

MBFV-NC_034151.1 U-----AACACAGUGUGAAUAGUUUUUUGAACACAGGUGAGAAA-----CCAUG-----U 44
MBFV-NC_012534.1 CCGU-----AAACACAGUUUGAAC-GUUUUUUUGGAGA-GA-----GAUUA-----UUAUG-----U 44
MBFV-NC_015843.2 ACGU-----AAACACAGUUUGAAC-GUUUUUUUGGAUA-GA-----GACAA-----CUAUG-----U 44
MBFV-NC_001563.2 A--U-----UAACACAGUGCGAGCGUUUUCUUGGCAC-GAAGA-UCU-----CGAUG-----U 44
MBFV-NC_009942.1 A--U-----UAACACAGUGCGAGCGUUUUCUUAAGCAC-GAAGA-UCU-----CGAUG-----U 44
MBFV-NC_009028.2 U--U-----UAACACAGUCUGAAUAGUUUUUUAGCA--AGGGA-UUUC-----CCAUG-----U 44
MBFV-NC_040776.1 U--U-----UAACACAGUCUGAAUAGUUUUUUAGCA--GAGGU-ACUA-----CCAUG-----U 44
MBFV-NC_007580.2 ---U-----AACUUGACUGCGAACAGUUUUUU--AGCAGGGAAAUUACC-----CAAUG-----U 44
MBFV-NC_000943.1 -----UAACGCGGUUUGAACAGUUUUUUUGGAGCUUUUGAUUU-C-----AAAU-----U 44
MBFV-NC_006551.1 ---U-----UAACACAGUGCCCGGCAGUUUCUUGAGC-GUUGAUUU-U-----CAAUG-----U 44
MBFV-NC_001437.1 ---U-----UAGUGCAGUUUAAACAGUUUUUUAGAACGGAAGAUAA-C-----C-AUG-----A 44
MBFV-NC_009029.2 UGAUUACAUAACACAGUGUGAACAGUUUUUUUGAACAG-----CAAUG-----A 44
MBFV-NC_032088.1 UC-----UAUAACUCAGUGUGAACAGUUUUUUUGAUCAGUGGA-----UAAUG-----A 44
MBFV-NC_009026.2 -----AGAAAAGUUUUUCGAGGAAAGACGAGAAGCGAAUUCUCU-----GAAUG-----G 44
MBFV-NC_012532.1 AAC-----AGGUUU-----AAUUUGGAAUUGGAAACGAGAGUUUCUGG--UCAUG-----A 44
MBFV-NC_035889.1 ACA-----GGUUUU-----AUUUUGGAAUUGGAAACGAGAGUUUCUGG--UCAUG-----A 44
MBFV-NC_012533.1 AAC-----AGUUUU-----CGUUGUGAGAAAGAAACAGAUUUCUUCGG--AAAU-----A 44
MBFV-NC_002640.1 -----UCUAACAGUUUUGUUGAAUAGAGAGCAG-AUCUCUG-----AUG-----A 44
MBFV-NC_001477.1 ACG-----UAGUUCUAACAGUUU-UUU-AUUAGAGAGCAG-AUCUCUG-----AUG-----A 44
MBFV-NC_001475.2 ACG-----UAGUGCUGACAGUUU-UUU-AUUAGAGAGCAG-AUCUCUG-----AUG-----A 44
MBFV-NC_001474.2 -CG-----UAGUUCUAACAGUUU-UUUAAUUAGAGAGCAG-AUCUCUG-----AUG-----A 44
dISFV-NC_016997.1 AAAC-----AUAAACGCAUUAAGAAUAGUUUU--GAAAGAGUUGAAU-----CAAUGAGAU 47
dISFV-NC_017086.1 -----AUAAACACGUUUGAAUAGGUUUUUAUUGUGAAUCGAAAUAC-----CGAUG-----43
dISFV-NC_024017.1 UCGC-----GCAUUUUUGAUAGAGUU--GACUAGAUAACGAAUUU-----CGAUGGUGA 47
dISFV-NC_040610.1 --GA-----ACAAUUUUAAAGAAGUCAAAACUAGAAAUUUAAUU-U-----CAAUGGUUA 47
