

MBFV-NC_012532.1 -----A---UU-UGGAUUUGGAAACGAGAGUUUCUGGUC--AUGAAAA--ACCCCAAA 45
MBFV-NC_035889.1 -----G---U-UGGAUUUGGAAACGAGAGUUUCUGGUC--AUGAAAA--A-CCCAAA 44
MBFV-NC_012533.1 -----U-UG-UUGAGAAAAGAA--ACAGAUUCUUCGGAAAUUGAAAA--CCCAAA 43
MBFV-NC_002640.1 -----UGUUUG-AAUAGAGAGCAGAUUCUCUGGAAAA--AUG---A--A-CCAACG 41
MBFV-NC_001474.2 -----ACAGUU-UUUUAAUUAGAGAGCAGAUUCUCUG-----AUGAAUA--A-CCAACG 44
MBFV-NC_001477.1 -----AACAGU-UUUUUUUUAGAGAGCAGAUUCUCUG-----AUGAACA--A-CCAACG 44
MBFV-NC_001475.2 -----GACAGU-UUUUUUUUAGAGAGCAGAUUCUCUG-----AUGAACA--A-CCAACG 44
dISFV-NC_017086.1 -----UGAAUA-GGUUUUAUUGUGAAUCGAAAUACCG----AUGGCGA--A-UAAACC 44
dISFV-NC_040610.1 -----AAAGAAGUC---AAAACUAGAAAUUAU-AUU-U-CA--AUGGUUA--GACAACU 44
dISFV-NC_024017.1 -----UGAU-AGAG-----UUGACUAGAUAACGA-AUUAU-CG---AUGGUGA---CUAAAU 44
MBFV-NC_009028.2 -----UCUGAAU-AGUUUUUU--AGCAAGGGA-UUUC---AUGUCUA---AAAAACC 44
MBFV-NC_040776.1 -----UCUGAAU-AGUUUUUU--AGCAGAGGU-ACUACC--AUGUCUA---AAAAACC 44
MBFV-NC_034151.1 -----UGAAU-AGUUUUUUUG--AACAGAGGUGAAAAACC--AUGUCUA---AAAAACC 44
MBFV-NC_009029.2 ACACAGUGUGAACAAGUUUUUUUG-AACAG-----CA---AUGACCA---AAAAACC 44
MBFV-NC_032088.1 -----AGUGUGAACAAGUUUUUUUG-AUCAGUGGA-----UA--AUGACUA---AAAAACC 44
MBFV-NC_001563.2 -----UGCGAGC-UGUUUCUUGGCAC-GAAGA-UCU-CG--AUGUCUA---AGAAACC 44
MBFV-NC_009942.1 -----UGCGAGC-UGUUUCUUGGCAC-GAAGA-UCU-CG--AUGUCUA---AGAAACC 44
MBFV-NC_006551.1 -----GCCG-GC-AGUUUCUUUGAGC-GUUGAUUUU-CA---AUGUCUA---AGAAACC 44
MBFV-NC_000943.1 -----U---GAAC-AGUUUUUUUGGAGCUUUUGAUUUC-AA--AUGUCUA---AAAAACC 44
MBFV-NC_007580.2 -----GCGAAC-AGUUUUUU--AGCAGGGAUUUACCCA--AUGUCUA---AAAAACC 44
MBFV-NC_012534.1 ----AGUUUGAAC--GUUUUUUGGAGAGAGA----UUUU--AUGUUUAACAAAAAAC 47
MBFV-NC_015843.2 ----AGUUUGAAC--GUUUUUUGGAUAGAGA----CAACU--AUGUCUAACAAAAAAC 47
MBFV-NC_009026.2 -----UCGAGG-AAAGACGAGAAGCGAAUU--CUCUGA--AUGGCUA---GAAAAACC 44
MBFV-NC_001437.1 -----UUAAAC-AGUUUUUUUAGAACCGGAAGA--UAACC--AUGACUA---AAAAACC 44
MBFV-NC_002031.1 -----UUGAGC--GAUUAGCAGAGAACUGACCAGAAC--AUGUCUGGUCGUAAAGC 47
MBFV-NC_008719.1 -----AAAGGGUAGAGAAAAGGAGUUUUGCUUCU-CAUGGCAACAAGAGGAGC 47
MBFV-NC_012735.1 -----AAGGAGUAGAGAAAGGAGAUUCAUUC--AAUGGCAACAAGGGGAU 47
dISFV-NC_016997.1 -----CAUUAGAAUAGGUUUUGAAAGAGUUGAUUC-AAUGAGAUCAAUGGUCUU 47
dISFV-NC_027999.1 -----UUGUUUGAGAGAAACAGCGAGAAAGUACUAC-UAUGGUUGAGAAAACUAG 47
.....10.....20.....30.....40.....50.....6



.....(((((((.(.(((((((((((.....
