```
                    ..............................................................((
MBFV-NC_012532.1    AUUUGGAUUUGGA---AACGAGAGUUUCUGG--U----CAUGAAAAACCCCA-AAGAAGA 50
MBFV-NC_035889.1    UUUUGGAUUUGGA---AACGAGAGUUUCUGG--U----CAUGAAAAA-CCCA-AAAAAGA 49
MBFV-NC_001477.1    AACAGUUUUUUAUUAGAGAGCAGAUCUCUG---------AUGAACAA--CCA-ACGGAAA 48
MBFV-NC_001475.2    GACAGUUUUUUAUUAGAGAGCAGAUCUCUG---------AUGAACAA--CCA-ACGGAAG 48
MBFV-NC_001474.2    ACAGUUUUUUAAUUAGAGAGCAGAUCUCUG---------AUGAAUAA--CCA-ACGGAAA 48
MBFV-NC_002640.1    -----UGUUUGAAUAGAGAGCAGAUCUCUGGAAA----AAUG---AA--CCA-ACGAAAA 45
MBFV-NC_012533.1    ----GUGUUGAGAAAGAAAACAGAU-UCUUCGGA----AAUGAA-------A-ACCCAAA 43
MBFV-NC_009026.2    ------UCGAGGAAA--GACGAGAAGCGAAUUCU-CUGAAUGGCU---AGAA-AACCAGG 47
MBFV-NC_009028.2    ------UCUGAAUAGUUUUUUAGCAAGGGAUUUC-CC--AUGUCU---AAAA-AACCAGG 47
MBFV-NC_040776.1    ------UCUGAAUAGUUUUUUAGCAGAGGUACUA-CC--AUGUCU---AAAA-AACCAGG 47
MBFV-NC_006551.1    ------GCCG-GCAGUUUCUUUGAG-CGUUGAUU-UUCAAUGUCU---AAGA-AACCAGG 47
MBFV-NC_001563.2    ------UGCGAGCUGUUUCUUGGCA-CGAAGA-U-CUCGAUGUCU---AAGA-AACCAGG 47
MBFV-NC_009942.1    ------UGCGAGCUGUUUCUUAGCA-CGAAGA-U-CUCGAUGUCU---AAGA-AACCAGG 47
MBFV-NC_012534.1    ------AGUUUGAACGUUUUUUGGAGAGAGAUUA-UU--AUGUUUAACAAAA-AACCAGG 50
MBFV-NC_015843.2    ------AGUUUGAACGUUUUUUGGAUAGAGACAA-CU--AUGUCUAACAAAA-AACCAGG 50
MBFV-NC_034151.1    --------UGAAUAGUUUUUUGAACAGAGGUGAA-AACCAUGUCU---AAAA-AACCAGG 47
MBFV-NC_009029.2    ACACAGUGUGAACAAGUUUUUUGAACAG----CA-----AUGACC---AAAA-AACCAGG 47
MBFV-NC_032088.1    ----AGUGUGAACAAGUUUUUUGAUCAGUGGAUA-----AUGACU---AAAA-AACCAGG 47
MBFV-NC_000943.1    --------UGAACAGUUUUUUGGAGCUUUUGAUU-UCAAAUGUCU---AAAA-AACCAGG 47
MBFV-NC_007580.2    -------GCGAACAGUUUUUU--AGCAGGGAAUUACCCAAUGUCU---AAAA-AACCAGG 47
MBFV-NC_001437.1    -------UUAAACAGUUUUUUAGAACGGAAGAUAACC--AUGACU---AAAA-AACCAGG 47
MBFV-NC_008719.1    ---------AAAGGGUAGAGAAAAGGAGUUUUGCUUCUCAUGGCAACAAGAG-GAGCAAG 50
MBFV-NC_012735.1    ---------AAGGAGUAGAAGAAAGGAGAUUCAUUCCCAAUGGCAACAAAGG-GGAUGAA 50
MBFV-NC_002031.1    ---------UUGAGCGAUUAGCAGAGAACUGACCAGAACAUGUC----------UGGUCG 41
TBFV-NC_003687.1    ------AGCUUAGGAGAAC---AAGAGCUGGGAGUGGUUAUG------AUGACCACUUCU 45
TBFV-NC_027709.1    AAAGACAGCUUAGGAGAAC---AAGAGCUGGGG------AUGGGCAGGAAGUCCAUCCUG 51
TBFV-NC_001809.1    AAAGACAGCUUAGGAGAAC---AAGAGCUGGGG------AUGGGCAGGAAGACCAUCCUG 51
TBFV-NC_003690.1    AAAGACAGCUUAGGAGAAC---AAGAGCUGGGA------AUGGCCGGGAAGGCCGUUCUA 51
TBFV-NC_001672.1    AAAGACAGCUUAGGAGAAC---AAGAGCUGGGG------AUGGUCAAGAAGGCCAUCCUG 51
TBFV-NC_005062.1    AAAGACAGCUUAGGAGAAC---AAGAGCUGGGG------AUGGCCGGGAAGGCCAUUCUG 51
                    .........10........20........30........40........50........6
```

```
                    (...((....((......((((..(((((((((((.......................
