

SUPPLEMENTARY SEQUENCES FILE.

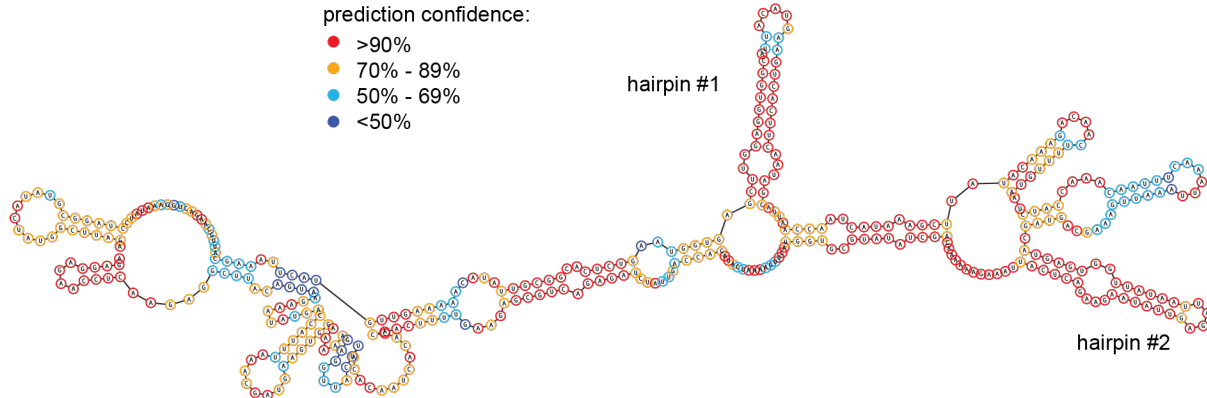
Sequences of RNA species pulled down from infected cells using Ssc-CdnE03

400-nt bacteriophage RNA pulled down during $\Phi 80\alpha$ -vir infection ($cabRNA_{\Phi 80\alpha}$):

5'-

AGAGGAGAACCUCAAGAGGCCUACAGUAAGAAUAUGACCAUUUAAACGAUGAA
GUGGAAAAGAGGUUACUACACAAUCACACCAACUUUUGAAGAGCGUCAGAGA
UCUAUUGACCACAUACUAAAAGUUCAUGGUGCGUAUAUCGACAAAAAAGAAUUA
CUCAGAAGAAUAUUGAGAUUAAUAUUGGUGAGUACGAUGACGAAAGUUAAAUUA
AACUUUAACAAACCAUCUAAUGUUUUCAACAGAAACAUUUCGAAAUACUAACCA
AUUACGAUAACUUCACUGAAGUACAUAUACGGUGGAGGUUCGAGUGGUAAGUCUC
ACGGCGUUUAUACAAAAAGUUGUACUAAAAGCAUUGCAAGACUGGAAAUAUCCUA
GGCGUAUACUAUGGCCUUAGA-3'

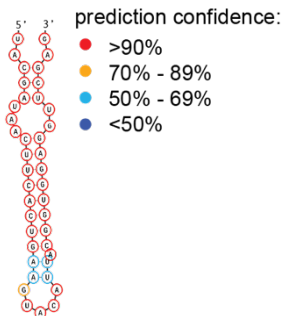
Predicted structure:



Hairpin #1 sequence:

5'-UACGAUAACUUCACUGAAGUACAUAUACGGUGGAGGUUCGAG-3'

Predicted structure:

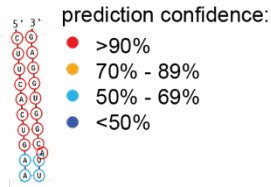


Hairpin #1 stem sequences:

5'-CUUCACUGAA-3'

3'-GAGGUGGCAUU-3'

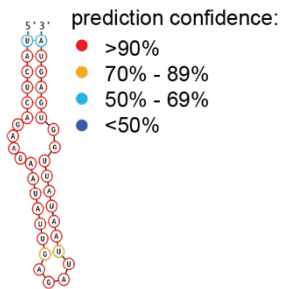
Predicted structure:



