

Title: Sorghum *Dw1*, an agronomically important gene for lodging resistance, encodes a novel protein involved in cell proliferation

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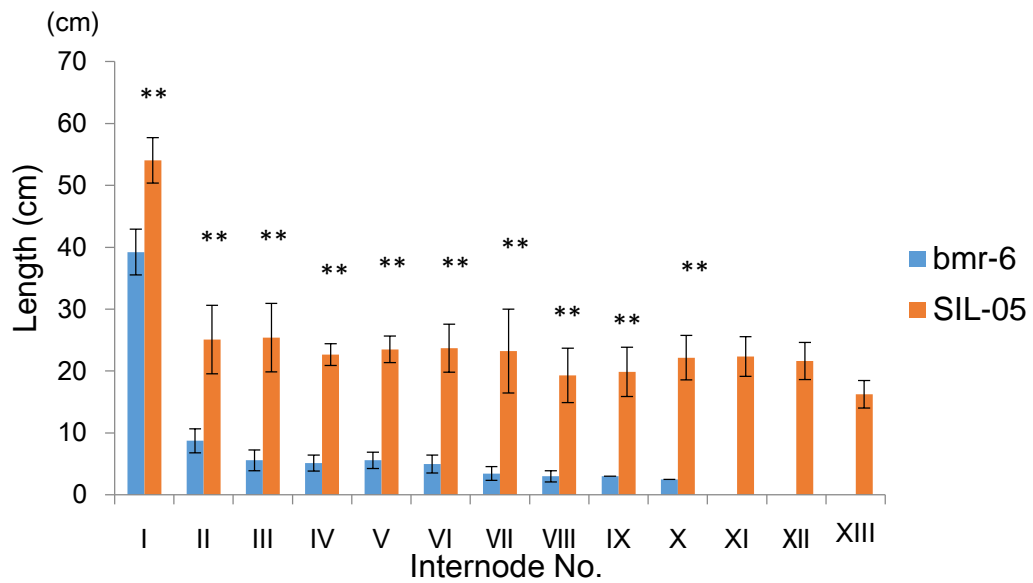
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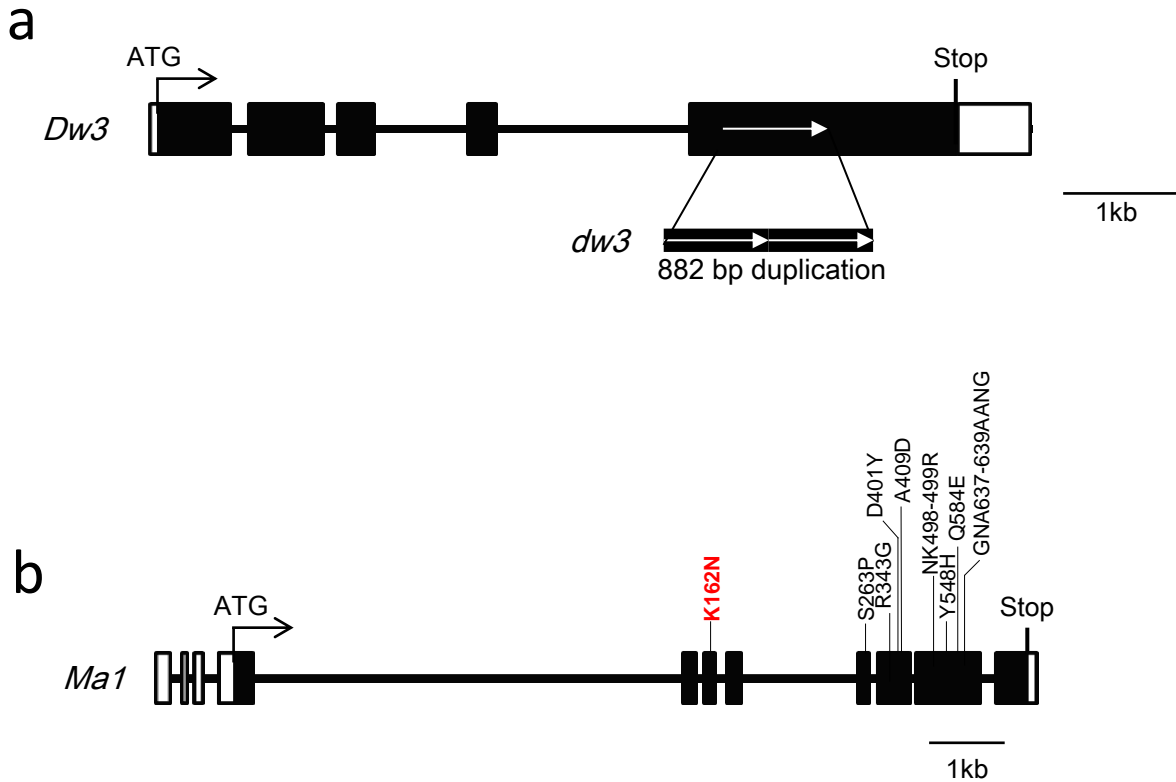
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Supplementary figures: S1 to S7

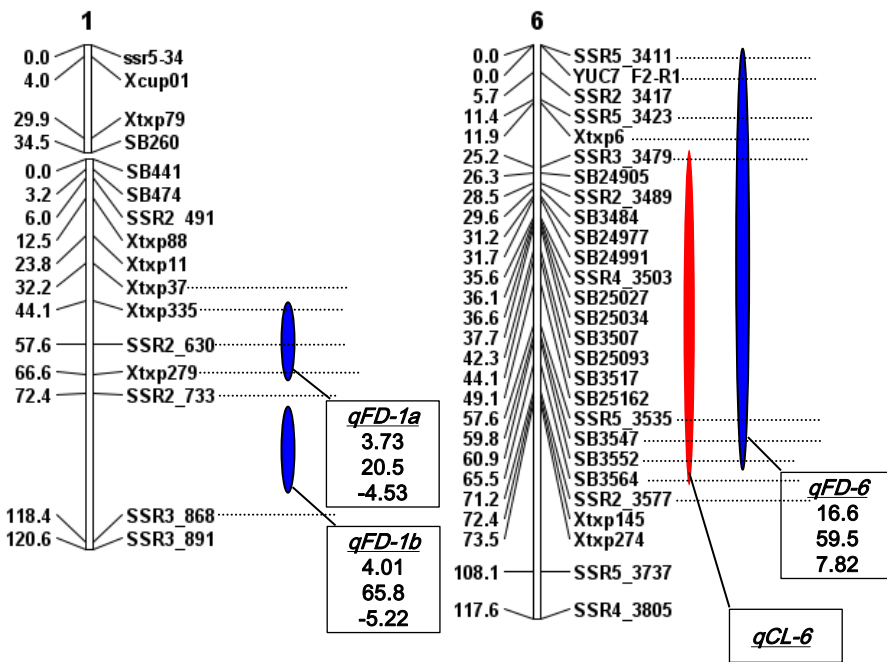
Supplementary tables: S1



Supplementary Figure S1 | Length of each internode of bmr-6 (blue) and SIL-05 (orange). Two asterisks indicates $P < 0.01$.



Supplementary Figure S2 | *bmr-6* contains the loss-of-function alleles of *Dw3* and *Ma1*. The gene structures of *Dw3* (a) and *Ma1* (b), and their mutations are shown. Protein coding regions and UTRs are represented by black and white boxes, respectively. Introns are indicated by black bars. 'ATG' and 'Stop' indicate the translation initiation and stop codons, respectively. (a) *bmr-6* contains a duplication of 882 bp in *Dw3*. (b) Positions of nine amino acid exchanges are shown, and the mutation K162N, which was reported (see text) is indicated in bold red.



Supplementary Figure S3 | QTL analysis for FD and a comparison of QTL map positions for FD and CL. Blue and red ellipses indicate the positions of QTLs for FD and CL, respectively. Only chromosomes with LOD scores > 3.0 are shown. Information in the box is same as in Fig. 1e. The SIL-05 allele delayed the FD in *qFD-6*, and the bmr-6 allele accelerated the FD in *qFD-1a* and *qFD-1b*.

BTx623 1:CATACGTGTTTTACTTTTACACTATTGGTGGTGGCTTGACTCAACTGCTCAGTGCTCAGG 60
Dwarf white milo 1:CATACGTGTTTTACTTTTACACTATTGGTGGTGGCTTGACTCAACTGCTCAGTGCTCAGG 60
Tall white sooner milo 1:CATACGTGTTTTACTTTTACACTATTGGTGGTGGCTTGACTCAACTGCTCAGTGCTCAGG 60
bmr-6 1:CATACGTGTTTTACTTTTACACTATTGGTGGTGGCTTGACTCAACTGCTCAGTGCTCAGG 60

BTx623 61:CACCTTGCTCGCCGCGCGCAGCAGCGGACGACGCAAGCGACGGCGCAGCTCCACCGC 120
Dwarf white milo 61:CACCTTGCTCGCCGCGCGCAGCAGCGGACGACGCAAGCGACGGCGCAGCTCCACCGC 120
Tall white sooner milo 61:CACCTTGCTCGCCGCGCGCAGCAGCGGACGACGCAAGCGACGGCGCAGCTCCACCGC 120
bmr-6 61:CACCTTGCTCGCCGCGCGCAGCAGCGGACGACGCAAGCGACGGCGCAGCTCCACCGC 120

BTx623 121:TCTCCGCTCGATCCCTCTTCTCCATTTTCGAGGCGACGGCGCAGCTCCACCGCAC 180
Dwarf white milo 121:TCTCCGCTCGATCCCTCTTCTCCATTTTCGAGGCGACGGCGCAGCTCCACCGCAC 180
Tall white sooner milo 121:TCTCCGCTCGATCCCTCTTCTCCATTTTCGAGGCGACGGCGCAGCTCCACCGCAC 180
bmr-6 121:TCTCCGCTCGATCCCTCTTCTCCATTTTCGAGGCGACGGCGCAGCTCCACCGCAC 180

BTx623 181:CGCGAGGCAAGGTCCCTCTTCTGTTGAGCTCGTCTCGGGTTCGGGGCGGGTTGAGTA 240
Dwarf white milo 181:CGCGAGGCAAGGTCCCTCTTCTGTTGAGCTCGTCTCGGGTTCGGGGCGGGTTGAGTA 240
Tall white sooner milo 181:CGCGAGGCAAGGTCCCTCTTCTGTTGAGCTCGTCTCGGGTTCGGGGCGGGTTGAGTA 240
bmr-6 181:CGCGAGGCAAGGTCCCTCTTCTGTTGAGCTCGTCTCGGGTTCGGGGCGGGTTGAGTA 240

BTx623 241:TCTGATTCGGGTGCGGGTACGCGGATGCTCACCCGCCCGACCCGCTCCGTTGCCAT 300
Dwarf white milo 241:TCTGATTCGGGTGCGGGTACGCGGATGCTCACCCGCCCGACCCGCTCCGTTGCCAT 300
Tall white sooner milo 241:TCTGATTCGGGTGCGGGTACGCGGATGCTCACCCGCCCGACCCGCTCCGTTGCCAT 300
bmr-6 241:TCTGATTCGGGTGCGGGTACGCGGATGCTCACCCGCCCGACCCGCTCCGTTGCCAT 300

BTx623 301:CCCGTGCCGTGCTACCCCTACCTTTTCTTCTCCGTTTACCACCCCTCGTGCGCTC 360
Dwarf white milo 301:CCCGTGCCGTGCTACCCCTACCTTTTCTTCTCCGTTTACCACCCCTCGTGCGCTC 360
Tall white sooner milo 301:CCCGTGCCGTGCTACCCCTACCTTTTCTTCTCCGTTTACCACCCCTCGTGCGCTC 360
bmr-6 301:CCCGTGCCGTGCTACCCCTACCTTTTCTTCTCCGTTTACCACCCCTCGTGCGCTC 360

BTx623 361:TCCTCACTCTCACTCAGCTCTCTTTCTCTCTCGTGGGAGACGACTGGGCGACCCGCG 420
Dwarf white milo 361:TCCTCACTCTCACTCAGCTCTCTTTCTCTCTCGTGGGAGACGACTGGGCGACCCGCG 420
Tall white sooner milo 361:TCCTCACTCTCACTCAGCTCTCTTTCTCTCTCGTGGGAGACGACTGGGCGACCCGCG 420
bmr-6 361:TCCTCACTCTCACTCAGCTCTCTTTCTCTCTCGTGGGAGACGACTGGGCGACCCGCG 420

BTx623 421:CGCCGACCGTGCTCAGGCCTTCGTCGAGACCATCGCCGGCGAAGAGCACCACAGGTAT 480
Dwarf white milo 421:CGCCGACCGTGCTCAGGCCTTCGTCGAGACCATCGCCGGCGAAGAGCACCACAGGTAT 480
Tall white sooner milo 421:CGCCGACCGTGCTCAGGCCTTCGTCGAGACCATCGCCGGCGAAGAGCACCACAGGTAT 480
bmr-6 421:CGCCGACCGTGCTCAGGCCTTCGTCGAGACCATCGCCGGCGAAGAGCACCACAGGTAT 480

BTx623 481:GCGCACTTCTTGCTTCCCTCCAGATGCGCGAAACCGAGCAGCAAACCTAACTTAAG 540
Dwarf white milo 481:GCGCACTTCTTGCTTCCCTCCAGATGCGCGAAACCGAGCAGCAAACCTAACTTAAG 540
Tall white sooner milo 481:GCGCACTTCTTGCTTCCCTCCAGATGCGCGAAACCGAGCAGCAAACCTAACTTAAG 540
bmr-6 481:GCGCACTTCTTGCTTCCCTCCAGATGCGCGAAACCGAGCAGCAAACCTAACTTAAG 540

