

FIG. 1

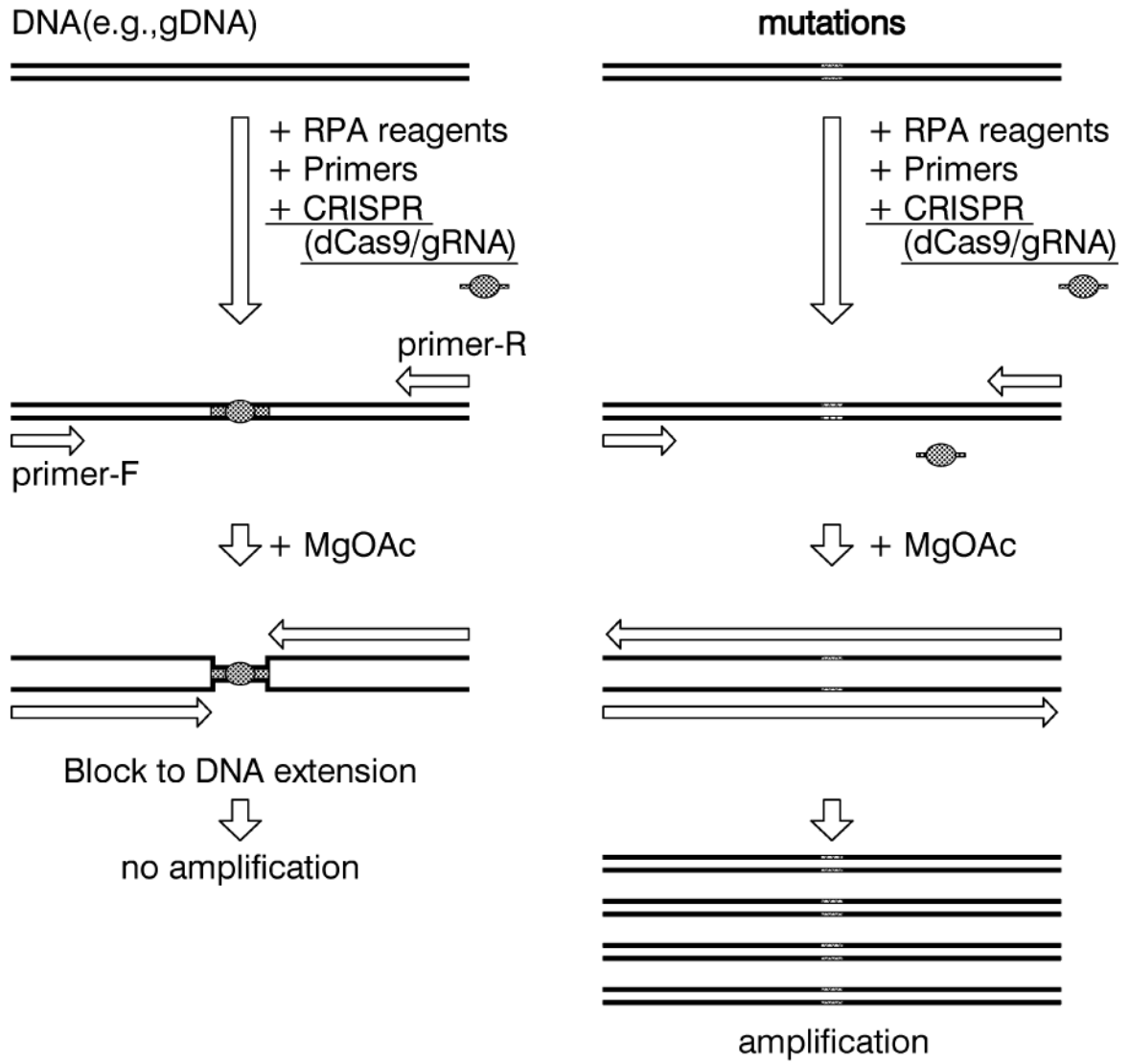


FIG. 2

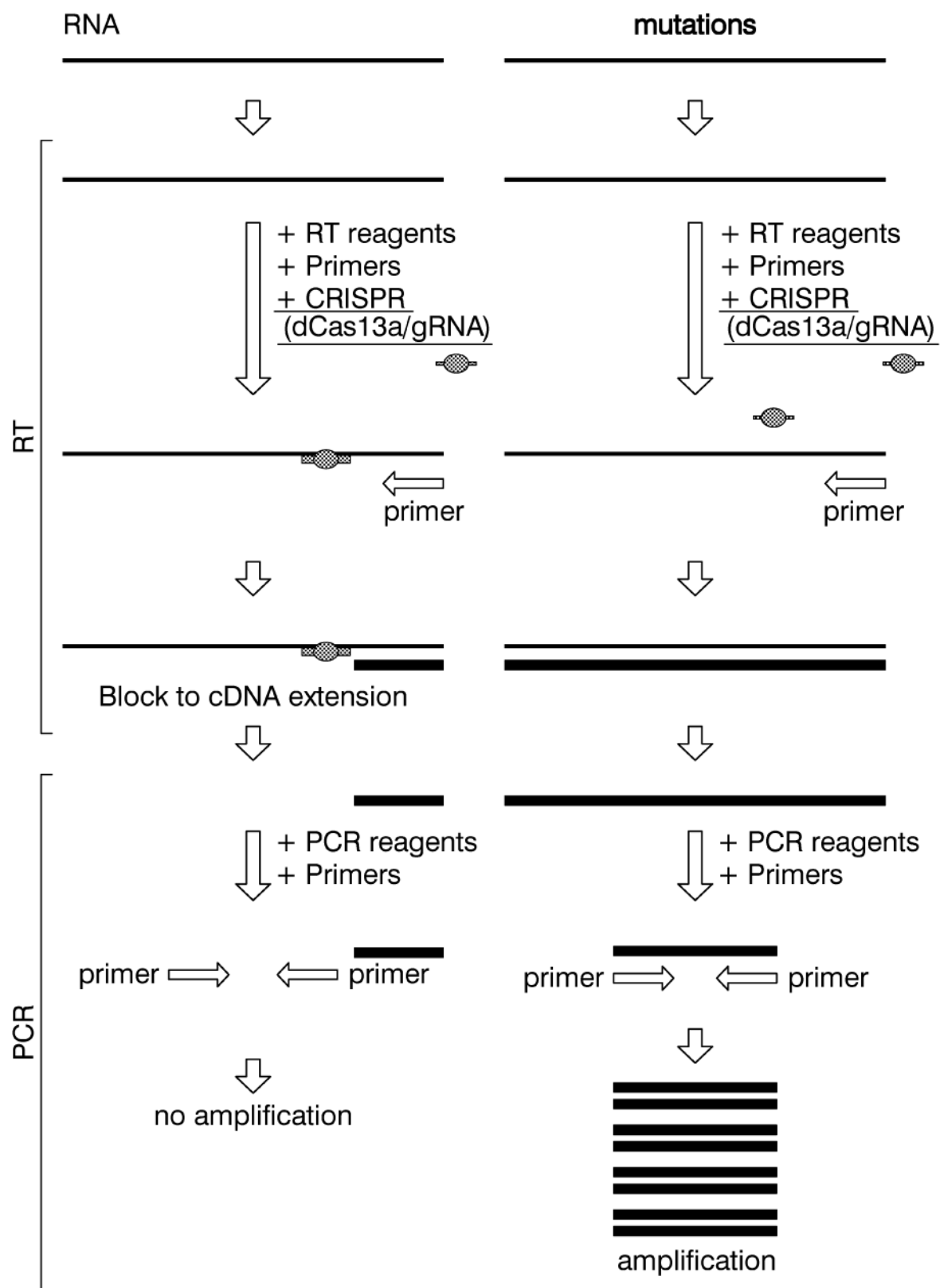


FIG. 3

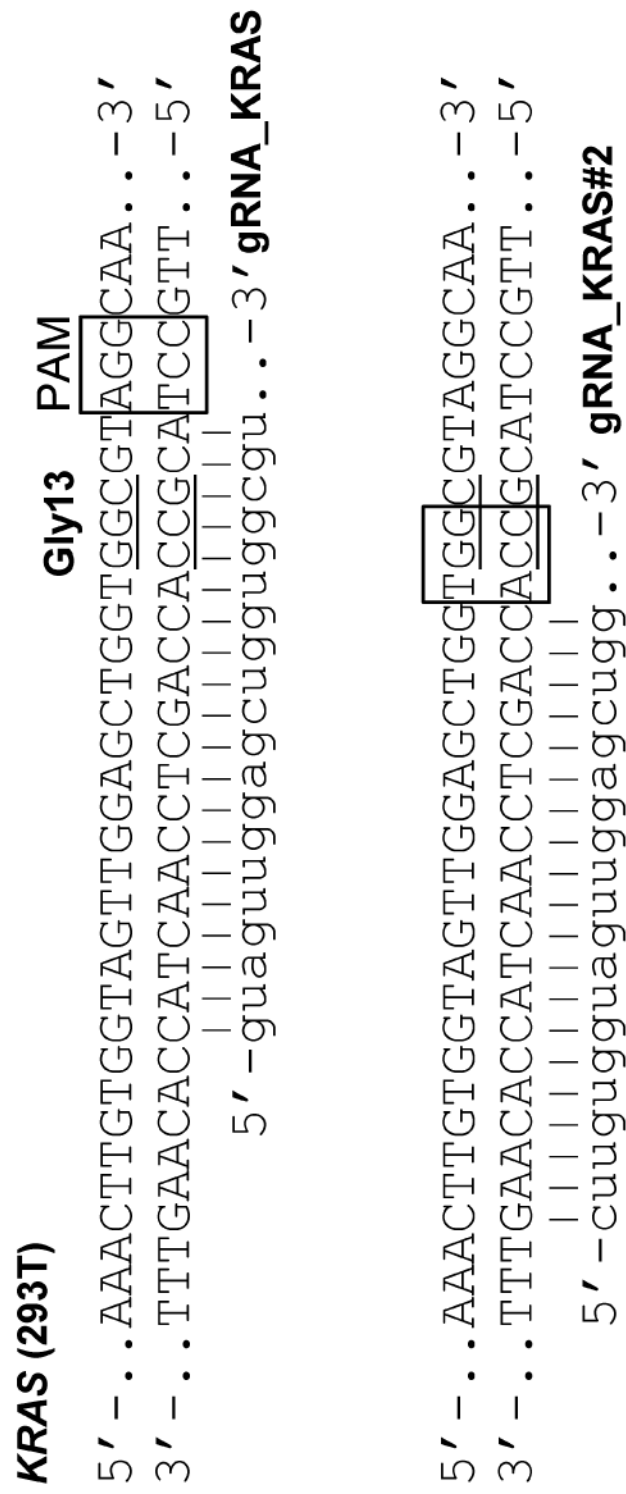


