

MBFV-NC_034151.1 ----UGAAUA-----GUUUUUUGAACAGAGGUGAAAACCAUGUCU---AAAAAACCCAGGA 48
MBFV-NC_012534.1 ----AGUUUGAAC--GUUUUUUGGAGAGA---GAUUAUUUGUUUAACAAAAAACCCAGGA 51
MBFV-NC_015843.2 ----AGUUUGAAC--GUUUUUUGGAUAGA---GACAACUAGUCUAACAAAAAACCCAGGA 51
MBFV-NC_009029.2 ACACAGUGUGAACAAGUUUUUUGAACAG-----CAAUGACC---AAAAAACCCAGGA 48
MBFV-NC_032088.1 ----AGUGUGAACAAAGUUUUUUGAUCAGUGG-----AUAUAGACU---AAAAAACCCAGGA 48
MBFV-NC_009026.2 -----UCGAGGAAAGACGAGAAGCGAAUUCUCUG---AAUGGCU---AGAAAAACCAGGA 48
MBFV-NC_007580.2 -----GCGAACAGUUUUUAGC--AGGGAAUUAACCCAAUGUCU---AAAAAACCCAGGA 48
MBFV-NC_001563.2 -----U-GCGAGCUGUUUCUUGGC--ACGAAGAUCU-CGAUGUCU---AAGAAACCAGGA 48
MBFV-NC_009942.1 -----U-GCGAGCUGUUUCUAGC--ACGAAGAUCU-CGAUGUCU---AAGAAACCAGGA 48
MBFV-NC_009028.2 -----U-CUGAAUAGUUUUUAGC-A-AGGGAUUUCCCAUGUCU---AAAAAACCCAGGA 48
MBFV-NC_040776.1 -----U-CUGAAUAGUUUUUAGC-A-GAGGUACUACCAUGUCU---AAAAAACCCAGGA 48
MBFV-NC_000943.1 -----UGAACAGUUUUUUGGAGCUUUUGAUUUCAAUUGUCU---AAAAAACCCAGGA 48
MBFV-NC_006551.1 -----GCCGGCAGUUUCUUGAGC-GUUGAUUUUCAAUGUCU---AAGAAACCAGGA 48
MBFV-NC_001437.1 -----UUA AACAGUUUUUAGA-ACGGAAGAUAAACCAUGACU---AAAAAACCCAGGA 48
MBFV-NC_002640.1 -----UGUUUGAAUAGA---GAGCAGAUCUCUGGAAAAAUG---AA--CCAACGAAAAA 46
MBFV-NC_001474.2 ACAGUUUUUUAUAGA---GAGCAGAUCUCUG-----AUGAAUA--CCAACGGAAAA 49
MBFV-NC_001477.1 AACAGUUUUUUAUAGA---GAGCAGAUCUCUG-----AUGAACAA--CCAACGGAAAA 49
MBFV-NC_001475.2 GACAGUUUUUUAUAGA---GAGCAGAUCUCUG-----AUGAACAA--CCAACGGAAGA 49
MBFV-NC_012532.1 ----AUUUGGAUUUGGA---AACGAGAG-UUUCUGGUCUGAAAAAACCCCAAAGAAGAA 51
MBFV-NC_035889.1 ----UUUGGAUUUGGA---AACGAGAG-UUUCUGGUCUGAAAAAACCCCAAAGAAGAA 50
MBFV-NC_012533.1 ----GUGUUGAGAAAGA---AAACAGAU-UCUUCGGAAAUGAAAA--CCCAAAAAAGG- 48
MBFV-NC_008719.1 ---AAAGGGUAGAGA-----AAAGGAGUUUGCUUCU AUGGCAACAAGAGGAGCAAGC 51
MBFV-NC_012735.1 ---AAGGUAAGAGA-----AAAGGAGAUUCAUCCCAUGGCAACAAGGGGAUGAAU 51
MBFV-NC_002031.1 UUGAGCGAUUAGCAG-----AGAACUGACCAGAAC-----AUGUC-----UGGUCGU 42
TBFV-NC_001672.1 AAAGACAGCUUAGGAGA---ACAAGAGCUGGGG-----AUGGUCAAGAAGGCCAUCCUG 51
TBFV-NC_005062.1 AAAGACAGCUUAGGAGA---ACAAGAGCUGGGG-----AUGGCCGGGAAGGCCAUUCUG 51
TBFV-NC_003690.1 AAAGACAGCUUAGGAGA---ACAAGAGCUGGGA-----AUGGCCGGGAAGGCCGUUCUA 51
TBFV-NC_001809.1 AAAGACAGCUUAGGAGA---ACAAGAGCUGGGG-----AUGGGCAGGAAGACCAUCCUG 51
TBFV-NC_027709.1 AAAGACAGCUUAGGAGA---ACAAGAGCUGGGG-----AUGGGCAGGAAGACCAUCCUG 51
TBFV-NC_003687.1 -----AGCUUAGGAGA---ACAAGAGCUGGGGAGUGGUUAUG-----AUGACCACUUCU 45
.....10.....20.....30.....40.....50.....6



.....((((((((((((.....