BTx623 541:CTATTTGGCTATTTGACAGTGGATCTGATCTAATTACAGGTGCATACGCGATTATGCCT 600
Dwarf white milo 541:CTATTTGGCTATTTGACAGTGGATCTGATCTAATTACAGGTGCATACGCGATTATGCCT 600
Tall white sooner milo 541:CTATTTGGCTATTTGACAGTGGATCTGATCTAATTACAGGTGCATACGCGATTATGCCT 600
bmr-6 541:CTATTTGGCTATTTGACAGTGGATCTGATCTAATTACAGGTGCATACGCGATTATGCCT 600

BTx623 601:ACTAATTCGATTCCTTGCAAAAATTGTCGGCTGTATTTGTGTACCCCATGCCATTTAC 660
Dwarf white milo 601:ACTAATTCGATTCCTTGCAAAAATTGTCGGCTGTATTTGTGTACCCCATGCCATTTAC 660
Tall white sooner milo 601:ACTAATTCGATTCCTTGCAAAAATTGTCGGCTGTATTTGTGTACCCCATGCCATTTAC 660
bmr-6 601:ACTAATTCGATTCCTTGCAAAAATTGTCGGCTGTATTTGTGTACCCCATGCCATTTAC 660

BTx623 661:TGGGTCCGCTCTGATCCCGAGCAACCGTGTGTTTACAGTCAGAGATGCTTTCAGTTG 720
Dwarf white milo 661:TGGGTCCGCTCTGATCCCGAGCAACCGTGTGTTTACAGTCAGAGATGCTTTCAGTTG 720
Tall white sooner milo 661:TGGGTCCGCTCTGATCCCGAGCAACCGTGTGTTTACAGTCAGAGATGCTTTCAGTTG 720
bmr-6 661:TGGGTCCGCTCTGATCCCGAGCAACCGTGTGTTTACAGTCAGAGATGCTTTCAGTTG 720

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BTx623 721:GGAGCAGCCCTGGCACCAGGGCGGCGAATGGTGCCGCTGCCATCAGTGCTGCCGCGACGG 780
Dwarf white milo 721:GGAGCAGCCCTGGCACCAGGGCGGCGAATGGTGCCGCTGCCATCAGTGCTGCCGCGACGG 780
Tall white sooner milo 721:GGAGCAGCCCTGGCACCAGGGCGGCGAATGGTGCCGCTGCCATCAGTGCTGCCGCGACGG 780
bmr-6 721:GGAGCAGCCCTGGCACCAGGGCGGCGAATGGTGCCGCTGCCATCAGTGCTGCCGCGACGG 780

BTx623 781:CAGCAGGCTCAGCCGACGCCAGATTCCACTCCCAACTACTACAGCAGGACAGGGTACATA 840
Dwarf white milo 781:CAGCAGGCTCAGCCGACGCCAGATTCCACTCCCAACTACTACAGCAGGACAGGGTACATA 840
Tall white sooner milo 781:CAGCAGGCTCAGCCGACGCCAGATTCCACTCCCAACTACTACAGCAGGACAGGGTACATA 840
bmr-6 781:CAGCAGGCTCAGCCGACGCCAGATTCCACTCCCAACTACTACAGCAGGACAGGGTACATA 840

BTx623 841:CACTATATACCATTGTTGTTCCATGGGCGGATGCAATCGGGCTTGGGCTTTAGCTGCAG 900
Dwarf white milo 841:CACTATATACCATTGTTGTTCCATGGGCGGATGCAATCGGGCTTGGGCTTTAGCTGCAG 900
Tall white sooner milo 841:CACTATATACCATTGTTGTTCCATGGGCGGATGCAATCGGGCTTGGGCTTTAGCTGCAG 900
bmr-6 841:CACTATATACCATTGTTGTTCCATGGGCGGATGCAATCGGGCTTGGGCTTTAGCTGCAG 900

BTx623 901:CTTTGCTTGCATGCTTTAGATATGTGGACGACAGGATCAGTACCGGAATTTTGTAGTCG 960
Dwarf white milo 901:CTTTGCTTGCATGCTTTAGATATGTGGACGACAGGATCAGTACCGGAATTTTGTAGTCG 960
Tall white sooner milo 901:CTTTGCTTGCATGCTTTAGATATGTGGACGACAGGATCAGTACCGGAATTTTGTAGTCG 960
bmr-6 901:CTTTGCTTGCATGCTTTAGATATGTGGACGACAGGATCAGTACCGGAATTTTGTAGTCG 960

BTx623 961:GCCTTGACGACCTAGATTGGCAATTTGGGCCAGCCTTTGCTTACTCAGTACGAATTGTAC 1020
Dwarf white milo 961:GCCTTGACGACCTAGATTGGCAATTTGGGCCAGCCTTTGCTTACTCAGTACGAATTGTAC 1020
Tall white sooner milo 961:GCCTTGACGACCTAGATTGGCAATTTGGGCCAGCCTTTGCTTACTCAGTACGAATTGTAC 1020
bmr-6 961:GCCTTGACGACCTAGATTGGCAATTTGGGCCAGCCTTTGCTTACTCAGTACGAATTGTAC 1020

BTx623 1021:TGCCCTGCAGTGGTTATGACTTGAAACTGGGCATCTTTACCAGCAATAATTTGGCTTCAG 1080
Dwarf white milo 1021:TGCCCTGCAGTGGTTATGACTTGAAACTGGGCATCTTTACCAGCAATAATTTGGCTTCAG 1080
Tall white sooner milo 1021:TGCCCTGCAGTGGTTATGACTTGAAACTGGGCATCTTTACCAGCAATAATTTGGCTTCAG 1080
bmr-6 1021:TGCCCTGCAGTGGTTATGACTTGAAACTGGGCATCTTTACCAGCAATAATTTGGCTTCAG 1080

BTx623 1081:TACTATATATATGCTTGGTTGCTTCTGTGACAGATAATTTATTTAGTTGGATTTTGTCTTTG 1140
Dwarf white milo 1081:TACTATATATATGCTTGGTTGCTTCTGTGACAGATAATTTATTTAGTTGGATTTTGTCTTTG 1140
Tall white sooner milo 1081:TACTATATATATGCTTGGTTGCTTCTGTGACAGATAATTTATTTAGTTGGATTTTGTCTTTG 1140
bmr-6 1081:TACTATATATATGCTTGGTTGCTTCTGTGACAGATAATTTATTTAGTTGGATTTTGTCTTTG 1140

BTx623 1141:CTATGTTGTAATGCACACGTTTTGCACCTCCTATTTTGTTTTCAGTCCAGAGGCTTTTG 1200
Dwarf white milo 1141:CTATGTTGTAATGCACACGTTTTGCACCTCCTATTTTGTTTTCAGTCCAGAGGCTTTTG 1200
Tall white sooner milo 1141:CTATGTTGTAATGCACACGTTTTGCACCTCCTATTTTGTTTTCAGTCCAGAGGCTTTTG 1200
bmr-6 1141:CTATGTTGTAATGCACACGTTTTGCACCTCCTATTTTGTTTTCAGTCCAGAGGCTTTTG 1200

BTx623 1201:TGATATCATTCTCCAGAGAATGTATATACTAATAAGTTCCTGATTTTACCCCTCGATAC 1260
Dwarf white milo 1201:TGATATCATTCTCCAGAGAATGTATATACTAATAAGTTCCTGATTTTACCCCTCGATAC 1260
Tall white sooner milo 1201:TGATATCATTCTCCAGAGAATGTATATACTAATAAGTTCCTGATTTTACCCCTCGATAC 1260
bmr-6 1201:TGATATCATTCTCCAGAGAATGTATATACTAATAAGTTCCTGATTTTACCCCTCGATAC 1260

BTx623 1261:ACTCCCACCCATTTGATGTTGAAGTAGGGGCAAAAAGCTTTTACACCTGGGATAATCCTT 1320
Dwarf white milo 1261:ACTCCCACCCATTTGATGTTGAAGTAGGGGCAAAAAGCTTTTACACCTGGGATAATCCTT 1320
Tall white sooner milo 1261:ACTCCCACCCATTTGATGTTGAAGTAGGGGCAAAAAGCTTTTACACCTGGGATAATCCTT 1320
bmr-6 1261:ACTCCCACCCATTTGATGTTGAAGTAGGGGCAAAAAGCTTTTACACCTGGGATAATCCTT 1320

BTx623 1321:GCTTTATGATAAAAATCTTTTTCCATGTGAATACTTTTGGATTTTGTGAAACACTAACA 1380
Dwarf white milo 1321:GCTTTATGATAAAAATCTTTTTCCATGTGAATACTTTTGGATTTTGTGAAACACTAACA 1380
Tall white sooner milo 1321:GCTTTATGATAAAAATCTTTTTCCATGTGAATACTTTTGGATTTTGTGAAACACTAACA 1380
bmr-6 1321:GCTTTATGATAAAAATCTTTTTCCATGTGAATACTTTTGGATTTTGTGAAACACTAACA 1380

BTx623 1381:TTTCGTATGTTCTATTGTATGATTCCTTTGATGCTTATTCTTATGCATTTTTCTTCCCA 1440
Dwarf white milo 1381:TTTCGTATGTTCTATTGTATGATTCCTTTGATGCTTATTCTTATGCATTTTTCTTCCCA 1440
Tall white sooner milo 1381:TTTCGTATGTTCTATTGTATGATTCCTTTGATGCTTATTCTTATGCATTTTTCTTCCCA 1440
bmr-6 1381:TTTCGTATGTTCTATTGTATGATTCCTTTGATGCTTATTCTTATGCATTTTTCTTCCCA 1440

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BTx623 1441: CAACACAATGATAATAAAAAATGTTTTTTTGTATACAAAGTATAGATTACTGCTCCTTTGA 1500
Dwarf white milo 1441: CAACACAATGATAATAAAAAATGTTTTTTTGTATACAAAGTATAGATTACTGCTCCTTTGA 1500
Tall white sooner milo 1441: CAACACAATGATAATAAAAAATGTTTTTTTGTATACAAAGTATAGATTACTGCTCCTTTGA 1500
bmr-6 1441: CAACACAATGATAATAAAAAATGTTTTTTTGTATACAAAGTATAGATTACTGCTCCTTTGA 1500

BTx623 1501: AATTTGTTGTCATGTGTTTTCTTTTATTCTGTGGTGACAGCTAAGTTATTTGCTTGA 1560
Dwarf white milo 1501: AATTTGTTGTCATGTGTTTTCTTTTATTCTGTGGTGACAGCTAAGTTATTTGCTTGA 1560
Tall white sooner milo 1501: AATTTGTTGTCATGTGTTTTCTTTTATTCTGTGGTGACAGCTAAGTTATTTGCTTGA 1560
bmr-6 1501: AATTTGTTGTCATGTGTTTTCTTTTATTCTGTGGTGACAGCTAAGTTATTTGCTTGA 1560

BTx623 1561: CTAACACACGCTTCTACTCTAAACAGCAAAGTAGATGGGCTGGCTGCTTTTCAGGTTT 1620
Dwarf white milo 1561: CTAACACACGCTTCTACTCTAAACAGCAAAGTAGATGGGCTGGCTGCTTTTCAGGTTT 1620
Tall white sooner milo 1561: CTAACACACGCTTCTACTCTAAACAGCAAAGTAGATGGGCTGGCTGCTTTTCAGGTTT 1620
bmr-6 1561: CTAACACACGCTTCTACTCTAAACAGCAAAGTAGATGGGCTGGCTGCTTTTCAGGTTT 1620

BTx623 1621: ATCATGTTTCGGATCGCAGAAGGGCGGAAAAGAATTGTTCTGCAGCAGCTACTTCTGA 1680
Dwarf white milo 1621: ATCATGTTTCGGATCGCAGAAGGGCGGAAAAGAATTGTTCTGCAGCAGCTACTTCTGA 1680
Tall white sooner milo 1621: ATCATGTTTCGGATCGCAGAAGGGCGGAAAAGAATTGTTCTGCAGCAGCTACTTCTGA 1680
bmr-6 1621: ATCATGTTTCGGATCGCAGAAGGGCGGAAAAGAATTGTTCTGCAGCAGCTACTTCTGA 1680

BTx623 1681: TGGGAATGGATCAAATGCTCGTGGAAATGGTCAATCTGGTGCCAATTCAAACCAAATAT 1740
Dwarf white milo 1681: TGGGAATGGATCAAATGCTCGTGGAAATGGTCAATCTGGTGCCAATTCAAACCAAATAT 1740
Tall white sooner milo 1681: TGGGAATGGATCAAATGCTCGTGGAAATGGTCAATCTGGTGCCAATTCAAACCAAATAT 1740
bmr-6 1681: TGGGAATGGATCAAATGCTCGTGGAAATGGTCAATCTGGTGCCAATTCAAACCAAATAT 1740

BTx623 1741: GCCTATGAATTTATCTCTTCTGGCTCCACCATCATCACCAGCATCCTTCTCAAACCTGTC 1800
Dwarf white milo 1741: GCCTATGAATTTATCTCTTCTGGCTCCACCATCATCACCAGCATCCTTCTCAAACCTGTC 1800
Tall white sooner milo 1741: GCCTATGAATTTATCTCTTCTGGCTCCACCATCATCACCAGCATCCTTCTCAAACCTGTC 1800
bmr-6 1741: GCCTATGAATTTATCTCTTCTGGCTCCACCATCATCACCAGCATCCTTCTCAAACCTGTC 1800

BTx623 1801: CCTTCCTTCGACTGCTCAATCACC GAATTGCTTTCTGTCTGTATCTGCAAACCTCCTCGG 1860
Dwarf white milo 1801: CCTTCCTTCGACTGCTCAATCACC GAATTGCTTTCTGTCTGTATCTGCAAACCTCCTCGG 1860
Tall white sooner milo 1801: CCTTCCTTCGACTGCTCAATCACC GAATTGCTTTCTGTCTGTATCTGCAAACCTCCTCGG 1860
bmr-6 1801: CCTTCCTTCGACTGCTCAATCACC GAATTGCTTTCTGTCTGTATCTGCAAACCTCCTCGG 1860