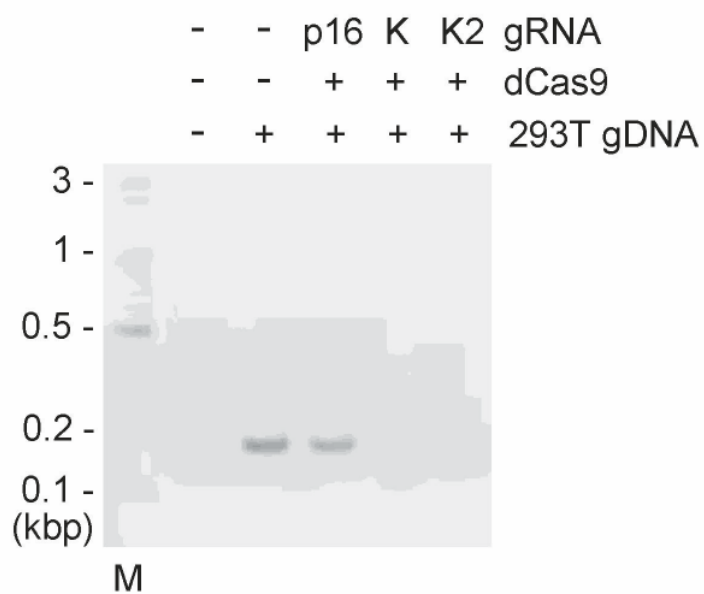
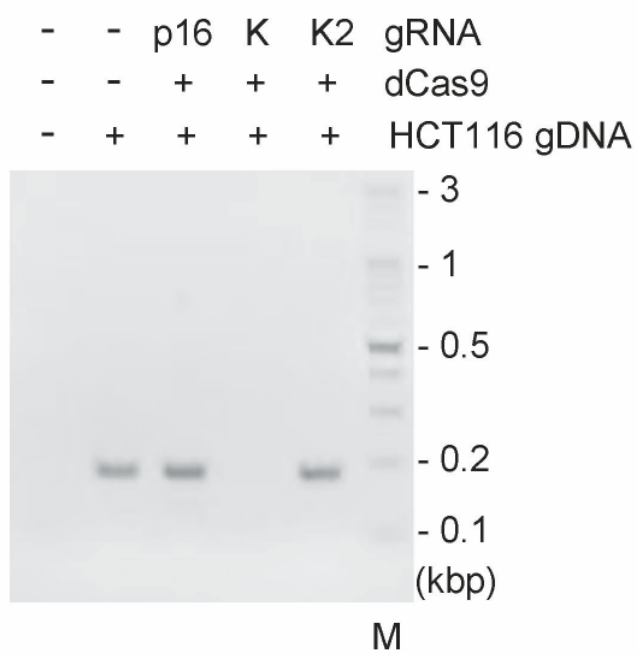
FIG. 4*FIG. 5*

FIG. 6

