

Virus Report

28-01-2015 11:54:37

Secondary structure results

Virus name:
Banana Virus

Sequence:

```
TGGTATCAGAGCAAGGTTTTCTGTAAGTAATTTATGGCTTTCATGGGGTAAAACCCTTAGA
TAGGAGCCTGAGGGCTCTGCTATGTTCTATTTTGAGAAAATAACTGTGTAAGTAGTAATGC
ATGATAAATCGAATAAGTTCTTTACGGATGGTCCTAAATTTATGAAATCATTCTTTTACTAT
CTGAGTGAGACCCTTGTTTCCAAGTTCTACTGAGAAATCATGAGTAAATGGACGTTGA
CACACTGACTTAAGGAAAAGAAAGATGTGCCTAGGATGAAGTCGAGCACTGTTCTAGGCT
GAAGGGTGAAAAGAAAAATGAGTTGAGTTGGGAGTAAGACTCTGAGAGGCTTGAGGCAA
AAGAACCGBAACCTTACCTAGCAAAGTAAGACCCAAGGGAGGGCAGTAGCTGGAGAACC
CCGGTGTGAGTTTCTTTACCTAGCAGAAGATATACTCTAGTATCCTCAAAACACCGTGAAG
TATTTACAACCCTTTATGAACAAGTATTTTCTGGAGTTAGATGTCAGCCACCAAAGATCAT
GATCTATCACAAACAAACTTGAGTCATACAGAGAAGAACTCAGATGTAAGTGAATGACTAA
TGATCAGGGACCTCTATTAAGAGCTTAGTAAGAAGTAAGTGCATAAACTACCTCTGGAAC
TGGTTATAATCTTGAAATGAGCATATGTATCCCAAAGGTTACTCCTATCTGTCCGTGACCA
TAAGAAACCTTCTTTAAAGAAAAACTCTGGATTCTACTGGGATCTTGAATTTGAAAAGTA
CAAAAACCTCTCATTCCAAATCTGTTTCAGATCTTTCTTATTTAGACTTAGCATCTGCTGATA
AGGTCTCTAATAAAGACCTTGCATTTAATTTACATATAAACACTTATCGTAGTGATCTTGGT
TTTAAAGTCGCAATTCACCTCTTTATCAAAAAATCGTGAGCTGCTAATACAGAACAGGAAGC
TTTTGGAAGAACAAAAGCAGCAGCTGTCTGAAATTAACAACCTATCTAAGGTTGTGCGTCT
CCAACGAGCTGATTTAAAGGAGACCTTGAGAAGACAGGACGTCCTTGCGAAGGAGCTTC
AGGCTCTTCGTAAAGACTATCTGAAAGGCGCCCTCTTAGCAAGGAGGACGTGGAAGAA
TTGGTTGTCCGCATCTCTGAACAACCAAAAATTTATTGAAAAAACAGACGGAAGCTCTTAC
TGAGGAGCTTACAAAGGAGGTTGAGGCACTGAAGCTAATCATCCATAACTTCGAACAGAA
GTTACTGGGATGAGCCTGGCCGGAAGCAAGGCCACAGCAATCTATCAAGAAGCCTTGCA
ATCTACTGCTGCTGGTTGGGAAGACACCGGCATCGGATTTACTGATAAAGGAGTTATCAG
TACCACTACCCTATCAAGGCAGCTAAATTCGCTGTTATTTCTGGTGATCAAAACAAAATCAG
CAGATCACCACCATCTCGGAAGAACTAACCCAACCTTCACAACCGGGTTAAAAACCTTGAA
GGAAGGACAGGGGTATCTGCAAGCCCCCTGTATAAATCGGAGATTGAATCCATCAACGC
