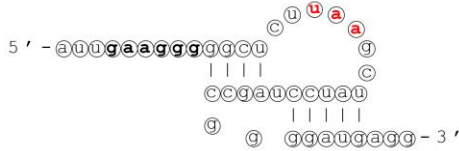


A

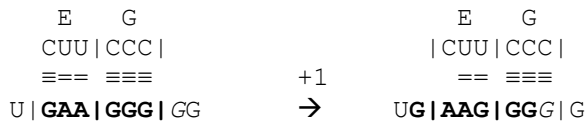
Blechomonas juanalfonzi B07-161 LRV1 frameshift

Capsid L S G T E T V V I E G G S -
cugaguggaacugaaacuguggucauu**gaagggggccu**cu**uaa**gacuauccuagccgggggaugagga
RDRP - V E L K L W S L K G A L K T I L A G D E

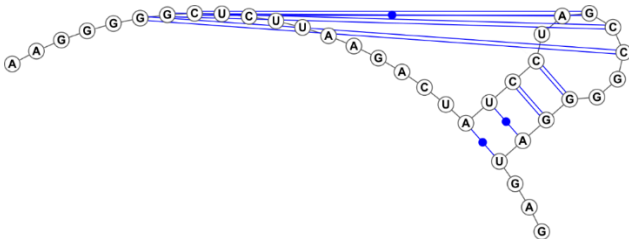
Model of compact H-type pseudoknot



Model of +1 frameshift

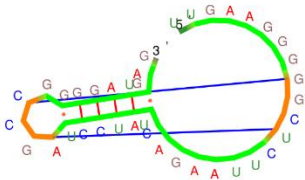


Pseudoknot predicted by Ipknot software



Pseudoknot predicted by Kinefold software

ble_64681 Generated by KineFold



Structure 1. Free-energy :-10.4 kcal/mol

B. maslovi B05-J13 LRV1 frameshift

capsid S D D N T T E T -
uaagug**aug**acaacacgac**agaaacu**uaaaacucuguuagacaauugu
- V **M** T T R Q K L K T L L D I

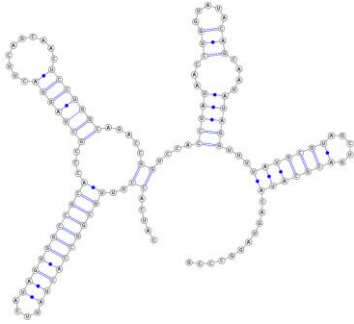
B. wendygibsoni B09-1267 LRV1 frameshift

capsid G R G A V M E P D T E V P A P S A D -
ggugcgcggugcaguaauggaaccugacacugagguccagcaccaaugugcugau**uga**caugccuauuuuu**aaaggcuqucc**
- W N L T L R F Q H Q V L I D M P I L K A V

B

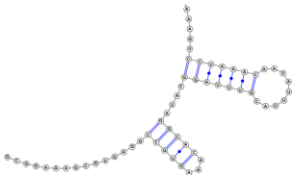
***Blechomonas juanalfonzi* B07-161 LRV1 3' terminus**

CAUCACCGUUGCGGCCACUAUUCAUAGUGGCCGCACCCGCUAGGACUUCAGCAACUCCUGGCAGACCGGUCCACCUA**UAA**CCUGGUAAUACAGCAAUAUAGGUUUUAUGCGUAGCUGACGCAUACAGUAGGCCCG



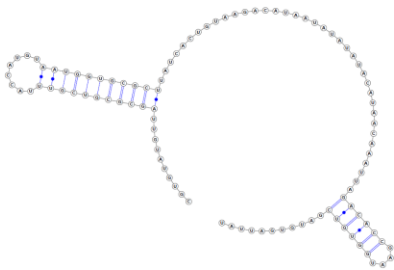
***B. maslovi* B05-J13 LRV1 3' terminus**

AUCAUUAAGUCCUAAACAAUAUUUACGUU**UAG**GCAUAGGCACAAAGUGCCGGAGUGCGAAAGCCG



***B. wendygibsoni* B09-1267 LRV1 3' terminus**

CUGAGAUUAAAUAUUGUGCUAUUGAUGGUGCACUACCUUAUAGUGAUGCGUGUAUGUUAGCGCGUCGUUUACCAUGUAAUG
GUGCGCUUAUCACUGUAAGACAUAUAUAUAUACA**UAA**CAAUUAGACACCGAAUGGUGUCGAUGUGAUUAU



***Leishmaia* LRV1-4 3' terminus**

GUGGAGUUGUUAUACAAGUAAUACAUAUAUGUAUAUGUA**UAA**GGACGCACCAUUCGGAAUAUGGCAAGAGUGCCAUAAACUAUC

