

MBFV-NC_034151.1 -----UGAAUAGUUUUUU-**GAACAAGAGG**GUGAAAACCC-----**AUG**UCU---AAAAAAC 43
MBFV-NC_009028.2 -----UCUGAAUAGUUUUUU-AGCAAG**GGA**-UUUCCC-----**AUG**UCU---AAAAAAC 43
MBFV-NC_040776.1 -----UCUGAAUAGUUUUUU-AGCA**GAGG**U-ACUACC-----**AUG**UCU---AAAAAAC 43
MBFV-NC_000943.1 -----UGAACAGUUUUUUGGAGCUUUUGAUUU-CAA-----**AUG**UCU---AAAAAAC 43
MBFV-NC_006551.1 -----GCCGGCAGUUUCUUUGAGC-**GU**UGAUUU-UCA-----**AUG**UCU---AAGAAAC 43
MBFV-NC_001563.2 -----UGCGAGCUGUUUCUUGGCAC-**GAAGAUCU**-C-G-----**AUG**UCU---AAGAAAC 43
MBFV-NC_009942.1 -----UGCGAGCUGUUUCUUGACAC-**GAAGAUCU**-C-G-----**AUG**UCU---AAGAAAC 43
MBFV-NC_007580.2 -----GCGAACAGUUUUUU-AGC**AGGG**AAUUAACCCA-----**AUG**UCU---AAAAAAC 43
MBFV-NC_009026.2 -----UCG-----AGGAAAGACGAGA**AGC**GAUUCUCUGA-----**AUG**GCU---AGAAAC 43
MBFV-NC_009029.2 ACACAGUGUGAAACAAGUUUUUUGAAC**ACGA**-----**AUG**---ACCAAAAAAC 43
MBFV-NC_032088.1 ----AGUGUGAAACAAGUUUUUUGAUC**AGUG**-GAUA-----**AUG**---ACUAAAAAAC 43
MBFV-NC_012534.1 ----AGUUUGAAC--GUUUUUUGGAGAG**AGAU**UAUU-----**AUG**UUUAACAAAAAAC 46
MBFV-NC_015843.2 ----AGUUUGAAC--GUUUUUUGGAUAGAG**ACAACU**-----**AUG**CUAAACAAAAAAC 46
MBFV-NC_001437.1 -----UUAAACAGUUUUUUAGAAC**GGA**GAUAA--CC-----**AUG**ACU---AAAAAAC 43
MBFV-NC_012532.1 -----AUUUGGAUUU--GGAAAC**GAGAG**-UUUCUGG-UCAUGAAAAACCCCAAAG 46
MBFV-NC_035889.1 -----UUUUGGAUUU--GGAAC**GAGAG**-UUUCUGG-UCAUGAAAA-CCCAAA 45
MBFV-NC_002640.1 -----UGUUUGAAUAGAGAG**AGCAGA**-UCUCUGGAAAA**UG**---AA--CCAACG 41
MBFV-NC_001477.1 -----AACAGUUUUUUAAUAGAG**AGCAGA**-UCUCUG-----**AUG**AACAA--CCAACG 44
MBFV-NC_001475.2 -----GACAGUUUUUUAAUAGAG**AGCAGA**-UCUCUG-----**AUG**AACAA--CCAACG 44
MBFV-NC_001474.2 -----ACAGUUUUUUAAUAGAG**AGCAGA**-UCUCUG-----**AUG**AUAA--CCAACG 44
MBFV-NC_012533.1 -----GUGUUGAGAAAGAA**AGCAGA**UUCUUCGGAA--**AUG**AA-----AACC 39
MBFV-NC_002031.1 -----UUGAGCGAUUAGCAGAG**AGACG**AGACCAU**AGUC**-----**AUG**-----UG 37
MBFV-NC_008719.1 -----AAAGGUAAGAGAA**AGGAGU**UUUUGCUUCAUGGCAACAAGAGGAG 46
MBFV-NC_012735.1 -----AAGGAGUAGAAGAA**AGGAGAU**UCAUUC**CCAAUGG**CAACAAGGGGA 46
TBFV-NC_001809.1 -----AAAGACAGCUUAGGAGAA**CAAGAGC**UGGGG-----**AUGG**-----G 35
TBFV-NC_027709.1 -----AAAGACAGCUUAGGAGAA**CAAGAGC**UGGGG-----**AUGG**-----G 35
TBFV-NC_003690.1 -----AAAGACAGCUUAGGAGAA**CAAGAGC**UGGGA-----**AUGG**-----C 35
TBFV-NC_001672.1 -----AAAGACAGCUUAGGAGAA**CAAGAGC**UGGGG-----**AUGG**-----U 35