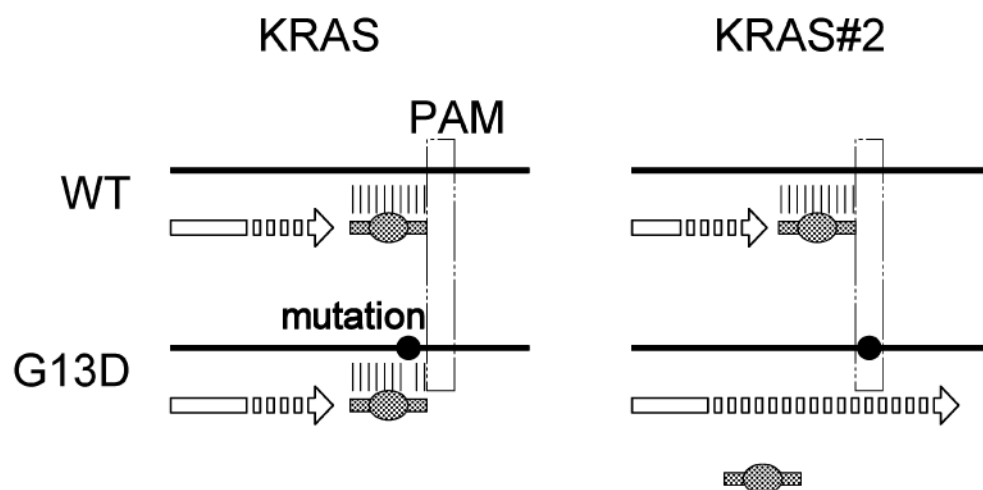


FIG. 7

WT KRAS

5' - ..AAACTTGTGTAAGTTGGAGCTGGTGGCGTAGGCAA..-3'
3' - ..TTTGAACACCAATCAACCTCGACCAACCGCATCCGTT..-5'

