a. HIV-1 DNA

NF-kB Sp-1 TATA TAR sense INR +1

+1 SENSE TRANSCRIPTION

5' ACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCT 3'

3' TGACCCAGAGAGACCAATCTGGTCTAGACTCGGA 5'

ANTI SENSE TRANSCRIPTION +1

b. RNA DUPLEX

+1 SENSE

+25 HIV mRNA

ANTISENSE

DNA

RNA POLYMERASE II PAUSING

c. RNA DUPLEX

+1 ALTERATION OF HIV-1 TAR HAIRPIN

IN mRNA

mRNA STABILITY, PROCESSING, TRANSPORT

d. 40S Initiation complex

(CAP) HIV-1 mRNA

RNA DUPLEX INHIBITS TRANSLATION INITIATION

e. RNA DUPLEX

+1 SENSE

+25 HIV mRNA

siRNA gene silencing

ANTISENSE