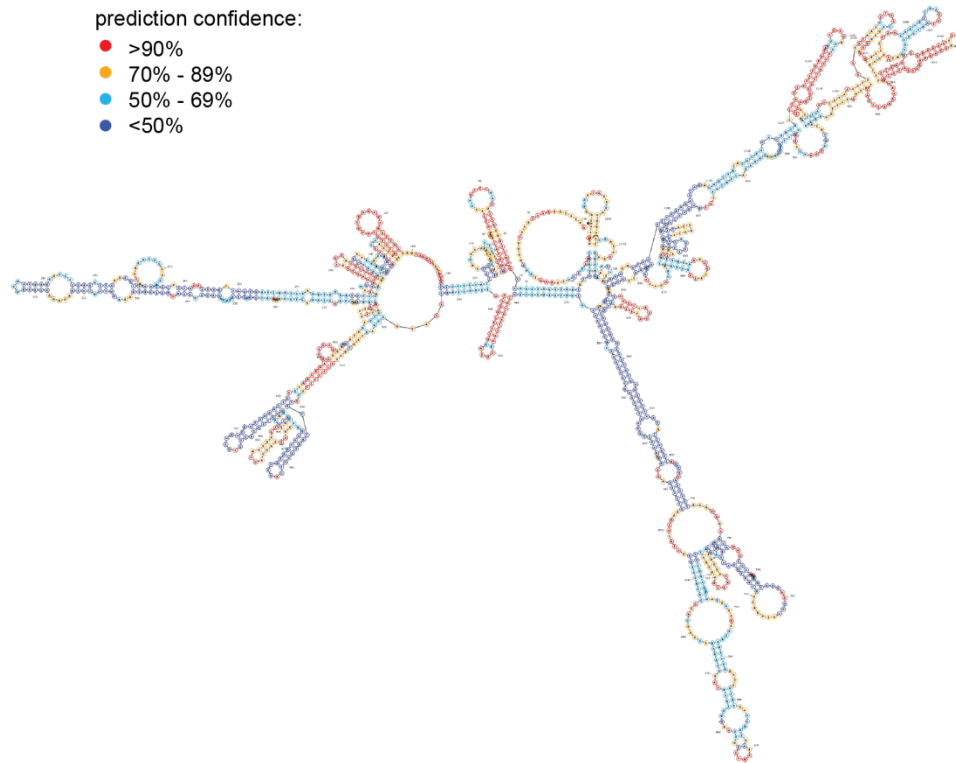
Hairpin #2 sequence:

5'-UACUCAGAAGAAUUAUUGAGAUUAAUAUUGGUGAGUA-3'

Predicted structure:



1237-nt bacteriophage RNA pulled down during $\Phi 80\alpha$ -vir gp40_{S74F} infection: 5'-
AUGACUAAAAAGAAAUAUGGAUUAAAAUUUCAACAGUUCGAAAGUUAGAAGAUG
AGUUGUGUGAUUAUCCUAAUUAUCAUAAGCAACUCGAAGAUUUAAGAAGUGAAA
UAAUGACACCAUGGAUUCACAGAUACAAAUAUAGGCGGGGAGUUUGUACCGU
CUAAUACAUCGAAAACAGAAUUGGCAGUAACUAAUUUUCUUUGUAGUAUACGAAG
AGGUAAAUCCUUGAGUUUAAGAGCGCUAUUGAACGUAAAUAACAACAUAAG
UAGGAAAGAACGCGAAUUCAUUCAAGAGUAUUUUUAAUAAAAAGGAAUUAGU
GAAAGUUUGUGAUGACAUAACAUAUUCUGAUAGAACUGCUCUAAGAAUCAAAG
GAAAUCAUAUCUAGAUUGGCGGAAGAGUUAGGGGAAGAGUGAAAUUGGCAGUA
AAGUGGCAGUUUUUGAUACCUAAAAUGAGAUUUUAUGAUAGUGUAGGAUUUGA
CUAUCUUACUGCGUUUCCCUUAUCGCAUUAGGAAUAAAGGAUCUAUGUGGGUU
GGCUGAUUAUAGCCAAUCCUUUUUUAAUUUUUAAAAAGCGUAUAGCGCGAGAGUU
GGUGGUAUUUGAAUUGAACGAAAAACAAAAGAGAUUCGCAGAUAGAAUUAUUAUG
AAUGGAUGUAAUGGUAAAAAAGCAGCAAUUUCAGCAGGUUAUAGUAAGAAAACA
GCAGAGUCUUUAGCAAGUCGAUUGUUUAAGAAAUGUUAAUGUUUCGGAAUUAUU
AAAGAACGAUUAGAACAGAUACAAGAAGAGCGUUUAAUGAGCAUUACAGAAGCU
UUAGCGUUAUCUGCUUUUAUUGCUAGAGGAGAACCUCACAGAGGCUUACAGUAAG
AAUAUGACCAUUUAAACGAUGAAGUGGAAAAAGAGGUUACUUACACAAUCACAC
CAACUUUUGAAGAGCGUCAGAGAUUAUUGACCACAUACUAAAAGUUCAUGGUG
CGUAUAUCGACAAAAAAGAAUUACUCAGAAGAAUUAUUGAGAUUAAUUAUUGGUGA
GUACGAUGACGAAAGUUAAAUAACUUUAACAAACCAUCUAAUGUUUUCAACAG
AAACAUAUUCGAAUACUACCAAUUACGAUAACUUCACUGAAGUACAUAUACGGU
GGAGGUUCGAGUGGUAAGUCUCACGGCGUUUAUACAAAAGUUGUACUUAAGCA
UUGCAAGACUGGAAUUAUCCUAGGCGUAUACUAUGGCUUAGA-3'



