

A

IFN-ε 5'UTR →

AAGGAAAGCA UACAAUGAAU AAGUUAUUUU GGUACUCCU CAAAAUAGCC AACACAAUAG
 AACUUAUA CCUACUCCU CAAAAUAGC

loop 1 mutant

loop 2

GGAAAUGGAG AAAAUGUACU CUGAACACCA UGAAAAGGGA ACCUGAAAAU CUAAUGUGUA
 ACCUGAAAAU CAUAUCUGUA

loop 2 mutant

AACUUGGAGA AAUGACAUUA GAAAACGAAA GCAACAAAAG AGAACACUCU CCAAAAUAAU
 CUGAGAUGCA UGAAAGGCAA ACAUUCACUA GAGCUGGAU UUCCCUAAGU CUAUGCAGGG
 AUAAGUAGCA UAUUUGACCU UCACCAUG-3'

START

B

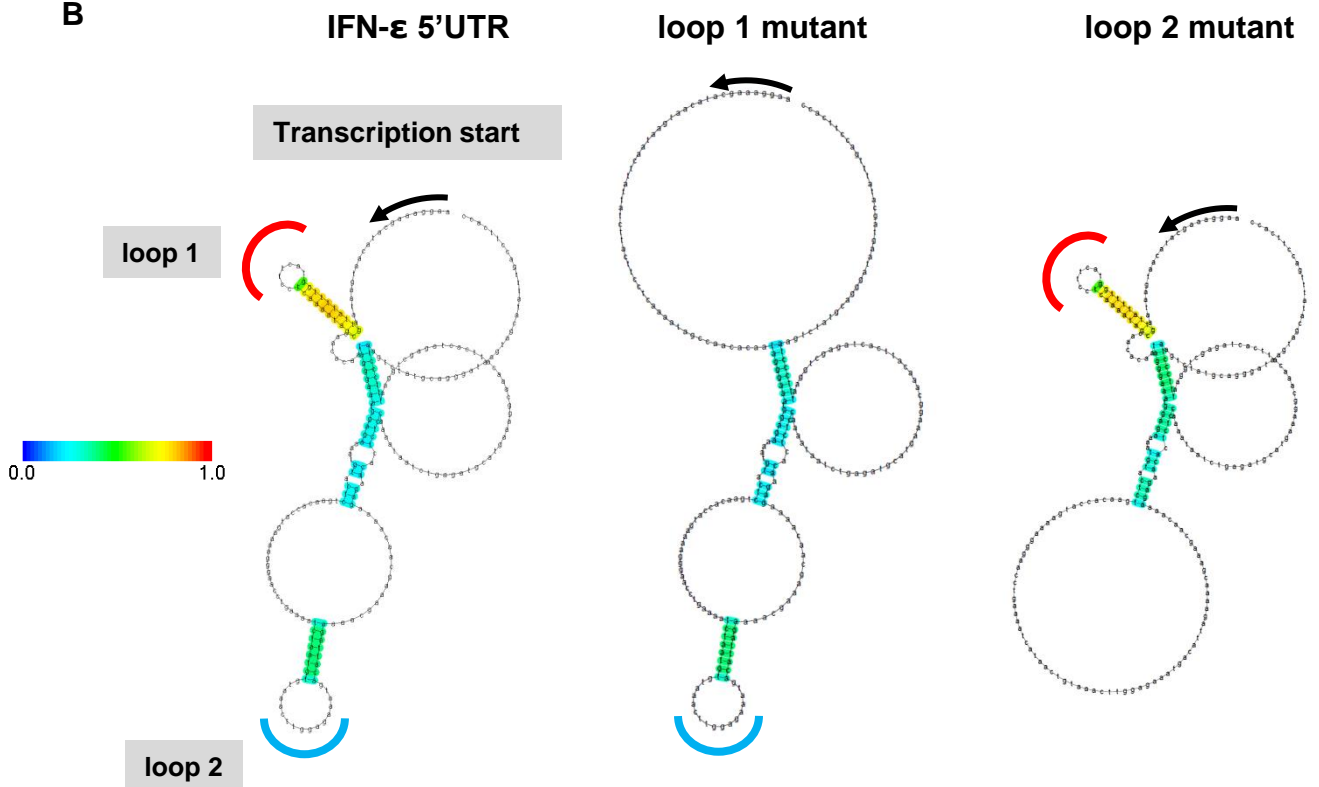


Figure S2. Disruption of loop structures IFN-ε 5'UTR mRNA using site-directed mutagenesis
 A. Sequence of wild-type IFN-e 5'UTR and mutations introduced to disrupt the secondary structure of loops 1 and 2. Mutated nucleotides are shown in red.
 B. Secondary structure of wild-type and mutant IFN-e 5'UTR, as predicted by CentroidFold.