

C1-5'-UTR^{*}

AGATCTAGATCTccccttctccccggcggttagtgctgagagtgcgagtggtgtgctccgggctcggaacacacattattatta
aaaaatccaaaaaaaaatctaaaaatccttgaaaaacccaaaaaaatttcaaaaaaatccgctctccccgcccggagact
ttttttttctctctttataaaaaaacccggtgaagcagccgagaccgaccgcccggcccggccccgagctccaagcaggaa
cccagagaccgaggccttctgcccggaccagcaccgcccagcctcgctccccggttccacggccgttgagtacgctcgat
tccggtgaattttgcccctgctgctgccccgctccccccccggctccgctccccggccccgactcgtctcctctcacgg
gaaaggtcgcggcctgcccggcccgaggccgtgcccagGCTAGCGCTAGC

Mut 1

AGATCTAGATCTccccttctccccggcggttagtgctgagagtgcgagtggtgtgctccgggctcggaagccggagactttat
ttttttctcctctttataaaaaataaccggtgaagcagccgagaccgaccgcccggcccggccccgagctccaagcaggaacc
cagagaccgaggccttctgcccggaccagcaccgcccagcctcgctccccggttccacggccgttgagtacgctcgattc
cgggtgaattttgcccctgctgctgccccgctccccccccggctccgctccccggccccgactcgtctcctctcacggga
aaggtcgcggcctgcccggcccgaggccgtgcccagGCTAGCGCTAGC

Mut 2

AGATCTAGATCTccccttctccccggcggttagtgctgagagtgcgagtggtgtgctccgggctcggaacacacattattatta
aaaaatccaaaaaaaaatctaaaaatccttgaaaaacccaaaaaaatttcaaaaaaatccgctctccccgcccggagacc
ccggtgaagcagccgagaccgaccgcccggcccggccccgagctccaagcaggaaccagagaccgaggccttctgccc
gccccgaccagcaccgcccagcctcgctccccggttccacggccgttgagtacgctcgattccggtgaattttgcccctgctgctg
gccccgctccccccccggctccgctccccggccccgactcgtctcctctcacgggaaaggtcgcggcctgcccggccccg
ccggcagccgtgcccagGCTAGCGCTAGC

Mut 3

AGATCTAGATCTccccttctccccggcggttagtgctgagagtgcgagtggtgtgctccgggctcggaaccggtgaagca
gccgagaccgaccgcccggcccggccccgagctccaagcaggaaccagagaccgaggccttctgcccggccgaccga
gcaccgcccagcctcgctccccggttccacggccgttgagtacgctcgattccggtgaattttgcccctgctgctgccccgctccc
ctcccccggtccgctccccggccccgactcgtctcctctcacgggaaaggtcgcggcctgcccggccccgaggccgt
gccgagGCTAGCGCTAGC

* Yellow and Green highlight denote 5' and 3' cluster respectively. One or both these clusters are deleted in Mut 1, Mut 2 and Mut 3.

AGATCTAGATCT: BglIII restriction site used to clone 5 UTR and mutants into firefly luciferase vector.

GCTAGCGCTAGC: NheI restriction site used to clone 5 UTRs and mutants into firefly luciferase vector.

Ccnd2 5'-UTR^{**}

AGATCTAGATCTtgctgagcgcgagagaggagagcgcgagctgaggagagccgggcagttcggaggggaaggaccggtgcg
agtcaggcggcccttgaggctccgctcgccaccttccactcttctctctctccctctctctttgccatttcttctctcccaatctcc
cattcagccaaaggaaggaggttaaggaagcactccccgaccccccgacc**tccaaaaaataataataaaaaaaaaattta**
cagtcgggaccgagtgggtggccggtggctGCTAGCGCTAGC

CCND2-Mut

AGATCTAGATCTtgctgagcgcgagagaggagagcgcgagctgaggagagccgggcagttcggaggggaaggaccggtgcg
agtcaggcggcccttgaggctccgctcgccaccttccactcttctctctctccctctctctttgccatttcttctctcccaatctcc
cattcagccaaaggaaggaggttaaggaagcactccccgaccccccgaccagtggtggccggtggctGCTAGCGCTA
GC

** Yellow highlight denote identifies region of PABPC1cluster within the 5' UTR of Ccnd2 mRNA. This region is deleted in Ccnd2-Mut.

Safb 5'-UTR^{***}

AGATCTAGATCTagtgtcgaggtgctgcctccggggaggctgaagcggttccctctcaggcggcgccattttgtgtaagagg
gccgag**attcaaaaaataataataacaatacaaaaaaaa**acacactcacgcaaaccactgacccggttctgtgtgaag
tggcgacggaaccaggggtccctggaGCTAGCGCTAGC

Safb-Mut

AGATCTAGATCTagtgtcgaggtgctgcctccggggaggctgaagcggttccctctcaggcggcgccattttgtgtaagagg
gccgagcccactgacccggttctgtgtgaagtggcgacggaaccaggggtccctggaGCTAGCGCTAGC

*** Yellow highlight denote identifies region of PABPC1cluster within the 5' UTR of Safb mRNA. This region is deleted in Safb-Mut.

Amd1 5'-UTR

AGATCTAGATCTtcgcttacacagtatggccggcgacattagctagcgctcgctcaactctcctaacgggaaagcagcggac
tacaagagactgaactgtatctgcctctattccaacagactcacgttcaacttcgctcacgaaaatagccggg~~aaaatttattagtc
cttttttaaaaaaaaaagttaatataaaaattatagcaaaaaaaaaaaaaaaaa~~ggaacctgaacttagtaacacagctggaacaatc
cgcagcggcggcaggagcggcgggagaagagatttaatttagttgattttctgtggtggtggtgctagctcacgggtgGCTAG
CGCTAGC

Amd1-Mut

AGATCTAGATCTtcgcttacacagtatggccggcgacattagctagcgctcgctcaactctcctaacgggaaagcagcggac
tacaagagactgaactgtatctgcctctattccaacagactcacgttcaacttcgctcacgaaaatagccgggggaacctgaacttta
gtaacacagctggaacaatccgcagcggcggcaggagcggcgggagaagagatttaatttagttgattttctgtggtggtggtgctg
ctagctcacgggtgGCTAGCGCTAGC

**** Yellow highlight denote identifies region of PABPC1cluster within the 5' UTR of Amd1 mRNA. This region is deleted in Amd1-Mut.