CAAGCTCAAAAGTATTCAAGATATACAAGGGAGTCACCCTCCAAAAGAGACCCCCCTCCGG
AGTTATCAAAGTTTTTGAGGATCCCTACAGCATCCTCCGCAGACTATAAATGGCGTCAAGA
CCTAGAGTTTCTGGGAGCACTACCAGAACCATGATAGCAGAACCAGGGGTTCCCTGGT
GGATGATCAGATCCGGGAATACCGGAGTGCGGCCCGAGTCGCATACGAAGCACAAAGG
ATTGCCAGACGCACTGGCAATATTCTTGGAAGAATTGTTGGACGACAACCAAGGGAGCAT
ACCCTTGCGATGGTCGTGGACCCCAACAGTGAGCTGGAACGCTCACTGGCTCACCGGGC
ACGAACAATACCTGCTGAAGTCCTTTACATGACCCAGCGCGGTGAGCCTACAAATCGGGT
CTATCGGAACAGAACTGAAGAAAGGATGCTAGTGACTCATGGTCAGCAAGATAGGACTTT
CATCTTGCCAGAGTCATATGAAGAGCTCAGGGAGGCTGGATTTGAGTACATCCATCTAGG
GGTACTCCAGGTGCGCATCCAAATTATGCACCGAACATATGATGGTACAATGGCATTAGT
GGTCTTCCGTGACACCAGATGGACACAGGAGAACCACCAAGACAGATCCATTATAGCAAC
CATGGAGGCTGATCTCTCCAAGGGCATCAGCTAATTTACGTCATCCCAGATATAATGAT
GACTATTTCGGGATTTCTACCAGCACATTGAGATAAGCATCCTTACCAAAGGATATGAAGG
CTTTCAAGGAGAAGCAAATCTCCTTATTACAAGAAGCTGCCGGTGACAGATTAAGCAACGT
TCCTAACGTTGGCTTCCAATACAACATCCAGAACGTCGTGGAATTCTTAAAATCTAGGGGA
GTAAAAGCCCTAAATGCGACGAAATTAAGCACCAGGAGGTTCCAAGGAGGAGAATGGAA
CATCCGACCATCAGAAGTGGTGGTCCCTATGCAGCCAACAACCTATGATAGTACGAGTTAA
TTATGACTCGTCACGAAGCATCAGATTCGGGGATTATGAAGCTAGCACATCATCATCAGC
CCCGAGATATGAGCAAGACGGTGATGAAGATGAAGCACTTGGTGATATCCATCAAGTAA
TATGATCACCATCATAGAAGATGATGCAGAAGATGACTACCCACGGTTATCAGCTTTAGA
GCGAATAATCGCTCCAGAAAGCATGGTGGGAGAGGAGGACACAATTGCTGAATTTTTAAG
CAATCTGTCTTAGATTCTCCACTGATGAGGAATTCTACGACGCCGACAACCTCATTATTC
GAAGAAGAAGAATATGATGGGGATTCCGAAGTTAGCACCCCAAGGAGCAAATACAATATA
TTTGCGCTAGAAGATGAGTACCCAAAACCTTCAACAGCTGGAAAGCCTGGTACTCTCCACA
ACAGAGTCTGCTATCAGTCGCTTTAGACCAGCAGACACAGATATGACTGGCGTAGGCCCT
GGCTACGCACCAGCAACTGGAACAGCTGGCTATACTGGAGCCAGTTCATCTGATTTCCCT
TACCCTAGAAGACCAAGAAAGTGGGACAACAACCTCGGAGTGGTTCAACCTACCCACCGC
TAACGCGAGGCAAGCATCAATATTCGTTATGCCTCAGGATTTTGACACAAAGGTCTTTGAA
```

