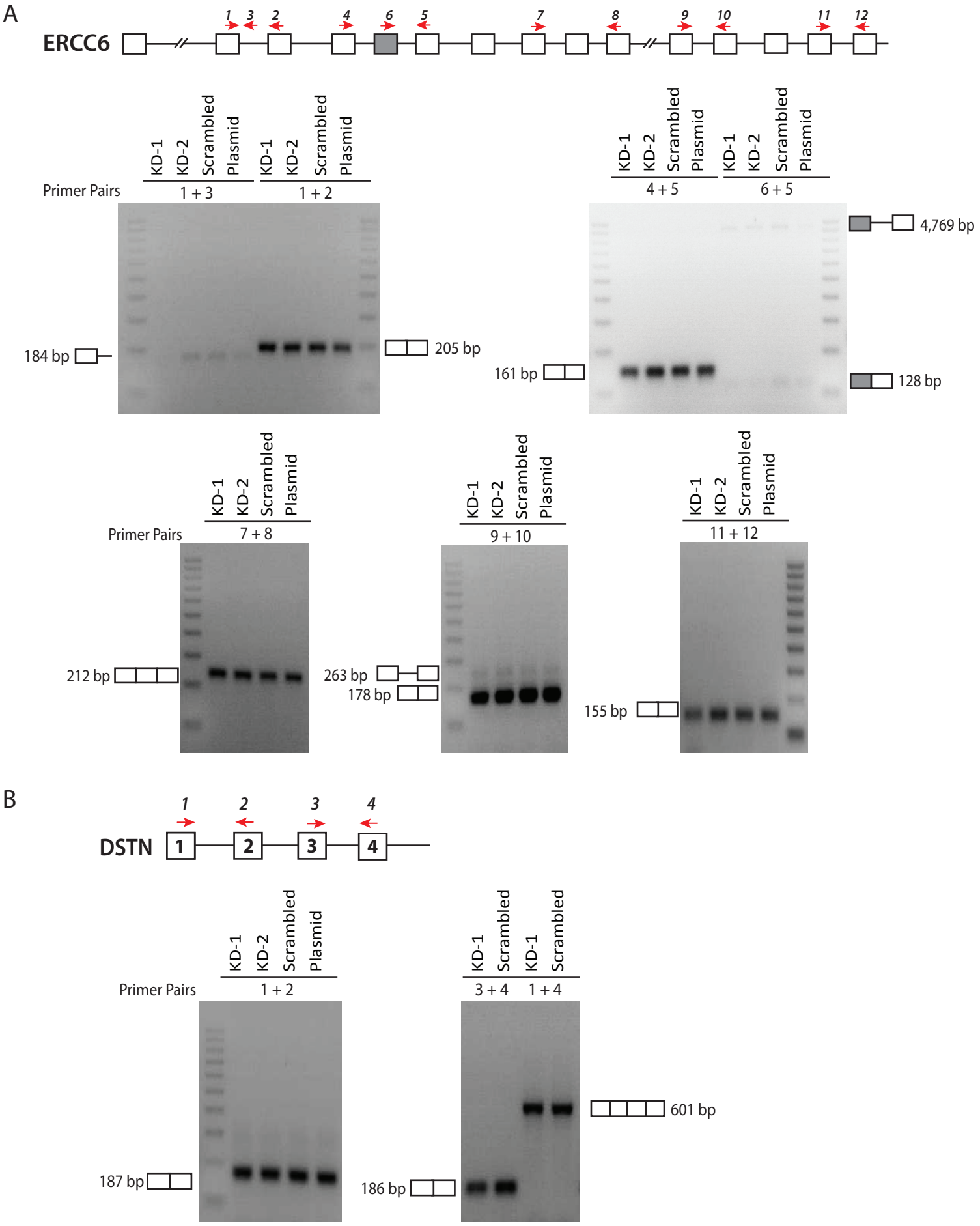