400-nt bacteriophage RNA pulled down during Φ NM1 γ 6 infection ($cabRNA_{\Phi$ NM1 γ 6):

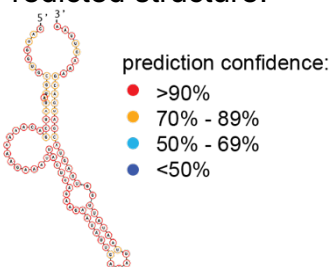
5'-

AGAGGAGAACCUCAAGAGGCUUACAGUAAGAAUAUGACCAUUUAAACGAUGAA
 GUGGAAAAGAGGUUACUACACAAUCACACCAACUUUUGAAGAGCGUCAGAGA
 UCUAUUGACCACAUACUAAAAGUACAUGGUGCGUAUAUCGAUAAAAAAGAAUUA
 CUCAGAAGAAUAUUGAGAUUAAUAUUGGUGAGUACGAUGACGAAAGUUAAAUA
 AACUUUAACAAACCAUCUAAUGUUUUCAAUAGAAACAUAUUCGAAAUACUAACCA
 AUUACGAUAACUUCACUGAAGUACAUAUACGGUGGAGGUUCGAGCGGUAAGUCUC
 ACGGCGUUAUACAAAAGUUGUACUUAAGCAUUGCAAGACUGGAAUAUCCUA
 GGCGUAUACUAUGGCUUAGA-3'

80-nt bacteriophage RNA pulled down during Φ 80 α -vir($cabRNA^{100}$):5'-

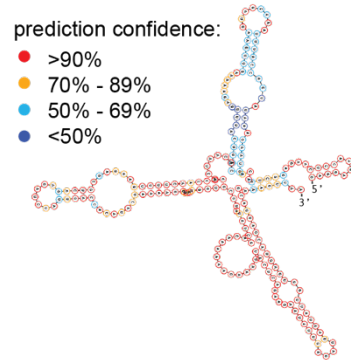
AUGGUGCGUAUAUCGACAAAAAAGAAUUACUCAGAAGAAUAUUGAGAUUAAUAU
 UGGUGAGUACGAUGACGAAAGUUAA-3'

Predicted structure:



200-nt bacteriophage RNA pulled down during $\Phi 80\alpha$ -vir(*cabRNA*⁵⁷):5'-
 AGAGGAGAACCUCAAGAGGCCUUACAGUAAGAAUAUGACCAUUUAAAACGAUGAA
 GUGGAAAAAGAGGUUACUUACACAAUCACACCAACUUUUGAAGAGCGUCAGAGA
 UCUAUUGACCACAUACUAAAAGUUCAUGGUGCGUAUAUCGACAAAAAAGAAUUA
 CUCAGAAGAAUAUUGAGAUUAAUAUUGGUGAGUACGA-3'

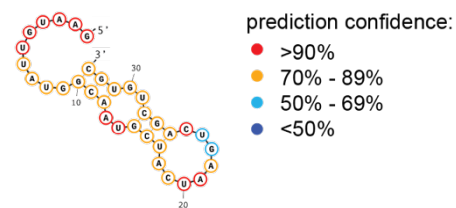
Predicted structure:



34-nt bacteriophage RNA pulled down during $\Phi J1$ and $\Phi J2$ infection (*cabRNA* _{$\Phi J1/2$}):