dISFV-NC_027999.1 -----GGAUUAAUUGUUGUUUGAGAGAACAGCGAGAGUUAUCU-----AUGGUUG 47
MBFV-NC_008719.1 -----AUUUCUACUGAAAGG--GUAGAGAAAGAGGUUUUGCUUCUCAUGGCCAA 47
MBFV-NC_012735.1 -----UUUCUACUGAAAGG--AGUAGAAGAAAGGAGAUUCAUUCCTCAAUGGCCAA 47
MBFV-NC_002031.1 -----UAAUCGUUCGUUGAGCGAUUAGCGAGAGAGUAGACCAGAACAUUGUC-- 45
MBFV-NC_018705.3 CCGU-----AAACACAGUUUAGCGUUUUUUUGGAGAGAGACUA-----CUAUG-----U 44
.....10.....20.....30.....40.....50.....6



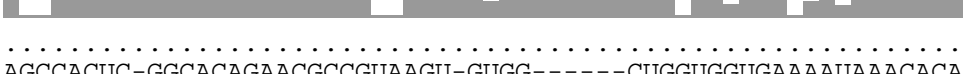
.....(((((((.....
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MBFV-NC_012534.1 UUAACAAAAAACACAGGAAACCCGGGCAACCCGGGUUGUCAAUUAGCUGAAGCGCGUG 104
MBFV-NC_015843.2 CUAACAAAAAACACAGGAAGACCCGGCUCAGGCCGGGUUGUCAAUUAGCUGAAGCGCGGAA 104
MBFV-NC_001563.2 CUA-----AGAAACCAGGAGGGGCCCGUAAACACCGGGCUGUCAAUUAGCUGAAGCGCGGUA 101
MBFV-NC_009942.1 CUA-----GAAACACGAGGAGGCCCGCAAGAGCCGGGUCUCAAUUAGCUGAAGCGCGGAA 101
MBFV-NC_009028.2 CUA-----AAAAACCAGGAAGUCCGCGUCGAAAGCGGACUGUCAAUUAGCUGAAGCGCCUGG 101
MBFV-NC_040776.1 CUA-----AAAAACCAGGAGGACCCCGGAAGGCGGGUUGUCAAUUAGCUGAAGCGCCGCA 101
MBFV-NC_007580.2 CUA-----AAAAACAGGAAAGCCCGGUAAGAACCCGGGUUGUCAAUUAGCUGAAGCGCGGC 101
MBFV-NC_000943.1 CUA-----AAAAACCAGGAGGACCCCGGAAGACCCCGGGUCUCAAUUAGCUGAAGCGCGGCA 101
MBFV-NC_006551.1 CUA-----AGAAACCAGGAGGGGCCCGGAAGAAACCGGGCCAUCAAUUAGCUGAAGCGCGCA 101
MBFV-NC_001437.1 CUA-----AAAAACCAGGAGGGCCCGUAAAAACCGGGCUAUAUUAUAGCUGAAGCGCGCC 101
MBFV-NC_009029.2 CCA-----AAAAACCAGGAAGGCCCGGUAGAAUUCGGGCGUCAAUUAGCUGAAGCGCGUG 101
MBFV-NC_032088.1 CUA-----AAAAACCAGGAAGUCGCGCAUUCGUCGAGUCUCAAUUAGCUGAAGCGCGGAG 101
MBFV-NC_009026.2 CUA-----GAAACACAGGAAGACCCGGAGAACCCGGGUCUCAAUUAGCUGAAGCGCUACGG 101
MBFV-NC_012532.1 AAAACCCCAAGAAAGAAU--CCGAGGA-UCCGGAUUGUCAAUUAGCUGAAGCGCGGAG 101
MBFV-NC_035889.1 AAAA-CCCAAAAAAGAAU--CCGAGGAUUCGGAUUGUCAAUUAGCUGAAGCGCGGAG 101
MBFV-NC_012533.1 AAA-CCCAAAAAAGG-----GCCGUAUCGCGGCCUAUAUUAUAGCUGAAGCGCUUUG 95
MBFV-NC_002640.1 --AA--CCAACGAAAAAG--GUG--GUUAGACCCTUUAUAUAGCUGAAGCGCGAGA 95
MBFV-NC_001477.1 ACA--CCAACGAAAAAG--ACG--GGUCGACCGUCUUAUAUAGCUGAAGCGCGGA 98
MBFV-NC_001475.2 ACA--CCAACGGAAGAAG--ACG--GGAAACCGCUAUAUAUAGCUGAAGCGCGUGA 98
