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| **Table S1. The antibodies, primers ,oligonucleotides and shRNAs used in this study are shown.** |
| **Antibodies** |
| Rabbit Polyclonal anti-ESCO2 | Biorbyt | Cat# orb183433 |
| Rabbit Polyclonal anti- hnRNP A1 | Proteintech | Cat# 11176-1-AP |
| Rabbit Polyclonal anti-Flag | abcam | Cat# ab1162 |
| Rabbit Polyclonal anti-HA | abcam | Cat# ab9110 |
| Rabbit Polyclonal Acetylated-Lysine | Cell Signaling Technology | Cat# 9441  |
| Rabbit Polyclonal anti-PKM1 | Proteintech | Cat# 15821-1-AP |
| Rabbit Polyclonal anti-PKM2 | Proteintech | Cat#15822-1-AP |
| Mouse monoclonal anti-β-actin | Santa Cruz | Cat# sc-8432 |
| Rabbit Polyclonal anti-GAPDH | Proteintech | Cat# 10494-1-AP |
| **Primers name** |  |  |
| ESCO2(Q-PCR) | Forward | TCATCATCGACGCTGGTCA |
| Reverse | AAAACTCTGCTACTACACGTT |
| GAPDH(Q-PCR) | Forward | CCTCTGACTTCAACAGCGACACC |
| Reverse | ACCACCCTGTTGCTGTAGCCAA |
| PKM(RT-PCR) | Forward | CTGAAGGCAGTGATGTGGCC |
| Reverse | ACCCGGAGGTCCACGTCCTC |
| ESCO2-Flag | Forward | ATGGCAGCTCTTACTCCAAGGA |
| Reverse | TTACTTGTCATCGTCGTCCTTGTAGTCACTATTAAAATTATATACGAGGAAATTAGG |
| hnRNP A1-HA | Forward | AGATACGTTCGTCAGCTTGCTCCT |
| Reverse | TTAAGCGTAATCTGGAACATCGTATGGGTATGTAACCTGTAGCT |
| hnRNPA1-K277R-HA | Forward | acccatgaagggaggaaattttGGAGGCAGAAGCTCTGGCC |
| Reverse | ttcctcccttcatgggtccaaaATTTGAAGACTGATTGTTGTAATTCCC |
| hnRNPA1-K277Q-HA | Forward | ccatgcagggaggaaattttGGAGGCAGAAGCTCTGGCC |
| Reverse | atttcctccctgcatgggtccaaaATTTGAAGACTGATTGTTGTAATTCCC |
| **Oligonucleotides** |
| Control shRNA  | sense: 5‘-CCGGGCAGCTTTTTTG-3‘ |
| ESCO2 shRNA#1 | sense:5‘-CCGGGCACCTTACTTGTTCTGAGATCTCGAGATCTCAGAACAAGTAAGGTGCTTTTTTG-3‘ |
| ESCO2 shRNA#2 | sense:5‘-CCGGGCAAGTCTTGTGGTATGATATCTCGAGATATCATACCACAAGACTTGCTTTTTTG-3‘ |
| siNC: | sense: 5‘-GCACAAGCUGGAGUACAACUACATT-3‘ |
| sihnRNP A1 | sense: 5‘- GUGUAGUUGAACUGAUAGUTT -3‘,  |
| EI9(50-68) | Biotin-AGGUAGGGCCCUAAGGGCA |
| EI9(50-68, G3C) | Biotin-AGGUACGGCCCUAAGGGCA |