

2390 2400 2410 2420 2430 2440 2450

Marchantia_polymorpha_Mapoly00 AGGAGGATGCT TGTGTACGAC ACTTGGCGACCA TCGAGGCTCGGA CAAAA
Marchantia_paleacea_onekp:HWO AGGAAGATGCT TGTGTACGAC ACTTGGCGACCA TCGAGGCTCGGA CAAAA
Marchantia_emarginata_onekp:TF CCGAATATCGA TGTGTACGAA ACTTGGCGGCCA TCGAGGCTCGGA CAAAA
Conocephalum_conicum_onekp:ILB AGGATATGCA TGTGTACGAA TCTTTGGCGCCA TCGAGGCTCGGA CAGAA
Junularia_cruciata_onekp:TXVB AGGAAATGCT TGTGTACGAC ACATGGCGGCCA TCGAGGCTCGGA CAAAT
Riccia_berghiana_onekp:WJLO_s AGGAAATGCT TGTGTACGAC ACATGGCGGCCA TCGAGGCTCGGA CAAAT
Barbilophozia_barbata_onekp:OF CCGCCAGC AGCTCTAGGCTTGGCAACAGTC
Odontoschisma_prostratum_onekp CCGCCAGC AGCTCTAGGCTTGGCAACAGTC
Calypogeia_fissa_onekp:RTMU_sc GACTGCAATC
Porella_pinnata_onekp:UUHD_sca CTTAGAGCGGTTGGAACTGAAAC
Metzgeria_craspiilis_onekp:NR ATGACGAGGCTCAGAGGTGTATCTTC TGTCTTGGCTGCTCT TCGAGGCTTGGCAATCAGTC
Pellia_neesiana_onekp:JHFI_sca CTGTGCTGGGCAAGCTGTGTCTGACTCCCC TGACCTGGCGGCC -CAACCTCCAGTCTCATGT

2460 2470 2480 2490 2500 2510 2520

Marchantia_polymorpha_Mapoly00 CCATGCGCTTGATTCGGTACCCGAGACCGATTC TAGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Marchantia_paleacea_onekp:HWO CCATGCGCTTGATTCGGTACCCGAGACCGATTC TAGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Marchantia_emarginata_onekp:TF CCATGCGCTTGATTCGGTACCCGAGACCGATTC TAGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Conocephalum_conicum_onekp:ILB CCATGCGCTTGATTCGGTACCCGAGACCGATTC TAGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Junularia_cruciata_onekp:TXVB CCATGCGCTTGATTCGGTACCCGAGACCGATTC TAGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Riccia_berghiana_onekp:WJLO_s CCATGCGCTTGATTCGGTACCCGAGACCGATTC TAGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Barbilophozia_barbata_onekp:OF CATCTCCGTTGACCTAGTACTGGGAGCAGCTCAGGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Odontoschisma_prostratum_onekp CATCTCCGTTGACCTAGTACTGGGAGCAGCTCAGGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Calypogeia_fissa_onekp:RTMU_sc TCTCTCTCGGAGCGTAGTCTCTGGGAGCAGCTCAGGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Porella_pinnata_onekp:UUHD_sca CGTTTCCATGGATCTAGTGTGGGAGCAGCTCAGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Metzgeria_craspiilis_onekp:NR TATCTCAGCAGTCTAGTGTCCCGGGAGCAGCTCAGGGAAGCGA TTTCTCCAGATGAGTCTG GGGCA
Pellia_neesiana_onekp:JHFI_sca TGTGTATCCGCTCATGTCTCATCTTAGC GAGTCAAGGAAGCGT TTTCTCCAGATGGGCTTCCAGGGCA

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Marchantia_polymorpha_Mapoly00 C CCAACGAT A CGAATCACAAGCGCGTGCATTGGACACAGTCTCCAAAGCTGCAGACA A
Marchantia_paleacea_onekp:HWO C CCAACGAT A CGAATCACAAGCGCGTGCATTGGACACAGTCTCCAAAGCTGCAGACA A
Marchantia_emarginata_onekp:TF C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Conocephalum_conicum_onekp:ILB C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Junularia_cruciata_onekp:TXVB C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Riccia_berghiana_onekp:WJLO_s C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Barbilophozia_barbata_onekp:OF C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Odontoschisma_prostratum_onekp C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Calypogeia_fissa_onekp:RTMU_sc C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Porella_pinnata_onekp:UUHD_sca C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Metzgeria_craspiilis_onekp:NR C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A
Pellia_neesiana_onekp:JHFI_sca C CCAAGTGAT A CCAATCACAAGCGCGTGCATTGGATACAGTCTCTAAATGTCAGACA A

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Marchantia_polymorpha_Mapoly00 C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Marchantia_paleacea_onekp:HWO C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Marchantia_emarginata_onekp:TF C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Conocephalum_conicum_onekp:ILB C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Junularia_cruciata_onekp:TXVB C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Riccia_berghiana_onekp:WJLO_s C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Barbilophozia_barbata_onekp:OF C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Odontoschisma_prostratum_onekp C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Calypogeia_fissa_onekp:RTMU_sc C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Porella_pinnata_onekp:UUHD_sca C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Metzgeria_craspiilis_onekp:NR C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC
Pellia_neesiana_onekp:JHFI_sca C GGTTCGGCTTACCACCTCTA AAGCGCTCATCTCATGGGCTCTTCTCTCACA TCCACTGTCTTAAGAC

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Marchantia_polymorpha_Mapoly00 TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Marchantia_paleacea_onekp:HWO TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Marchantia_emarginata_onekp:TF TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Conocephalum_conicum_onekp:ILB TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Junularia_cruciata_onekp:TXVB TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Riccia_berghiana_onekp:WJLO_s TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Barbilophozia_barbata_onekp:OF TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Odontoschisma_prostratum_onekp TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Calypogeia_fissa_onekp:RTMU_sc TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Porella_pinnata_onekp:UUHD_sca TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Metzgeria_craspiilis_onekp:NR TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC
Pellia_neesiana_onekp:JHFI_sca TGTAGAGCCGCAATTAACCTGGGCTTGTACCTTACACAAGCTCGAATTCAGACATGCCGTCGGGCC

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Marchantia_polymorpha_Mapoly00 GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Marchantia_paleacea_onekp:HWO GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Marchantia_emarginata_onekp:TF GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Conocephalum_conicum_onekp:ILB GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Junularia_cruciata_onekp:TXVB GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Riccia_berghiana_onekp:WJLO_s GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Barbilophozia_barbata_onekp:OF GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Odontoschisma_prostratum_onekp GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Calypogeia_fissa_onekp:RTMU_sc GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Porella_pinnata_onekp:UUHD_sca GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Metzgeria_craspiilis_onekp:NR GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC
Pellia_neesiana_onekp:JHFI_sca GCTTTGAACACCAATCTGAAGCCCGGAGCCCGGAGGCGAGTGCAGAAAGATCTCAGAGCATAGAGCTC