MBFV-NC_012532.1 GAAGAA--AUCCGGAGGA-UCCGGAUUG-UCAAUAU¹GCUAAAACGC---GGAG-UAGCCC 97
MBFV-NC_035889.1 AAAGAA--AUCCGGAGGAU¹UCCGGAUUG-UCAAUAU¹GCUAAAACGC---GGAG-UAGCCC 97
MBFV-NC_012533.1 AAAGG-----GCCCAUCCGGGCCUA-UCAAUAU¹GCUGAAAGCGCUUUGGAUUCUAGCGC 95
MBFV-NC_002640.1 AAAAAA--GGUGGUAGA-----CCACCUU-UCAAUAU¹GCUGAAACGCGAGAGAAACCGCGU 95
MBFV-NC_001474.2 GAAAAA--GGCGAAAAAAC---ACGCCUU-UCAAUAU¹GCUGAAACGCGAGAGAAACCGCGU 98
MBFV-NC_001477.1 GAAAAA--GACGGGUCGA---CCGUCUU-UCAAUAU¹GCUGAAACGCGCGAGAAACCGCGU 98
MBFV-NC_001475.2 GAAGAA--GACGGGAAAA---CCGUCUA-UCAAUAU¹GCUGAAACGCGUGAGAAACCGGUG 98
dISFV-NC_017086.1 CAAGAA--GCCCGGAAGA---CCGGCUA-UCGAUAU¹AGUGAGACGUGCGUUGCCUCGCGU 98
dISFV-NC_040610.1 UGGAAG--GACCGUUGCAAGACGCGUCUG-UCAAUAU¹GCUGAAAGCGGAUUAACACCCGCU- 100
dISFV-NC_024017.1 AAGAAA--GCCCGCCGCAAAAGCGGGCUG-UUAAUAU¹GCUAACACGCAUACCAAGCGUG- 100
MBFV-NC_009028.2 AGGAAA--GUCCGUCGCAAAAGCGGACUG-UCAAUAU¹GCUAAAACGCCUGGCUAGCGGUGU- 100
MBFV-NC_040776.1 AGGAGG--ACCCGCCGGAAGGCGGGUUG-UCAAUAU¹GCUGAAACGCCAGCCAGCGUUU- 100
MBFV-NC_034151.1 AGGAGG--ACCCGGAAGAAACCGGGUCG-UUAAUAU¹GCUGAAGCGCACAUCCCGCGCUA- 100
MBFV-NC_009029.2 AGGAAG--GCCCGGUAGAAUUCGGGCCG-UCAAUAU¹GCUAAAGCGCGGUGCGUCCCGCG- 100
MBFV-NC_032088.1 AGGAAA--GUCCGGCAUUCGUGGACUG-UCAAUAU¹GCUAAAGCGCGGAGCAUCCCGCG- 100
MBFV-NC_001563.2 AGGAGG--GCCCGGUAAAAACCGGGCUG-UCAAUAU¹GCUAAAACCGCGGUUAGCCCGCG- 100
MBFV-NC_009942.1 AGGAGG--GCCCGGCAAGAGCCCGGGCUG-UCAAUAU¹GCUAAAACCGGGAUUGCCCGCG- 100
MBFV-NC_006551.1 AGGAGG--GCCCGGAAGAAACCGGGCCA-UCAAUAU¹GCUGAAACGCGGCAUACCCCGCG- 100
MBFV-NC_000943.1 AGGAGG--ACCCGGGAAGCCCCGGGUCG-UCAAUAU¹GCUAAAACCGGGCAUACCCCGCG- 100
MBFV-NC_007580.2 AGGAAA--ACCCGGUAGAAACCGGGUUG-UCAAUAU¹GCUAAAACCGGGCGUAUCCCGCG- 100
MBFV-NC_012534.1 AGGAAA--ACCCGGGCAACCCCGGGUUG-UCAAUAU¹GCUAAAGCGCGGUGCAUCCCGCG- 100
MBFV-NC_015843.2 AGGAAG--ACCCGGCUCAGGCCGGGUG-UCAAUAU¹GCUAAAGCGCGGAGCAUCCCGCG- 100
MBFV-NC_009026.2 AGGAAG--ACCCGGAGGAAACCGGGUCG-UCAAUAU¹GCUAAAGCGUACGGCGGCCAAGC- 100
MBFV-NC_001437.1 AGGAGG--GCCCGGUAAAAACCGGGCUA-UCAAUAU¹GCUGAAACGCGGCUUACCCCGCG- 100
MBFV-NC_002031.1 UCGAG-----GAAAAACCCUCCGGCGU-CAUAU¹AGGUAGCA-CGAGGCUUAGCCUCCUU 98
