

MBFV-NC\_034151.1 -----UGAAUAGUUUUUU-**GAACAAGAGG**GUGAAAACC-----**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 -----UGCGAGCUGUUUCUAGCAC-**GAAGAUCU**--C-G-----**AUG**UCU---AAGAAAC 43  
MBFV-NC\_007580.2 -----GCGAACAGUUUUUU--AGC**AGGG**AAUUACCCA-----**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 ----AGUGUGAAACAAGUUUUUUGAUC**AGUG**--GAUA-----**AUG**---ACUAAAAAAC 43  
MBFV-NC\_012534.1 ----AGUUUGAAC--GUUUUUUGGAGAG**AGAU**UAUU-----**AUG**UUAAACAAAAAAC 46  
MBFV-NC\_015843.2 ----AGUUUGAAC--GUUUUUUGGAUAGAGACAACU-----**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--GGAAAC**GAGAG**-UUUCUGG--UCAUGAAAA-CCCAAA 45  
MBFV-NC\_002640.1 -----UGUUUGAAUAGAGAG**AGC**AGA-UCUCUGGAAAAA**UG**---AA--CCAACG 41  
MBFV-NC\_001477.1 -----AACAGUUUUUUAAUAGAGAG**AGC**AGA-UCUCUG-----**AUG**AACAA--CCAACG 44  
MBFV-NC\_001475.2 -----GACAGUUUUUUAAUAGAGAG**AGC**AGA-UCUCUG-----**AUG**AACAA--CCAACG 44  
MBFV-NC\_001474.2 -----ACAGUUUUUUAAUAGAGAG**AGC**AGA-UCUCUG-----**AUG**AUAA--CCAACG 44  
MBFV-NC\_012533.1 -----GUGUUGAGAAAGAA**AGAA**AGAUUCUUCGGAA--**AUG**AA-----AACC 39  
MBFV-NC\_002031.1 -----UUGAGCGAUUAGCAGAG**AGAC**UGACCGAAC**AGUC**-----**AUG**-----UG 37  
MBFV-NC\_008719.1 -----AAAGGUAAGAGAA**AGAG**AGUUUUGCUUCAUGGCAACAAGAGGAG 46  
MBFV-NC\_012735.1 -----AAGGAGUAGAAGAA**AGG**AGAUUCAUUC**CCAA**UGGCAACAAGGGGA 46  
TBFV-NC\_001809.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----**AUG**G-----G 35  
TBFV-NC\_027709.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----**AUG**G-----G 35  
TBFV-NC\_003690.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGA-----**AUG**G-----C 35  
TBFV-NC\_001672.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----**AUG**G-----U 35  
TBFV-NC\_005062.1 -----AAAGACAGCUUAGGAGAA**CAAG**AGCUGGGG-----**AUG**G-----C 35  
TBFV-NC\_003687.1 -----AGCUUAGGAGAA**CAAG**AGCUGGGGAGUGGUAA**UG**----- 33  
.....10.....20.....30.....40.....50.....6



MBFV-NC\_034151.1 CAGGAGGACCC--GGAAAGAACCGGGGUCGU**UAAUAUGC**----GAAGCGCACAUCCCGC 96  
MBFV-NC\_009028.2 CAGGAAAGUCC--GCUGCAAAGCGGACUGU**CAUAUAUGC**----AAAACGCCUGGCUAGC 96  
MBFV-NC\_040776.1 CAGGAGGACCC--GCGGAAGGCGGGUUGU**CAUAUAUGC**----GAAACGCCAGCCAGC 96  
MBFV-NC\_000943.1 CAGGAGGACCC--GGGAAGCCCCGGGUCGU**CAUAUAUGC**----AAAACGCGGCAUACCC 96  
MBFV-NC\_006551.1 CAGGAGGGCCC--GGAAGAAACCGGGCCAU**CAUAUAUGC**----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--GGAGGAAACCGGGGCU**CAUAUAUGC**----AAAGCGUACGGCGGCC 96  
MBFV-NC\_009029.2 CAGGAAGGCC--GGUAGAAACCGGGCCG**CAUAUAUGC**----AAAGCGGGUGCGUCC 96  
MBFV-NC\_032088.1 CAGGAAAGUCC--GGCAAUCGUCGGACUGU**CAUAUAUGC**----AAAGCGCGGAGCAUCC 96  
MBFV-NC\_012534.1 CAGGAAAACCC--GGGCAACCCCGGGUUGU**CAUAUAUGC**----AAAGCGCGGUGCAUCC 99  
MBFV-NC\_015843.2 CAGGAAGACCC--GGCUCAGGCGGGGUUGU**CAUAUAUGC**----AAAGCGCGGAAGCUCC 99  
MBFV-NC\_001437.1 CAGGAGGGCCC--GGUAAAAACCGGGCUAU**CAUAUAUGC**----GAAACGCGGCCUACCC 96  
MBFV-NC\_012532.1 AAGAAAUC--C--GGAGGA-UCCGGAUUGU**CAUAUAUGC**----AAAACGCGGAGUAGCC 96  
MBFV-NC\_035889.1 AAGAAAUC--C--GGAGGAUUCGGAUUGU**CAUAUAUGC**----AAAACGCGGAGUAGCC 96  
MBFV-NC\_002640.1 AAAAAAGG--U--GGUAGACC--ACCUUU**CAUAUAUGC**----GAAACGCGAGAGAAAC 90  