5'-gaaagaggagcuggaaggcgu...-3'gRNA_KRAS_mut

Mutated *KRAS*

Gly13Asp

5' - .. A A A C T T G T G T A G T T G G A G C T G G T G **A** C G T A G G C A A . . - 3'

3' - .. T T T G A A C A C C C A T C A A C C T C G A C C A C T T G C A T C C G T T . . - 5'

5'-gaagaggagcucggaagcgu.-3' gRNA_KRAS_mut

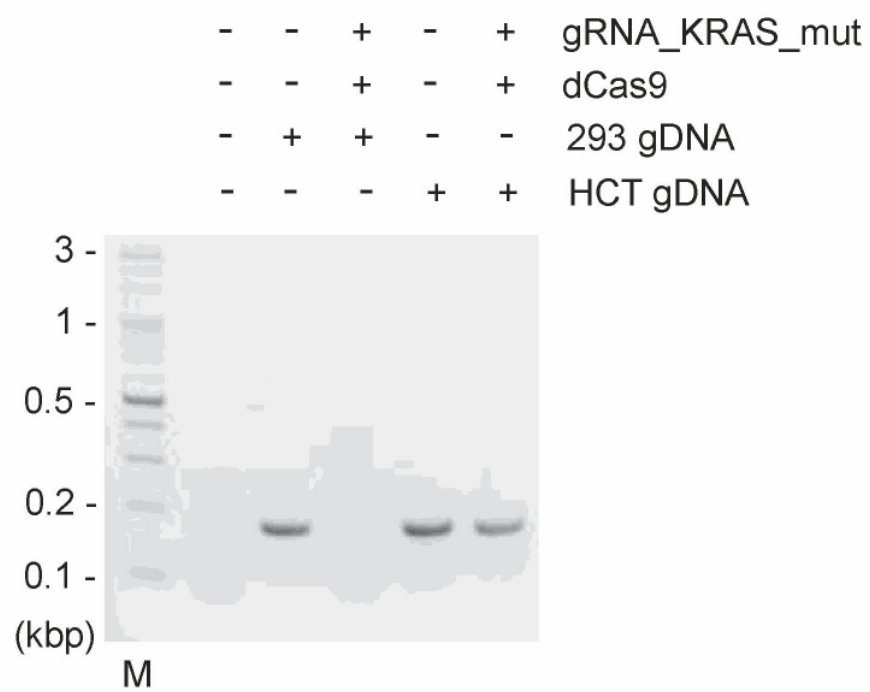
FIG. 8

FIG. 9

CDKN2A(p16) (HCT116)

PAM

Gx5
5' - .. GCCACGGCCGGGCC**G**GGGGTGGGTAG.. -3'
3' - .. CGGTGCCGGCGCCGGG**C**CCCCAGCCCATC.. -5'

5' - acggccgcggcccgggguc. : -3' gRNA_p16_Gx5#2

Gx4
5' - .. GCCACGGCCGGGCCGGGGTCCGGGTAG.. -3'
3' - .. CGGTGCCGGCCGGGCCCGCCATC.. -5'