MBFV-NC_008719.1 AAGCAAGUCUCGGGUCACGACCCGGGGC-GUCAUAU¹UGGUGACGGC-----CAAGGCCA 100
MBFV-NC_012735.1 GAAUAAGUCUCGGGUCGAUCCCGAGGC-GUCAUAU¹UGGUAGCGGC-----UAAGUGA 100
dISFV-NC_016997.1 UCGAGCUAGGAGGCCCGUUAACCGGGCCGUGCGAUAAUAAUAAACG-----UAAGCUGC 100
dISFV-NC_027999.1 AGUAGGAUCUCGGGUUAAAAACCCGAGGU-GUCAUAU¹GAUUAAGGCG-----UACUGGAA 100
0.....70.....80.....90.....100.....110.....1



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MBFV-NC_012532.1 --GUGNNNNNNNCCCCGGAAAAACGCAAAACAGCAUAU¹UGACG-UGGG-A--AAGACC-AG 150
MBFV-NC_035889.1 --GUGNNNNNNNN-CCCGGAAACGCAAAACAGCAUAU¹UGACGUGGG-A--AAGACC-AG 150
MBFV-NC_012533.1 UGGCCNNNNNNNAUAAACCAUAU-AAAACGCAUAUUGACCUUGGG-A--AAGACC-GG 150
MBFV-NC_002640.1 AUCAANNNNNNNNCCCCCAACACA-AAAACAGCAUAU¹UGACGC-UGGGA--AAGACC-AG 150
MBFV-NC_001474.2 GU---NNNNNNNNCCCCCGAAACAA-AAAACAGCAUAU¹UGACGC-UGGGA--AAGACC-AG 150
MBFV-NC_001477.1 GU---NNNNNNNNCCCCCGCAACAA-CAAACAGCAUAU¹UGACGC-UGGGA--GAGACC-AG 150
MBFV-NC_001475.2 GU---NNNNNNNNCCCCCGCAAAUA-AAAACAGCAUAU¹UGACGC-UGGGA--GAGACC-AG 150
dISFV-NC_017086.1 CU---NNNNNNNNCCCA-AAAAUGA-AGGGCACUAU¹UGACACUUGGGA--AAGACC-AG 150
dISFV-NC_040610.1 ----NNNNNNNNCAUUAUUUAU-AUAACAGCAUAU¹UGACACUUGGG-AUAGACCGGAG 153
dISFV-NC_024017.1 ----NNNNNNNNCUGCUGAG-C-AAAAUAGCAUAU¹UGACACUUGGGAAGAGACCAGAG 153
MBFV-NC_009028.2 ----NNNNNNNNCAAGCGCGAA-A-CAAACAGCAUAU¹UGACGCCUGGGA--AAGACCGGG 151
MBFV-NC_040776.1 ----NNNNNNNN-AAGCGCAAAGA-CAAACAGCAUAU¹UGACACCUGGGA--AAGACCGGG 151
MBFV-NC_034151.1 ----NNNNNNNGAA-CGCAAAU-AAAACAGCAUAU¹UGACACCUGGGA--UAGACUUGG 151
MBFV-NC_009029.2 ----NNNNNNNN-AGCGCAAACAC-AAAACAGCAUAU¹UGACACCUGGGA--AAGACUAGG 151
MBFV-NC_032088.1 ----NNNNNNNN-UACCGCAAAAC-AAAACAGCAUAU¹UGACACCUGGGA--UAGACUAGG 151
MBFV-NC_001563.2 ----NNNNNNNN-AAACACAAAAA-GAAACAGCAUAU¹UGACACCUGGGA--UAGACUAGG 151
MBFV-NC_009942.1 ----NNNNNNNN-AACACCACAAC-AAAACAGCAUAU¹UGACACCUGGGA--UAGACUAGG 151
MBFV-NC_006551.1 ----NNNNNNNN-UAAGCAUCAAA-AAAACAGCAUAU¹UGACACCUGGGAUUAGACUAGG 153
MBFV-NC_000943.1 ----NNNNNNNN-AAAAGCAUCA-ACAACAGCAUAU¹UGACACCUGGGA--AAGACUAGG 152