BTx623 1861: CGGTCCAACGTCTAATATGTTGCTGTTGGGCCATATGCTAATGAACCTCAACTTGTTCTC 1920
Dwarf white milo 1861: CGGTCCAACGTCTAATATGTTGCTGTTGGGCCATATGCTAATGAACCTCAACTTGTTCTC 1920
Tall white sooner milo 1861: CGGTCCAACGTCTAATATGTTGCTGTTGGGCCATATGCTAATGAACCTCAACTTGTTCTC 1920
bmr-6 1861: CGGTCCAACGTCTAATATGTTGCTGTTGGGCCATATGCTAATGAACCTCAACTTGTTCTC 1920

BTx623 1921: GCCACCTGTCTTCTCAAACCTACACAAGTACAGCATTGACCCACCACC 1980
Dwarf white milo 1921: GCCACCTGTCTTCTCAAACCTACACAAGTACAGCATTGACCCACCACC 1980
Tall white sooner milo 1921: GCCACCTGTCTTCTCAAACCTACACAAGTACAGCATTGACCCACCACC 1980
bmr-6 1921: GCCACCTGTCTTCTCAAACCTACACAAGTACAGCATTGACCCACCACC 1980

BTx623 1981: TGAAGTACGCTCATGCAACAACGCCTTCTTCTCCAGATGTTCCATATGCTCGATTCTTTT 2040
Dwarf white milo 1981: TGAAGTACGCTCATGCAACAACGCCTTCTTCTCCAGATGTTCCATATGCTCGATTCTTTT 2040
Tall white sooner milo 1981: TGAAGTACGCTCATGCAACAACGCCTTCTTCTCCAGATGTTCCATATGCTCGATTCTTTT 2040
bmr-6 1981: TGAAGTACGCTCATGCAACAACGCCTTCTTCTCCAGATGTTCCATATGCTCGATTCTTTT 2040

BTx623 2041: TTCTTCTATGGATATCTAAACTGCCAGCAAGGAGCATAACATGCCTTTCTTATCAACAGC 2100
Dwarf white milo 2041: TTCTTCTATGGATATCTAAACTGCCAGCAAGGAGCATAACATGCCTTTCTTATCAACAGC 2100
Tall white sooner milo 2041: TTCTTCTATGGATATCTAAACTGCCAGCAAGGAGCATAACATGCCTTTCTTATCAACAGC 2100
bmr-6 2041: TTCTTCTATGGATATCTAAACTGCCAGCAAGGAGCATAACATGCCTTTCTTATCAACAGC 2100

BTx623 2101: CTATTCTGGTGGTTCAGGACTCCAGGCATCTACCCACTTTACCCTGAAAGCCCTTGATG 2160
Dwarf white milo 2101: CTATTCTGGTGGTTCAGGACTCCAGGCATCTACCCACTTTACCCTGAAAGCCCTTGATG 2160
Tall white sooner milo 2101: CTATTCTGGTGGTTCAGGACTCCAGGCATCTACCCACTTTACCCTGAAAGCCCTTGATG 2160
bmr-6 2101: CTATTCTGGTGGTTCAGGACTCCAGGCATCTACCCACTTTACCCTGAAAGCCCTTGATG 2160

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BTx623 2161: CAGCCTCATCTCACCAGCTTCAGTAACCTCCGAGGACTGGTCTATCCTCACCTATACCTGA 2220
Dwarf white milo 2161: CAGCCTCATCTCACCAGCTTCAGTAACCTCCGAGGACTGGTCTATCCTCACCTATACCTGA 2220
Tall white sooner milo 2161: CAGCCTCATCTCACCAGCTTCAGTAACCTCCGAGGACTGGTCTATCCTCACCTATACCTGA 2220
bmr-6 2161: CAGCCTCATCTCACCAGCTTCAGTAACCTCCGAGGACTGGTCTATCCTCACCTATACCTGA 2220

BTx623 2221: GCAAGAGGTTCTCCTGCCATTGGAAGACCTCTAGGTCCGCCTGCACACGCCATACTT 2280
Dwarf white milo 2221: GCAAGAGGTTCTCCTGCCATTGGAAGACCTCTAGGTCCGCCTGCACACGCCATACTT 2280
Tall white sooner milo 2221: GCAAGAGGTTCTCCTGCCATTGGAAGACCTCTAGGTCCGCCTGCACACGCCATACTT 2280
bmr-6 2221: GCAAGAGGTTCTCCTGCCATTGGAAGACCTCTAGGTCCGCCTGCACACGCCATACTT 2280

BTx623 2281: CAGGGCTTCACCAATTCCTGAGCAAGAGACCACTGCACAATGGAAGACCTCTAGATCTGC 2340
Dwarf white milo 2281: CAGGGCTTCACCAATTCCTGAGCAAGAGACCACTGCACAATGGAAGACCTCTAGATCTGC 2340
Tall white sooner milo 2281: CAGGGCTTCACCAATTCCTGAGCAAGAGACCACTGCACAATGGAAGACCTCTAGATCTGC 2340
bmr-6 2281: CAGGGCTTCACCAATTCCTGAGCAAGAGACCACTGCACAATGGAAGACCTCTAGATCTGC 2340

BTx623 2341: TTGTGACACACCGTATGCCAGGAACTCACCACCAATATTTTTGGTCTGGATTATCTAC 2400
Dwarf white milo 2341: TTGTGACACACCGTATGCCAGGAACTCACCACCAATATTTTTGGTCTGGATTATCTAC 2400
Tall white sooner milo 2341: TTGTGACACACCGTATGCCAGGAACTCACCACCAATATTTTTGGTCTGGATTATCTAC 2400
bmr-6 2341: TTGTGACACACCGTATGCCAGGAACTCACCACCAATATTTTTGGTCTGGATTATCTAC 2400

BTx623 2401: CCCGAGAACTATATGCTAGATAGCAATTTCTTCGGCCAGCGGCATCTGCTCAATTCTA 2460
Dwarf white milo 2401: CCCGAGAACTATATGCTAGATAGCAATTTCTTCGGCCAGCGGCATCTGCTCAATTCTA 2460
Tall white sooner milo 2401: CCCGAGAACTATATGCTAGATAGCAATTTCTTCGGCCAGCGGCATCTGCTCAATTCTA 2460
bmr-6 2401: CCCGAGAACTATATGCTAGATAGCAATTTCTTCGGCCAGCGGCATCTGCTCAATTCTA 2460

BTx623 2461: CCTGGACCAGGCTCAGCAGACGTTTCCACATAATGGCGGAGGGTTAGTGATCCAGGGA 2520
Dwarf white milo 2461: CCTGGACCAGGCTCAGCAGACGTTTCCACATAATGGCGGAGGGTTAGTGATCCAGGGA 2520
Tall white sooner milo 2461: CCTGGACCAGGCTCAGCAGACGTTTCCACATAATGGCGGAGGGTTAGTGATCCAGGGA 2520
bmr-6 2461: CCTGGACCAGGCTCAGCAGACGTTTCCACATAATGGCGGAGGGTTAGTGATCCAGGGA 2520

BTx623 2521: GAAGCAAGATGCCGATGAAATCGAAGCTTACAGAGCTTCATTTGGGTTTAGTGCTGATGA 2580
Dwarf white milo 2521: GAAGCAAGATGCCGATGAAATCGAAGCTTACAGAGCTTCATTTGGGTTTAGTGCTGATGA 2580
Tall white sooner milo 2521: GAAGCAAGATGCCGATGAAATCGAAGCTTACAGAGCTTCATTTGGGTTTAGTGCTGATGA 2580
bmr-6 2521: GAAGCAAGATGCCGATGAAATCGAAGCTTACAGAGCTTCATTTGGGTTTAGTGCTGATGA 2580

BTx623 2581: AATTGTCCAATCTCAATCTTATGTGGGATACCAGATGCGGTTGATGAGTCATTAGTAT 2640
Dwarf white milo 2581: AATTGTCCAATCTCAATCTTATGTGGGATACCAGATGCGGTTGATGAGTCATTAGTAT 2640
Tall white sooner milo 2581: AATTGTCCAATCTCAATCTTATGTGGGATACCAGATGCGGTTGATGAGTCATTAGTAT 2640
bmr-6 2581: AATTGTCCAATCTCAATCTTATGTGGGATACCAGATGCGGTTGATGAGTCATTAGTAT 2640

BTx623 2641: ATCACCATTTGAAACAATGCTCCTGCTACTGAGATATGCCCATTTAGTGATCTGCCTAA 2700
Dwarf white milo 2641: ATCACCATTTGAAACAATGCTCCTGCTACTGAGATATGCCCATTTAGTGATCTGCCTAA 2700
Tall white sooner milo 2641: ATCACCATTTGAAACAATGCTCCTGCTACTGAGATATGCCCATTTAGTGATCTGCCTAA 2700
bmr-6 2641: ATCACCATTTGAAACAATGCTCCTGCTACTGAGATATGCCCATTTAGTGATCTGCCTAA 2700

BTx623 2701: TGAGGTTGAGAAGTGGATAAATCATGTGCCTACGCTAAAGATGGCACAAGTCCAAAGAA 2760
Dwarf white milo 2701: TGAGGTTGAGAAGTGGATAAATCATGTGCCTACGCTAAAGATGGCACAAGTCCAAAGAA 2760
Tall white sooner milo 2701: TGAGGTTGAGAAGTGGATAAATCATGTGCCTACGCTAAAGATGGCACAAGTCCAAAGAA 2760
bmr-6 2701: TGAGGTTGAGAAGTGGATAAATCATGTGCCTACGCTAAAGATGGCACAAGTCCAAAGAA 2760

BTx623 2761: ATCAGCAAACCAACTCTCCATTGATTCTCCAATAAAGTTCTGCGCTTGGACGTTGTTCAA 2820
Dwarf white milo 2761: ATCAGCAAACCAACTCTCCATTGATTCTCCAATAAAGTTCTGCGCTTGGACGTTGTTCAA 2820
Tall white sooner milo 2761: ATCAGCAAACCAACTCTCCATTGATTCTCCAATAAAGTTCTGCGCTTGGACGTTGTTCAA 2820
bmr-6 2761: ATCAGCAAACCAACTCTCCATTGATTCTCCAATAAAGTTCTGCGCTTGGACGTTGTTCAA 2820

BTx623 2821: AGGTAACATTGGATTTTTCTTGGTACTGTGTGAAATAAATAATCTGCTGAATTGAAATACA 2880
Dwarf white milo 2821: AGGTAACATTGGATTTTTCTTGGTACTGTGTGAAATAAATAATCTGCTGAATTGAAATACA 2880
Tall white sooner milo 2821: AGGTAACATTGGATTTTTCTTGGTACTGTGTGAAATAAATAATCTGCTGAATTGAAATACA 2880
bmr-6 2821: AGGTAACATTGGATTTTTCTTGGTACTGTGTGAAATAAATAATCTGCTGAATTGAAATACA 2880

BTx623 2881:TATTGTAGGCTGATTTGTACACCCAGATTTTAAATAGTAACAAATTTGTTATGGCCCTACT 2940
Dwarf white milo 2881:TATTGTAGGCTGATTTGTACACCCAGATTTTAAATAGTAACAAATTTGTTATGGCCCTACT 2940
Tall white sooner milo 2881:TATTGTAGGCTGATTTGTACACCCAGATTTTAAATAGTAACAAATTTGTTATGGCCCTACT 2940
bmr-6 2881:TATTGTAGGCTGATTTGTACACCCAGATTTTAAATAGTAACAAATTTGTTATGGCCCTACT 2940

BTx623 2941:ATTGTTGTGTTTCTGTTTCCACATGCTTATTGTGTTTCTGTTCTCAAATGGCAGGAACAA 3000
Dwarf white milo 2941:ATTGTTGTGTTTCTGTTTCCACATGCTTATTGTGTTTCTGTTCTCAAATGGCAGGAACAA 3000
Tall white sooner milo 2941:ATTGTTGTGTTTCTGTTTCCACATGCTTATTGTGTTTCTGTTCTCAAATGGCAGGAACAA 3000
bmr-6 2941:ATTGTTGTGTTTCTGTTTCCACATGCTTATTGTGTTTCTGTTCTCAAATGGCAGGAACAA 3000

BTx623 3001:AAGGAGGTCATCAGTCTGAGGACGAGGGTATTGTGAAAGATGGTCATCCTTTCAGAAGGA 3060
Dwarf white milo 3001:AAGGAGGTCATCAGTCTGAGGACGAGGGTATTGTGAAAGATGGTCATCCTTTCAGAAGGA 3060
Tall white sooner milo 3001:AAGGAGGTCATCAGTCTGAGGACGAGGGTATTGTGAAAGATGGTCATCCTTTCAGAAGGA 3060
bmr-6 3001:AAGGAGGTCATCAGTCTGAGGACGAGGGTATTGTGAAAGATGGTCATCCTTTCAGAAGGA 3060

BTx623 3061:CAACAGATGAAATATCTCTAAAACCCATAGAAGTAAGGAAGAAATCTTCTCCTGGCCATT 3120
Dwarf white milo 3061:CAACAGATGAAATATCTCTAAAACCCATAGAAGTAAGGAAGAAATCTTCTCCTGGCCATT 3120
Tall white sooner milo 3061:CAACAGATGAAATATCTCTAAAACCCATAGAAGTAAGGAAGAAATCTTCTCCTGGCCATT 3120
bmr-6 3061:CAACAGATGAAATATCTCTAAAACCCATAGAAGTAAGGAAGAAATCTTCTCCTGGCCATT 3120

BTx623 3121:CTTGCTCAGATGCAGAAATCGAGTACAGAAGGACAAGGAGTTTGAGGGATGCCAATGGTG 3180
Dwarf white milo 3121:CTTGCTCAGATGCAGAAATCGAGTACAGAAGGACAAGGAGTTTGAGGGATGCCAATGGTG 3180
Tall white sooner milo 3121:CTTGCTCAGATGCAGAAATCGAGTACAGAAGGACAAGGAGTTTGAGGGATGCCAATGGTG 3180
bmr-6 3121:CTTGCTCAGATGCAGAAATCGAGTACAGAAGGACAAGGAGTTTGAGGGATGCCAATGGTG 3180