MBFV-NC_034151.1 GGACCC---GGAAAGAACCGGGUCGUUAAUAUUGCUGAAGCGCACAUCCCGCGCUA----- 100
MBFV-NC_012534.1 AAACCC---GGGGCAACCCGGGUUGUCAAUAUUGCUGAAAGCGCGGUGCAU---CCC----- 100
MBFV-NC_015843.2 AGACCC---GGGUCAGGCGGGUUGUCUAAUUGCUGAAAGCGCGGAACGU---CCC----- 100
MBFV-NC_009029.2 AGGCCC---GGUAGAAAUCGGGCCGUCUAAUAUUGCUGAAAGCGCGGGUGCGUCCCGCG----- 100
MBFV-NC_032088.1 AAGUCC---GGCAAUCGUCGGACUGUCUAAUAUUGCUGAAAGCGCGGAGCAUCCCGCG----- 100
MBFV-NC_009026.2 AGACCC---GGAGGAAACCGGGUCGUUAAUAUUGCUGAAAGCGUACGGCGGCCAACG----- 100
MBFV-NC_007580.2 AAACCC---GGUAGAAACCGGGUUGUCUAAUAUUGCUGAAAAACCGGGCGUAUCCCGCG----- 100
MBFV-NC_001563.2 GGGCCC---GGUAAAAACCGGGCUGUCUAAUAUUGCUGAAAACCGGGUAUGCCCCCGCG----- 100
MBFV-NC_009942.1 GGGCCC---GGCAAGAGCCGGGUCUGUCAAUAUUGCUGAAAACCGGGAUGCCCCCGCG----- 100
MBFV-NC_009028.2 AAGUCC---GCGUCAAGCGGGACUGUCUAAUAUUGCUGAAAACCGCGUAGCGGUGU----- 100
MBFV-NC_040776.1 GGACCC---GCCGGAAGGCGGGUUGUCUAAUAUUGCUGAAAACGCCAGCCAGCGUUU----- 100
MBFV-NC_000943.1 GGACCC---GGGAAGCCCCGGGUCGUUAAUAUUGCUGAAAACCGGGCAUACCCCGCG----- 100
MBFV-NC_006551.1 GGGCCC---GGAAGAAACCGGGCCAUCUAAUAUUGCUGAAAACCGGGCAUACCCCGCG----- 100
MBFV-NC_001437.1 GGGCCC---GGUAAAAACCGGGCAUCUAAUAUUGCUGAAAACCGGGCAUACCCCGCG----- 100
MBFV-NC_002640.1 AG--GU---G--GUUAGACACCUUUUCAAUAUUGCUGAAAACCGGAGAGAAAACCGCGUAUCA 99
MBFV-NC_001474.2 AG--GC---G--AAUACACGCCUUUCAAUAUUGCUGAAAACCGGAGAGAAAACCGCGUGU-- 100
MBFV-NC_001477.1 AG--AC---G--GGUCGACCGUCUUUCAAUAUUGCUGAAAACCGCGGAGAAAACCGCGUGU-- 100
MBFV-NC_001475.2 AG--AC---G--GGAAAAACGUCUUAUCUAAUAUUGCUGAAAACCGCGUGAGAAAACCGUGUGU-- 100
MBFV-NC_012532.1 AU--CC---GGAGGA-UCCGGAUUGUCUAAUAUUGCUGAAAACCGGGAGUAGCCCCGUG----- 100
MBFV-NC_035889.1 AU--CC---GGAGGAUUCGGAUUGUCUAAUAUUGCUGAAAACCGGGAGUAGCCCCGUG----- 100
MBFV-NC_012533.1 -----GCCGACUCGCGGCCUAUCUAAUAUUGCUGAAAACCGGGCAUUGGAUUCGAGCGUGGC 99
MBFV-NC_008719.1 AAGUCUCGGG-UC-ACGACCCGGGGCGUCAUAUUGGUGACGGCCAAGGC-----CA-- 100
MBFV-NC_012735.1 AAGUCUCGGGUCGUAUCCCGAGGCGUCUAAUAUUGGUAG---CGGCUAGAGU-----GA-- 100
MBFV-NC_002031.1 AAAGCUCAGGGAACAAACCCUGGGCGUCUAAUAUUGGUACGACGAGGAGUUCGUCCUUGU-- 100
TBFV-NC_001672.1 AAAGGUAAGGGGGGGCGGUCCCCUCGACGAGUGUCGAAAGAGACCGCAA----- 100