5' -acggccgcggcccgggguc. -3' gRNA_p16_Gx5#2

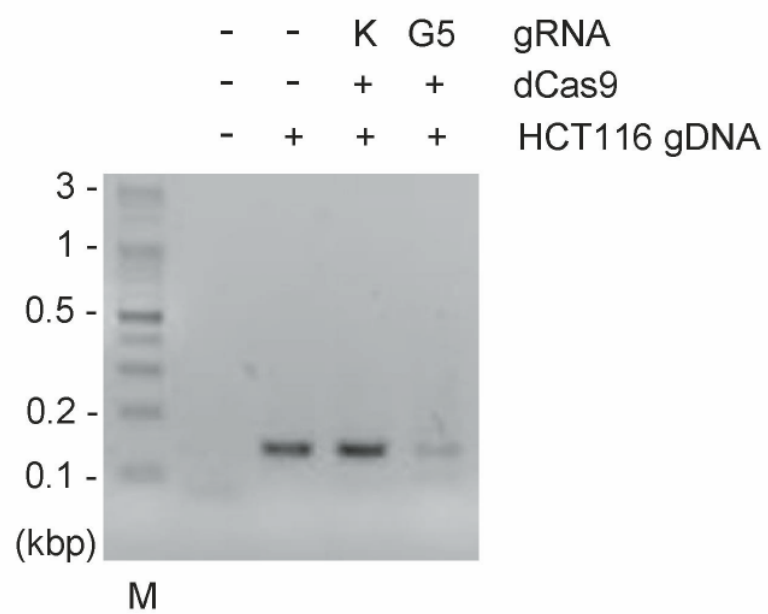
FIG. 10

FIG. 11

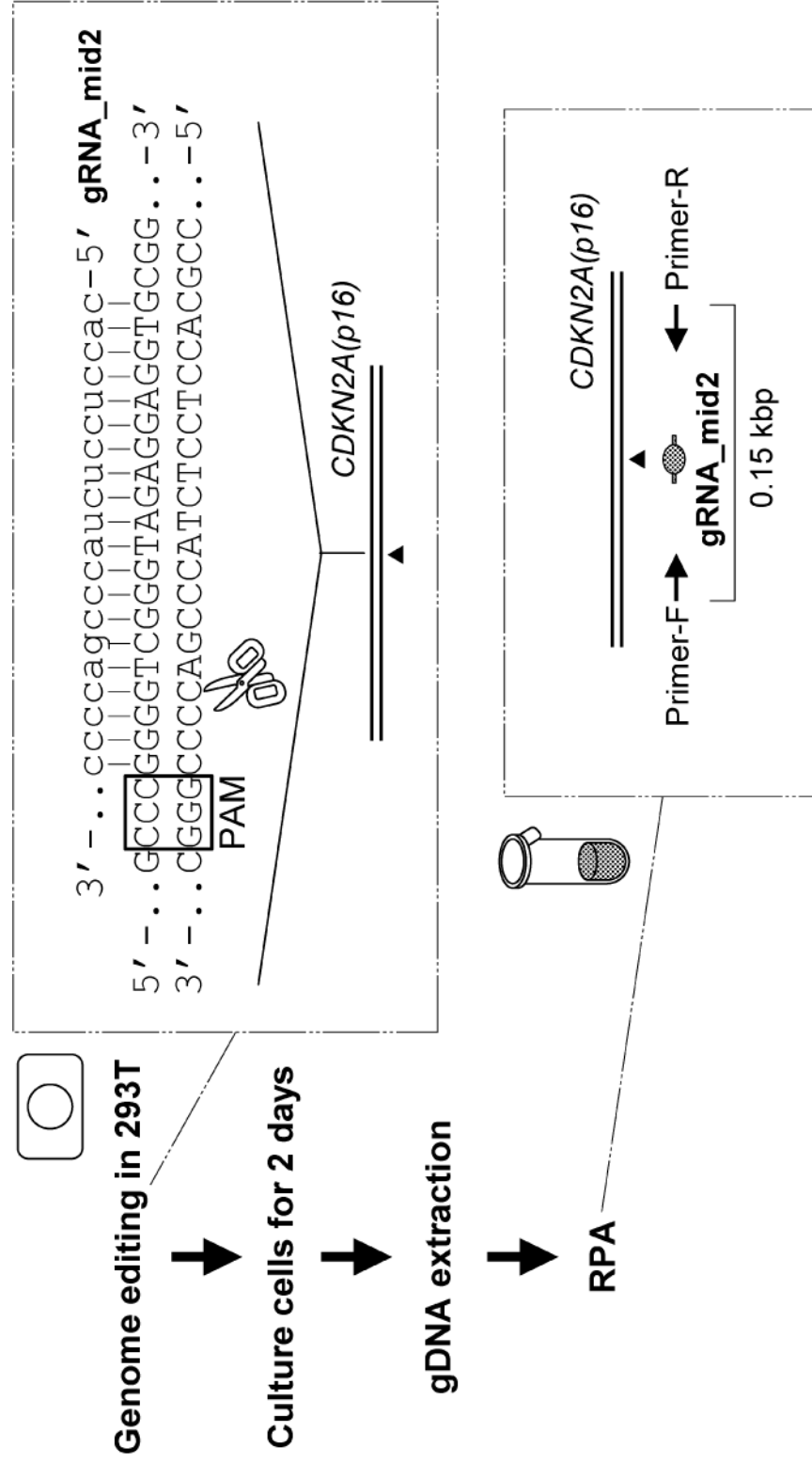


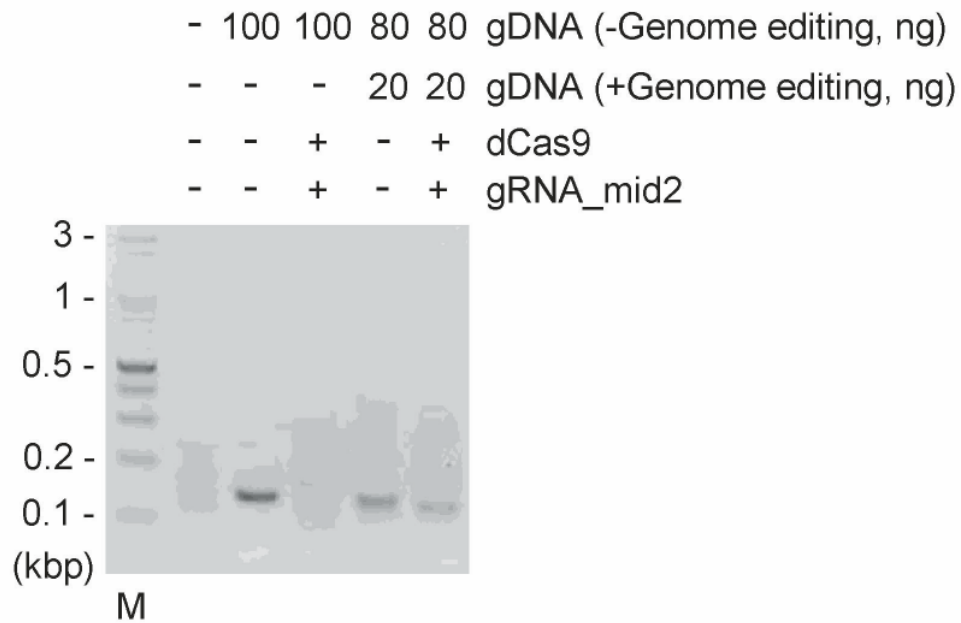