MBFV-NC_001474.2 AUA--CCAACGAAAAAG--GCG--AAAAACCGCTUUAUAUAGCUGAAGCGCGAGA 98
dISFV-NC_016997.1 CAUUGGUCUUUCGAGCUAGGAGGCCGCUAAACCGGGCCGUCGAUUAUAUAUAAGC 107
dISFV-NC_017086.1 -----GCGAAUAAACCCAAGAAGCCCGGAAGACGGGCUAUAUUAUAGUGAGACGUGCGU 98
dISFV-NC_024017.1 CU-----AAAUCAAGAAAGCCCGCGCAAGCGGGCUGUAUAUAGCUGAAGCGCGAG 101
dISFV-NC_040610.1 GA-----CAACUUGGAAAGACCGUUGCAAGACCGUCUGUCAAUUAGCGAAAGCGGAUUA 101
dISFV-NC_027999.1 AGAAACUAGAGUAGGAUCUCGGGUUAAACCCGAGGUGUCAAUUAGAUUAGGCGUACUG 107
MBFV-NC_008719.1 CAAGAGGCAAGCAAGAGUCUCGGGUACAGACCCGGGGCUGCAAUUAGGUGAAGCGGCAAG 107
MBFV-NC_012735.1 CAAAGGGGAUGAAUAAGUCUCGGGUCUGAUCCGAGGCGUCAAUUAGGUAGCGGCUAGAG 107
MBFV-NC_002031.1 -----UGGUCGUAAAGCUCAGGGAAAAACCCUGGGCGUCAAUUAGGUACGACGAGGAG 98
MBFV-NC_018705.3 CAAACAAAAAACAGGAAGACCCGGGCAACCCGGGUUGUCAUAUAGCUGAAGCGCGGC 104
0.....70.....80.....90.....100.....110.....1



CCCCGCGCUA-----NNNNNNNN-----AGACCCCUUGGCAGUGAACG-CAAA-UAAAA 146
CAU-----CCC-----NNNNNNNN--GG--AGACCCCUUGCGAGUUAACACCAAA-ACAAA 149
CGU---CCC-----NNNNNNNNA-GG--AGACCCCUUGCGAGUGAACACCACA-A-GAA 149
UGCCCCGCG-----NNNNNNNNGAGG--AGACCCCGUGCCA-AAAACACCA-A-AAGAA 149
UGCCCCGCG-----NNNNNNNN--GG--AGACCCCGUGCCACAAACACCACA-ACAAA 149
CUAGCGUGU-----NNNNNNNNGUGG--AGACCCCUAGCAC-CAAGCGCGAA--ACAA 149
CCAGCGUU-----NNNNNNNNA-GG--AGACCCCUUGGCACACAAGCGCAAA-GACAA 150
UAUCCGCG-----NNNNNNNN--UU--AGAGGAGACCCCUUGCCGUUAACGC-AAACA 149
UACCCCGCG-----NNNNNNNN--G--ACCCACUCUCAAAAGCAUC-----AAACA 143
UACCCCGCG-----NNNNNNNN--ACCCGCA-UCAUAAGCAUC-----AAAAA 142
UACCCCGCG-----NNNNNNNN--U--AGAGGAGACCCCGCAUUGCA-----UCA-A 143
CGUCCGCG-----NNNNNNNAGAGG--AGACCCUCCCAAAAGAGCGCAACACCAAA 153
CAUCCCGCG-----NNNNNNNAGAGGUUAGAGGAGACCCCAUUAACCGCAAA-ACAAA 154
CGGCCAACG-----NNNNNNNN--CCCCUUGGCAAAACAGUUAACGCAACCAAAAGAA 150
UAGCCCGUG-----NNNNNNNN--GGUUAGAGGAGACCCCGGAAAACGCAAA 147
UAGCCCGUG-----NNNNNNNN--GUUAGAGGAGACCCCGGAAAACGCAAA 146
GAUCUAGCGCUGGCCNNNNNNNN-----GAGACCCCGCGGCCAAACCAACAUAAA 147
GAAACCGCGUAUCAANNNNNNNNACUAG--AGGUUAGAGGAGACCCCAACCAAA 151
GAAACCGCGUGU--NNNNNNNN--UAG--AGGUUAGAGGAGACCCCGGCACAACAACAA 151
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GAAACCGCGUGU--NNNNNNNN--CUAG--AGGUUAGAGGAGACCCCGG--CGAAACAAAAA 151
