

MBFV-NC_034151.1 -----UGAAUAGUUUUUU-**GAACAAGAGG**GUGAAAACC-----**AUG**UCU---AAAAAAC 43
MBFV-NC_009028.2 -----UCUGAAUAGUUUUUU--AGCAAG**GG**A-UUUC---**AUG**UCU---AAAAAAC 43
MBFV-NC_040776.1 -----UCUGAAUAGUUUUUU--AGCA**AGG**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-**GAAGA**UCU--C-G---**AUG**UCU---AAGAAAC 43
MBFV-NC_009942.1 -----UGCGAGCUGUUUCUAGCAC-**GAAGA**UCU--C-G---**AUG**UCU---AAGAAAC 43
MBFV-NC_007580.2 -----GCGAACAGUUUUUU--AGC**AGG**GAAUACCCA-----**AUG**UCU---AAAAAAC 43
MBFV-NC_009026.2 -----UCG-----AGGAAAGACGAGA**AGC**GAUUCUCUGA-----**AUG**GCU---AGAAAC 43
MBFV-NC_009029.2 ACACAGUGUGAAACAAGUUUUUUGAAC**AGCA**-----**AUG**---ACCAAAAAAC 43
MBFV-NC_032088.1 ----AGUGUGAAACAAGUUUUUUGAU**AGUG**--GAUA-----**AUG**---ACUAAAAAAC 43
MBFV-NC_012534.1 ----AGUUUGAAC--GUUUUUUGGAG**AGAG**AUUAUU-----**AUG**UUUAACAAAAAAC 46
MBFV-NC_015843.2 ----AGUUUGAAC--GUUUUUUGGAU**AGAGACA**CU-----**AUG**CUAAACAAAAAAC 46
MBFV-NC_001437.1 -----UUAAACAGUUUUUUAGAAC**CGAAGA**UA--CC---**AUG**ACU---AAAAAAC 43
MBFV-NC_012532.1 -----AUUUGGAUUU--GGAAAC**AGAG**A-UUUCUGG--UCAUGAAAAACCCCAAAG 46
MBFV-NC_035889.1 -----UUUUGGAUUU--GGAAAC**AGAG**-UUUCUGG--UCAUGAAAA-CCCAAA 45
MBFV-NC_002640.1 -----UGUUUGAAUAGAG**AGC**AGA-UCUCUGGAAAA**UG**---AA--CCAACG 41
MBFV-NC_001477.1 -----AACAGUUUUUUAUUAGAG**AGC**AGA-UCUCUG---AUGAACAA--CCAACG 44
MBFV-NC_001475.2 -----GACAGUUUUUUAUUAGAG**AGC**AGA-UCUCUG---AUGAACAA--CCAACG 44
MBFV-NC_001474.2 -----ACAGUUUUUUAUUAGAG**AGC**AGA-UCUCUG---AUGAAUA--CCAACG 44
MBFV-NC_012533.1 -----GUGUUGAGAAAGAA**AGCAG**AUUCUUCGGAA--AUGAA-----AACC 39
MBFV-NC_002031.1 -----UUGAGCGAUUAGCAGAG**AGAC**UGACCA**CAUG**UC-----UG 37
MBFV-NC_008719.1 -----AAAGGUAGAGAA**AGAGAG**UUUUGCUUCAUGGCAACAAGAGGAG 46
MBFV-NC_012735.1 -----AAGGAGUAGAAGAA**AGG**GAGAUUCAUUC**CCAAUGG**CAACAAGGGGGA 46
TBFV-NC_001809.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----AUGG-----G 35
TBFV-NC_027709.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----AUGG-----G 35
TBFV-NC_003690.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGA-----AUGG-----C 35
TBFV-NC_001672.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----AUGG-----U 35
TBFV-NC_005062.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----AUGG-----C 35
TBFV-NC_003687.1 -----AGCUUAGGAGAA**CAAG**AGCUGGGGAGUGGUAA**UG**----- 33
.....10.....20.....30.....40.....50.....6