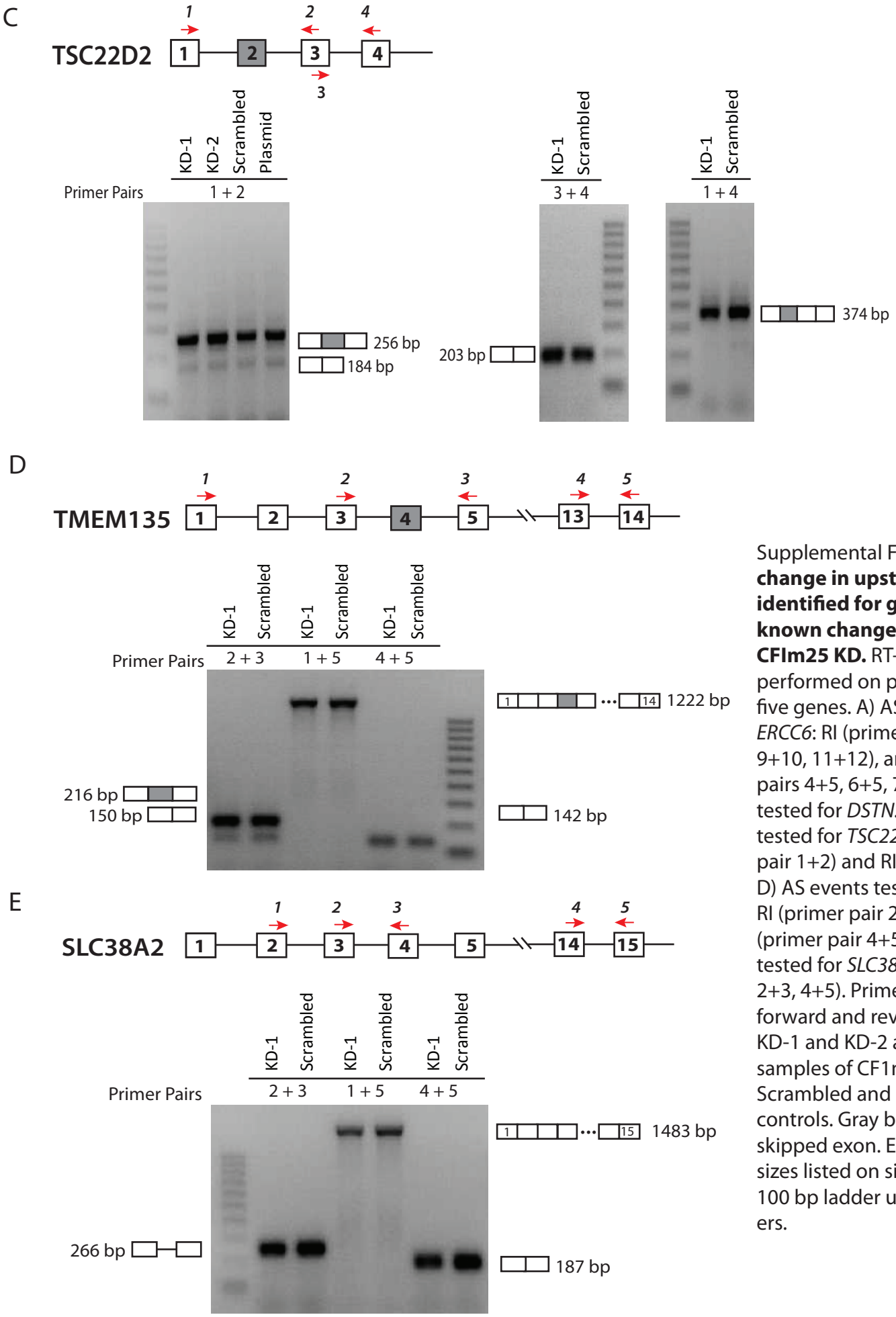
Supplemental Figure S1