BTx623 3181:TTTTATCGCGGCGGAGTGCATTGGCAAGACAATTGCATTAATAAGTCACTAGTATGCAGG 3240
Dwarf white milo 3181:TTTTATCGCGGCGGAGTGCATTGGCAAGACAATTGCATTAATAAGTCACTAGTATGCAGG 3240
Tall white sooner milo 3181:TTTTATCGCGGCGGAGTGCATTGGCAAGACAATTGCATTAATAAGTCACTAGTATGCAGG 3240
bmr-6 3181:TTTTATCGCGGCGGAGTGCATTGGCAAGACAATTGCATTAATAAGTCACTAGTATGCAGG 3240

BTx623 3241:GTAATTTTCATAGTTTCATGTAGCCTAATGTGCATTGAATTCGAGCTGTCATTAGAGTGATC 3300
Dwarf white milo 3241:GTAATTTTCATAGTTTCATGTAGCCTAATGTGCATTGAATTCGAGCTGTCATTAGAGTGATC 3300
Tall white sooner milo 3241:GTAATTTTCATAGTTTCATGTAGCCTAATGTGCATTGAATTCGAGCTGTCATTAGAGTGATC 3300
bmr-6 3241:GTAATTTTCATAGTTTCATGTAGCCTAATGTGCATTGAATTCGAGCTGTCATTAGAGTGATC 3300

BTx623 3301:TGTAGCCGAAGAGTAGCCTTTATCGTATATGAGGATTATATTACCAGTTTGTGTTCTAGA 3360
Dwarf white milo 3301:TGTAGCCGAAGAGTAGCCTTTATCGTATATGAGGATTATATTACCAGTTTGTGTTCTAGA 3360
Tall white sooner milo 3301:TGTAGCCGAAGAGTAGCCTTTATCGTATATGAGGATTATATTACCAGTTTGTGTTCTAGA 3360
bmr-6 3301:TGTAGCCGAAGAGTAGCCTTTATCGTATATGAGGATTATATTACCAGTTTGTGTTCTAGA 3360

BTx623 3361:TATGTGATGATGAGCTTGTACTCTGTTTGAACCTCAAAGATCCTCTTTGTAGACACTCAA 3420
Dwarf white milo 3361:TATGTGATGATGAGCTTGTACTCTGTTTGAACCTCAAAGATCCTCTTTGTAGACACTCAA 3420
Tall white sooner milo 3361:TATGTGATGATGAGCTTGTACTCTGTTTGAACCTCAAAGATCCTCTTTGTAGACACTCAA 3420
bmr-6 3361:TATGTGATGATGAGCTTGTACTCTGTTTGAACCTCAAAGATCCTCTTTGTAGACACTCAA 3420

BTx623 3421:TCGTTCCGAGGAGCAGTGAATGAAATATCGTTGGTACATTATTACAGGAGTTGTGTTTT 3480
Dwarf white milo 3421:TCGTTCCGAGGAGCAGTGAATGAAATATCGTTGGTACATTATTACAGGAGTTGTGTTTT 3480
Tall white sooner milo 3421:TCGTTCCGAGGAGCAGTGAATGAAATATCGTTGGTACATTATTACAGGAGTTGTGTTTT 3480
bmr-6 3421:TCGTTCCGAGGAGCAGTGAATGAAATATCGTTGGTACATTATTACAGGAGTTGTGTTTT 3480

BTx623 3481:GGTCTTACTGATGATGTAGGCTGTGTTTGAATTTGCAGCCTGCTGATTGGGAATCTTTG 3540
Dwarf white milo 3481:GGTCTTACTGATGATGTAGGCTGTGTTTGAATTTGCAGCCTGCTGATTGGGAATCTTTG 3540
Tall white sooner milo 3481:GGTCTTACTGATGATGTAGGCTGTGTTTGAATTTGCAGCCTGCTGATTGGGAATCTTTG 3540
bmr-6 3481:GGTCTTACTGATGATGTAGGCTGTGTTTGAATTTGCAGCCTGCTGATTGGGAATCTTTG 3540

BTx623 3541:TTCTTTTTATTGTCATGTCAGCAAGACAGCAACTTGTGTAACACAATCAATCTGACGTCT 3600
Dwarf white milo 3541:TTCTTTTTATTGTCATGTCAGCAAGACAGCAACTTGTGTAACACAATCAATCTGACGTCT 3600
Tall white sooner milo 3541:TTCTTTTTATTGTCATGTCAGCAAGACAGCAACTTGTGTAACACAATCAATCTGACGTCT 3600
bmr-6 3541:TTCTTTTTATTGTCATGTCAGCAAGACAGCAACTTGTGTAACACAATCAATCTGACGTCT 3600

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BTx623 3601:AGGTTCTTATATATATACGCAAAGAAAGCAACAGCTGGTCGACGTCAAGAATATTTTGAA 3660
Dwarf white milo 3601:AGGTTCTTATATATATATACGCAAAGAAAGCAACAGCTGGTCGACGTCAAGAATATTTTGAA 3660
Tall white sooner milo 3601:AGGTTCTTATATATATACGCAAAGAAAGCAACAGCTGGTCGACGTCAAGAATATTTTGAA 3660
bmr-6 3601:AGGTTCTTATATATATACGCAAAGAAAGCAACAGCTGGTCGACGTCAAGAATATTTTGAA 3660

BTx623 3661:CTGTTTTCACTTGTGCGATGATTATTATTATTCTGCTACATAAAAAAACTTTTGACAC 3720
Dwarf white milo 3661:CTGTTTTCACTTGTGCGATGATTATTATTATTCTGCTACATAAAAAAACTTTTGACAC 3720
Tall white sooner milo 3661:CTGTTTTCACTTGTGCGATGATTATTATTATTCTGCTACATAAAAAAACTTTTGACAC 3720
bmr-6 3661:CTGTTTTCACTTGTGCGATGATTATTATTATTCTGCTACATAAAAAAACTTTTGACAC 3720

BTx623 3721:ATCTGCTGCTCCTCTGACGTAACGGAGAGACGTCACCTTTGCCGTTCAAACCTAAATCGGGC 3780
Dwarf white milo 3721:ATCTGCTGCTCCTCTGACGTAACGGAGAGACGTCACCTTTGCCGTTCAAACCTAAATCGGGC 3780
Tall white sooner milo 3721:ATCTGCTGCTCCTCTGACGTAACGGAGAGACGTCACCTTTGCCGTTCAAACCTAAATCGGGC 3780
bmr-6 3721:ATCTGCTGCTCCTCTGACGTAACGGAGAGACGTCACCTTTGCCGTTCAAACCTAAATCGGGC 3780

BTx623 3781:CCAACGCTCCTCCCGCATGAGTATATTTGTTTTAGGCTCTGTTAGTCCAGAAAATTT 3840
Dwarf white milo 3781:CCAACGCTCCTCCCGCATGAGTATATTTGTTTTAGGCTCTGTTAGTCCAGAAAATTT 3840
Tall white sooner milo 3781:CCAACGCTCCTCCCGCATGAGTATATTTGTTTTAGGCTCTGTTAGTCCAGAAAATTT 3840
bmr-6 3781:CCAACGCTCCTCCCGCATGAGTATATTTGTTTTAGGCTCTGTTAGTCCAGAAAATTT 3840

BTx623 3841:TGCAAATTGTTTCGGATTTCCCGTCACATCGAATCTTACGGTACATACATGAAACATTAA 3900
Dwarf white milo 3841:TGCAAATTGTTTCGGATTTCCCGTCACATCGAATCTTACGGTACATACATGAAACATTAA 3900
Tall white sooner milo 3841:TGCAAATTGTTTCGGATTTCCCGTCACATCGAATCTTACGGTACATACATGAAACATTAA 3900
bmr-6 3841:TGCAAATTGTTTCGGATTTCCCGTCACATCGAATCTTACGGTACATACATGAAACATTAA 3900

BTx623 3901:ATATAGCAAAAAAATAACTAATTACACAGTTTAGCAGTAATTTACGAGACGAATATTTG 3960
Dwarf white milo 3901:ATATAGCAAAAAAATAACTAATTACACAGTTTAGCAGTAATTTACGAGACGAATATTTG 3960
Tall white sooner milo 3901:ATATAGCAAAAAAATAACTAATTACACAGTTTAGCAGTAATTTACGAGACGAATATTTG 3960
bmr-6 3901:ATATAGCAAAAAAATAACTAATTACACAGTTTAGCAGTAATTTACGAGACGAATATTTG 3960

BTx623 3961:TCAAATACAACGAAAGTGCTACAGTGTGCGTTTTGACAATTTTTTGAACCTAAACAAG 4020
Dwarf white milo 3961:TCAAATACAACGAAAGTGCTACAGTGTGCGTTTTGACAATTTTTTGAACCTAAACAAG 4020
Tall white sooner milo 3961:TCAAATACAACGAAAGTGCTACAGTGTGCGTTTTGACAATTTTTTGAACCTAAACAAG 4020
bmr-6 3961:TCAAATACAACGAAAGTGCTACAGTGTGCGTTTTGACAATTTTTTGAACCTAAACAAG 4020

BTx623 4021:GCCTTAGTCTTCTATGCAATTTTGTGGAAGGCGCTCAAGAATAGCATTTCAGCAAGGGT 4080
Dwarf white milo 4021:GCCTTAGTCTTCTATGCAATTTTGTGGAAGGCGCTCAAGAATAGCATTTCAGCAAGGGT 4080
Tall white sooner milo 4021:GCCTTAGTCTTCTATGCAATTTTGTGGAAGGCGCTCAAGAATAGCATTTCAGCAAGGGT 4080
bmr-6 4021:GCCTTAGTCTTCTATGCAATTTTGTGGAAGGCGCTCAAGAATAGCATTTCAGCAAGGGT 4080

BTx623 4081:AGCATTAGAAGAGGCTGTCAATGAATAATGAAGATACAAGTATAAAAACAAAGTGAATATG 4140
Dwarf white milo 4081:AGCATTAGAAGAGGCTGTCAATGAATAATGAAGATACAAGTATAAAAACAAAGTGAATATG 4140
Tall white sooner milo 4081:AGCATTAGAAGAGGCTGTCAATGAATAATGAAGATACAAGTATAAAAACAAAGTGAATATG 4140
bmr-6 4081:AGCATTAGAAGAGGCTGTCAATGAATAATGAAGATACAAGTATAAAAACAAAGTGAATATG 4140

BTx623 4141:AAAGCCAGGGCTTGTTTTCCGGTGATAATGCTTACGCTTTAAGAATTTTTCGCGTTTATTA 4200
Dwarf white milo 4141:AAAGCCAGGGCTTGTTTTCCGGTGATAATGCTTACGCTTTAAGAATTTTTCGCGTTTATTA 4200
Tall white sooner milo 4141:AAAGCCAGGGCTTGTTTTCCGGTGATAATGCTTACGCTTTAAGAATTTTTCGCGTTTATTA 4200
bmr-6 4141:AAAGCCAGGGCTTGTTTTCCGGTGATAATGCTTACGCTTTAAGAATTTTTCGCGTTTATTA 4200

BTx623 4201:GTCGATTAGATGTTACATTATCGTTAGGCAAACGTTTGCTGTGTTTTGGTGTCTTTTTA 4260
Dwarf white milo 4201:GTCGATTAGATGTTACATTATCGTTAGGCAAACGTTTGCTGTGTTTTGGTGTCTTTTTA 4260
Tall white sooner milo 4201:GTCGATTAGATGTTACATTATCGTTAGGCAAACGTTTGCTGTGTTTTGGTGTCTTTTTA 4260
bmr-6 4201:GTCGATTAGATGTTACATTATCGTTAGGCAAACGTTTGCTGTGTTTTGGTGTCTTTTTA 4260

BTx623 4261:ATTGCATGCTGCTGCTTATGTTAAGTAGTAGTATCCATCCTCTGTCATCCTGTTACAAAT 4320
Dwarf white milo 4261:ATTGCATGCTGCTGCTTATGTTAAGTAGTAGTATCCATCCTCTGTCATCCTGTTACAAAT 4320
Tall white sooner milo 4261:ATTGCATGCTGCTGCTTATGTTAAGTAGTAGTATCCATCCTCTGTCATCCTGTTACAAAT 4320
bmr-6 4261:ATTGCATGCTGCTGCTTATGTTAAGTAGTAGTATCCATCCTCTGTCATCCTGTTACAAAT 4320

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BTx623 4321:GATCTGTTATTGTTGTTTTGTAATGGGCCTGTTGGTTCCCTTCATTA AAAACTTAGCTAC 4380
Dwarf white milo 4321:GATCTGTTATTGTTGTTTTGTAATGGGCCTGTTGGTTCCCTTCATTA AAAACTTAGCTAC 4380
Tall white sooner milo 4321:GATCTGTTATTGTTGTTTTGTAATGGGCCTGTTGGTTCCCTTCATTA AAAACTTAGCTAC 4380
bmr-6 4321:GATCTGTTATTGTTGTTTTGTAATGGGCCTGTTGGTTCCCTTCATTA AAAACTTAGCTAC 4380

BTx623 4381:TAAAAC TATTTAGCTACTCTTAGGTAAGTGGGACTAAAGTATTTTATCTTCTTTTT 4440
Dwarf white milo 4381:TAAAAC TATTTAGCTACTCTTAGGTAAGTGGGACTAAAGTATTTTATCTTCTTTTT 4440
Tall white sooner milo 4381:TAAAAC TATTTAGCTACTCTTAGGTAAGTGGGACTAAAGTATTTTATCTTCTTTTT 4440
bmr-6 4381:TAAAAC TATTTAGCTACTCTTAGGTAAGTGGGACTAAAGTATTTTATCTTCTTTTT 4440