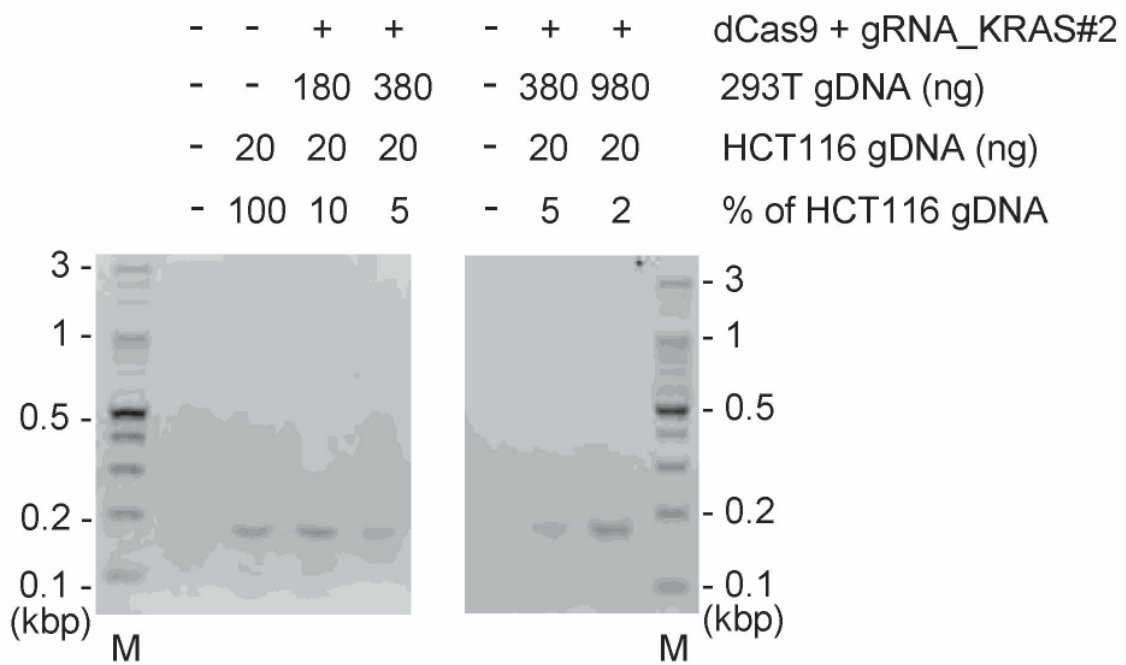
FIG. 12*FIG. 13*

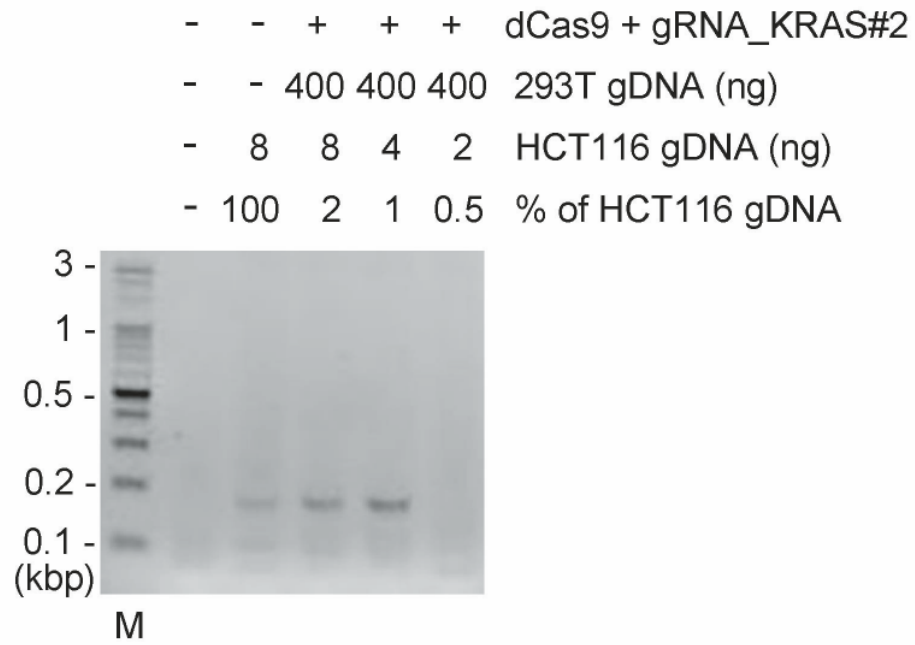
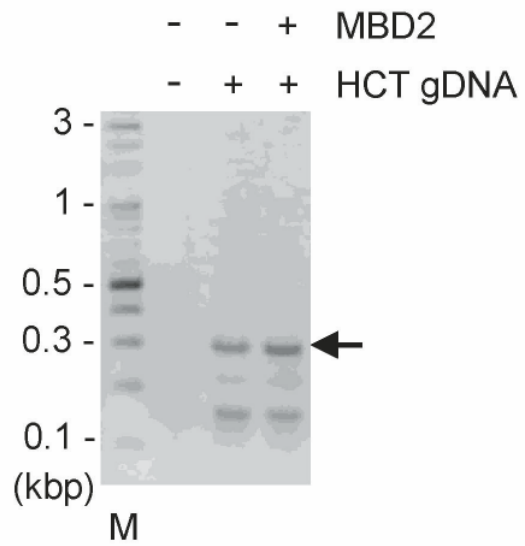
FIG. 14*FIG. 15*