TBFV-NC_005062.1 AAAGGAAAGGGGGGGCGGUCCCCUCGACGAGUGUCGAAAGAGACCGCUA----- 100
TBFV-NC_003690.1 AAAGGAAAGGGGGGGGGUCCCCUCGACGAGCGUCGAAAGAGGCCCCAA----- 100
TBFV-NC_001809.1 AAAGGCAAGGGGGGGCGGUCCCCUCGACGAGUGUCGAAAGAGACCGCGA----- 100
TBFV-NC_027709.1 AAAGGUAAGGGGGGGCGGUCCCCUCGACGAGUGUCGAAAGAGACCGCAA----- 100
TBFV-NC_003687.1 AAAGGAAAGGGGGGGCGGUCCCCUAGCGCAAGCUUAAAGUGACCGCAAUAAGU----- 100
0.....70.....80.....90.....100.....110.....1



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MBFV-NC_034151.1 -NNNNNNNN-GAACGCAAAUA-AAAACAGCAUAUUGACAC-CUGGGA--UAGACUGGGGAGA 154
MBFV-NC_012534.1 -NNNNNNNN-AACACCAAAAC-AAAACAGCAUAUUGACAC-CUGGGA--GAGACUAGGAGA 154
MBFV-NC_015843.2 -NNNNNNNN-GAACACCACA-AAAACAGCAUAUUGACAC-CUGGGA--UAGACUAGGAGA 154
MBFV-NC_009029.2 -NNNNNNNN-AGCGCAACAC-AAAACAGCAUAUUGACAC-CUGGGA--AAGACUAGGGGA 154
MBFV-NC_032088.1 -NNNNNNNN-UACCGCAAAAC-AAAACAGCAUAUUGACAC-CUGGGA--UAGACUAGGAGA 154
MBFV-NC_009026.2 -NNNNNNNN-ACGCACCAAAA-GAAACAGCAUAUUGACAC-CUGGGA--UAGACCGGAGAA 154
MBFV-NC_007580.2 -NNNNNNNNNCCGUUAACGCAA-ACAACAGCAUAUUGACAC-CUGG--AAAGACAGGAGA 153
MBFV-NC_001563.2 -NNNNNNNN-AAACACCAAAA-GAAACAGCAUAUUGACAC-CUGGGA--UAGACUAGGGGA 154
MBFV-NC_009942.1 -NNNNNNNN-AAACACCACA-AAAACAGCAUAUUGACAC-CUGGGA--UAGACUAGGAGA 154
MBFV-NC_009028.2 -NNNNNNNNCAAGCGCGAA-A-CAAACAGCAUAUUGACGC-CUGGGA--AAGACCGGGAGA 154
MBFV-NC_040776.1 -NNNNNNNN-AAGCGCAAGAA-CAAACAGCAUAUUGACAC-CUGGGA--AAGACCGGGAGA 154
MBFV-NC_000943.1 -NNNNNNNNAAAAAG-CAUCAA-ACAACAGCAUAUUGACAC-CUGGGAA-AAGACUAGGAGA 155
MBFV-NC_006551.1 -NNNNNNNNUAAGC-AUCAAA-AAAACAGCAUAUUGACAC-CUGGGAAUUGACUAGGAGA 156
MBFV-NC_001437.1 -NNNNNNNN-----CAUAUUGACAC-CUGGGAA-UAGACUGGGAGA 137
MBFV-NC_002640.1 ANNNNNNNNNCCCCCAACACA-AAAACAGCAUAUUGACG--CUGGGA--AAGACCAGAGAU 154
MBFV-NC_001474.2 -NNNNNNNNNCCCCGAAACAA-AAAACAGCAUAUUGACG--CUGGGA--AAGACCAGAGAU 154
MBFV-NC_001477.1 -NNNNNNNNNCCCGCAACAA-CAAACAGCAUAUUGACG--CUGGGA--GAGACCAGAGAU 154
MBFV-NC_001475.2 -NNNNNNNNNCCCCGCAAAUA-AAAACAGCAUAUUGACG--CUGGGA--GAGACCAGAGAU 154
MBFV-NC_012532.1 -NNNNNNNNNCCCCGGAACGCAAAACAGCAUAUUGACG--UGGGA--AAGACCAGAGAC 154
MBFV-NC_035889.1 -NNNNNNNN-CCCGGAAACGCAAA--ACAGCAUAUUGACGCGGGA--AAGACCAGAGAC 154
MBFV-NC_012533.1 CNNNNNNNNA--UAACCAACAUA AAAACAGCAUAUUGACAC-CUGGGA--AAGACCGGAGAC 154