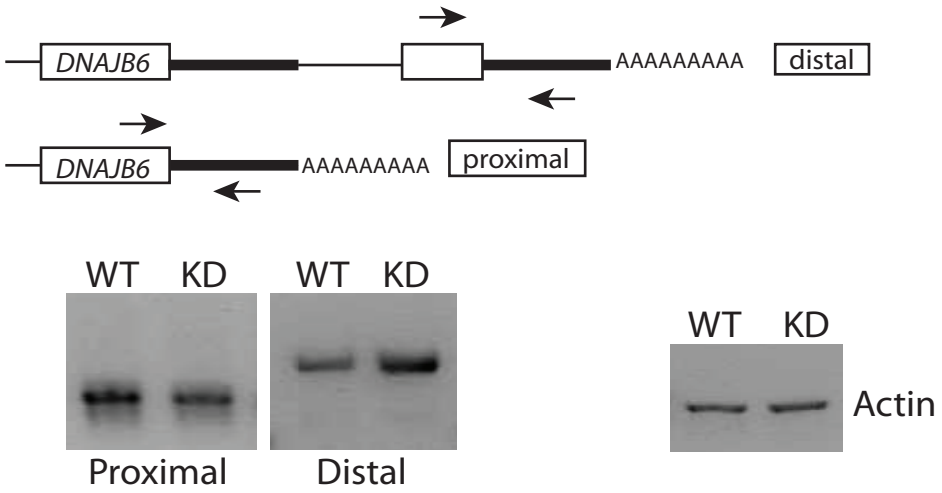
Supplemental Figure S1



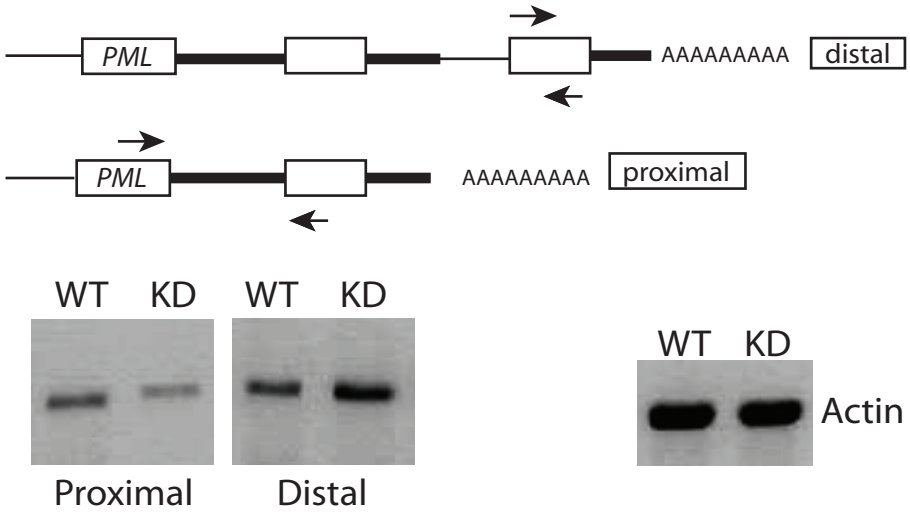
Supplemental Figure S1. **No change in upstream AS events identified for genes with known changes in APA due to CFIm25 KD.** RT-PCR analysis performed on primer pairs for five genes. A) AS events tested for *ERCC6*: RI (primer pairs 1+3, 1+2, 9+10, 11+12), and SE (primer pairs 4+5, 6+5, 7+8). B) RI events tested for *DSTN*. C) AS events tested for *TSC22D2:* SE (primer pair 1+2) and RI (primer pair 3+4). D) AS events tested for *TMEM135*: RI (primer pair 2+3) and SE (primer pair 4+5). E) AS events tested for *SLC38A2*: RI (primer pair 2+3, 4+5). Primers depicted as forward and reverse red arrows. KD-1 and KD-2 are replicate samples of CF1m25 KD. Scrambled and plasmid run as controls. Gray boxes depict a skipped exon. Expected product sizes listed on side of gel images. 100 bp ladder used as size markers.