TBFV-NC_005062.1 -----AAAGACAGCUUAGGAGAA**CAAGAGC**UGGGG-----**AUGG**-----C 35
TBFV-NC_003687.1 -----AGCUUAGGAGAA**CAAGAGC**UGGGGAGUGGU**UAUG**----- 33
.....10.....20.....30.....40.....50.....6



MBFV-NC_034151.1 CAGGAGGACCC--GGAAAGAACCGGGGUCGU**UAUAUGC**----GAAGCGCACAUCCCGC 96
MBFV-NC_009028.2 CAGGAAAGUCC--GCUGCAAAGCGGACUGU**CAUAUGCU**----AAAACGCCUGGCUAGC 96
MBFV-NC_040776.1 CAGGAGGACCC--GCGGAAGCGGGGUUGU**CAUAUGCU**----GAAACGCCAGCCAGC 96
MBFV-NC_000943.1 CAGGAGGACCC--GGGAAGCCCCGGGUCGU**CAUAUGCU**----AAAACGCGGCAUACCC 96
MBFV-NC_006551.1 CAGGAGGGCCC--GGAAGAAACCGGGCCAU**CAUAUGCU**----GAAACGCGGCAUACCC 96
MBFV-NC_001563.2 CAGGAGGGCCC--GGUAAAAACCGGGCUGU**CAUAUGCU**----AAAACGCGGUAUGCCC 96
MBFV-NC_009942.1 CAGGAGGGCCC--GGCAAGAGCCGGGCU**CAUAUGCU**----AAAACGCGGAUUGCCC 96
MBFV-NC_007580.2 CAGGAAAACCC--GGUAGAAAACCGGGUUGU**CAUAUGCU**----AAAACGCGGCGUAUCC 96
MBFV-NC_009026.2 CAGGAAGACCC--GGAGGAAACCGGGGCU**CAUAUGCU**----AAAGCGUACGGCGGCC 96
MBFV-NC_009029.2 CAGGAAGGCC--GGUAGAAACCGGGCCU**CAUAUGCU**----AAAGCGCGGUGCGUCC 96
MBFV-NC_032088.1 CAGGAAAGUCC--GGCAAUCGUCGGACUGU**CAUAUGCU**----AAAGCGCGGAGCAUCC 96
MBFV-NC_012534.1 CAGGAAAACCC--GGGCAACCCGGGUUGU**CAUAUGCU**----AAAGCGCGGUGCAUCC 99
MBFV-NC_015843.2 CAGGAAGACCC--GGCUCAGGCGGGGUUGU**CAUAUGCU**----AAAGCGCGGAACGUCC 99
MBFV-NC_001437.1 CAGGAGGGCCC--GGUAAAAACCGGGCU**CAUAUGCU**----GAAACGCGGCCUACCC 96
MBFV-NC_012532.1 AAGAAAU**C**-C--GGAGGA-UCCGGAUUGU**CAUAUGCU**----AAAACGCGGAGUAGCC 96
MBFV-NC_035889.1 AAGAAAU**C**-C--GGAGGAUUCGGAUUGU**CAUAUGCU**----AAAACGCGGAGUAGCC 96
MBFV-NC_002640.1 AAAAAAGG-U--GGUUGAGAC--ACCUU**CAUAUGCU**----GAAACGCGAGAGAAAC 90
MBFV-NC_001477.1 GAAAAAGA-C--GGGUCGACC--GUCUU**CAUAUGCU**----GAAACGCGCGAGAAAC 93
MBFV-NC_001475.2 GAAGAAGA-C--GGGAAAAC--GUCUA**CAUAUGCU**----GAAACGCGUGAGAAAC 93
MBFV-NC_001474.2 GAAAAAGG-C--GAAAAACAC--GCCUU**CAUAUGCU**----GAAACGCGAGAGAAAC 93
MBFV-NC_012533.1 CAAAAAAG-G--GCCGAGACCGGGCU**CAUAUGCU**----GAAACGCGGUUGAUUC 90
MBFV-NC_002031.1 GUCGUAAAGCUCAGGGAA**AAACCCUGGGCGU**CAUAUGGU--GA--CGACGAGGAGUU 90
MBFV-NC_008719.1 CAAGCAAGUCUCGGGUCACGACCCCGGGGCGU**CAUAUGGU**----GA--CGGCCAA-- 95
MBFV-NC_012735.1 UGAAUAAGUCUCGGGUCUGAACCCGAGGCGU**CAUAUGGU**----AG--CGGCUAG-- 95
TBFV-NC_001809.1 CAGGAAGACCAUCCUGAAAGGCAAGGGGGGCG**GUCCCCUC**GACGAGUGUCGAAAGAGAC 95