BTx623 4441:AGTTAGTGTGTTTGAAGTTT TAGCTACTAAAGTACTAAAGTTTAGCTGACTAAAATTTA 4500
Dwarf white milo 4441:AGTTAGTGTGTTTGAAGTTT TAGCTACTAAAGTACTAAAGTTTAGCTGACTAAAATTTA 4500
Tall white sooner milo 4441:AGTTAGTGTGTTTGAAGTTT TAGCTACTAAAGTACTAAAGTTTAGCTGACTAAAATTTA 4500
bmr-6 4441:AGTTAGTGTGTTTGAAGTTT TAGCTACTAAAGTACTAAAGTTTAGCTGACTAAAATTTA 4500

BTx623 4501:GTAAGGTGAACCAACAGGCCATTGTAATAAAGGACTAGAATTTGTAACAATATAGGA 4560
Dwarf white milo 4501:GTAAGGTGAACCAACAGGCCATTGTAATAAAGGACTAGAATTTGTAACAATATAGGA 4560
Tall white sooner milo 4501:GTAAGGTGAACCAACAGGCCATTGTAATAAAGGACTAGAATTTGTAACAATATAGGA 4560
bmr-6 4501:GTAAGGTGAACCAACAGGCCATTGTAATAAAGGACTAGAATTTGTAACAATATAGGA 4560

BTx623 4561:AGTCATAAGGAGTACCCTAGCATTGTCAAGAGAGAGAAGCTCAATTGAACATGGCGTTA 4620
Dwarf white milo 4561:AGTCATAAGGAGTACCCTAGCATTGTCAAGAGAGAGAAGCTCAATTGAACATGGCGTTA 4620
Tall white sooner milo 4561:AGTCATAAGGAGTACCCTAGCATTGTCAAGAGAGAGAAGCTCAATTGAACATGGCGTTA 4620
bmr-6 4561:AGTCATAAGGAGTACCCTAGCATTGTCAAGAGAGAGAAGCTCAATTGAACATGGCGTTA 4620

BTx623 4621:CTAGAAAAATACAGTCGTTTCCCTCCTTATCTTTTGAACCATAATACAAGTACA AATC 4680
Dwarf white milo 4621:CTAGAAAAATACAGTCGTTTCCCTCCTTATCTTTTGAACCATAATACAAGTACA AATC 4680
Tall white sooner milo 4621:CTAGAAAAATACAGTCGTTTCCCTCCTTATCTTTTGAACCATAATACAAGTACA AATC 4680
bmr-6 4621:CTAGAAAAATACAGTCGTTTCCCTCCTTATCTTTTGAACCATAATACAAGTACA AATC 4680

BTx623 4681:CCACAGGCCGTCCTGAGCGCCATCTCATGATTATGATCTTATAATTACTT CATGTAAA 4740
Dwarf white milo 4681:CCACAGGCCGTCCTGAGCGCCATCTCATGATTATGATCTTATAATTACTT CATGTAAA 4740
Tall white sooner milo 4681:CCACAGGCCGTCCTGAGCGCCATCTCATGATTATGATCTTATAATTACTT CATGTAAA 4740
bmr-6 4681:CCACAGGCCGTCCTGAGCGCCATCTCATGATTATGATCTTATAATTACTT CATGTAAA 4740

BTx623 4741:CATGCCAAGACCTCACATTGGCACCCCTTAATCCGGAATGTGATGCATAGTCCTTTGGACA 4800
Dwarf white milo 4741:CATGCCAAGACCTCACATTGGCACCCCTTAATCCGGAATGTGATGCATAGTCCTTTGGACA 4800
Tall white sooner milo 4741:CATGCCAAGACCTCACATTGGCACCCCTTAATCCGGAATGTGATGCATAGTCCTTTGGACA 4800
bmr-6 4741:CATGCCAAGACCTCACATTGGCACCCCTTAATCCGGAATGTGATGCATAGTCCTTTGGACA 4800

BTx623 4801:TCTGTGCTATGTACAAAGTTTCTTCCGAAGGCTCTGTGGCAGCATGATCCATCTATCCTC 4860
Dwarf white milo 4801:TCTGTGCTATGTACAAAGTTTCTTCCGAAGGCTCTGTGGCAGCATGATCCATCTATCCTC 4860
Tall white sooner milo 4801:TCTGTGCTATGTACAAAGTTTCTTCCGAAGGCTCTGTGGCAGCATGATCCATCTATCCTC 4860
bmr-6 4801:TCTGTGCTATGTACAAAGTTTCTTCCGAAGGCTCTGTGGCAGCATGATCCATCTATCCTC 4860

BTx623 4861:ATACCCCTATAGCAGCTAGTGTCTAGCTATTGGGCTTCTTGTCCACCCAAATTCTCAAG 4920
Dwarf white milo 4861:ATACCCCTATAGCAGCTAGTGTCTAGCTATTGGGCTTCTTGTCCACCCAAATTCTCAAG 4920
Tall white sooner milo 4861:ATACCCCTATAGCAGCTAGTGTCTAGCTATTGGGCTTCTTGTCCACCCAAATTCTCAAG 4920
bmr-6 4861:ATACCCCTATAGCAGCTAGTGTCTAGCTATTGGGCTTCTTGTCCACCCAAATTCTCAAG 4920

BTx623 4921:GTATGAAAACCTCTTGGTTGCAACTGATGACATCTTTGTGACGCTTTGGACCGTTACCCCTC 4980
Dwarf white milo 4921:GTATGAAAACCTCTTGGTTGCAACTGATGACATCTTTGTGACGCTTTGGACCGTTACCCCTC 4980
Tall white sooner milo 4921:GTATGAAAACCTCTTGGTTGCAACTGATGACATCTTTGTGACGCTTTGGACCGTTACCCCTC 4980
bmr-6 4921:GTATGAAAACCTCTTGGTTGCAACTGATGACATCTTTGTGACGCTTTGGACCGTTACCCCTC 4980

BTx623 4981:CTTGCCATATGTTCTGAGGCTTGGTCCCGTGGGCCACGTAGTCACATAGCATCGGCGA 5040
Dwarf white milo 4981:CTTGCCATATGTTCTGAGGCTTGGTCCCGTGGGCCACGTAGTCACATAGCATCGGCGA 5040
Tall white sooner milo 4981:CTTGCCATATGTTCTGAGGCTTGGTCCCGTGGGCCACGTAGTCACATAGCATCGGCGA 5040
bmr-6 4981:CTTGCCATATGTTCTGAGGCTTGGTCCCGTGGGCCACGTAGTCACATAGCATCGGCGA 5040

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BTx623 5041:TACTGGTTCCATTCTCCTCATCTTCTCTACCTCAGCCTTAGCATCCGAGACAACCTTGTC 5100
Dwarf white milo 5041:TACTGGTTCCATTCTCCTCATCTTCTCTACCTCAGCCTTAGCATCCGAGACAACCTTGTC 5100
Tall white sooner milo 5041:TACTGGTTCCATTCTCCTCATCTTCTCTACCTCAGCCTTAGCATCCGAGACAACCTTGTC 5100
bmr-6 5041:TACTGGTTCCATTCTCCTCATCTTCTCTACCTCAGCCTTAGCATCCGAGACAACCTTGTC 5100

BTx623 5101:GGTGTCTGCTGAAGTTAAACTGGCGATTATCATTGATTCTGCGTTCTGGGATCTTGTTGT 5160
Dwarf white milo 5101:GGTGTCTGCTGAAGTTAAACTGGCGATTATCATTGATTCTGCGTTCTGGGATCTTGTTGT 5160
Tall white sooner milo 5101:GGTGTCTGCTGAAGTTAAACTGGCGATTATCATTGATTCTGCGTTCTGGGATCTTGTTGT 5160
bmr-6 5101:GGTGTCTGCTGAAGTTAAACTGGCGATTATCATTGATTCTGCGTTCTGGGATCTTGTTGT 5160

BTx623 5161:GGCCAAGTCCGCATTGAGAATCTTCGATTTCGAGACATGACTGTGAAAGCTAAGCTCTC 5220
Dwarf white milo 5161:GGCCAAGTCCGCATTGAGAATCTTCGATTTCGAGACATGACTGTGAAAGCTAAGCTCTC 5220
Tall white sooner milo 5161:GGCCAAGTCCGCATTGAGAATCTTCGATTTCGAGACATGACTGTGAAAGCTAAGCTCTC 5220
bmr-6 5161:GGCCAAGTCCGCATTGAGAATCTTCGATTTCGAGACATGACTGTGAAAGCTAAGCTCTC 5220

BTx623 5221:CAGAGTCTGGAGTAACCTCCAAAATGGCAAGGCCAACATCCTGATGAAGAAAAAGGGT 5280
Dwarf white milo 5221:CAGAGTCTGGAGTAACCTCCAAAATGGCAAGGCCAACATCCTGATGAAGAAAAAGGGT 5280
Tall white sooner milo 5221:CAGAGTCTGGAGTAACCTCCAAAATGGCAAGGCCAACATCCTGATGAAGAAAAAGGGT 5280
bmr-6 5221:CAGAGTCTGGAGTAACCTCCAAAATGGCAAGGCCAACATCCTGATGAAGAAAAAGGGT 5280

BTx623 5281:AGAAGGGAGGTATGCAAATATGCGAGTAACAAGCACTGTGGCGTATCTGAAAAGGCA 5340
Dwarf white milo 5281:AGAAGGGAGGTATGCAAATATGCGAGTAACAAGCACTGTGGCGTATCTGAAAAGGCA 5340
Tall white sooner milo 5281:AGAAGGGAGGTATGCAAATATGCGAGTAACAAGCACTGTGGCGTATCTGAAAAGGCA 5340
bmr-6 5281:AGAAGGGAGGTATGCAAATATGCGAGTAACAAGCACTGTGGCGTATCTGAAAAGGCA 5340

BTx623 5341:ATGTTAATTCTGAATGCTTCTGTACCTTGTTCATTGGATTTTGCTTATGCTAGGGAC 5400
Dwarf white milo 5341:ATGTTAATTCTGAATGCTTCTGTACCTTGTTCATTGGATTTTGCTTATGCTAGGGAC 5400
Tall white sooner milo 5341:ATGTTAATTCTGAATGCTTCTGTACCTTGTTCATTGGATTTTGCTTATGCTAGGGAC 5400
bmr-6 5341:ATGTTAATTCTGAATGCTTCTGTACCTTGTTCATTGGATTTTGCTTATGCTAGGGAC 5400

BTx623 5401:GACTGGGCGATGCCAGGAAATCTGTGCTTGATAAGGAGAAGAACATTCTGCCCCTCCCT 5460
Dwarf white milo 5401:GACTGGGCGATGCCAGGAAATCTGTGCTTGATAAGGAGAAGAACATTCTGCCCCTCCCT 5460
Tall white sooner milo 5401:GACTGGGCGATGCCAGGAAATCTGTGCTTGATAAGGAGAAGAACATTCTGCCCCTCCCT 5460
bmr-6 5401:GACTGGGCGATGCCAGGAAATCTGTGCTTGATAAGGAGAAGAACATTCTGCCCCTCCCT 5460

BTx623 5461:TCAAACATTCCTCTTCTCGTGACTGACGTTATGCCCCACGACAATTTGCTGTCCTTG 5520
Dwarf white milo 5461:TCAAACATTCCTCTTCTCGTGACTGACGTTATGCCCCACGACAATTTGCTGTCCTTG 5520
Tall white sooner milo 5461:TCAAACATTCCTCTTCTCGTGACTGACGTTATGCCCCACGACAATTTGCTGTCCTTG 5520
bmr-6 5461:TCAAACATTCCTCTTCTCGTGACTGACGTTATGCCCCACGACAATTTGCTGTCCTTG 5520

BTx623 5521:TGGGTCATTTTCTTCTGCCAGATGACTACTGAGGCTTCGACTCGGTTCTTCAGATCAACA 5580
Dwarf white milo 5521:TGGGTCATTTTCTTCTGCCAGATGACTACTGAGGCTTCGACTCGGTTCTTCAGATCAACA 5580
Tall white sooner milo 5521:TGGGTCATTTTCTTCTGCCAGATGACTACTGAGGCTTCGACTCGGTTCTTCAGATCAACA 5580
bmr-6 5521:TGGGTCATTTTCTTCTGCCAGATGACTACTGAGGCTTCGACTCGGTTCTTCAGATCAACA 5580

BTx623 5581:ATGTTGTGTTTCATCCGACAAGTCTACAGAGCGTAGAAGTTCTTCAGGGTCAAATAATCG 5640
Dwarf white milo 5581:ATGTTGTGTTTCATCCGACAAGTCTACAGAGCGTAGAAGTTCTTCAGGGTCAAATAATCG 5640
Tall white sooner milo 5581:ATGTTGTGTTTCATCCGACAAGTCTACAGAGCGTAGAAGTTCTTCAGGGTCAAATAATCG 5640
bmr-6 5581:ATGTTGTGTTTCATCCGACAAGTCTACAGAGCGTAGAAGTTCTTCAGGGTCAAATAATCG 5640

BTx623 5641:TCGGTTATAAGTTTGTACATTGAATCTCCAAGGGTGGACTTCCATTCTAGCAGACATAT 5700
Dwarf white milo 5641:TCGGTTATAAGTTTGTACATTGAATCTCCAAGGGTGGACTTCCATTCTAGCAGACATAT 5700
Tall white sooner milo 5641:TCGGTTATAAGTTTGTACATTGAATCTCCAAGGGTGGACTTCCATTCTAGCAGACATAT 5700
bmr-6 5641:TCGGTTATAAGTTTGTACATTGAATCTCCAAGGGTGGACTTCCATTCTAGCAGACATAT 5700

BTx623 5701:AACAAGAGAAGTTATAGAGTTATATTGTTAGAGCTGTTGTAACAGAATATGGCAAGGCC 5760
Dwarf white milo 5701:AACAAGAGAAGTTATAGAGTTATATTGTTAGAGCTGTTGTAACAGAATATGGCAAGGCC 5760
Tall white sooner milo 5701:AACAAGAGAAGTTATAGAGTTATATTGTTAGAGCTGTTGTAACAGAATATGGCAAGGCC 5760
bmr-6 5701:AACAAGAGAAGTTATAGAGTTATATTGTTAGAGCTGTTGTAACAGAATATGGCAAGGCC 5760