5'-GAATGTTATGGCAATGCTACTAAGTCAGCTGTGC-3'

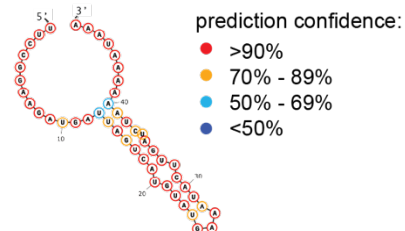
Predicted structure:



49-nt bacteriophage RNA pulled down during $\Phi J4$ infection (*cabRNA* _{$\Phi J4$}):

5'-TTCCGGAAGATGATTAGTCATGTATGAAATACTTGATCTAAAAAATAAA-3'

Predicted structure:



Sequence of the RNA species pulled down from infected cells using Sha-CdnE01

400-nt bacteriophage RNA pulled down during $\Phi 80\alpha$ -vir infection ($cabRNA_{\Phi 80\alpha}$):

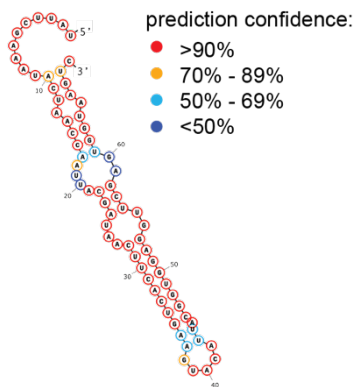
5'-

AGAGGAGAACCUC AAGAGGCCU UACAGUA AAGAAUA UGACCAU UUAAACGAUGAA
GUGGAAAAAGAGGUUACU UACACAAUCACACCAACU UUUGAAGAGCGUCAGAGA
UCUAUUGACCACAUACUAAAAGUUCAUGGGUGCGUAUAUCGACAAAAAAGAAUUA
CUCAGAAGAAUAUUGAGAUUAAUAUUGGUGAGUACGAUGACGAAAGUUAAAUUA
AACUUUAACAAACCAUCUAAUGUUUUCAACAGAAACAUAUUCGAAAUACUAACCA
AUUACGAUAACUUCACUGAAGUACAUAUACGGUGGAGGUUCGAGUGGUAAGUCUC
ACGGCGUUAUACAAAAGUUGUACUUAAGCAUUGCAAGACUGGAAAUAUCCUA
GGCGUAUACUAUGGCCUJAGA-3'

70-nt bacteriophage RNA pulled down during $\Phi 80\alpha$ -vir infection (hairpin #1):

5'-
UAUUCGAAUACUAACCAAUUACGAUAACUUCACUGAAGUACAUAUACGGUGGAG
GUUCGAGUGGUAAGUC -3'

Predicted structure:



Sequences of gp40 from bacteriophages used in this study:

gp40 sequence from $\Phi 80\alpha$ -vir: 5'-

ATGAACGAAAAACAAAAGAGATTCGCAGATGAATATATAATGAATGGATGTAATGGT
AAAAAAGCAGCAATTTTCAGCAGGTTATAGTAAGAAAACAGCAGAGTCTTTAGCAAG
TCGATTGTTAAGAAATGTTAATGTTTCGGAATATATTAAGAACGATTAGAACAGAT
ACAAGAAGAGCGTTTAATGAGCATTACAGAAGCTTTAGCGTTATCTGCTTCTATTGC
TAGAGGAGAACCTCAAGAGGCTTACAGTAAGAAATATGACCATTTAAACGATGAAG
TGGAAAAAGAGGTTACTTACACAATCACACCAACTTTTGAAGAGCGTCAGAGATCT
ATTGACCACATACTAAAAGTTCATGGTGCGTATATCGACAAAAAAGAAATTAATCTCAG
AAGAATATTGAGATTAATATTGGTGAGTACGATGACGAAAGTTAA-3'

gp40 sequence from $\Phi 80\alpha$ -vir gp40_{S74F}: 5'-

ATGAACGAAAAACAAAAGAGATTCGCAGATGAATATATAATGAATGGATGTAATGGT
AAAAAAGCAGCAATTTTCAGCAGGTTATAGTAAGAAAACAGCAGAGTCTTTAGCAAG
TCGATTGTTAAGAAATGTTAATGTTTCGGAATATATTAAGAACGATTAGAACAGAT
ACAAGAAGAGCGTTTAATGAGCATTACAGAAGCTTTAGCGTTATCTGCTTTATTGC
TAGAGGAGAACCTCAAGAGGCTTACAGTAAGAAATATGACCATTTAAACGATGAAG
TGGAAAAAGAGGTTACTTACACAATCACACCAACTTTTGAAGAGCGTCAGAGATCT
ATTGACCACATACTAAAAGTTCATGGTGCGTATATCGACAAAAAAGAAATTAATCTCAG
AAGAATATTGAGATTAATATTGGTGAGTACGATGACGAAAGTTAA-3'