MBFV-NC_034151.1 CAGGAGGACCC--GGAAAGAACCGGGUCGU**UAAUAUGC**----GAAGCGCACAUCCCGC 96
MBFV-NC_009028.2 CAGGAAAGUCC--GCUGCAAAGCGGACUGU**CAUAUAUGC**----AAAACGCCUGGCUAGC 96
MBFV-NC_040776.1 CAGGAGGACCC--GCGGAAGCGGGUUGU**CAUAUAUGC**----GAAACGCCAGCCAGC 96
MBFV-NC_000943.1 CAGGAGGACCC--GGGAAGCCCCGGGUCGU**CAUAUAUGC**----AAAACGCGGCAUACCC 96
MBFV-NC_006551.1 CAGGAGGGCCC--GGAAGAAACCGGGCCA**UCAUAUAUGC**----GAAACGCGGCAUACCC 96
MBFV-NC_001563.2 CAGGAGGGCCC--GGUAAAAACCGGGCUGU**CAUAUAUGC**----AAAACGCGGUAUGCCC 96
MBFV-NC_009942.1 CAGGAGGGCCC--GGCAAGAGCCGGGCU**CAUAUAUGC**----AAAACGCGGAUUGCCC 96
MBFV-NC_007580.2 CAGGAAAACCC--GGUAGAAAACCGGGUUGU**CAUAUAUGC**----AAAACGCGGCGUAUCC 96
MBFV-NC_009026.2 CAGGAAGACCC--GGAGGAAACCGGGCUGU**CAUAUAUGC**----AAAGCGUACGGCGGCC 96
MBFV-NC_009029.2 CAGGAAGGCC--GGUAGAAACCGGGCC**UCAUAUAUGC**----AAAGCGCGGUGCGUCC 96
MBFV-NC_032088.1 CAGGAAAGUCC--GGCAAUCGUCGGACUGU**CAUAUAUGC**----AAAGCGCGGAGCAUCC 96
MBFV-NC_012534.1 CAGGAAAACCC--GGGCAACCCGGGUUGU**CAUAUAUGC**----AAAGCGCGGUGCAUCC 99
MBFV-NC_015843.2 CAGGAAGACCC--GGCUCAGGCCGGGUUGU**CAUAUAUGC**----AAAGCGCGGAACGUCC 99
MBFV-NC_001437.1 CAGGAGGGCCC--GGUAAAAACCGGGCU**CAUAUAUGC**----GAAACGCGGCCUACCC 96
MBFV-NC_012532.1 AAGAAAU**C**--C--GGAGGA-UCCGGAUUGU**CAUAUAUGC**----AAAACGCGGAGUAGCC 96
MBFV-NC_035889.1 AAGAAAU**C**--C--GGAGGAUUCGGAUUGU**CAUAUAUGC**----AAAACGCGGAGUAGCC 96
MBFV-NC_002640.1 AAAAAAGG-U--GGUUGAGAC--ACCUU**CAUAUAUGC**----GAAACGCGAGAGAAAC 90
MBFV-NC_001477.1 GAAAAAGA--C--GGGUCGACC--GUCUU**CAUAUAUGC**----GAAACGCGCGAGAAAC 93
MBFV-NC_001475.2 GAAGAAGA--C--GGGAAAAC--GUCUA**CAUAUAUGC**----GAAACGCGUGAGAAAC 93
MBFV-NC_001474.2 GAAAAAGG--C--GAAAAACAC--GCCUU**CAUAUAUGC**----GAAACGCGAGAGAAAC 93
MBFV-NC_012533.1 CAAAAAAG--G--GCCGAAGCCGGCCU**CAUAUAUGC**----GAAACGCGGUUGGAUCU 90
MBFV-NC_002031.1 GUCGUAAAGCUCAGGGAAAAACCCUGGGCGU**CAUAUAUGG**----A--CGACGAGGAGUU 90
MBFV-NC_008719.1 CAAGCAAGUCUCGGGUCACGACCCCGGGCGU**CAUAUAUGG**----GA--CGGCCAA-- 95
MBFV-NC_012735.1 UGAAUAAGUCUCGGGUCUGAACCCGAGGCGU**CAUAUAUGG**----AG--CGGCUAG---- 95
TBFV-NC_001809.1 CAGGAAGACCAUCCUGAAAGGCAAGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95
TBFV-NC_027709.1 CAGGAAGUCCAUCCUGAAAGGUAAGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95
TBFV-NC_003690.1 CGGGAAGGCCGUUCUAAAGGAAAGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGG 95
TBFV-NC_001672.1 CAAGAAGGCCAUCCUGAAAGGUAAGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95
TBFV-NC_005062.1 CGGGAAGGCCAUUCUGAAAGGAAAGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95
TBFV-NC_003687.1 ----AUGACCACUUCUAAAGGAAAGGGGGG**CGUCCCCC**UAGGCGCAAGCUUAAAGUGAC 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-----NNNNNNNAACACCA-CA-ACAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145
MBFV-NC_007580.2 CGCG-----NNNNNNNCCGUUAACG-AAACAAC**AGCAUAUUG**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--UACCGCAA-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**UG**ACACCUGGGA-UAG 128
MBFV-NC_012532.1 CGUG-----NNNNNNNCCCCGGA**AAAC**CGAAAC**AGCAUAUUG**AC--G-UGGGA--AAG 145
MBFV-NC_035889.1 CGUG-----NNNNNNN--CCC**GAAAC**CGAAAC**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-GCCNNNNNNNAUAACCA--CAUAAAC**AGCAUAUUG**ACACCUGGGA--AAG 145
MBFV-NC_002031.1 CGCUCCU-UGUNNNNNNNNAGG-GAACA**AAUAG**UGGG**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**CAUACCAAUU**-----CCCCUCGACAGAG 147
TBFV-NC_027709.1 CGCAA----NNNNNNNGAUUUUCCCUCCUCCU**CAUACCAAUU**-----CCCCUCGACAGAG 147
TBFV-NC_003690.1 CCCAA----NNNNNNNGAUUUUCCCUCCUCCU**CAUACCAAUU**-----CCCCUCGACAGAG 147
TBFV-NC_001672.1 CGCAA----NNNNNNN-----UAU**ACCAAUU**-----CCCCUCGUAAGAG 132
TBFV-NC_005062.1 CGCUA----NNNNNNN-----UAU**ACCAAUU**-----CCCCUCAUUCUGAG 132
TBFV-NC_003687.1 CGCAAAUAAGUNNNNNNN-AUUUUCCGCCUCCU**CAUACCAAUU**-----CCCCAGGAAACUG 147
20.....130.....140.....150.....160.....170.....1



MBFV-NC_034151.1 .)))).)))))..... 167
MBFV-NC_009028.2 ACUGGGAGACCCUCUGCUUAUU----- 167
MBFV-NC_040776.1 ACCGGGAGACCCUCUGCUCUGC----- 167
MBFV-NC_000943.1 ACUAGGAGAUUCUUGCUCUA----- 167
MBFV-NC_006551.1 ACUAGGAGAUUUUGCUCUCU----- 167
MBFV-NC_001563.2 ACUAGGGGAUCUUGCUCUCUGC----- 167
MBFV-NC_009942.1 ACUAGGAGAUUCUUGCUCUGC----- 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 ACUGGGAGAUUCUUGCUCUAUCUCAACAUCAGCUACUA 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.....