MBFV-NC_007580.2 ----NNNNNNNNCCGUUAAACGCA-ACAACAGCAUAU¹UGACACCUGGGA--AGAC-AGG 150
MBFV-NC_012534.1 ----NNNNNNNN-AACACCAAAAC-AAAACAGCAUAU¹UGACACCUGGGA--GAGACUAGG 151
MBFV-NC_015843.2 ----NNNNNNNN-GAACACCACAA-GAAACAGCAUAU¹UGACACCUGGGA--UAGACUAGG 151
MBFV-NC_009026.2 ----NNNNNNNN-ACGACCAAAA-GAAACAGCAUAU¹UGACACCUGGGA--UAGACCGGA 151
MBFV-NC_001437.1 ----NNNNNNNN-CAUAUUGACAC-CUGGGAAUAGACU¹GGGAGAUUCUUC--UGCUCUAUC 151
MBFV-NC_002031.1 GU---NNNNNNNNAGGGAACAAUAU-GUGGGACCAUAU¹UGACGCCAGGGA--AAGACC-GG 151
MBFV-NC_008719.1 ----NNNNNNNNCCGAGCAC-UAUAGCGGACCAUAU¹UGACGCCUGGG-A--AAGAC-CGG 150
MBFV-NC_012735.1 ----NNNNNNNNCCGAGCACACAUAGCGGACCAUAU¹UGACGCCAGGG-A--AAGAC-CGG 151
dISFV-NC_016997.1 ----NNNNNNNN-CAAAAUGUAUAGGCUAUUAU¹UGACACCUAGG-A--AAGAC-UGG 150
dISFV-NC_027999.1 ----NNNNNNNNCC-AUUGGAAAUUAGCUUC¹CAUAU¹UGACACCAGGGAA--AAGAC-CGG 151
20.....130.....140.....150.....160.....170.....1



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MBFV-NC_012532.1 AGACUCCAUGAGUUUCC 167
MBFV-NC_035889.1 AGACUCCAUGAGUUUCC 167
MBFV-NC_012533.1 AGACUCUGUUGGCUUUC 167
MBFV-NC_002640.1 AGAUCCUGCUGUCUCUG 167
MBFV-NC_001474.2 AGAUCCUGCUGUCUCCU 167
MBFV-NC_001477.1 AGAUCCUGCUGUCUCUA 167
MBFV-NC_001475.2 AGAUCCUGCUGUCUCCU 167
dISFV-NC_017086.1 AGGUACUCGCUGAUUA 167
dISFV-NC_040610.1 AAAUACACAAUUUC--- 167
dISFV-NC_024017.1 AUAUGAUGUUGUU--- 167
MBFV-NC_009028.2 AGAUCCUCUGC-UUUCC 167
MBFV-NC_040776.1 AGACCCUCUGC-UCUGC 167
MBFV-NC_034151.1 AGACCCUCUGC-UUAUU 167
MBFV-NC_009029.2 GGAUUUGCUGC-UCUGG 167
MBFV-NC_032088.1 AGAUCCGUGC-UCUGG 167
MBFV-NC_001563.2 GGAUCUUCUGC-UCUGC 167
MBFV-NC_009942.1 AGAUCUUCUGC-UCUGC 167
MBFV-NC_006551.1 AGAUCUUCUGC-UCU-- 167
MBFV-NC_000943.1 AGAUCUUCUGC-UCUA- 167
MBFV-NC_007580.2 AGAUCCCCUGUUUUUC 167
MBFV-NC_012534.1 AGA-CCCUCUGUCCUAA 167
MBFV-NC_015843.2 AGA-CCCUCUGUCCUAA 167
MBFV-NC_009026.2 GAAUUUGCUGCCUC-GC 167
MBFV-NC_001437.1 UCAACAUCAGCCUACU- 167
MBFV-NC_002031.1 AGUGGUUCUCU-GCUUU 167
MBFV-NC_008719.1 AGACACUCCUUGAUUCU 167
MBFV-NC_012735.1 AGACACUCCUUGAUUC- 167
dISFV-NC_016997.1 AGAUACCUUUUGGUUCU 167
dISFV-NC_027999.1 AGAAACUUCUUGCUUA- 167
80.....190.....