MBFV-NC\_001477.1 GAAAAAGA--C--GGGUCGACC--GUCUUU**CAUAUAUGC**----GAAACGCGCGAGAAAC 93  
MBFV-NC\_001475.2 GAAGAAGA--C--GGGAAAACC--GUCUAU**CAUAUAUGC**----GAAACGCGUGAGAAAC 93  
MBFV-NC\_001474.2 GAAAAAGG--C--GAAAAACAC--GCCUUU**CAUAUAUGC**----GAAACGCGAGAGAAAC 93  
MBFV-NC\_012533.1 CAAAAAAG--G--GCCGAAGCCGGCCUAU**CAUAUAUGC**----GAAAGCGUUUGGAUCU 90  
MBFV-NC\_002031.1 GUCGUAAAGCUCAGGGAAAAACCCUGGGCGU**CAUAUAUGG**----A--CGACGAGGAGUU 90  
MBFV-NC\_008719.1 CAAGCAAGUCUCGGGUCACGACCCCGGGGCGU**CAUAUAUGG**----GA--CGGCCAA-- 95  
MBFV-NC\_012735.1 UGAAUAAGUCUCGGGUCUGAACCCGAGGCGU**CAUAUAUGG**----AG--CGGCUAG---- 95  
TBFV-NC\_001809.1 CAGGAAGACCAUCCUGAAAGGCAAGGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_027709.1 CAGGAAGUCCAUCCUGAAAGGUAAGGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_003690.1 CGGGAAGGCCGUCUCAAAGGAAAGGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGGC 95  
TBFV-NC\_001672.1 CAAGAAGGCCAUCCUGAAAGGUAAGGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_005062.1 CGGGAAGGCCAUUCUGAAAGGAAAGGGGGGG**CGUCCCCC**UCGACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_003687.1 ----AUGACCACUUCUAAAGGAAAGGGGGGG**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-----NNNNNNNAAACACCA-CA-ACAAAC**AGCAUAUUG**ACACCUGGGA--UAG 145  
MBFV-NC\_007580.2 CGCG-----NNNNNNNCCGUUAACG-**AAACAAC**AGCAUAUUGACACCUGGGA--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-----CAUAUUGACACCUGGGA-UAG 128  
MBFV-NC\_012532.1 CGUG-----NNNNNNNCCCCGGA**AAAC**CGAAAC**AGCAUAUUG**AC--GUGGA--AAG 145  
MBFV-NC\_035889.1 CGUG-----NNNNNNN--CCC**GAAAC**CGAAAC**AGCAUAUUG**AC--GCUGGA--AAG 145  
MBFV-NC\_002640.1 CGCGUAU-CAANNNNNNNCCCCCAACACA-AAAAC**AGCAUAUUG**AC--GCUGGA--AAG 145  
MBFV-NC\_001477.1 CGCGUGU---NNNNNNNCCCGCACAACAA-CAAAC**AGCAUAUUG**AC--GCUGGA--GAG 145  
MBFV-NC\_001475.2 CGUGUGU---NNNNNNNCCCCCGCAAUA-AAAAC**AGCAUAUUG**AC--GCUGGA--GAG 145  
MBFV-NC\_001474.2 CGCGUGU---NNNNNNNCCCCCGAAACAA-AAAAC**AGCAUAUUG**AC--GCUGGA--AAG 145  
MBFV-NC\_012533.1 AGCGCUG-GCCNNNNNNNAUAAACAA--CAUAAAC**AGCAUAUUG**ACACCUGGGA--AAG 145  
MBFV-NC\_002031.1 CGCUCCU-UGUNNNNNNNNAGG-GAACA**AAUAGUGG**ACCAUAUUGACGCCAGGGAAAGAC 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-UUUUCCCUCCUCCUAU**ACCAAA-UU**-CCCCUCGACAGAG 147  
TBFV-NC\_027709.1 CGCAA-----NNNNNNNGAUUUUCCCUCCUCCUAU**ACCAAA-UU**-CCCCUCGACAGAG 147  
TBFV-NC\_003690.1 CCCAA-----NNNNNNNGAUUUUCCCUCCUCCUAU**ACCAAA-UU**-CCCCUCGACAGAG 147  
TBFV-NC\_001672.1 CGCAA-----NNNNNNN-----UAU**ACCAAA-UU**-CCCCUCGUAAGAG 132  
TBFV-NC\_005062.1 CGCUA-----NNNNNNN-----UAU**ACCAAA-UU**-CCCCUCAUCUGAG 132  
TBFV-NC\_003687.1 CGCAAAUAAGUNNNNNNN-AUUUUCCGCCUCCUAU**ACUAAAUUU**-CCCCAGGAAACUG 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 ACUAGGAGACCCUCUGUCCUA----- 167  
MBFV-NC\_015843.2 ACUAGGAGACCCUCUGUCCUA----- 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 GGGGGGCGGUUCUUGUUC----- 167  
TBFV-NC\_027709.1 GGGGGGCGGUUCUUGUUC----- 167  
TBFV-NC\_003690.1 GGGGGGCGGUUCUUGUUC----- 167  
TBFV-NC\_001672.1 GGGGGGCGGUUCUUGUUC----- 167  
TBFV-NC\_005062.1 GGGGGGCGGUUCUUGUUC----- 167  
TBFV-NC\_003687.1 GGGGGGCGGUUCUUGUUC----- 167  
80.....190.....200.....210.....