dISFV-NC_016997.1 UGC-----NNNNNNNN-----AGGAAACCCCCCAAAAAUGUAUA 141
dISFV-NC_017086.1 UGCCUCGCGUCU--NNNNNNNN-----AGAGGAGACCCCAAAAAAUG--AA 141
dISFV-NC_024017.1 CCAAGCGUG-----NNNNNNNN-----CCCCACUGCUGAGAG-CA 134
dISFV-NC_040610.1 CCACCCGCU-----NNNNNNNN-----ACCCCUCAUUAUUUAUA 135
dISFV-NC_027999.1 -----GAA--NNNNNNNN-----UGGCGAACCCCAUUGGAAAUUA-- 140
MBFV-NC_008719.1 -----CCA--NNNNNNNN-----GAGGAGACCCUCCGAGCAC-UAUG 142
MBFV-NC_012735.1 -----UGA--NNNNNNNN-----C-CCAUUCUCCCGAGCACACAUAG 142
MBFV-NC_002031.1 UUCGCUCCUUGU--NNNNNNNN-----G--AGACCCUCCGAGGAAACAAUAG 140
MBFV-NC_018705.3 CAUCC-----NNNNNNNC-----CCCGGGAACUCAAAGC 135
20.....130.....140.....150.....160.....170.....1



.....)))))))))))))).....
A--CAGCAUAUUGACACCUGGGA--UAGACUGGGAGACCCUC-UGC UUA-UUUCAACACC 200
A--CAGCAUAUUGACACCUGGGA--GAGACUAGGAGACCCUC-UG-UCC-UAACAACACC 202
A--CAGCAUAUUGACACCUGGGA--UAGACUAGGAGACCCUC-UG-UCC-UAACAACACC 202
A--CAGCAUAUUGACACCUGGGA--UAGACUAGGGGAUUCU-U--GCU-CUGCACAACC 201
A--CAGCAUAUUGACACCUGGGA--UAGACUAGGAGAUUCU-U--GCU-CUGCACAACC 201
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A--CAGCAUAUUGACACCUGGGA--AGAC-AGGAGAUCCCC-UGC UU--UUUCAACACC 200
A--CAGCAUAUUGACACCUGGGAA-AAGACUAGGAGAUUCU-UGCUCUAUUCCAACAU 199
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A--CAGCAUAUUGACACCUGGGA--UAGACUAGGAGAUCCG-UGCUC--UGGAACCC 206
A--CAGCAUAUUGACACCUGGGA--UAGACC-GGAGAAUUUGUGCCUC--GCAACACC 202
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A--CAGCAUAUUGACG-CUGGGA--AAGACCA-GAGACUCCAGAGUUU-CCACCACGCU 199
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A--CAGCAUAUUGACG-CUGGGA--AAGACCA-GAGAUCCUGCU-GUCU-CUGCAACAU 203
A--CAGCAUAUUGACG-CUGGGA--GAGACCA-GAGAUCCUGCU-GUCU-CUACAGCAUC 203
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GGCUAUUAUUCGACACCUAGGA--AAGACUGGAGAUAC-CUUUGGUUCUUCGACACUAA 198
GGGCAUAUAUUGACACUUGGGA--AAGACAGAGGUACUCGCUUUAUACCCGCCACCA 199
AAUAUAUAUUGACACUUGGGAAGAGACCAAGAUAGUUGUUGUUGUUAUUGCUGAC 194
UAACAGCAUAUUGACACCAGGG-AUAGACCGGAGAAUACACAAUUUCUGGGCAUAA 194
dISFV-NC_027999.1 --GCUUCAUAUUGACACCAGGGAAAGACCGGAGAAACUUCU--GCUUACUCGACGCAA 196