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BTx623 5761:GTTAGCAGACTGGTCTTATGGATCACCTTTGGTAGGGACTCCGTGTATGATTAGGAAAC 5820
Dwarf white milo 5761:GTTAGCAGACTGGTCTTATGGATCACCTTTGGTAGGGACTCCGTGTATGATTAGGAAAC 5820
Tall white sooner milo 5761:GTTAGCAGACTGGTCTTATGGATCACCTTTGGTAGGGACTCCGTGTATGATTAGGAAAC 5820
bmr-6 5761:GTTAGCAGACTGGTCTTATGGATCACCTTTGGTAGGGACTCCGTGTATGATTAGGAAAC 5820

BTx623 5821:TCCATTTCCATGAGAATGTTAGCATTGATAGCCATTGCTGCCTTCAGCACCTGTGCAACA 5880
Dwarf white milo 5821:TCCATTTCCATGAGAATGTTAGCATTGATAGCCATTGCTGCCTTCAGCACCTGTGCAACA 5880
Tall white sooner milo 5821:TCCATTTCCATGAGAATGTTAGCATTGATAGCCATTGCTGCCTTCAGCACCTGTGCAACA 5880
bmr-6 5821:TCCATTTCCATGAGAATGTTAGCATTGATAGCCATTGCTGCCTTCAGCACCTGTGCAACA 5880

BTx623 5881:AGTTCCTTCTGGTCTGAAGCCATTTCTGTATGCATCTGAGAGCCATTAGGAGGAAC 5940
Dwarf white milo 5881:AGTTCCTTCTGGTCTGAAGCCATTTCTGTATGCATCTGAGAGCCATTAGGAGGAAC 5940
Tall white sooner milo 5881:AGTTCCTTCTGGTCTGAAGCCATTTCTGTATGCATCTGAGAGCCATTAGGAGGAAC 5940
bmr-6 5881:AGTTCCTTCTGGTCTGAAGCCATTTCTGTATGCATCTGAGAGCCATTAGGAGGAAC 5940

BTx623 5941:CTGACAGTTGGGAGCCACCATTTGTCGTCTGCCTCGGCATGTTCCCTTCCCCGATTCA 6000
Dwarf white milo 5941:CTGACAGTTGGGAGCCACCATTTGTCGTCTGCCTCGGCATGTTCCCTTCCCCGATTCA 6000
Tall white sooner milo 5941:CTGACAGTTGGGAGCCACCATTTGTCGTCTGCCTCGGCATGTTCCCTTCCCCGATTCA 6000
bmr-6 5941:CTGACAGTTGGGAGCCACCATTTGTCGTCTGCCTCGGCATGTTCCCTTCCCCGATTCA 6000

BTx623 6001:TCTGAATCTTCTTACATACCAAACTCCTGCTTACCCTCGAACTGTCAAGGTATTCC 6060
Dwarf white milo 6001:TCTGAATCTTCTTACATACCAAACTCCTGCTTACCCTCGAACTGTCAAGGTATTCC 6060
Tall white sooner milo 6001:TCTGAATCTTCTTACATACCAAACTCCTGCTTACCCTCGAACTGTCAAGGTATTCC 6060
bmr-6 6001:TCTGAATCTTCTTACATACCAAACTCCTGCTTACCCTCGAACTGTCAAGGTATTCC 6060

BTx623 6061:TATTCCACAGGAGACATATGCAATGCCACAAGTTAGAATTTAGATATCCATCCCTCTGA 6120
Dwarf white milo 6061:TATTCCACAGGAGACATATGCAATGCCACAAGTTAGAATTTAGATATCCATCCCTCTGA 6120
Tall white sooner milo 6061:TATTCCACAGGAGACATATGCAATGCCACAAGTTAGAATTTAGATATCCATCCCTCTGA 6120
bmr-6 6061:TATTCCACAGGAGACATATGCAATGCCACAAGTTAGAATTTAGATATCCATCCCTCTGA 6120

BTx623 6121:AGTCTGAAGTTCAGTTCAGTAAATATCAAGATAGAGCATGCCCGTCTTACAAGGAG 6180
Dwarf white milo 6121:AGTCTGAAGTTCAGTTCAGTAAATATCAAGATAGAGCATGCCCGTCTTACAAGGAG 6180
Tall white sooner milo 6121:AGTCTGAAGTTCAGTTCAGTAAATATCAAGATAGAGCATGCCCGTCTTACAAGGAG 6180
bmr-6 6121:AGTCTGAAGTTCAGTTCAGTAAATATCAAGATAGAGCATGCCCGTCTTACAAGGAG 6180

BTx623 6181:CATTGCATCGAGCTTGGCAACGCAGGGATGTTCAATTTAGATCCTGACGCTGCTGAGT 6240
Dwarf white milo 6181:CATTGCATCGAGCTTGGCAACGCAGGGATGTTCAATTTAGATCCTGACGCTGCTGAGT 6240
Tall white sooner milo 6181:CATTGCATCGAGCTTGGCAACGCAGGGATGTTCAATTTAGATCCTGACGCTGCTGAGT 6240
bmr-6 6181:CATTGCATCGAGCTTGGCAACGCAGGGATGTTCAATTTAGATCCTGACGCTGCTGAGT 6240

BTx623 6241:TATCATTATCTGTTGACATGAAAACGCGTCAATTTAAGTTGGTTAACGCAGTGGTGTT 6300
Dwarf white milo 6241:TATCATTATCTGTTGACATGAAAACGCGTCAATTTAAGTTGGTTAACGCAGTGGTGTT 6300
Tall white sooner milo 6241:TATCATTATCTGTTGACATGAAAACGCGTCAATTTAAGTTGGTTAACGCAGTGGTGTT 6300
bmr-6 6241:TATCATTATCTGTTGACATGAAAACGCGTCAATTTAAGTTGGTTAACGCAGTGGTGTT 6300

BTx623 6301:AACGCTGTATTGTTGATAACGAATTGAAATGAAGCTGAATACTTGAATAGTACAGCAA 6360
Dwarf white milo 6301:AACGCTGTATTGTTGATAACGAATTGAAATGAAGCTGAATACTTGAATAGTACAGCAA 6360
Tall white sooner milo 6301:AACGCTGTATTGTTGATAACGAATTGAAATGAAGCTGAATACTTGAATAGTACAGCAA 6360
bmr-6 6301:AACGCTGTATTGTTGATAACGAATTGAAATGAAGCTGAATACTTGAATAGTACAGCAA 6360

BTx623 6361:CAGCAAGTACTGAAATAGGGGGATTTTTTTACCTCCATGCAGTCCCATTCTCGGCAG 6420
Dwarf white milo 6361:CAGCAAGTACTGAAATAGGGGGATTTTTTTACCTCCATGCAGTCCCATTCTCGGCAG 6420
Tall white sooner milo 6361:CAGCAAGTACTGAAATAGGGGGATTTTTTTACCTCCATGCAGTCCCATTCTCGGCAG 6420
bmr-6 6361:CAGCAAGTACTGAAATAGGGGGATTTTTTTACCTCCATGCAGTCCCATTCTCGGCAG 6420

BTx623 6421:CTGCCGGAAGGAACAAATCAACAATGTGATCGGAGACGGACAAAAGCCAGTCGATCTC 6480
Dwarf white milo 6421:CTGCCGGAAGGAACAAATCAACAATGTGATCGGAGACGGACAAAAGCCAGTCGATCTC 6480
Tall white sooner milo 6421:CTGCCGGAAGGAACAAATCAACAATGTGATCGGAGACGGACAAAAGCCAGTCGATCTC 6480
bmr-6 6421:CTGCCGGAAGGAACAAATCAACAATGTGATCGGAGACGGACAAAAGCCAGTCGATCTC 6480

BTx623 6481:CTTCGTCCACCGCATTTCTGGTCGGCGGCCATGGGCTGCAGACGACGCTGCTCACCAA 6540
Dwarf white milo 6481:CTTCGTCCACCGCATTTCTGGTCGGCGGCCATGGGCTGCAGACGACGCTGCTCACCAA 6540
Tall white sooner milo 6481:CTTCGTCCACCGCATTTCTGGTCGGCGGCCATGGGCTGCAGACGACGCTGCTCACCAA 6540
bmr-6 6481:CTTCGTCCACCGCATTTCTGGTCGGCGGCCATGGGCTGCAGACGACGCTGCTCACCAA 6540

BTx623 6541:CACAGAAGCTGAAAAGATGGCATCGCGAGAAAGAACGGGCAGTTGATCAGGGTTTCCACT 6600
Dwarf white milo 6541:CACAGAAGCTGAAAAGATGGCATCGCGAGAAAGAACGGGCAGTTGATCAGGGTTTCCACT 6600
Tall white sooner milo 6541:CACAGAAGCTGAAAAGATGGCATCGCGAGAAAGAACGGGCAGTTGATCAGGGTTTCCACT 6600
bmr-6 6541:CACAGAAGCTGAAAAGATGGCATCGCGAGAAAGAACGGGCAGTTGATCAGGGTTTCCACT 6600

BTx623 6601:AGAAATTGGGCAAAGCTCAAATTGTGGAATTGCAGAAGGAAAAAATGATGTTTAGAAA 6660
Dwarf white milo 6601:AGAAATTGGGCAAAGCTCAAATTGTGGAATTGCAGAAGGAAAAAATGATGTTTAGAAA 6660
Tall white sooner milo 6601:AGAAATTGGGCAAAGCTCAAATTGTGGAATTGCAGAAGGAAAAAATGATGTTTAGAAA 6660
bmr-6 6601:AGAAATTGGGCAAAGCTCAAATTGTGGAATTGCAGAAGGAAAAAATGATGTTTAGAAA 6660

BTx623 6661:AATAAGGAAAGAGAGGATTCTGGTGGGAATAAAAAAGAAAGGGGATTACCTGCAA 6720
Dwarf white milo 6661:AATAAGGAAAGAGAGGATTCTGGTGGGAATAAAAAAGAAAGGGGATTACCTGCAA 6720
Tall white sooner milo 6661:AATAAGGAAAGAGAGGATTCTGGTGGGAATAAAAAAGAAAGGGGATTACCTGCAA 6720
bmr-6 6661:AATAAGGAAAGAGAGGATTCTGGTGGGAATAAAAAAGAAAGGGGATTACCTGCAA 6720

BTx623 6721:GATTAGTGATGGCGTTGGACAGGGCAAGAGCAGAGGTCACCCCTTTGCCGGTGCCGGACA 6780
Dwarf white milo 6721:GATTAGTGATGGCGTTGGACAGGGCAAGAGCAGAGGTCACCCCTTTGCCGGTGCCGGACA 6780
Tall white sooner milo 6721:GATTAGTGATGGCGTTGGACAGGGCAAGAGCAGAGGTCACCCCTTTGCCGGTGCCGGACA 6780
bmr-6 6721:GATTAGTGATGGCGTTGGACAGGGCAAGAGCAGAGGTCACCCCTTTGCCGGTGCCGGACA 6780

BTx623 6781:TGTCCTCCCCAGCAGCAGCTTGAGAACTTCTCCCTCACGATCTCCGCATCTGCAACCC 6840
Dwarf white milo 6781:TGTCCTCCCCAGCAGCAGCTTGAGAACTTCTCCCTCACGATCTCCGCATCTGCAACCC 6840
Tall white sooner milo 6781:TGTCCTCCCCAGCAGCAGCTTGAGAACTTCTCCCTCACGATCTCCGCATCTGCAACCC 6840
bmr-6 6781:TGTCCTCCCCAGCAGCAGCTTGAGAACTTCTCCCTCACGATCTCCGCATCTGCAACCC 6840

BTx623 6841:ACAAACGCGAATCATTCTCCAACAAGATTGCAATTTGCAGCAGCATAACGAGCGTTGGT 6900
Dwarf white milo 6841:ACAAACGCGAATCATTCTCCAACAAGATTGCAATTTGCAGCAGCATAACGAGCGTTGGT 6900
Tall white sooner milo 6841:ACAAACGCGAATCATTCTCCAACAAGATTGCAATTTGCAGCAGCATAACGAGCGTTGGT 6900
bmr-6 6841:ACAAACGCGAATCATTCTCCAACAAGATTGCAATTTGCAGCAGCATAACGAGCGTTGGT 6900

BTx623 6901:TGATGGTCCAAGAACAACCGTCACCTGAGGGCGGGCCCTCGTGCCGACCGGCTTGGGCG 6960
Dwarf white milo 6901:TGATGGTCCAAGAACAACCGTCACCTGAGGGCGGGCCCTCGTGCCGACCGGCTTGGGCG 6960
Tall white sooner milo 6901:TGATGGTCCAAGAACAACCGTCACCTGAGGGCGGGCCCTCGTGCCGACCGGCTTGGGCG 6960
bmr-6 6901:TGATGGTCCAAGAACAACCGTCACCTGAGGGCGGGCCCTCGTGCCGACCGGCTTGGGCG 6960

BTx623 6961:GCACCGCAGCGAGGACGAGCTACCGGCTGCCCTTATCCGAAGGGCCACCGGCCAGCG 7020
Dwarf white milo 6961:GCACCGCAGCGAGGACGAGCTACCGGCTGCCCTTATCCGAAGGGCCACCGGCCAGCG 7020
Tall white sooner milo 6961:GCACCGCAGCGAGGACGAGCTACCGGCTGCCCTTATCCGAAGGGCCACCGGCCAGCG 7020
bmr-6 6961:GCACCGCAGCGAGGACGAGCTACCGGCTGCCCTTATCCGAAGGGCCACCGGCCAGCG 7020