TBFV-NC_027709.1 CAGGAAGUCCAUCCUGAAAGGUAAGGGGGGCG**GUCCCCUC**GACGAGUGUCGAAAGAGAC 95
TBFV-NC_003690.1 CGGGAAGGCCGUCUCAA**AAAGGAAAGGGGGGCG**GUCCCCUCGACGAGCUGCGAAAGUGGC 95
TBFV-NC_001672.1 CAAGAAGGCCAUCCUGAAAGGUAAGGGGGGCG**GUCCCCUC**GACGAGUGUCGAAAGAGAC 95
TBFV-NC_005062.1 CGGGAAGGCCAUUCUGAAAGGAAAGGGGGGCG**GUCCCCUC**GACGAGUGUCGAAAGAGAC 95
TBFV-NC_003687.1 ----AUGACCACUUCUAAAGGAAAGGGGGGCG**GUCCCCUC**AGGCGCAAGCUUAAAGUGAC 89
0.....70.....80.....90.....100.....110.....1



MBFV-NC_034151.1 GCUA-----NNNNNNNGAA-CGCAAA-UAAAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145
MBFV-NC_009028.2 GUGU-----NNNNNNNCAAGCGCGAA--ACAAAC**AGCAUAUUG**ACGCCUGGGA--AAG 145
MBFV-NC_040776.1 GUUU-----NNNNNNN--AAGCGCAAA-GACAAAC**AGCAUAUUG**ACACCUGGGA--AAG 145
MBFV-NC_000943.1 CGCG-----NNNNNNNAAAGCAUC--AAACAAC**AGCAUAUUG**ACACCUGGGA--AAG 146
MBFV-NC_006551.1 CGCG-----NNNNNNN--UAAGCAUCA-AAAAAAC**AGCAUAUUG**ACACCUGGGAUUAG 147
MBFV-NC_001563.2 CGCG-----NNNNNNNAAACACC-AA-AAGAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145
MBFV-NC_009942.1 CGCG-----NNNNNNNAAACACCA-CA-ACAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145
MBFV-NC_007580.2 CGCG-----NNNNNNNCCGUUAACG-**AAACAACAGCAUAUUG**ACACCUGGGA--AG 145
MBFV-NC_009026.2 AACG-----NNNNNNN--ACGCACCA-AAGAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145
MBFV-NC_009029.2 CGCG-----NNNNNNN--AGCGCAAC-ACAAAC**AGCAUAUUG**ACACCUGGGA--AAG 145
MBFV-NC_032088.1 CGCG-----NNNNNNN--UACGCAAA-ACAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145
MBFV-NC_012534.1 C-----NNNNNNN--AACACCAA-ACAAAC**AGCAUAUUG**ACACCUGGGA--GAG 145
MBFV-NC_015843.2 C-----NNNNNNNNGAACACCACA-A-GAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145
MBFV-NC_001437.1 CGCG-----NNNNNNN-----CAUAU**UGACACCUGGGA**-UAG 128
MBFV-NC_012532.1 CGUG-----NNNNNNNCCCCGGA**AAACGC**AAAC**AGCAUAUUG**AC--GUGGGA--AAG 145
MBFV-NC_035889.1 CGUG-----NNNNNNN--CCC**GGA**AAAC**GC**AAAC**AGCAUAUUG**AC--GCUGGGA--AAG 145
MBFV-NC_002640.1 CGCGUAU-CAANNNNNNNCCCCCAACACA-AAAAC**AGCAUAUUG**AC--GCUGGGA--AAG 145
MBFV-NC_001477.1 CGCGUGU---NNNNNNNCCCGCACAACAA-CAAAC**AGCAUAUUG**AC--GCUGGGA--GAG 145
MBFV-NC_001475.2 CGUGUGU---NNNNNNNCCCCCGCAAUA-AAAAC**AGCAUAUUG**AC--GCUGGGA--GAG 145
MBFV-NC_001474.2 CGCGUGU---NNNNNNNCCCCCGAAACAA-AAAAC**AGCAUAUUG**AC--GCUGGGA--AAG 145
MBFV-NC_012533.1 AGCGCUG-GCCNNNNNNNAUAA**CAAA**-CAUAAAC**AGCAUAUUG**ACACCUGGGA--AAG 145