MBFV-NC_012532.1    AAUC--C---GGAGGA-UCCGGAUUGUCAAUAUGCUAAAACGCGGAGUAGCCCGUG---- 100
MBFV-NC_035889.1    AAUC--C---GGAGGAUUCCGGAUUGUCAAUAUGCUAAAACGCGGAGUAGCCCGUG---- 100
MBFV-NC_001477.1    AAGA--C---GGGUCGACC--GUCUUUCAAUAUGCUGAAACGCGCGAGAAACCGCGUGU- 100
MBFV-NC_001475.2    AAGA--C---GGGAAAACC--GUCUAUCAAUAUGCUGAAACGCGUGAGAAACCGUGUGU- 100
MBFV-NC_001474.2    AAGG--C---GAAAAACAC--GCCUUUCAAUAUGCUGAAACGCGAGAGAAACCGCGUGU- 100
MBFV-NC_002640.1    AAGG--U---GGUUAGACC--ACCUUUCAAUAUGCUGAAACGCGAGAGAAACCGCGUAUC 98
MBFV-NC_012533.1    AAAG--G---GCCGCAUCGCGGCCUAUCAAUAUGCUGAAGCGCUUUGGAUCUAGCGCUGG 98
MBFV-NC_009026.2    AAGACCC---GGAGGAAACCGGGUCGUCAAUAUGCUAAAGCGUACGGCGGCCAACG---- 100
MBFV-NC_009028.2    AAAGUCC---GCUGCAAAGCGGACUGUCAAUAUGCUAAAACGCCUGGCUAGCGUGU---- 100
MBFV-NC_040776.1    AGGACCC---GCCGGAAGGCGGGUUGUCAAUAUGCUGAAACGCCCAGCCAGCGUUU---- 100
MBFV-NC_006551.1    AGGGCCC---GGAAGAAACCGGGCCAUCAAUAUGCUGAAACGCGGCAUACCCCGCG---- 100
MBFV-NC_001563.2    AGGGCCC---GGUAAAAACCGGGCUGUCAAUAUGCUAAAACGCGGUAUGCCCCGCG---- 100
MBFV-NC_009942.1    AGGGCCC---GGCAAGAGCCGGGCUGUCAAUAUGCUAAAACGCGGAAUGCCCCGCG---- 100
MBFV-NC_012534.1    AAAACCC---GGGGCAACCCGGGUUGUCAAUAUGCUAAAGCGCGGUGCAUCCC------- 100
MBFV-NC_015843.2    AAGACCC---GGCUCAGGCCGGGUUGUCAAUAUGCUAAAGCGCGGAACGUCCC------- 100
MBFV-NC_034151.1    AGGACCC---GGAAAGAACCGGGUCGUUAAUAUGCUGAAGCGCACAUCCCGCGCUA---- 100
MBFV-NC_009029.2    AAGGCCC---GGUAGAAAUCGGGCCGUCAAUAUGCUAAAGCGCGGUGCGUCCCGCG---- 100
MBFV-NC_032088.1    AAAGUCC---GGCAAUCGUCGGACUGUCAAUAUGCUAAAGCGCGGAGCAUCCCGCG---- 100
MBFV-NC_000943.1    AGGACCC---GGGAAGCCCCGGGUCGUCAAUAUGCUAAAACGCGGCAUACCCCGCG---- 100
MBFV-NC_007580.2    AAAACCC---GGUAGAAACCGGGUUGUCAAUAUGCUAAAACGCGGCGUAUCCCGCG---- 100
MBFV-NC_001437.1    AGGGCCC---GGUAAAAACCGGGCUAUCAAUAUGCUGAAACGCGGCCUACCCCGCG---- 100
MBFV-NC_008719.1    CAAGUCUCGGGUC--ACGACCCGGGGCGUCAAUAUGGUGACGGCCAAGGC-------CA- 100
MBFV-NC_012735.1    UAAGUCUCGGGUCUCGAUCCCGAGGCGUCAAUAUGGUAG--CGGCUAGAGU-------GA- 100
MBFV-NC_002031.1    UAAAGCUCAGGGAAAAACCCUGGGCGUCAAUAUGGUACGACGAGGAGUUCGCUCCUUGU- 100
TBFV-NC_003687.1    AAAGGAAAGGGGGGCGGUCCCCCUAGGCGCAAGCUUAAAGUGACCGCAAAUAAGU----- 100
TBFV-NC_027709.1    AAAGGUAAGGGGGGCGGUCCCCCUCGACGAGUGUCGAAAGAGACCGCAA----------- 100
TBFV-NC_001809.1    AAAGGCAAGGGGGGCGGUCCCCCUCGACGAGUGUCGAAAGAGACCGCGA----------- 100
TBFV-NC_003690.1    AAAGGAAAGGGGGGGGGUCCCCCUCGACGAGCGUCGAAAGUGGCCCCAA----------- 100
TBFV-NC_001672.1    AAAGGUAAGGGGGGCGGUCCCCCUCGACGAGUGUCGAAAGAGACCGCAA----------- 100
TBFV-NC_005062.1    AAAGGAAAGGGGGGCGGUCCCCCUCGACGAGUGUCGAAAGAGACCGCUA----------- 100
                    0........70........80........90........100.......110.......1
```

```
                    ..............................)))))))))))).))))........)).)).. 