BTx623 7021:GCGGCGGAAGGTCAACGGACAGCGGCTCCCTTGGACCCGACGCTCCTCGACAGCGCC 7080
Dwarf white milo 7021:GCGGCGGAAGGTCAACGGACAGCGGCTCCCTTGGACCCGACGCTCCTCGACAGCGCC 7080
Tall white sooner milo 7021:GCGGCGGAAGGTCAACGGACAGCGGCTCCCTTGGACCCGACGCTCCTCGACAGCGCC 7080
bmr-6 7021:GCGGCGGAAGGTCAACGGACAGCGGCTCCCTTGGACCCGACGCTCCTCGACAGCGCC 7080

BTx623 7081:GCCTGGTGCAAGGCTGCCCCGGCGCGGCGCTGCGACTGCGCTCCATCGAGGAGGCGT 7140
Dwarf white milo 7081:GCCTGGTGCAAGGCTGCCCCGGCGCGGCGCTGCGACTGCGCTCCATCGAGGAGGCGT 7140
Tall white sooner milo 7081:GCCTGGTGCAAGGCTGCCCCGGCGCGGCGCTGCGACTGCGCTCCATCGAGGAGGCGT 7140
bmr-6 7081:GCCTGGTGCAAGGCTGCCCCGGCGCGGCGCTGCGACTGCGCTCCATCGAGGAGGCGT 7140

BTx623 7141:CCGTGCCGCTGAGGCCAGCGAGGCGGCGACGACGACGACGCGCCGACCTCCGGCGCTGA 7200
Dwarf white milo 7141:CCGTGCCGCTGAGGCCAGCGAGGCGGCGACGACGACGACGCGCCGACCTCCGGCGCTGA 7200
Tall white sooner milo 7141:CCGTGCCGCTGAGGCCAGCGAGGCGGCGACGACGACGACGCGCCGACCTCCGGCGCTGA 7200
bmr-6 7141:CCGTGCCGCTGAGGCCAGCGAGGCGGCGACGACGACGACGCGCCGACCTCCGGCGCTGA 7200

Figure S4 (page10)

BTx623 7201:ACGAGAACCTTTCGAGGCCGTGGCCGATCTTCTGGAACGGCCGGCCATCACGAGCGCAT 7260
Dwarf white milo 7201:ACGAGAACCTTTCGAGGCCGTGGCCGATCTTCTGGAACGGCCGGCCATCACGAGCGCAT 7260
Tall white sooner milo 7201:ACGAGAACCTTTCGAGGCCGTGGCCGATCTTCTGGAACGGCCGGCCATCACGAGCGCAT 7260
bmr-6 7201:ACGAGAACCTTTCGAGGCCGTGGCCGATCTTCTGGAACGGCCGGCCATCACGAGCGCAT 7260

BTx623 7261:GGCTGGCACGCGCGCCGCTACGGCATCCGCAATGTCAACGTGGCGCCTTTCTTTCT 7320
Dwarf white milo 7261:GGCTGGCACGCGCGCCGCTACGGCATCCGCAATGTCAACGTGGCGCCTTTCTTTCT 7320
Tall white sooner milo 7261:GGCTGGCACGCGCGCCGCTACGGCATCCGCAATGTCAACGTGGCGCCTTTCTTTCT 7320
bmr-6 7261:GGCTGGCACGCGCGCCGCTACGGCATCCGCAATGTCAACGTGGCGCCTTTCTTTCT 7320

BTx623 7321:TGGCAGAGAGAGAGGGAGGAGCGGTGGGCGCGCGGTGGCTGGCTAGATTTCCGGGACG 7380
Dwarf white milo 7321:TGGCAGAGAGAGAGGGAGGAGCGGTGGGCGCGCGGTGGCTGGCTAGATTTCCGGGACG 7380
Tall white sooner milo 7321:TGGCAGAGAGAGAGGGAGGAGCGGTGGGCGCGCGGTGGCTGGCTAGATTTCCGGGACG 7380
bmr-6 7321:TGGCAGAGAGAGAGGGAGGAGCGGTGGGCGCGCGGTGGCTGGCTAGATTTCCGGGACG 7380

BTx623 7381:CTGTGTATGGGAGGTGAGGAGAGGGAGGGCGGAGGAGGGAAGCACAAGCTCGGGGCGG 7440
Dwarf white milo 7381:CTGTGTATGGGAGGTGAGGAGAGGGAGGGCGGAGGAGGGAAGCACAAGCTCGGGGCGG 7440
Tall white sooner milo 7381:CTGTGTATGGGAGGTGAGGAGAGGGAGGGCGGAGGAGGGAAGCACAAGCTCGGGGCGG 7440
bmr-6 7381:CTGTGTATGGGAGGTGAGGAGAGGGAGGGCGGAGGAGGGAAGCACAAGCTCGGGGCGG 7440

BTx623 7441:GCGTGCATCTGCTGGAAGGCTGCGGTTGCTGTTCTGTTCTGTTCTGGGTGGCAGGCGGAGCA 7500
Dwarf white milo 7441:GCGTGCATCTGCTGGAAGGCTGCGGTTGCTGTTCTGTTCTGTTCTGGGTGGCAGGCGGAGCA 7500
Tall white sooner milo 7441:GCGTGCATCTGCTGGAAGGCTGCGGTTGCTGTTCTGTTCTGTTCTGGGTGGCAGGCGGAGCA 7500
bmr-6 7441:GCGTGCATCTGCTGGAAGGCTGCGGTTGCTGTTCTGTTCTGTTCTGGGTGGCAGGCGGAGCA 7500

BTx623 7501:GAATGTGGTTGGTTTCTCGGCTTTGCTTTGCCCCACGCCAAGCTTGAAAACGGCAGCGT 7560
Dwarf white milo 7501:GAATGTGGTTGGTTTCTCGGCTTTGCTTTGCCCCACGCCAAGCTTGAAAACGGCAGCGT 7560
Tall white sooner milo 7501:GAATGTGGTTGGTTTCTCGGCTTTGCTTTGCCCCACGCCAAGCTTGAAAACGGCAGCGT 7560
bmr-6 7501:GAATGTGGTTGGTTTCTCGGCTTTGCTTTGCCCCACGCCAAGCTTGAAAACGGCAGCGT 7560

BTx623 7561:TCCCGGCATGCAGCGCCAGGCTTTTTATCGTGCGCGCCGCCGACTCCGTGCGGTCCG 7620
Dwarf white milo 7561:TCCCGGCATGCAGCGCCAGGCTTTTTATCGTGCGCGCCGCCGACTCCGTGCGGTCCG 7620
Tall white sooner milo 7561:TCCCGGCATGCAGCGCCAGGCTTTTTATCGTGCGCGCCGCCGACTCCGTGCGGTCCG 7620
bmr-6 7561:TCCCGGCATGCAGCGCCAGGCTTTTTATCGTGCGCGCCGCCGACTCCGTGCGGTCCG 7620

BTx623 7621:GCTGGCTGGCCGCAAAATATAAAGAGCACTGAGCACGGACGCCTTGATAGCACAGCAGG 7680
Dwarf white milo 7621:GCTGGCTGGCCGCAAAATATAAAGAGCACTGAGCACGGACGCCTTGATAGCACAGCAGG 7680
Tall white sooner milo 7621:GCTGGCTGGCCGCAAAATATAAAGAGCACTGAGCACGGACGCCTTGATAGCACAGCAGG 7680
bmr-6 7621:GCTGGCTGGCCGCAAAATATAAAGAGCACTGAGCACGGACGCCTTGATAGCACAGCAGG 7680

BTx623 7681:CGCCACGGCCTGCGAAATCTTCCGCTGCTGTCGATAATGGCAGGAACCGTGCCGTGCA 7740
Dwarf white milo 7681:CGCCACGGCCTGCGAAATCTTCCGCTGCTGTCGATAATGGCAGGAACCGTGCCGTGCA 7740
Tall white sooner milo 7681:CGCCACGGCCTGCGAAATCTTCCGCTGCTGTCGATAATGGCAGGAACCGTGCCGTGCA 7740
bmr-6 7681:CGCCACGGCCTGCGAAATCTTCCGCTGCTGTCGATAATGGCAGGAACCGTGCCGTGCA 7740

BTx623 7741:TGGTGGCGTTGGCCTCTCGTCTGCTTGGCGCTTGGCCAGCTCTTAATCGGTGGATGAGT 7800
Dwarf white milo 7741:TGGTGGCGTTGGCCTCTCGTCTGCTTGGCGCTTGGCCAGCTCTTAATCGGTGGATGAGT 7800
Tall white sooner milo 7741:TGGTGGCGTTGGCCTCTCGTCTGCTTGGCGCTTGGCCAGCTCTTAATCGGTGGATGAGT 7800
bmr-6 7741:TGGTGGCGTTGGCCTCTCGTCTGCTTGGCGCTTGGCCAGCTCTTAATCGGTGGATGAGT 7800

BTx623 7801:ACAAATTCCTCATTGCCGTTACTTTTGCCTTTTGAAGAACGTTAGTTGAAACCATAATAT 7860
Dwarf white milo 7801:ACAAATTCCTCATTGCCGTTACTTTTGCCTTTTGAAGAACGTTAGTTGAAACCATAATAT 7860
Tall white sooner milo 7801:ACAAATTCCTCATTGCCGTTACTTTTGCCTTTTGAAGAACGTTAGTTGAAACCATAATAT 7860
bmr-6 7801:ACAAATTCCTCATTGCCGTTACTTTTGCCTTTTGAAGAACGTTAGTTGAAACCATAATAT 7860

BTx623 7861:AGCAGTAAAAAGAAGCCAAATTCTGTAAGGTCTTGATGGAGTGGATTGAAATGATACTCT 7920
Dwarf white milo 7861:AGCAGTAAAAAGAAGCCAAATTCTGTAAGGTCTTGATGGAGTGGATTGAAATGATACTCT 7920
Tall white sooner milo 7861:AGCAGTAAAAAGAAGCCAAATTCTGTAAGGTCTTGATGGAGTGGATTGAAATGATACTCT 7920
bmr-6 7861:AGCAGTAAAAAGAAGCCAAATTCTGTAAGGTCTTGATGGAGTGGATTGAAATGATACTCT 7920

Figure S4 (page11)

BTx623 7921:AATCTACTTTAACATATATATAAATTAAGATAGATATATACGTATCCAAACAAGACAGTT 7980
Dwarf white milo 7921:AATCTACTTTAACATATATATAAATTAAGATAGATATATACGTATCCAAACAAGACAGTT 7980
Tall white sooner milo 7921:AATCTACTTTAACATATATATAAATTAAGATAGATATATACGTATCCAAACAAGACAGTT 7980
bmr-6 7921:AATCTACTTTAACATATATATAAATTAAGATAGATATATACGTATCCAAACAAGACAGTT 7980

BTx623 7981:TCCTCAACTAGGAGCTGGTAAATTTCAAGGTCGTAAGGAGAGCTCAAATTAGTTGGTTG 8040
Dwarf white milo 7981:TCCTCAACTAGGAGCTGGTAAATTTCAAGGTCGTAAGGAGAGCTCAAATTAGTTGGTTG 8040
Tall white sooner milo 7981:TCCTCAACTAGGAGCTGGTAAATTTCAAGGTCGTAAGGAGAGCTCAAATTAGTTGGTTG 8040
bmr-6 7981:TCCTCAACTAGGAGCTGGTAAATTTCAAGGTCGTAAGGAGAGCTCAAATTAGTTGGTTG 8040

BTx623 8041:GTTGCCGAAAAACTCTGAATCTCTGCCTCGCCACCTTAATTTTTTTAAGTTGCTCCTA 8100
Dwarf white milo 8041:GTTGCCGAAAAACTCTGAATCTCTGCCTCGCCACCTTAATTTTTTTAAGTTGCTCCTA 8100
Tall white sooner milo 8041:GTTGCCGAAAAACTCTGAATCTCTGCCTCGCCACCTTAATTTTTTTAAGTTGCTCCTA 8100
bmr-6 8041:GTTGCCGAAAAACTCTGAATCTCTGCCTCGCCACCTTAATTTTTTTAAGTTGCTCCTA 8100

BTx623 8101:CCGTTCCAAAATAACTAAAGTTTGAGGTTTATTCTAAAATCAAACAATTTACCTTTTGTG 8160
Dwarf white milo 8101:CCGTTCCAAAATAACTAAAGTTTGAGGTTTATTCTAAAATCAAACAATTTACCTTTTGTG 8160
Tall white sooner milo 8101:CCGTTCCAAAATAACTAAAGTTTGAGGTTTATTCTAAAATCAAACAATTTACCTTTTGTG 8160
bmr-6 8101:CCGTTCCAAAATAACTAAAGTTTGAGGTTTATTCTAAAATCAAACAATTTACCTTTTGTG 8160

BTx623 8161:TGCAAAAAACCAATTTACCTTCGATCAAATTAAGAAGACACCATCATTATGGGACT 8220
Dwarf white milo 8161:TGCAAAAAACCAATTTACCTTCGATCAAATTAAGAAGACACCATCATTATGGGACT 8220
Tall white sooner milo 8161:TGCAAAAAACCAATTTACCTTCGATCAAATTAAGAAGACACCATCATTATGGGACT 8220
bmr-6 8161:TGCAAAAAACCAATTTACCTTCGATCAAATTAAGAAGACACCATCATTATGGGACT 8220

BTx623 8221:AAATAGGTGCTGAAGTTTGGTTTATGCTGCTGCTTATGCTAATTTGTGTGAGAAGCATCA 8280
Dwarf white milo 8221:AAATAGGTGCTGAAGTTTGGTTTATGCTGCTGCTTATGCTAATTTGTGTGAGAAGCATCA 8280
Tall white sooner milo 8221:AAATAGGTGCTGAAGTTTGGTTTATGCTGCTGCTTATGCTAATTTGTGTGAGAAGCATCA 8280
bmr-6 8221:AAATAGGTGCTGAAGTTTGGTTTATGCTGCTGCTTATGCTAATTTGTGTGAGAAGCATCA 8280