MBFV-NC_002031.1 CGCUCCU-UGUNNNNNNNNAGG-**GAACAAU**AGUGGG**ACCAUAUUG**ACGCCAGGGAAAGAC 148
MBFV-NC_008719.1 ----GG-CCANNNNNNNCCGAGCAC-UAUAGC-GG**ACCAUAUUG**ACGCCUGGGAAAGAC 147
MBFV-NC_012735.1 ----AG-UGANNNNNNNCCGAGCACAUAGC-GG**ACCAUAUUG**ACGCCAGGGAAAGAC 148
TBFV-NC_001809.1 CGCGA-----ANNNNNNNG-UUUUCCCUCCUCCU**CAUACCAUUU**-CCCCCUCGACAGAG 147
TBFV-NC_027709.1 CGCAA-----NNNNNNNGAUUUUCCCUCCUCCU**CAUACCAUUU**-CCCCCUCGACAGAG 147
TBFV-NC_003690.1 CCCAA-----NNNNNNNGAUUUUCCCUCCUCCU**CAUACCAUUU**-CCCCCUCGACAGAG 147
TBFV-NC_001672.1 CGCAA-----NNNNNNN-----UAU**ACCAUUU**-CCCCCUCGUAAGAG 132
TBFV-NC_005062.1 CGCUA-----NNNNNNN-----UAU**ACCAUUU**-CCCCCUCAUUCUGAG 132
TBFV-NC_003687.1 CGCAAAUAAGUNNNNNNN-AUUUUCCGCCUCCU**CAUACCAUUU**-CCCCCAGGAAACUG 147
20.....130.....140.....150.....160.....170.....1



MBFV-NC_034151.1 .)))).)))))..... 167
MBFV-NC_009028.2 ACUGGGAGACCCUCUGCUUAUU----- 167
MBFV-NC_040776.1 ACCGGGAGAUCCUCUGCUUCC----- 167
MBFV-NC_000943.1 ACUAGGAGAUCCUUGCUCUA----- 167
MBFV-NC_006551.1 ACUAGGAGAUUUUGCUCU----- 167
MBFV-NC_001563.2 ACUAGGGGAUCUUGCUCUCUGC----- 167
MBFV-NC_009942.1 ACUAGGAGAUCCUUGCUCUCUGC----- 167
MBFV-NC_007580.2 ACAGGAGAUCCCGUCUUUUC----- 167
MBFV-NC_009026.2 ACCGGAGAAUUGCUGCCUCGC----- 167
MBFV-NC_009029.2 ACUAGGGGAUUGCUGCUCUGG----- 167
MBFV-NC_032088.1 ACUAGGAGAUCCGUCUCUCUG----- 167
MBFV-NC_012534.1 ACUAGGAGACCCUCUGUCCUAA----- 167
MBFV-NC_015843.2 ACUAGGAGACCCUCUGUCCUAA----- 167
MBFV-NC_001437.1 ACUGGGAGAUCCUUGCUCUAUCUCAACAUCAGCUACUA 167
MBFV-NC_012532.1 ACCAGAGACUCCAUGAGUUUCC----- 167
MBFV-NC_035889.1 ACCAGAGACUCCAUGAGUUUCC----- 167
MBFV-NC_002640.1 ACCAGAGAUCCUGCUGUCUCUG----- 167
MBFV-NC_001477.1 ACCAGAGAUCCUGCUGUCUCUA----- 167
MBFV-NC_001475.2 ACCAGAGAUCCUGCUGUCUCU----- 167
MBFV-NC_001474.2 ACCAGAGAUCCUGCUGUCUCU----- 167
MBFV-NC_012533.1 ACCGGAGACUCUGUUGGCUUUC----- 167
MBFV-NC_002031.1 CGGAGUGGUUCUGUCUU-U----- 167
MBFV-NC_008719.1 CGGAGACACUCCUUGAUUCU----- 167
TBFV-NC_012735.1 CGGAGACACUCCUUGAUUC----- 167
TBFV-NC_001809.1 GGGGGGCGGUUCUGUUCUC----- 167
TBFV-NC_027709.1 GGGGGGCGGUUCUGUUCUC----- 167
TBFV-NC_003690.1 GGGGGGCGGUUCUGUUCUC----- 167
TBFV-NC_001672.1 GGGGGGCGGUUCUGUUCUCCUGAGCCACCAUC----A 167
TBFV-NC_005062.1 GGGGGGCGGUUCUGUUCUCCUGAGCCACCAUC----A 167
TBFV-NC_003687.1 GGGGGGCGGUUCUGUUCUC----- 167
80.....190.....200.....210.....

