## Table S2. The sequences of primer, sgRNA and siRNA used in this study

| Primer Name                        | Sequence                                    |
|------------------------------------|---------------------------------------------|
| **CRISPR/Cas9 sgRNAs**             |                                             |
| Human EIF4A1 KO gRNA1               | AGGCCGTCATCGAGGTGAGAC                      |
| Human EIF4A1 KO gRNA2               | GCCATTTGCTCTGGATCTGT                      |
| Human EIF4A1 dnmt3a gRNA1          | ATCCCAATGGTGCTGCTGCGGCC               |
| Human EIF4A1 dnmt3a gRNA2          | GCACTCCGCCCTAGGTTCTTA                   |
| Human EIF4A1 dnmt3a gRNA3          | TCGCACGCGCTTACCTAGC             |
| Human EIF4A1 dnmt3a siRNA-2-SEQ-F  | GGGTTTTTAGTTAATGAAGGTTG            |
| Human EIF4A1 dnmt3a siRNA-2-SEQ-R  | TGGGAAAGAAAGGTGGAGG             |
| **RT-PCR primers**                 |                                             |
| Human BRD2-F                        | AGTCTGTCCACCCCTCTCTAC                   |
| Human BRD2-R                        | ATTCCCTCTTCTTCTGGGCG                   |
| Human BRD3-F                        | TGTTGGGCCGGAAATG                      |
| Human BRD3-R                        | CCGGCAGCTACCTACTTT                     |
| Human BRD4-F                        | ATGGGTACAGCAAAGGTGGTGT                 |
| Human BRD4-R                        | ACATTCTTACCAGGCACTCA                  |
| Human CCND1-F                       | GTAGCAGCGACAGCAGCAG                    |
| Human CCND1-R                       | GGCTCTTCTTGGGCGC                      |
| Human HIF1A-F                       | CCTCTGGACCTGGCTTTCCTTT                |
| Human HIF1A-R                       | GTCGCCGCTGTCTTCTCAC                   |
| Human MYC-F                         | TTACAACACCCGAAGCAGA                    |
| Human MYC-R                         | TGCAAGGAGAGCCCTTTCAGAG                 |
| Human PPP1R2-F                      | CGGTAGCCGCTTTCCCGAGG                  |
| Human PPP1R2-R                      | GTCGCCGAAGAGGAGGGTCC                  |
| Human TRIP12-F                      | GTCCCTTCAAGAGAGGTGGTC                 |
| Human TRIP12-R                      | CCATTCACTAGGTTAGGCCCCCA               |
| Human TSC22D4-F                     | CCTCTTCTCCCTACCCAG                    |
| Human TSC22D4-R                     | CAGGCCACCCTGGGACCAAG                  |
| Human ZER1-F                        | GGCTCTGGCAATGATCTCTGT                |
| Human ZER1-R                        | GCTGTCAACAAACCACCGCTG                |
| **siRNA sequences**                |                                             |
| Human EIF4A1 siRNA-1-SEQ1           | GCAACAAUGAAGACCUGUAUCUGA              |
| Human EIF4A1 siRNA-1-SEQ2           | UCAGAUACCAAGUGUCAUGUUGUCUC           |
| Human EIF4A1 siRNA-2-SEQ1           | CAACAUAGAUGACCUGUAUCUGAG            |
| Human EIF4A1 siRNA-2-SEQ2           | UCAGAUACCAAGUGUCAUGUUGUCU          |