AGATGGGAAAGTTCTGTTCTCCTTCACATGTCTGACAAGGTTTTTGGATGATCCACAAGACA
AGTTAACTTATGTGGAAAACCTACTAGGAGAATCAGAAAAGAAGATGTTTATCACTTGGAG
GATGATGTTACAGCTGAGTACGAAGAAATGAAGAACAACGCTCTCGGCTCAAATGGAAC
TCAAATATCCTGAACCAGATCAGGATGATATTCTTTCTGGAAAATCCCCAAGTTGGAACC
ACCAACACTCAAGACGCAGCATAACAAGACACTCAAACAACACTAGTCTGCACAGAGATGTCT
GGACCTGCGATCTACAGGTACCTAAATGATTACTTCCATTTAGCGGCAAAATCTGGAAGA
GCGTGGGCATCTGATGAGCTGTCCAAGGAATTCTTTACAAAACACTGCCAAGGGGATTAGG
GGACAGAGTTGAAAAGAAATTCAAAGAAAAGTACCCCAACAACACTATTGGAGTAGCCCC
CAGAATCACCTTCACAAGAAATTATATAAAGGAAATATGCCAAGAGGCTGTATTCCAAAGC
CAACTGAAAAGGCTAGATTTTTTGCAAAGGGACACCCGTCACGCTTATATGGTAAAGAG
AAGGCATATGGGAGGAAATACGGAGTCAGGAAAAGCACTTCGTACAAAGGAAAGCCTCA
CAAGTCACATGTGAGGATAGATAAAAAGAAGCACCTCCTGATGAAACGAAAAGACTGCAA
GTGTTTTGCTTGCGGAGATATCGGTCACTTCGCATCAGAGTGTCCGAATCCCAAGAAGCT
GATGCACCGAGTTCAAATTCTACAATCCTTAGAGCTTGATGACGGAATCGACGTAATCTC
CGTAGGATTTGATGAGTCAGATGTCTCAGACATCTATTCCGTATCTGAAGGCGAGGACAG
CTACCAGTTCAATAATGAGGATTTTGACGTTATAGGACATGACGTGTTTCATGTTCAACCATT
GAAGAACAAGAACTGCCTGGTAGAAACCACGTCAGCCTGGAGAAGTGCAATGAAAGTT
ACTCCAGAAGAAAAGAATTGCTTACACACATGGAGCTTTGAGGAAAAGACAACAGACCAC
TGCAGAGCCTGCAAAAATCTGGCCCTACGAGGGAGCAGAGCTGACTGCACTCAGTGTA
GATAATCATTGCTCTTTATGCAAACCATACTATTTCCAGGATGGTTCACCTATCCCAGCA
CAAAGTTCAACCCCATCAGGATACTCCTACGATGATTGGATGGGATCAGCAAATAGGTGG
AAGGCACACTATGAGTTCTCTCAGGCAAGAAGGAAGAGCCTGAAGGCAGACCTTGAAAG
AGCGGAAGAAGAACTAAAATTTTATAAGCAAAAAGGAAAAGGAAAAGGCCAAATTAAGGA
TCAAATTCAGAAAGCAGTACAAGCAAAACTGGATGATCTGGAAAAAGAAAAAGAGCTCAA
TAACATCCTAAGAATAGAGGCTGAGACAGAGCTAAAAGCATTAAAGGAAAGCTTCAAAGA
AAAGGAAGAAGCCCTGAAGGAAGAAATCACAGCTCTAGAAGAAGAAGTGAGGATACACA
AAGAGGAGGCTGAAGAACTTCAGGAAGAAAATCAAAAACACTCAAAGAGAAGATCATAGCCT
TCGAAAAAGACGTAACACAAGGACCAGAAGAAGTGATCGAATTGGTCAATAACGTGGAGG
AGCACCTGGTACTAACAGGACAACAGAAGAACAATCTCCTCAACATCAAGATAACTCTGG
AAGTTAAGGAAAAAAGGATTACCATGAACGCGATACTAGACACTGGAGCCGCAATCTGTG
TCTGTGATGGGCAAATGGTAAACGAATATTTTCAAGGAGACCATCAATGATGAATGCGTTT
AAAGGGAGTTAATGGGATTACCAATGTCAAAGAAATCTTAGAGGAAGGAAAAATCTGGAT
