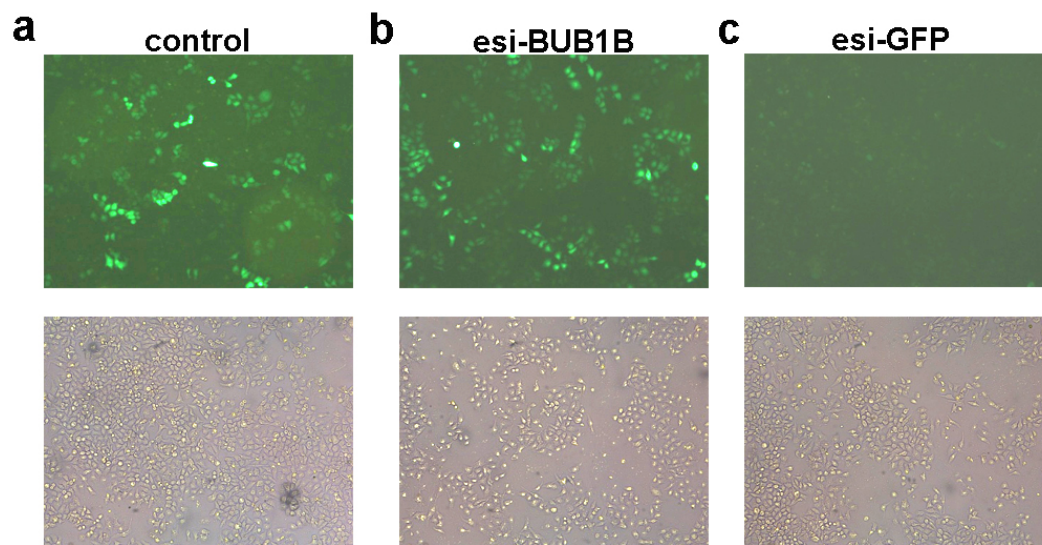


Supplementary Data



Supplementary figure 1. Microscopic images showed the silencing specificity and efficiency of gel-esiRNA. EsiRNAs targeting eGFP decreased the green fluorescence intensity in cells, whereas esiRNA targeting BUB1B did not (top). The bottom images are the corresponding contrast-phase microscopic images.

Supplementary table1. Primer sequences of DNA fragments

DNA Fragment	Upper primer	Lower primer
SKP2	5'-CAITTCAGCCCTTTTCGTGT-3'	5'-GACAAGATTGGGGCACTTC-3'
SUMO1	5'-TCAAAGACAGGGTGTCCAA-3'	5'-GCCTGAAAATGCAATGTCCT-3'
UBE1	5'-GGGCAGCTCTTCTGTGACTT-3'	5'-GTCAGGTTCTGCCAGTGAGG-3'
CDK4	5'-GGCCCTCAAGAGTGTGAGAG-3'	5'-CTGGTCGGCTTCAGAGTTTC-3'
CDK1	5'-CAGGATGTGCTTATGCAGGA-3'	5'-AGTGCCCAAAGCTCTGAAAA-3'
RGS2	5'-TTGGGTAGTGAATCAGGAAGC-3'	5'-AACAGTACTGATGATCTGTGGTCA-3'
VIM	5'-CCTTGAACGCAAAGTGGAAAT-3'	5'-GCTTCAACGGCAAAGTTCTC-3'
CDH1	5'-CAGCACGTACACAGCCCTAA-3'	5'-AGGCTGTGCCTTCCTACAGA-3'
EZH2	5'-TCATGCAACACCCAACACTT-3'	5'-CACAACCGGTGTTTCCTCTT-3'
TP53	5'-TTTGGGTCTTTGAACCCTTG-3'	5'-TCACAATGCACTCTGTGAGG-3'
ANAPC4	5'-GAGTCACAGGGATTGCTGGT-3'	5'-TCCATGAAGCCATTCTTTTC-3'
CCNB2	5'-ACTGCTCTGCTCTTGGCTTC-3'	5'-TGTGCTGCATGACTTCCAAT-3'
BUB1B	5'-CAGACCAATGCCTAAGTTGGA-3'	5'-GGGATCGTGGATTCTGTTTC-3'
GFP	5'-ATGGTGAGCAAGGGCGAGGAGG-3'	5'-GGGGTAGCGGCTGAAGCACTGG-3'

Supplementary table 2. Sequences of qRT-PCR primers

Gene	Upper primer	Lower primer
SKP2	5'-TGGTATCGCCTAGCGTCTGA-3'	5'-GCCAATGGTTGGTCCATAAA-3'
SUMO1	5'-TGTCAAAGACAGGGTGTCCAA-3'	5'-TTCCTCTTCTTTGGTCCAGAC-3'
UBE1	5'-ACACGGAGCGCATCTATGAT-3'	5'-GTGCCCAAGTGTGCCTGACT-3'
CDK4	5'-CGGTGCCTATGGGACAGTGTA-3'	5'-CTCCATTGGGGACTCTCACAC-3'
CDK1	5'-CTGGGGTCAGCTCGTTACTCA-3'	5'-CTTCATTATTGGGAGTGCCCA-3'
RGS2	5'-GGAAGACCCGTTTGGAGTACT-3'	5'-TATTTGCTGGCTAGCAGCTCG-3'
VIM	5'-GGCTCAGATTCAGGAACAGC-3'	5'-AGCCTCAGAGAGGTGAGCAA-3'
CDH1	5'-CGACCCAACCAAGAATCTA-3'	5'-AGGCTGTGCCTTCCTACAGA-3'
EZH2	5'-CCAGCGTGGACTTAAGAAGC-3'	5'-CCTTCCGAGTAGCATCCAC-3'
TP53	5'-GCACTGGTGTGTTTGTGTTG-3'	5'-AGTGGGCCCCCTACCTACCTA-3'
ANAPC4	5'-TGCAGGAAAAGAACAACCAC-3'	5'-CCGAGCCACTCTGTAAATGACTTA-3'
CCNB2	5'-GAAAGCTCAGAACACCAAAGTTC-3'	5'-CAGAGATTCTCTCCTTCATGGA-3'
GAPDH	5'-ACCACAGTCCATGCCATCAC-3'	5'-TCCACCACCCTGTTGCTGTA-3'