

MBFV-NC\_034151.1 -----UGAAUAGUUUUUU-**GAACAAGAGG**GUGAAAACCC-----**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**CAGUG**---GAUA-----**AUG**---ACUAAAAAAC 43  
MBFV-NC\_012534.1 ----AGUUUGAAC--GUUUUUUGGAGAG**AGAU**UAUU-----**AUG**UUUAACAAAAAAC 46  
MBFV-NC\_015843.2 ----AGUUUGAAC--GUUUUUUGGAUAGAGACAACU-----**AUG**CUAACAAAAAAC 46  
MBFV-NC\_001437.1 -----UUAAACAGUUUUUUAGAAC**CGAAGA**UA--CC-----**AUG**ACU---AAAAAAC 43  
MBFV-NC\_012532.1 -----AUUUGGAUUU--GGAAAC**AGAG**-UUUCUGG-UCAUGAAAAACCCCAAAG 46  
MBFV-NC\_035889.1 -----UUUUGGAUUU--GGAAAC**AGAG**-UUUCUGG-UCAUGAAAA-CCCAAA 45  
MBFV-NC\_002640.1 -----UGUUUGAAUAGAGAG**CGA**GA-UCUCUGGAAAA**UG**---AA---CCAACG 41  
MBFV-NC\_001477.1 -----AACAGUUUUUUAUUAGAGAG**CGA**GA-UCUCUG-----**AUG**AACAA--CCAACG 44  
MBFV-NC\_001475.2 -----GACAGUUUUUUAUUAGAGAG**CGA**GA-UCUCUG-----**AUG**AACAA--CCAACG 44  
MBFV-NC\_001474.2 -----ACAGUUUUUUAUUAGAGAG**CGA**GA-UCUCUG-----**AUG**AUA--CCAACG 44  
MBFV-NC\_012533.1 -----GUGUUGAGAAAGAA**AGCAGAU**UCUUCGGAA--**AUG**AA-----AACC 39  
MBFV-NC\_002031.1 -----UUGAGCGAUUAGCAGAG**AGACG**ACCAU**CAUGUC**-----**AUG**-----UG 37  
MBFV-NC\_008719.1 -----AAAGGUAAGAGAA**AGGAGU**UUUGCUUCAUGGCAACAAGAGGAG 46  
MBFV-NC\_012735.1 -----AAGGAGUAGAAGAA**AGGAGAU**UCAU**UCCCAUGG**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--GCGGAAGCGGGUUGU**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--GGGCAACCCCGGUUGU**CAUAUGCU**----AAAGCGCGGUGCAUCC 99  
MBFV-NC\_015843.2 CAGGAAGACCC--GGCUCAGGCGGGGUUGU**CAUAUGCU**----AAAGCGCGGAAGCUCC 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--GGUUGAGACC--ACCUU**CAUAUGCU**----GAAACGCGAGAGAAAC 90  
MBFV-NC\_001477.1 GAAAAAGA-C--GGGUCGACC--GUCUU**CAUAUGCU**----GAAACGCGCGAGAAAC 93  
MBFV-NC\_001475.2 GAAGAAGA-C--GGGAAAACC--GUCUA**CAUAUGCU**----GAAACGCGUGAGAAAC 93  
MBFV-NC\_001474.2 GAAAAAGG-C--GAAAAACAC--GCCUU**CAUAUGCU**----GAAACGCGAGAGAAAC 93  
MBFV-NC\_012533.1 CAAAAAAG-G--GCCGAAGCCGGGCU**CAUAUGCU**----GAAACGCGGUUGAUUC 90  
MBFV-NC\_002031.1 GUCGUAAAGCUCAGGGAAAAACCCUGGGCGU**CAUAUGGU**----A--CGACGAGGAGUU 90  
MBFV-NC\_008719.1 CAAGCAAGUCUCGGGUCACGACCCCGGGCGU**CAUAUGGU**----GA--CGGCCAA-- 95  
MBFV-NC\_012735.1 UGAAUAAGUCUCGGGUCUGAACCCGAGGCGU**CAUAUGGU**----AG--CGGCUAG---- 95  
TBFV-NC\_001809.1 CAGGAAGACCAUCCUGAAAGGCAAGGGGGGG**CGUCCCCUCG**ACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_027709.1 CAGGAAGUCCAUCCUGAAAGGUAAGGGGGGG**CGUCCCCUCG**ACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_003690.1 CGGGAAGGCCGUUCUAAAGGAAAGGGGGGG**CGUCCCCUCG**ACGAGGUCGAAAGAGGC 95  