Supplemental Figure S2

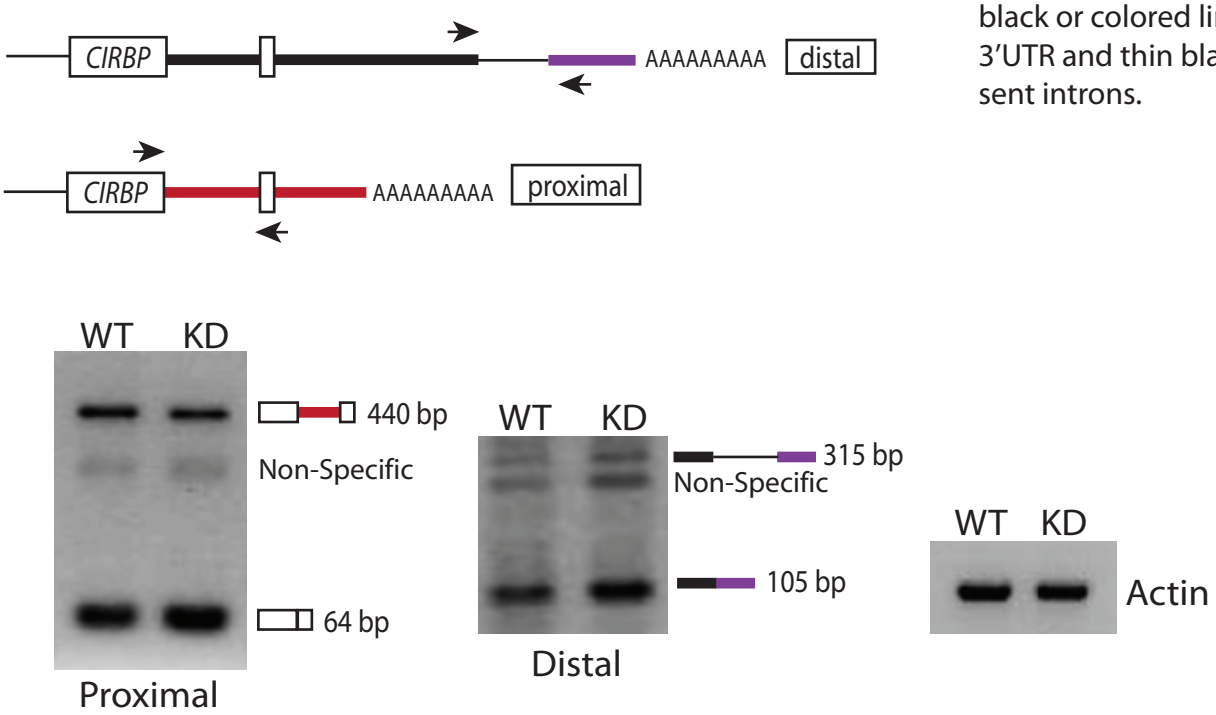
A



B

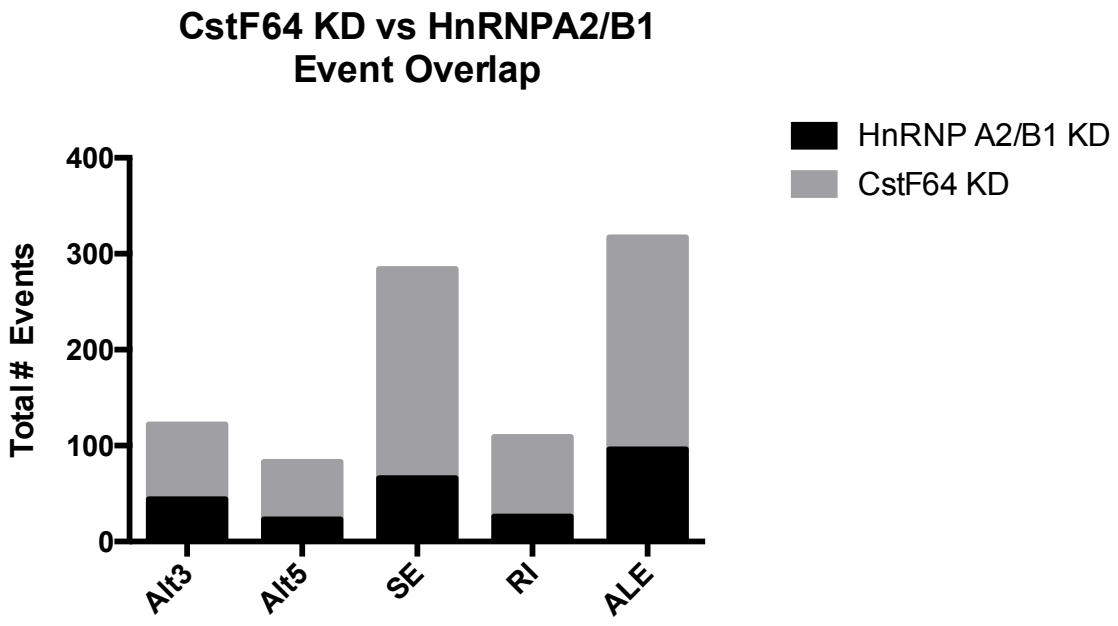


C



Supplemental Figure S2. **CstF64 KD leads to changes in APA as identified by PAS-Seq and RNA-Seq (MISO).**
RT-PCR analysis is depicted for three of the genes identified by MISO to contain APA events: *DNAJB6* (A), *PML* (B), *CIRBP* (C) for wild-type (WT) and CstF64 KD (KD). Forward and reverse arrows depict primer location and direction, white boxes represent exons, thick black or colored lines represent the 3'UTR and thin black lines represent introns.

Supplemental Figure S3



Supplemental Figure S3. **Overlap in MISO derived AS events identified between CstF64 KD and hnRNP A2/B1 KD.**
One third of genes listed as having an AS event in CstF64 KD are contained in the list of genes affected by hnRNP A2/B1 KD.

Supplemental Table S2

Gene Name	AS Event
C2orf42	A5
C15orf27	SE
C6orf48	SE
CORIN	SE
EXD3	SE
FHAD1	SE
MBD1	SE
MTHFD2L	SE
RECK	SE
SUV420H1	SE
TPGS2	A3
ZNF226	SE
ZNF493	A3

Supplemental Table S2. **13 genes contain an APA event (from PAS-Seq and RNA-Seq) and upstream AS event.**