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TGGATTTCGCGCCAGCATATCCAAATATCTAAATGAATACAATCGCTCCGTTAGAGTGCCT exon3
W I R A S I S K Y L N E Y N R S V R V P
GCCAAGGTTCTTGCTCTTTTCAATCAGTCGAAAAAAGTCGCAGTCGAACTGGAAAGTAAG exon3
A K V L A L F N Q S K K V A V E L E S K
AAGAAAGTACCAAGTGAGAGTGAAGTCTGCTCGTTACTTGGTGTCTCAAGTTCCCGTCTT exon3
K K V P S E S E V C S L L G V S S S R L
CGCTTTTGTATAGAGgtatttccgtattctttttcatattgtgcacctccttatgtctaa intron3
R F C I E V F P Y S F S Y C A P P Y V *
tttgtagGCTGTTACTAACCAACCTGTTTCATTGGAAAGGTTAGGAGAGTTGTTAGAAGA exon4
F V G C Y * P T C F I G K V R R V V R R
TAGTGGACGTCTGGGTAAGGGGGCTGTGTATTGTGT... exon4
* W T S G * G G C V L C

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Figure S8. Intron retention in a *Galdieria sulphuraria* gene. The retention of the 3rd intron leads to introduction of stop codon and truncation of exon 4-encoded peptide in a *G. sulphuraria* gene encoding RNA polymerase primary sigma factor. The exons 3 and 4 encode a part of the Sigma70-r3 domain (pfam04539). Intronic sequence is shown in grey color. Stop codons are denoted by the asterisks highlighted in green color.