MBFV-NC_008719.1 -NNNNNNNNCCGAGCAC-UUAUAGC-GGACCAUAUUGACGC-CUGGGA--AAGACCGGAGAC 154
MBFV-NC_012735.1 -NNNNNNNNNCCGAGCACACAUAGC-GGACCAUAUUGACGC-CAGGGA--AAGACCGGAGAC 155
MBFV-NC_002031.1 -NNNNNNNN-AGGGAACAAUAGUGGACCAUAUUGACGC-CAGGGA--AAGACCGGAGUG 155
TBFV-NC_001672.1 -NNNNNNNN-----UAUACAAA-UUCCCCCUCG-----UAGAGGGGGGGG 139
TBFV-NC_005062.1 -NNNNNNNN-----UAUACAAA-UUCCCCCUCU-----CUGAGGGGGGGG 139
TBFV-NC_003690.1 -NNNNNNNNNGAUUUUCCUCCUCCUAUACCAA-UUCCCCCUCU-----CAGAGGGGGGGG 154
TBFV-NC_001809.1 -NNNNNNNNNG-UUUUCCUCCUCCUAUACCAAUUUCCCCCUCG-----CAGAGGGGGGGG 154
TBFV-NC_027709.1 -NNNNNNNNNGAUUUUCCUCCUCCUAUACCAA-UUCCCCCUCG-----CAGAGGGGGGGG 154
TBFV-NC_003687.1 -NNNNNNNN-AUUUUUCCGCCUCCUAUACUAAAUUCCCCCAGGA-----AACUGGGGGGGG 154
20.....130.....140.....150.....160.....170.....1



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MBFV-NC_034151.1 CCCUCUGC-UUAUU----- 167
MBFV-NC_012534.1 CCCUCUGU-CCUAA----- 167
MBFV-NC_015843.2 CCCUCUGU-CCUAA----- 167
MBFV-NC_009029.2 UUUGCUGC-UCUGG----- 167
MBFV-NC_032088.1 UCCGUGC-UCUGG----- 167
MBFV-NC_009026.2 UUUGCUGCCUC-GC----- 167
MBFV-NC_007580.2 UCCUCUGCUUUUUC----- 167
MBFV-NC_001563.2 UCUUCUGC-UCUGC----- 167
MBFV-NC_009942.1 UCUUCUGC-UCUGC----- 167
MBFV-NC_009028.2 UCCUCUGC-UUUC----- 167
MBFV-NC_040776.1 CCCUCUGC-UCUGC----- 167
MBFV-NC_000943.1 UCUUCUGCUCU--A----- 167
MBFV-NC_006551.1 UCUUCUGCUCU----- 167
MBFV-NC_001437.1 UCUUCUGCUCUAUCUCAACAUCAGCUACUA 167
MBFV-NC_002640.1 CCUGCUGUCUCUG----- 167
MBFV-NC_001474.2 CCUGCUGUCUCCU----- 167
MBFV-NC_001477.1 CCUGCUGUCUCUA----- 167
MBFV-NC_001475.2 CCUGCUGUCUCCU----- 167
MBFV-NC_012532.1 UCCAUGAGUUUCC----- 167
MBFV-NC_035889.1 UCCAUGAGUUUCC----- 167
MBFV-NC_012533.1 UCUGUUGGCUUUC----- 167
MBFV-NC_008719.1 ACUCCUUGAUUC----- 167
MBFV-NC_012735.1 ACUCCUUGAUUC----- 167
TBFV-NC_002031.1 GUUCUCUGCUU-U----- 167
TBFV-NC_001672.1 GGUUCUUGUUCUCCUG--AGCCACCAUCA 167
TBFV-NC_005062.1 GGUUCUUGUUCUCCUG--AGCCACCAUCA 167
TBFV-NC_003690.1 GGUUCUUGUUCUC----- 167
TBFV-NC_001809.1 GGUUCUUGUUCUC----- 167
TBFV-NC_027709.1 GGUUCUUGUUCUC----- 167
TBFV-NC_003687.1 GGUUCUUGUUCUC----- 167
80.....190.....200.....