MBFV-NC_012532.1    --NNNNNNNCC-CCGGAAAACGCAAAACAGCAUAUUGACG--UGGGA--AAGACCAGAGA 153
MBFV-NC_035889.1    --NNNNNNN-C-CCGGAAAACGCAAAACAGCAUAUUGACG-CUGGGA--AAGACCAGAGA 153
MBFV-NC_001477.1    --NNNNNNNCC-CGCACAACAA-CAAACAGCAUAUUGACG-CUGGGA--GAGACCAGAGA 153
MBFV-NC_001475.2    --NNNNNNNCC-CCCGCAAAUA-AAAACAGCAUAUUGACG-CUGGGA--GAGACCAGAGA 153
MBFV-NC_001474.2    --NNNNNNNCC-CCCGAAACAA-AAAACAGCAUAUUGACG-CUGGGA--AAGACCAGAGA 153
MBFV-NC_002640.1    AANNNNNNNCC-CCCCAACACA-AAAACAGCAUAUUGACG-CUGGGA--AAGACCAGAGA 153
MBFV-NC_012533.1    CCNNNNNNNAU-AACCAA--CAUAAAACAGCAUAUUGACACCUGGGA--AAGACCGGAGA 153
MBFV-NC_009026.2    --NNNNNNN--ACGCACCAAAAGA-AACAGCAUAUUGACACCUGGGA--UAGACCGGAGA 153
MBFV-NC_009028.2    --NNNNNNN-CAAGCGCGAA-ACA-AACAGCAUAUUGACGCCUGGGA--AAGACCGGGAG 153
MBFV-NC_040776.1    --NNNNNNN--AAGCGCAAAGACA-AACAGCAUAUUGACACCUGGGA--AAGACCGGGAG 153
MBFV-NC_006551.1    --NNNNNNN-UAAGCAUCAAAA-A-AACAGCAUAUUGACACCUGGGAAUUAGACUAGGAG 155
MBFV-NC_001563.2    --NNNNNNN-AAACACCAAAAG-A-AACAGCAUAUUGACACCUGGGA--UAGACUAGGGG 153
MBFV-NC_009942.1    --NNNNNNN-AACACCACAACA-A-AACAGCAUAUUGACACCUGGGA--UAGACUAGGAG 153
MBFV-NC_012534.1    --NNNNNNN-AAC-ACCAAAACAA-AACAGCAUAUUGACACCUGGGA--GAGACUAGGAG 153
MBFV-NC_015843.2    --NNNNNNN-GAA-CACCACAAGA-AACAGCAUAUUGACACCUGGGA--UAGACUAGGAG 153
MBFV-NC_034151.1    --NNNNNNNGAACGCAAAUAAAAA-CAGCAUAUUGACACCU--GGGA--UAGACUGGGAG 153
MBFV-NC_009029.2    --NNNNNNN--AGCGCAAACACAA-AACAGCAUAUUGACACCUGGGA--AAGACUAGGGG 153
MBFV-NC_032088.1    --NNNNNNN--UACCGCAAAACAA-AACAGCAUAUUGACACCUGGGA--UAGACUAGGAG 153
MBFV-NC_000943.1    --NNNNNNNAA---AAGCAUCAAACAACAGCAUAUUGACACCUGGGAA-AAGACUAGGAG 154
MBFV-NC_007580.2    --NNNNNNNCCGUUAAC-GCAAA-CAACAGCAUAUUGACACCUGG--A-AAGAC-AGGAG 152
MBFV-NC_001437.1    --NNNNNNN------------------CAUAUUG---ACACCUGGGAA-UAGACUGGGAG 136
MBFV-NC_008719.1    --NNNNNNNCCGAGCAC-UAUAG-C-GGACCAUAUUGACGCCUGGGA--AAGACCGGAGA 153
MBFV-NC_012735.1    --NNNNNNNCCGAGCACACAUAG-C-GGACCAUAUUGACGCCAGGGA--AAGACCGGAGA 154
MBFV-NC_002031.1    --NNNNNNN-AGGGAACAAAUAG-UGGGACCAUAUUGACGCCAGGGA--AAGACCGGAGU 154
TBFV-NC_003687.1    --NNNNNNN-AUUUUUCCGCCUCCU-AUACUAAAUUUCCCCCAGGAAACUGGGGGGGCGG 156
TBFV-NC_027709.1    --NNNNNNNGAUUUUUCCUCCUCCU-AUACCAAA-UUCCCCCUCGACAGAGGGGGGGCGG 156