TGGTAATCAATGGTTCAGAATCCCAAGGACATACATCATGCCCCAGCTATCAGAAGGCCT
TCATTTTCATCATCGGAATGAACCTTTATCAGGGCAATGGAAGGAGGGATTGCAATTGAGCA
AGGAACGGTAACCTTCTACAAAATGGTTACACAAGCACAGGCACCCCCCTATGGTACACGA
TATTTCTTACCTTGAAGAATTAGAATTAGAAGTCCCGATTTACTATGATATCTGTGCAACTA
ACCCCTCAGGAGGAGAAATCAATAGTGACCTAATATCCCCCTCGGAGATCCGGAAACTAA
AGGACTTAGGCTACATTGGGGAAGAGCCCTTGAAACATTGGGCTAAGAATCAAGTCAAGT
GCCGAATTGAAATCAAGAACCCTGACTTAATCATTGAAGATAGGCCCTTGAAAGCACGTCA
CCCCAGCAATGAAAGAATCCATGAAGAAACATGTGGACAAGCTGCTGGAACCTTAAGGTAA
TCAGGCCATCCACAAGCAAAACACCGGACGACTGCGATAATTGTTCAATCCGGTACAGAAA
TTGACCCCTCACTGGAAAAGAGAAAAGAGGGGAAAGAGAGGCTTGATTCAACTACAAAC
GCCTCAACGACAATACCGAAAAAGACCAGTATTCACCTACCTGGCATCAATACAATTATCAG
CAGGATCGGCAAGTCAAAAATTTACAGCAAATTTGACTTAAAATCCGGATTCCACCAGGTA
GCCATGGATCCAGAAAGCATCCCATGGACGGCCTTTTGGGCCATAGATGGACTTTTATGAA
TGGCTAGTTATGCCATTTGGTCTGAAGAATGCGCCCGCTATATTTTCAGAGAAAGATGGAC
AACTGCTTCCGAGGAACGGAGGAATTCATAGCGGTATATATTGATGATATTTTAAATATTCT
CTGACAATATCTCTGATCACAGGAAACATCTGTCAAATTCCTGGAGATCTGCAAGGCGA
ATGGGCTGGTATTAAGCCCAACAAAAATGAAGATAGGCGCAAAGGAAATTGATTTCTAG
GAGCAACTATTGGAAACTCCAAGATCAAGCTTCAACCTCATATAATCAAGAAGATCATCGA
GACAAAGGACGAGGAGCTAAAGGAAACAAAGGGGCTCAGAAAATGGTTGGGAGTCCTTA
ACTATGCACGGGCATACATTCCAAATTTAGGAAAAACATTAGGCCCGCTCTACTCCAAGA
CGTCAATTAATGGAGAGAAGAAGATGAACAGCCAAGATTGGAAGGTTGTTCAACTGATCA
AAAATCAGGTACAAAATTTACCTGACCTTGACATACCCCTGCGAGAGGCAACTATGGTCTT
AGAGACTGACGGGTGTATGGAAGGATGGGGAGGAGTATGCAAATGGAAGCTCCATCCCT
CTGACACAAGACTGGCAGAAAAGGTCTGTGCGTACGCAAGTGGAAGGTATCACCCCATC
AAGAGCACAATTGATGCAGAGGTACACGCAAGTATCAACAGCTTAGAAAAATTCAAAATTT
ATTATCTGGATAAAAAGGAGTTGATCATAAGAACAGACAGCCAGGCTATTGTGGCTTTTTA
TAAGAAGCAAGCTGATCATAAGCCCTCAAGAACAAGGTGGCTTATGCTAATTGACTACATT
ACTGGGCTCGGAATCAACGTCAAATTCGAGCATATTGACGGGAAAGAAAATGTTCTAGCT
GATACTCTATCAAGGCTGGTCCAAGTGCTGATCACCAGGTTTCATCATCCAGCAGAAACC
CAGCTAGTCGAAGCCGTATGGAAGTTATAAGCAATCCAAAGAAAGAAGCCTTGGACAAG
GTAAACCATTTTATCTTCTTAACCCAACAGTGGATTGCAGAACGCAAGGAGGAGCACACG
GTGAACACGCTACTCCAGTTGGAAGAACCACAGCTGCATTGTGGTTGTAGAAACTATGAA