TBFV-NC\_001672.1 CAAGAAGGCCAUCCUGAAAGGUAAGGGGGGG**CGUCCCCUCG**ACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_005062.1 CGGGAAGGCCAUUCUGAAAGGAAAGGGGGGG**CGUCCCCUCG**ACGAGUGUCGAAAGAGAC 95  
TBFV-NC\_003687.1 ----AUGACCACUUCUAAAGGAAAGGGGGGG**CGUCCCCU**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--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**AAACGC**AAAAC**AGCAUAUUG**AC--G-UGGGA--AAG 145  
MBFV-NC\_035889.1 CGUG-----NNNNNNN--CCC**GGA**AAAC**GC**AAAAC**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-GCCNNNNNNNAUAAACAA-CAUAAAC**AGCAUAUUG**ACACCUGGGA--AAG 145  
MBFV-NC\_002031.1 CGCUCCU-UGUNNNNNNNNAGG-GAACA**AAUAGUGGGACCAUAUUG**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-----NNNNNNNG-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**-----CCCCUCGUAGAG 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 ACCGGGAGAUCCUCUGCUUCC----- 167  
MBFV-NC\_000943.1 ACU**AGG**AGAUCCUUCGUCUA----- 167  
MBFV-NC\_006551.1 ACU**AGG**AGAUCCUUCGUCU----- 167  
MBFV-NC\_001563.2 ACU**AGG**GGAUCUUCGUCUCUGC----- 167  
MBFV-NC\_009942.1 ACU**AGG**AGAUCCUUCGUCUCUGC----- 167  
MBFV-NC\_007580.2 ACAGGAGAUCCCGUCUUUUC----- 167  
MBFV-NC\_009026.2 ACC**GG**GAGAAUUGCUGCCUCGC----- 167  
MBFV-NC\_009029.2 ACU**AGG**GGAUUGCUGCUCUGG----- 167  
MBFV-NC\_032088.1 ACU**AGG**AGAUCCGUCUCUCUG----- 167  
MBFV-NC\_012534.1 ACU**AGG**AGACCCUCUGUCCUA----- 167  
MBFV-NC\_015843.2 ACU**AGG**AGACCCUCUGUCCUA----- 167  
MBFV-NC\_001437.1 ACUGGGAGAUCCUUGCUCUAUCUCAACAUCAGCUACUA 167  
MBFV-NC\_012532.1 ACC**AG**AGACUCCAUGAGUUUCC----- 167  
MBFV-NC\_035889.1 ACC**AG**AGACUCCAUGAGUUUCC----- 167  
MBFV-NC\_002640.1 ACC**AG**AGAUCCUGCUGUCUCUG----- 167  
MBFV-NC\_001477.1 ACC**AG**AGAUCCUGCUGUCUCUA----- 167  
MBFV-NC\_001475.2 ACC**AG**AGAUCCUGCUGUCUCU----- 167  
MBFV-NC\_001474.2 ACC**AG**AGAUCCUGCUGUCUCU----- 167  
MBFV-NC\_012533.1 ACC**GG**GAGACUCUGUUGGCUUUC----- 167  
MBFV-NC\_002031.1 CGG**AG**UGGUUCUGUCUU-U----- 167  
MBFV-NC\_008719.1 CGG**AG**ACACUCCUUGAUUCU----- 167  
TBFV-NC\_012735.1 CGG**AG**ACACUCCUUGAUUC----- 167  
TBFV-NC\_001809.1 GGGGGCGGCUUCUGUUCUC----- 167  
TBFV-NC\_027709.1 GGGGGCGGUUCUGUUCUC----- 167  
TBFV-NC\_003690.1 GGGGGCGGUUCUGUUCUC----- 167  
TBFV-NC\_001672.1 GGGGGCGGUUCUGUUCUCCUGAGCCACCAUC----A 167  
TBFV-NC\_005062.1 GGGGGCGGUUCUGUUCUCCUGAGCCACCAUC----A 167  
TBFV-NC\_003687.1 GGG**G**GGCGGUUCUGUUCUC----- 167  
80.....190.....200.....210.....