gp40 sequence from Φ NM1 γ 6: 5'-

ATGAACGAAAAACAAAAGAGATTCGCAGATGAATATATAATGAATGGATGTAATGGT
AAAAAAGCAGCAATTACAGCAGGTTATAGTAAGAAAACAGCAGAGTCTTTAGCAAG
TCGATTGTTAAGAAATGTTAATGTTTCGGAATATATTAAGAACGATTAGAACAGAT
ACAAGAAGAGCGTTTAATGAGTATTACAGAAGCTTTAGCGTTATCTGCTTCTATTGC
TAGAGGAGAACCTCAAGAGGCTTACAGTAAGAAATATGACCATTTAAACGATGAAG
TGGAAAAAGAGGTTACTTACACAATCACACCAACTTTTGAAGAGCGTCAGAGATCT
ATTGACCACATACTAAAAGTACATGGTGCGTATATCGATAAAAAAAGAAATTAATCTCAG
AAGAATATTGAGATTAATATTGGTGAGTACGATGACGAAAGTTAA-3'

gp40 sequence from Φ NM1 γ 6 gp40_{S74F} recombinant: 5'-

ATGAACGAAAAACAAAAGAGATTCGCAGATGAATATATAATGAATGGATGTAATGGT
AAAAAAGCAGCAATTTTCAGCAGGTTATAGTAAGAAAACAGCAGAGTCTTTAGCAAG
TCGATTGTTAAGAAATGTTAATGTTTCGGAATATATTAAGAACGATTAGAACAGAT
ACAAGAAGAGCGTTTAATGAGCATTACAGAAGCTTTAGCGTTATCTGCTTTATTGC
TAGAGGAGAACCTCAAGAGGCTTACAGTAAGAAATATGACCATTTAAACGATGAAG
TGGAAAAAGAGGTTACTTACACAATCACACCAACTTTTGAAGAGCGTCAGAGATCT
ATTGACCACATACTAAAAGTTCATGGTGCGTATATCGACAAAAAAGAAATTAATCTCAG
AAGAATATTGAGATTAATATTGGTGAGTACGATGACGAAAGTTAA-3'

Mutated cabRNA DNA sequences (5'-3') from $\Phi 80\alpha$ used in this study. The sequence coding TerS C-terminal amino acid residues (DDES*) and TerL N-terminus (MMTKVK) is underlined; mutations introduced are in red.

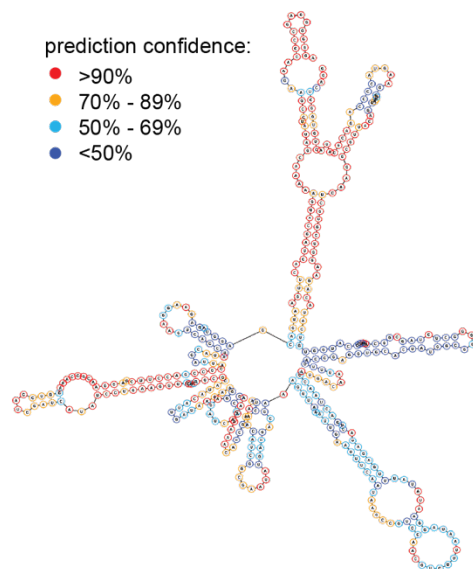
$\Phi 80\alpha$ -vir

AGAGGAGAACCTCAAGAGGCTTACAGTAAGAAATATGACCATTTAAACGATGAAGT
 GGAAAAAGAGGTTACTTACACAATCACACCAACTTTTGAAGAGCGTCAGAGATCTA
 TTGACCACATACTAAAAGTTCATGGTGCGTATATCGACAAAAAAGAAATTA^{CTCAGA}
 AGAATATTGAGATTAATATTGGTGAGTACGATGACGAAAGTTAAATTAAACTTTAAC
 AAACCATCTAATGTTTTCAACAGAAACATATTCGAAATACTAACCAATTACGATAACT
 TCACTGAAGTACATTACGGTGGAGGTTTCGAGTGGTAAGTCTCACGGCGTTATACAA
 AAAGTTGTA^{CTTAAAGCATTGCAAGACTG}GAAATATCCTAGGCGTATACTATGGCTT
 AGA