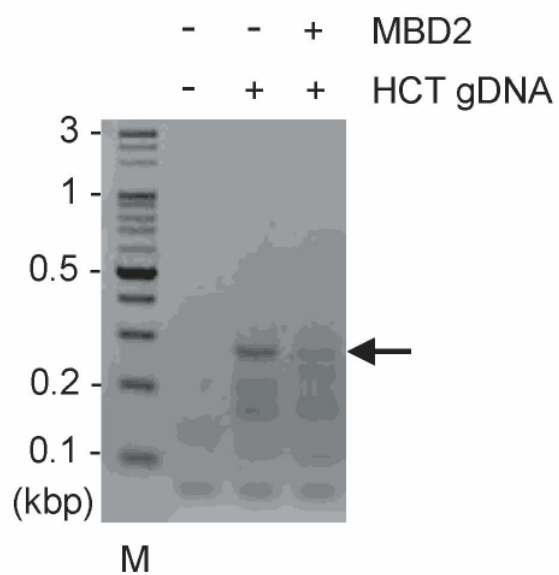
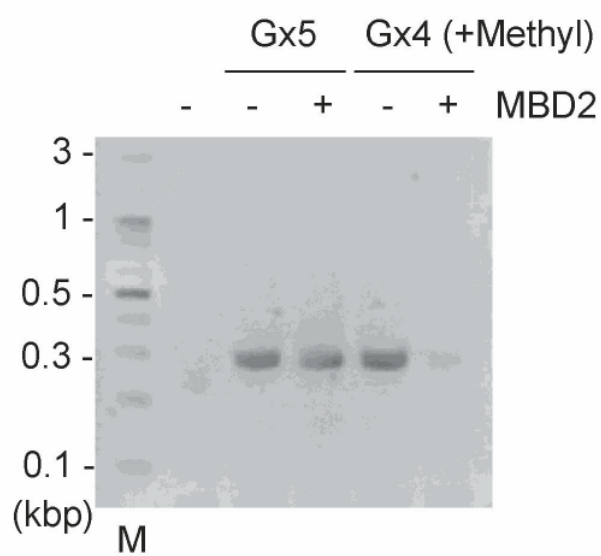
FIG. 16*FIG. 17*