TBFV-NC_001809.1    --NNNNNNNG-UUUUUCCUCCUCCU-AUACCAAAUUUCCCCCUCGACAGAGGGGGGGCGG 156
TBFV-NC_003690.1    --NNNNNNNGAUAUUUCCUCCUCCU-AUACCAAA-UUCCCCCUCGUCAGAGGGGGGGCGG 156
TBFV-NC_001672.1    --NNNNNNN---------------U-AUACAAAA-UUCCCCCUCGGUAGAGGGGGGGCGG 141
TBFV-NC_005062.1    --NNNNNNN---------------U-AUACCAAA-UUCCCCCUCAUCUGAGGGGGGGCGG 141
                    20.......130.......140.......150.......160.......170.......1
```

```
                    .)))........................... 
MBFV-NC_012532.1    CUCCAUGAGUUUCC----------------- 167
MBFV-NC_035889.1    CUCCAUGAGUUUCC----------------- 167
MBFV-NC_001477.1    UCCUGCUGUCUCUA----------------- 167
MBFV-NC_001475.2    UCCUGCUGUCUCCU----------------- 167
MBFV-NC_001474.2    UCCUGCUGUCUCCU----------------- 167
MBFV-NC_002640.1    UCCUGCUGUCUCUG----------------- 167
MBFV-NC_012533.1    CUCUGUUGGCUUUC----------------- 167
MBFV-NC_009026.2    AUUUGCUGCCUCG-C---------------- 167
MBFV-NC_009028.2    AUCCUCUGCUUUC-C---------------- 167
MBFV-NC_040776.1    ACCCUCUGCUCUG-C---------------- 167
MBFV-NC_006551.1    AUCUUCUGCUCU------------------ 167
MBFV-NC_001563.2    AUCUUCUGCUCUG-C---------------- 167
MBFV-NC_009942.1    AUCUUCUGCUCUG-C---------------- 167
MBFV-NC_012534.1    ACCCUCUGUCCUA-A---------------- 167
MBFV-NC_015843.2    ACCCUCUGUCCUA-A---------------- 167
MBFV-NC_034151.1    ACCCUCUGCUUAU-U---------------- 167
MBFV-NC_009029.2    AUUUGCUGCUCUG-G---------------- 167
MBFV-NC_032088.1    AUCCGCUGCUCUG-G---------------- 167
MBFV-NC_000943.1    AUCUUCUGCUCUA------------------ 167
MBFV-NC_007580.2    AUCCCCUGCUUUUUC---------------- 167
MBFV-NC_001437.1    AUCUUCUGCUCUAUCUCAACAUCAGCUACUA 167
MBFV-NC_008719.1    CACUCCUUGAUUCU----------------- 167
MBFV-NC_012735.1    CACUCCUUGAUUC------------------ 167
MBFV-NC_002031.1    GGUUCUCUGCUU-U----------------- 167
TBFV-NC_003687.1    UUCUUGUUCUC-------------------- 167
TBFV-NC_027709.1    UUCUUGUUCUC-------------------- 167
TBFV-NC_001809.1    UUCUUGUUCUC-------------------- 167
TBFV-NC_003690.1    UUCUUGUUCUC-------------------- 167
TBFV-NC_001672.1    UUCUUGUUCUCCCCUG-----AGCCACCAUCA 167
TBFV-NC_005062.1    UUCUUGUUCUCCCCUG-----AGCCACCAUCA 167
                    80.......190.......200.........
```