$\Phi 80\alpha$ -vir(cabRNA¹²²)

AGGGGGGAGCCCAAGAAGCCTATAGCAAAAAGTACGATCACTTGAATGACGAGG
 TAGAGAAGGAAGTCACCTATACGATTACGCCGACCTTCGAGGAACGCCAAAGGTC
 CATCGATCATATCCTGAAGGTCCACGGCGCATAATTGATAAGAAGGAGATCACCC
 AAAAAACATCGAATCAACATCGGCCGAATATGATGACGAAAGTTAAGTTGAATTC
 AATAAGCCGTCCAACGTCTTTAATAGGAATATATTTGAGATACTGACTAACTATGAC
 AATTTTACCGAGGTGCACTATGGCGGGGGCTCTAGCGGCAAATCCCATGGTGTCA
 TACAGAAGGTCGTGCTCAAGGCGTTACAGGATTGGAAGTACCCAGACGCATACT
 GTGGCTCAGG

Predicted RNA structure:



$\Phi 80\alpha$ -vir(cabRNA¹⁰⁰)

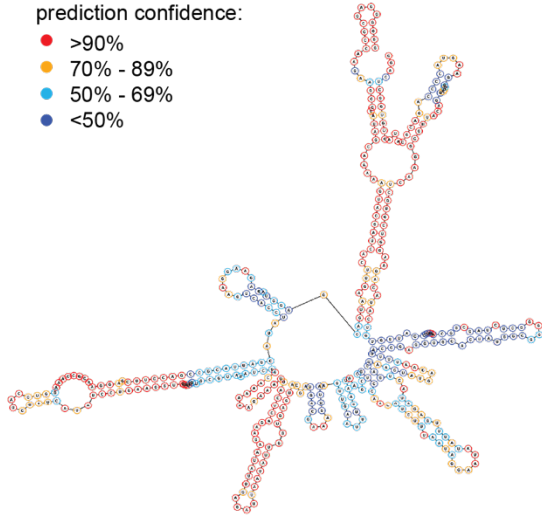
AGGGGGGAGCCCAAGAAGCCTATAGCAAAAAGTACGATCACTTGAATGACGAGG
 TAGAGAAGGAAGTCACCTATACGATTACGCCGACCTTCGAGGAACGCCAAAGGTC
 CATCGATCATATCCTGAAGGTCCATGGTGCGTATATCGACAAAAAAGAAATTA^{CTC}

AGAAGAATATTGAGATTAATATTGGTGAGTACGATGACGAAAGTTAAGTTGAATTTCAATAAGCCGTCCAACGTCTTTAATAGGAATATATTTGAGATACTGACTAACTATGACAAATTTACCGAGGTGCACTATGGCGGGGGCTCTAGCGGCAAATCCCATGGTGTCA TACAGAAGGTCTGTGCTCAAGGCGTTACAGGATTGGAAGTACCCAGACGCATACTGTGGCTCAGG

Predicted RNA structure:

prediction confidence:

- >90%
- 70% - 89%
- 50% - 69%
- <50%



Φ80α-vir(cabRNA⁵⁷)

AGAGGAGAACCTCAAGAGGCTTACAGTAAGAAATATGACCATTTAAACGATGAAGTGGAAAAAGAGGTTACTTACACAATCACACCAACTTTTGAAGAGCGTCAGAGATCTATTGACCACATACTAAAAGTTCATGGTGCGTATATCGACAAAAAAGAAATTACTCAGAAGAATATTGAGATTAATATTGGTGAGTACGATGACGAAAGTTAAGTTGAATTTCAATAAGCCGTCCAACGTCTTTAATAGGAATATATTTGAGATACTGACTAACTATGACAATTTTACCGAGGTGCACTATGGCGGGGGCTCTAGCGGCAAATCCCATGGTGTCAATACAGAAGGTCTGTGCTCAAGGCGTTACAGGATTGGAAGTACCCAGACGCATACTGTGGCTCAGG

Predicted RNA structure:

prediction confidence:

- >90%
- 70% - 89%
- 50% - 69%
- <50%