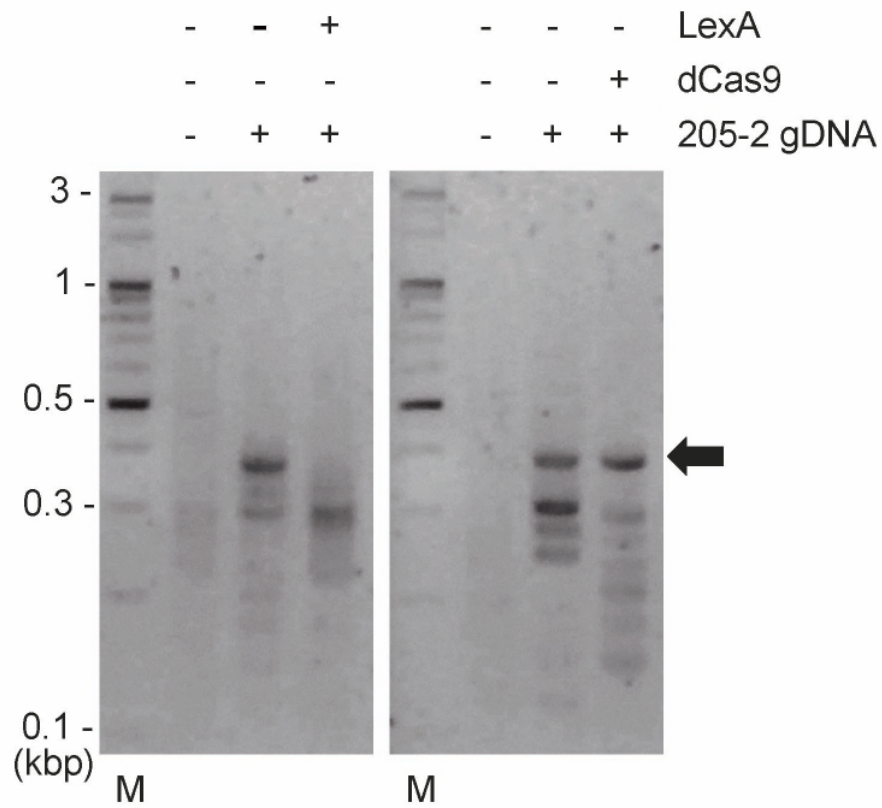
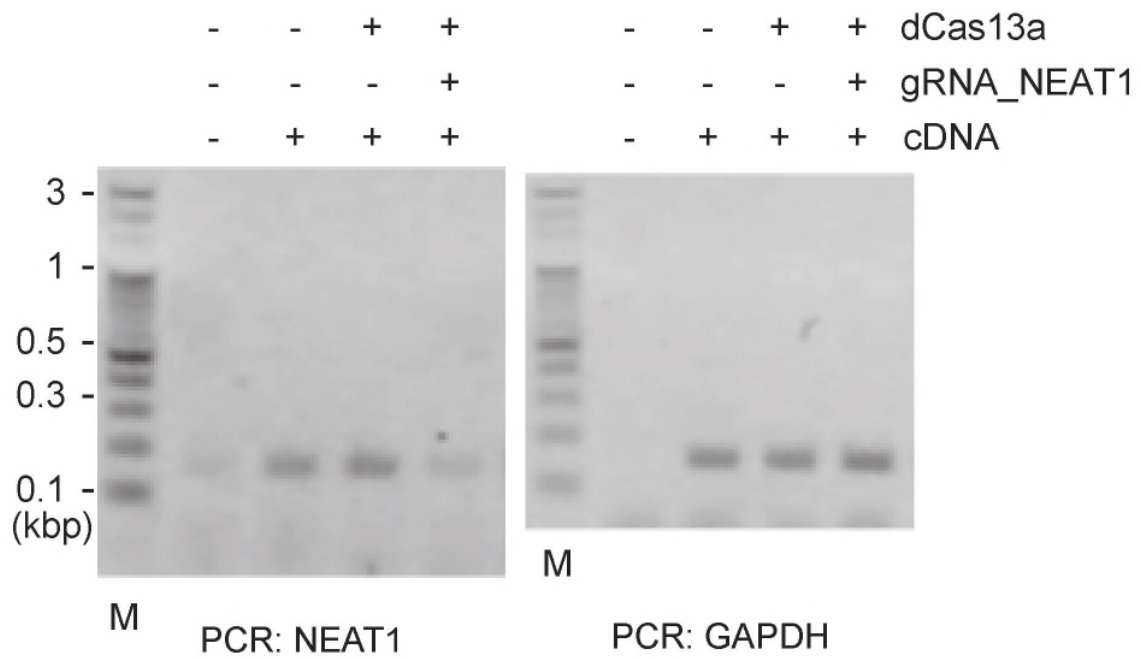
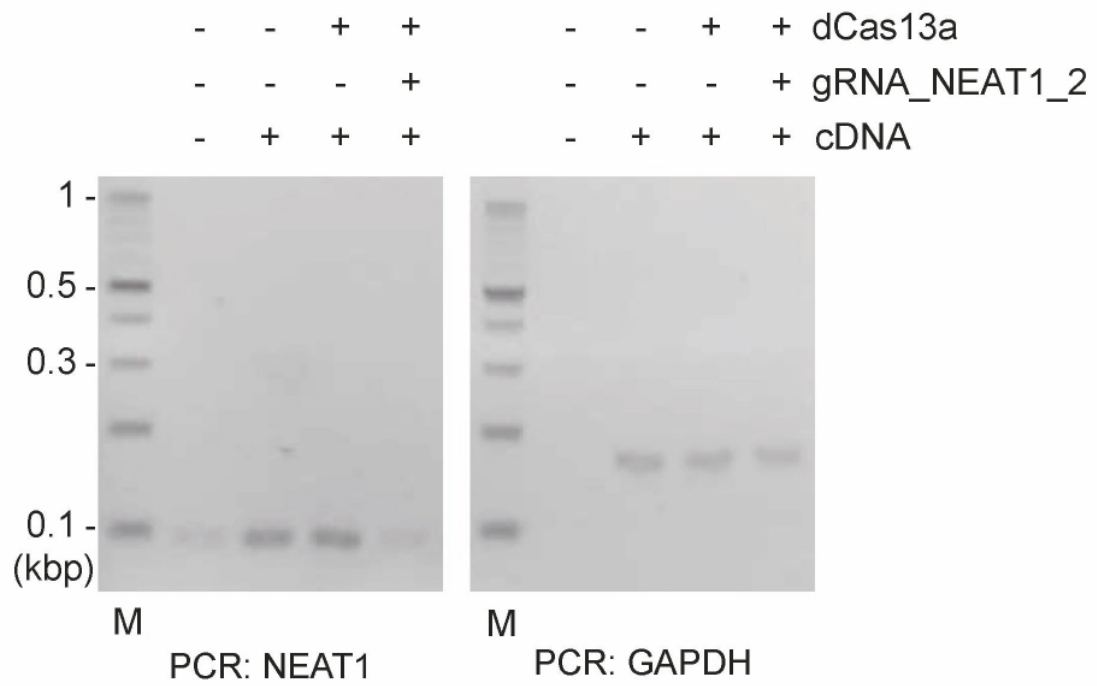
FIG. 18*FIG. 19*

FIG. 20*FIG. 21*