C-GGACCAUAUUGACGCCUGGG-AAAGCCGGAGACACUUCUUGAUUUCACCUUUC-- 197
MBFV-NC_012735.1 C-GGACCAUAUUGACGCCAGGG-AAAGACCGGAGACACUUCUUGAUUUCACCUUUC-- 197
MBFV-NC_002031.1 UGGGCAUAUUGACGCCAGG-AAAGACCGGAGUGGUUUCUCU--GCUUUUCCU--CCAG 195
AAGGCAUAUUGACACCUGGGA--AAGCUGAUAAACAGGUGAAGCUCUAGAGGAGACC 192
80.....190.....200.....210.....220.....230.....2



AGCCACUC-GGCACAGAACGCCGUAAGU-GUGG-----CUGGUGGUGAAAAUAAACACA 252
AGCCAUCC-GGCACAGAGCGCCGUAAGU-GUGG-----CUGGUGGUGGUA--GAACACA 252
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GGCCGCCA-GGCACAGAUCGCCGAAUAGCGCG-----GCCGGUGUGGGGAAUCCAUG 252
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A--UUCCA-GGCACAGAACGCCAAAAAUUG--G--AAUGGUGCUGUUGAAUCAACA 252
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CUCCUAU--GGCACAGAGCGCCAAAGAAACGGA-----GUUAGUAUGGAAAAACAUA 252
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dISFV-NC_040610.1 AACUACAA--GCACAGAGCGCUUCGAGAAGUAGUUGUUCUUGACGAGAGAAUAGUA 252
dISFV-NC_027999.1 CCACCCAAAGGCACAGAUUGCUGA--AAAUUCG--GUGGUGAUGUAGUAAACAA 252
MBFV-NC_008719.1 UCACCCUUAAGGCACAGAUUGCUUG--AAUGAGG--GUGGGGAUGUUGGAAACCA 252
MBFV-NC_012735.1 UCGCCUUAAGGCACAGAUUGCUUG--AAUGAGG--GCGGGGAUGUAGAAACCAUA 252
MBFV-NC_002031.1 AGGUCUGUGAGACAGAUUGCUCAAGAAUAGAU--GACCUUUGGAUGACAAACACA 252
MBFV-NC_018705.3 CCUUCGUGAGGAAACACCACCAAAACAGCAUAUUGACAUUGGAGGAAAGACAGGACC 252
40.....250.....260.....270.....280.....290.....3



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MBFV-NC_034151.1 GAGUCU 258
MBFV-NC_012534.1 GUGUCU 258
MBFV-NC_015843.2 GGAUCU 258
MBFV-NC_001563.2 GGAUCU 258
MBFV-NC_009942.1 GGAUCU 258
MBFV-NC_009028.2 GGAUCU 258
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MBFV-NC_001437.1 GGAUCU 258
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MBFV-NC_032088.1 GAAUCU 258
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dISFV-NC_017086.1 GUAUCU 258
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dISFV-NC_027999.1 GUUUCU 258
MBFV-NC_008719.1 GUGUCU 258
MBFV-NC_012735.1 GUGUCU 258
MBFV-NC_002031.1 ACCACU 258
MBFV-NC_018705.3 CUCUGU 258
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