LIN28A | Forward Oligo | 5' CCGGGCATCTGTAAGTGGTTCAACGTTCAAGAGACG TTGAACCACTTACAGATGCTTTTTG 3' |
| | Reverse Oligo | 5' AATTCAAAAAGCATCTGTAAGTGGTTCAACGTCTCT TGAACGTTGAACCACTTACAGATGC 3' |
| LIN28B | Forward Oligo | 5' CCGGGGATTCATCTCCATGATAAGCTTCAAGAGAGC TTATCATGGAGATGAATCCTTTTTG 3' |
| | Reverse Oligo | 5' AATTCAAAAAGGATTCATCTCCATGATAAGCTCTCT TGAAGCTTATCATGGAGATGAATCC 3' |
| SC | Forward Oligo | 5' CCGGAGTTAAAGGTTCCGGCACGAATTCAAGAGATTC GTGCCGAACCTTTAACTCTTTTTG 3' |
| | Reverse Oligo | 5' AATTCAAAAAGAGTTAAAGGTTCCGGCACGAATCTC TTGAATTCGTGCCGAACCTTTAACT 3' |

Supplementary table 2: Primers for LIN28A and LIN28B Expression

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| LIN28A Expression | Forward Oligo | 5' GCTAGCCAGACTACCATGGGCTCTGTG 3' |
| | Reverse Oligo | 5' ATTTAAATACCCACTGTGGCTTCAATTC 3' |
| LIN28B Expression | Forward Oligo | 5' GCTAGCGCCGGAAAGAATTAGTTTCGC 3' |
| | Reverse Oligo | 5' ATTTAAATACATAACACATGACACCCT 3' |

Supplementary table 3: Realtime RTPCR Primers

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| LIN28A | Forward Oligo | 5' GACAGGTGCTACAACCTGTGGAG 3' |
| | Reverse Oligo | 5' ATGGCAGAGCTATGGATCTCTT 3' |
| LIN28B | Forward Oligo | 5' GCCTTGAATCAATACGGGTAAC 3' |
| | Reverse Oligo | 5' CTTCTTTGGCTGAGGAGGTAGA 3' |
| IGF2BP1 (IMP1) | Forward Oligo | 5' GCAACCTGAAGAAGGTGGAG 3' |
| | Reverse Oligo | 5' GCAGCCACGTCATTCTCATA 3' |
| IGF2BP2 (IMP2) | Forward Oligo | 5' TCCCGGGTAGACATCCATAG 3' |
| | Reverse Oligo | 5' GTGGGCCAAGATCTTCAGAG 3' |

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| IGF2BP3 (IMP3) | Forward Oligo | 5' | TGCCGCTGAGAAGTCAATTA | 3' |
| | Reverse Oligo | 5' | TCCGTCCTTCCTTACCAATG | 3' |
| HMGA1 | Forward Oligo | 5' | AAGGGGAGCAAAAACAAGG | 3' |
| | Reverse Oligo | 5' | CCTCCTCTTCCTCCTTCTCC | 3' |
| ARID3B | Forward Oligo | 5' | AAGGTGATGGAGTCCCAGTG | 3' |
| | Reverse Oligo | 5' | CCTCTTCTGACAGCCTGGAC | 3' |
| c-MYC | Forward Oligo | 5' | CTTCTCCCCCTCCTCTGACT | 3' |
| | Reverse Oligo | 5' | GCCTCTTTCCACAGAGACAA | 3' |
| S15 | Forward Oligo | 5' | ATCATTCTGCCCCGAGATGGTG | 3' |
| | Reverse Oligo | 5' | TGCTTGACGGGCTTGTAGGTG | 3' |

Table 4: Antibodies

| Protein | Vendor | Catalog # | Host Species | Dilution used | Band size |
|------------------------|---------------|------------------|---------------------|----------------------|------------------|
| LIN28A | Abcam | ab63740 | Rabbit | 1:1000 | 30 kDa |
| LIN28B | Bethyl Labs | A303-588A | Rabbit | 1:2000 | 35 kDa |
| IGF2BP1 | Abcam | ab82968 | Rabbit | 1:500 | 63 kDa |
| IGF2BP2 | Abcam | ab124930 | Rabbit | 1:3000 | 60-66 kDa |
| IGF2BP3 | Abcam | ab225697 | Rabbit | 1:3000 | 64 kDa |
| c-MYC | Abcam | ab32 | Mouse | 1:1000 | 45 kDa |
| HMGA1 | Abcam | ab226850 | Rabbit | 1:1000 | 17 kDa |
| ARID3B | Bethyl Labs | A302-565A | Rabbit | 1:4000 | 70 kDa |
| GAPDH | Abcam | ab9485 | Rabbit | 1:3000 | 37 kDa |
| β -actin | SCBT | sc-47778 | Mouse | 1:2000 | 45 kDa |
| α -tubulin | Abcam | ab4074 | Rabbit | 1:3000 | 50 kDa |
| Goat anti-rabbit (HRP) | Abcam | ab97051 | Goat | 1:3000 | Secondary (HRP) |
| Goat anti-mouse (HRP) | Abcam | ab97023 | Goat | 1:3000 | Secondary (HRP) |