1282

Ending nucleotide position:
1681

Image of the domain isn't available

Protein 3

Number of domains:
4

Aminoacidsequence:

MASRPRVSGSTTRTMIAEPGVPLVDDQIREYRSAARVAYEAQRIARRTGNI LGRIVGRQPREH
TLAMVVDPNSELESLAHRARTIPAEVLYMTQRGEPTNRVYRNRTTEERMLVTHGQQDRTFIL
PESYEELREAGFEYIHLGV LQVRIQIMHRTYDGTMALVVFRDTRWTQENHQDRSIIATMEADL
SQGHQLIYVIPDIMMTIRDFYQHIQISILTKGYEGFQGEANLLITRSCRCRLSNVPNVGFQYNIQ
NVVEFLKSRGVKALNATKLSTRRFQGGGEWNIRPSEVVVPMQPTTMIVRVNYDSSRSIRFGDY
EASTSSSAPRYEQDGEDEALGDIHQVNMITIIEDDAEDDYPRLSALERIIAPESMVGEEDTIAE
FLSNLSLDSSTDEEFYDADNSLFEEEEYDGDSEVSTPRSKYNIFALED EYPKLQQLESVLSTT
ESAISRFRPADTDMTGVGPGYAPATGTAGYTGASSSDFPYPRRPRKWDNNSEWFNLPTANA
RQASIFVMPQDFDTKVFERWESSVLLHMSDKVFDDPQDKLTYVENLLGESEKKMFITWRMM
FTAEEEMKNNALGSNGTQNILNQIRMIFFLENPQVGTTNTQDAAYKTLKQLVCTEMSGPAIY
RYLNDYFH LAAKSGRAWASDELSKEFFTKLPRGLGDRVEKKFKEKYPNNTIGVAPRITFTRNY
IKEICQEAVFQSQLKRLDFCKGTPVHGLYGKEKAYGRKYGVRKSTSYKGKPHKSHVRIDKKK
HLLMKRKDCKCFACGDIGHFASECPNPKKLMHRVQILQSLELDDGIDVISVGFDES DVSDIYSV
SEGEDSYQFNNEFDVIGHDVFMFTIEEQRNCLVETTSAWRSAMKVTPEEKNCLHTWSFE EK
TTDHCRACKNLALRGSRADCTQCKIIICSLCKPYYFQDGSPIPAQSSTPSGYSYDDWMGSAN
RWKAHYEFSQARRKSLKADLERAEELKFYKQKEKEKAKLKDQIPEAVQAKLDDLEKEKELN
NILRIEAETELKALKESFKEKEEALKEEITALEEEVRIHKEEAEELQEENQKLKEKIIAFEKDVTQ
GPEEVIELVNNVEEHLVLTGQQKNLLNIKITLEVKEKRITMNAILD TGAAICVCDGQMVNEYFR
RPSMNNAFIKGVNGITNVKEILEEGKIWIGNQWFRIPRTYIMPQLSEGLHFIIGMNFIRAMEGGI
RIEQGTVTIFYKMVTQAQAPPMVHDISYLEELELELPIYYDICATNP SGGEINSDLISPSEIRKLKD
LGYIGEEPLKHWAKNQVKCRIEIKNPDLIEDRPLKHVTPAMKESMKKHVDK LLELKVIRPSTSK
HRTTAIVQSGTEIDPLTGKEKRGKERLVFN YKRLNDNTEKDQYSLPGINTIISRIGKSKIYSKFD
LKSGFHQVAMD PESIPWTAFAWAIDGLYEWLVMPFGLKNAPAI FQRKMDNCFRGTEEFIAVYID
DILIFSDNISDHRKHLSKFLEICKANGLVLSPTKMKIGAKEIDFLGATIGNSKIKLQPHIIKKIIETKD
EELKETKGLRKWLGV LNYARAYIPNLGKTLGPLYSKTSINGEKKMNSQDWKV VQLIKNQVQNL
PDL DIPPAEATMVLETDGCMEGWGGVCKWKLHPSDTRLAEKVCA YASGRYHPIKSTIDAEVH
AVINSLEKFKIYYLDKKELIIRTD SQAIVAFYKKQADHKPSRTRWLMLIDYITGLGINVKFEHIDGK
ENVLADTLSRLVQVLITKVHHPAETQLVEAVMEVISNPKKEALDKVNHFI FLTQQWIAERKEEH
TVNTLLQLEEPQLHCGCRNYETGERRNAILLQSHTSANPNRW FYKCAENKCHIWIWKDILDQ
YAEDYATYTRIGLEALNLEDWFEEPEPDPPNPVDRQRIEDILDLLNVSND D

Starting nucleotide position:
1681

Ending nucleotide position:
7378

Image of the domain isn't available

Domain 1

Starting aminoacid position:
1349

Ending aminoacid position:
1509

Domain description:
Reverse transcriptase (RNA-dependent DNA polymerase)

Identifier:

RVT_1

Domain 2

Starting aminoacid position:
125

Ending aminoacid position:
246

Domain description:
Viral movement protein (MP)

Identifier:
MP

Domain 3

Starting aminoacid position:
1090

Ending aminoacid position:
1201

Domain description:
Retroviral aspartyl protease

Identifier:
RVP

Domain 4

Starting aminoacid position:
763

Ending aminoacid position:
780

Domain description:
Zinc knuckle

Identifier:
zf-CCHC