

**Table S1.** Primers and oligonucleotides sequences used in this study

Name	Sequence 5'-3'
MYLK-AS1-forward	GAATCCAGTGTCTCGTCCGTGA
MYLK-AS1-reverse	AGGCAGATACCTGGCTTCCA
MYLK-AS1-shRNA-1-forward	CCGGAGAATCCAGTGTCTCGTCCGTGCTCGAGCAC GGACGACACTGGATTCTTTTTTG
MYLK-AS1-shRNA-1-reverse	AATTCAAAAAAGAATCCAGTGTCTCGTCCGTGCTC GAGCACGGACGACACTGGATTCTCCGG
MYLK-AS1-shRNA-2-forward	CCGGGAGAGTGAGGTGCGGGATTGCTCGAGCA ATCCCGCACCTCACTCTCTTTTTG
MYLK-AS1-shRNA-2-reverse	AATTCAAAAAGAGAGTGAGGTGCGGGATTGCT CGAGCAATCCCGCACCTCACTCTCCCGG
MYLK-AS1-FISH probe	CAGTGAGATTGGAAGCCAGGT
E2F7-forward	CTGCTGCGCTAGACTTGGATA
E2F7-reverse	AACCCTGGTCAGTGTAGGGC
miR-424-5p-forward	CGAGGGGATACAGCAGCAAT
miR-424-5p -reverse	TTCCCCACGAGGGGGTATAG
U6 snRNA-forward	AAAGCAAATCATCGGACGACC
U6 snRNA-reverse	GTACAACACATTGTTTCCTCGGA
GAPDH-forward	GAAAGCCTGCCGGTGACTAA
GAPDH-reverse	TTCCCGTTCTCAGCCTTGAC