BTx623 8281:AGAGACGGTGGTTTTGTGCGCAGCACATTCCACTCGTTAATTTAGAATCAAACAATCCAC 8340
Dwarf white milo 8281:AGAGACGGTGGTTTTGTGCGCAGCACATTCCACTCGTTAATTTAGAATCAAACAATCCAC 8340
Tall white sooner milo 8281:AGAGACGGTGGTTTTGTGCGCAGCACATTCCACTCGTTAATTTAGAATCAAACAATCCAC 8340
bmr-6 8281:AGAGACGGTGGTTTTGTGCGCAGCACATTCCACTCGTTAATTTAGAATCAAACAATCCAC 8340

BTx623 8341:TCGTCAATCTCGTGATTTTATTCATGTTCTCGTGCCCTGTCACGGCCAGACAGGTAC 8400
Dwarf white milo 8341:TCGTCAATCTCGTGATTTTATTCATGTTCTCGTGCCCTGTCACGGCCAGACAGGTAC 8400
Tall white sooner milo 8341:TCGTCAATCTCGTGATTTTATTCATGTTCTCGTGCCCTGTCACGGCCAGACAGGTAC 8400
bmr-6 8341:TCGTCAATCTCGTGATTTTATTCATGTTCTCGTGCCCTGTCACGGCCAGACAGGTAC 8400

BTx623 8401:AGCCCGGCAAAATCATGGGACGAGCCAAAAAAAACCTGGGCTAGGCAGGCAGTGCAGGA 8460
Dwarf white milo 8401:AGCCCGGCAAAATCATGGGACGAGCCAAAAAAAACCTGGGCTAGGCAGGCAGTGCAGGA 8460
Tall white sooner milo 8401:AGCCCGGCAAAATCATGGGACGAGCCAAAAAAAACCTGGGCTAGGCAGGCAGTGCAGGA 8460
bmr-6 8401:AGCCCGGCAAAATCATGGGACGAGCCAAAAAAAACCTGGGCTAGGCAGGCAGTGCAGGA 8460

BTx623 8461:GAACTCGAAAAAAGCTGGCCAGACATGTCATCCGTCGCGCCGACCCGTGCTTGAGCCC 8520
Dwarf white milo 8461:GAACTCGAAAAAAGCTGGCCAGACATGTCATCCGTCGCGCCGACCCGTGCTTGAGCCC 8520
Tall white sooner milo 8461:GAACTCGAAAAAAGCTGGCCAGACATGTCATCCGTCGCGCCGACCCGTGCTTGAGCCC 8520
bmr-6 8461:GAACTCGAAAAAAGCTGGCCAGACATGTCATCCGTCGCGCCGACCCGTGCTTGAGCCC 8520

BTx623 8521:AACTCCCGGAACCCGATCTCCAGGTCGCGCGGCGGACGAGCAGCTCGGCCGCTGCGC 8580
Dwarf white milo 8521:AACTCCCGGAACCCGATCTCCAGGTCGCGCGGCGGACGAGCAGCTCGGCCGCTGCGC 8580
Tall white sooner milo 8521:AACTCCCGGAACCCGATCTCCAGGTCGCGCGGCGGACGAGCAGCTCGGCCGCTGCGC 8580
bmr-6 8521:AACTCCCGGAACCCGATCTCCAGGTCGCGCGGCGGACGAGCAGCTCGGCCGCTGCGC 8580

BTx623 8581:GGGCTCCAGTATCTCCACCGCCCGCTTACGGTGCGCAGCCGAGCGCGTCCGCCCTGTC 8640
Dwarf white milo 8581:GGGCTCCAGTATCTCCACCGCCCGCTTACGGTGCGCAGCCGAGCGCGTCCGCCCTGTC 8640
Tall white sooner milo 8581:GGGCTCCAGTATCTCCACCGCCCGCTTACGGTGCGCAGCCGAGCGCGTCCGCCCTGTC 8640
bmr-6 8581:GGGCTCCAGTATCTCCACCGCCCGCTTACGGTGCGCAGCCGAGCGCGTCCGCCCTGTC 8640

Figure S4 (page12)

BTx623	8641: CAGCACGGCCCTGGCCGTGCGCACGAGGCCGGCCACGTCGAGAAGCCCGACCCGTCGCCG	8700
Dwarf white milo	8641: CAGCACGGCCCTGGCCGTGCGCACGAGGCCGGCCACGTCGAGAAGCCCGACCCGTCGCCG	8700
Tall white sooner milo	8641: CAGCACGGCCCTGGCCGTGCGCACGAGGCCGGCCACGTCGAGAAGCCCGACCCGTCGCCG	8700
bmr-6	8641: CAGCACGGCCCTGGCCGTGCGCACGAGGCCGGCCACGTCGAGAAGCCCGACCCGTCGCCG	8700

BTx623	8701: CGACGGAGCGGCCACGACGCCGTGGCCCTCTGCACGAGGCCATCTCCCGCGCGAGCGC	8760
Dwarf white milo	8701: CGACGGAGCGGCCACGACGCCGTGGCCCTCTGCACGAGGCCATCTCCCGCGCGAGCGC	8760
Tall white sooner milo	8701: CGACGGAGCGGCCACGACGCCGTGGCCCTCTGCACGAGGCCATCTCCCGCGCGAGCGC	8760
bmr-6	8701: CGACGGAGCGGCCACGACGCCGTGGCCCTCTGCACGAGGCCATCTCCCGCGCGAGCGC	8760

BTx623	8761: GTCCTCTCGGCCACCGTGCGGCGCTGCAGGTGTCGACCTGCGCCAGCTGCGCCGGGT	8820
Dwarf white milo	8761: GTCCTCTCGGCCACCGTGCGGCGCTGCAGGTGTCGACCTGCGCCAGCTGCGCCGGGT	8820
Tall white sooner milo	8761: GTCCTCTCGGCCACCGTGCGGCGCTGCAGGTGTCGACCTGCGCCAGCTGCGCCGGGT	8820
bmr-6	8761: GTCCTCTCGGCCACCGTGCGGCGCTGCAGGTGTCGACCTGCGCCAGCTGCGCCGGGT	8820

BTx623	8821: GAGGTGCGCCAGGTTCCCCGACCGCACGCCGAGGAGGAGTCCGGCAGCTGCGCCTCGAG	8880
Dwarf white milo	8821: GAGGTGCGCCAGGTTCCCCGACCGCACGCCGAGGAGGAGTCCGGCAGCTGCGCCTCGAG	8880
Tall white sooner milo	8821: GAGGTGCGCCAGGTTCCCCGACCGCACGCCGAGGAGGAGTCCGGCAGCTGCGCCTCGAG	8880
bmr-6	8821: GAGGTGCGCCAGGTTCCCCGACCGCACGCCGAGGAGGAGTCCGGCAGCTGCGCCTCGAG	8880

BTx623	8881: GCGGCGCCGGACTCGGTGTAGAGCAGGTGGACCAGCGTGGTGGGCCGCCACCCGGCGAG	8940
Dwarf white milo	8881: GCGGCGCCGGACTCGGTGTAGAGCAGGTGGACCAGCGTGGTGGGCCGCCACCCGGCGAG	8940
Tall white sooner milo	8881: GCGGCGCCGGACTCGGTGTAGAGCAGGTGGACCAGCGTGGTGGGCCGCCACCCGGCGAG	8940
bmr-6	8881: GCGGCGCCGGACTCGGTGTAGAGCAGGTGGACCAGCGTGGTGGGCCGCCACCCGGCGAG	8940

BTx623	8941: CCAGTACGCGGCCGCGCTCCCGGGGTGGCCACGGCGCCGACAGCGTCCACACCGG	9000
Dwarf white milo	8941: CCAGTACGCGGCCGCGCTCCCGGGGTGGCCACGGCGCCGACAGCGTCCACACCGG	9000
Tall white sooner milo	8941: CCAGTACGCGGCCGCGCTCCCGGGGTGGCCACGGCGCCGACAGCGTCCACACCGG	9000
bmr-6	8941: CCAGTACGCGGCCGCGCTCCCGGGGTGGCCACGGCGCCGACAGCGTCCACACCGG	9000

BTx623	9001: GTCAGCCCCGCGCGCCGCCGAGTAGGATTCCAGTGGGCCACGAAGCGCCACAAG	9060
Dwarf white milo	9001: GTCAGCCCCGCGCGCCGCCGAGTAGGATTCCAGTGGGCCACGAAGCGCCACAAG	9060
Tall white sooner milo	9001: GTCAGCCCCGCGCGCCGCCGAGTAGGATTCCAGTGGGCCACGAAGCGCCACAAG	9060
bmr-6	9001: GTCAGCCCCGCGCGCCGCCGAGTAGGATTCCAGTGGGCCACGAAGCGCCACAAG	9060

BTx623	9061: AGCGGGGAGCTGGGCCGCCGCTCGTCCGACCACGGGCCGACGCCAGGTCGCCGCCAG	9120
Dwarf white milo	9061: AGCGGGGAGCTGGGCCGCCGCTCGTCCGACCACGGGCCGACGCCAGGTCGCCGCCAG	9120
Tall white sooner milo	9061: AGCGGGGAGCTGGGCCGCCGCTCGTCCGACCACGGGCCGACGCCAGGTCGCCGCCAG	9120
bmr-6	9061: AGCGGGGAGCTGGGCCGCCGCTCGTCCGACCACGGGCCGACGCCAGGTCGCCGCCAG	9120

BTx623	9121: CGAGCGCAGCCCCGGAACACAGAGGTGGAAGCGCCGGTCCGCGCTCAAGCTCCAGCTC	9180
Dwarf white milo	9121: CGAGCGCAGCCCCGGAACACAGAGGTGGAAGCGCCGGTCCGCGCTCAAGCTCCAGCTC	9180
Tall white sooner milo	9121: CGAGCGCAGCCCCGGAACACAGAGGTGGAAGCGCCGGTCCGCGCTCAAGCTCCAGCTC	9180
bmr-6	9121: CGAGCGCAGCCCCGGAACACAGAGGTGGAAGCGCCGGTCCGCGCTCAAGCTCCAGCTC	9180

BTx623	9181: CATTCCCGCCGCCGCGCACAGGACAGGACAGGACAGGACAGGCGCGCGGGAGGTGTGTC	9240
Dwarf white milo	9181: CATTCCCGCCGCCGCGCACAGGACAGGACAGGACAGGACAGGCGCGCGGGAGGTGTGTC	9240
Tall white sooner milo	9181: CATTCCCGCCGCCGCGCACAGGACAGGACAGGACAGGACAGGCGCGCGGGAGGTGTGTC	9240
bmr-6	9181: CATTCCCGCCGCCGCGCACAGGACAGGACAGGACAGGACAGGCGCGCGGGAGGTGTGTC	9240

BTx623	9241: AACGACGACGACGACGACGACGACGAAGAAGCGTGGCGGTGGATTATAGGGTGCGGC	9300
Dwarf white milo	9241: AACGACGACGACGACGACGACGACGAAGAAGCGTGGCGGTGGATTATAGGGTGCGGC	9300
Tall white sooner milo	9241: AACGACGACGACGACGACGACGACGAAGAAGCGTGGCGGTGGATTATAGGGTGCGGC	9300
bmr-6	9241: AACGACGACGACGACGACGACGACGAAGAAGCGTGGCGGTGGATTATAGGGTGCGGC	9300

BTx623	9301: CGTGGAGTGGAGGCGATCGGACGACGACGACGACGCGTGGCGGTGAGCGTATGAGGTGTC	9360
Dwarf white milo	9301: CGTGGAGTGGAGGCGATCGGACGACGACGACGACGCGTGGCGGTGAGCGTATGAGGTGTC	9360
Tall white sooner milo	9301: CGTGGAGTGGAGGCGATCGGACGACGACGACGACGCGTGGCGGTGAGCGTATGAGGTGTC	9360
bmr-6	9301: CGTGGAGTGGAGGCGATCGGACGACGACGACGACGCGTGGCGGTGAGCGTATGAGGTGTC	9360

Figure S4 (page13)

BTx623 9361:GCGAGGTGGCGCGCATGCAGGGGGCCATGTGTGCCACGAGCACTGGCCGTGTGGTTCTGG 9420
Dwarf white milo 9361:GCGAGGTGGCGCGCATGCAGGGGGCCATGTGTGCCACGAGCACTGGCCGTGTGGTTCTGG 9420
Tall white sooner milo 9361:GCGAGGTGGCGCGCATGCAGGGGGCCATGTGTGCCACGAGCACTGGCCGTGTGGTTCTGG 9420
bmr-6 9361:GCGAGGTGGCGCGCATGCAGGGGGCCATGTGTGCCACGAGCACTGGCCGTGTGGTTCTGG 9420

BTx623 9421:ACGGCGACGCCGTACGCCGGCGACGCGGGGTGGGCTGGGGTGACATGTGGCCCGAGGT 9480
Dwarf white milo 9421:ACGGCGACGCCGTACGCCGGCGACGCGGGGTGGGCTGGGGTGACATGTGGCCCGAGGT 9480
Tall white sooner milo 9421:ACGGCGACGCCGTACGCCGGCGACGCGGGGTGGGCTGGGGTGACATGTGGCCCGAGGT 9480
bmr-6 9421:ACGGCGACGCCGTACGCCGGCGACGCGGGGTGGGCTGGGGTGACATGTGGCCCGAGGT 9480

BTx623 9481:GCCAATGGGTTTACCGTCTACTGTAGAGGTGTCGCGACGCGCCGACTGGTTGGTCTGGTC 9540
Dwarf white milo 9481:GCCAATGGGTTTACCGTCTACTGTAGAGGTGTCGCGACGCGCCGACTGGTTGGTCTGGTC 9540
Tall white sooner milo 9481:GCCAATGGGTTTACCGTCTACTGTAGAGGTGTCGCGACGCGCCGACTGGTTGGTCTGGTC 9540
bmr-6 9481:GCCAATGGGTTTACCGTCTACTGTAGAGGTGTCGCGACGCGCCGACTGGTTGGTCTGGTC 9540

BTx623 9541:CCAGGGGTACAGTGTGTTTGTGATGACGCGAGGTGACGGTGACGGTGACGGTGACGGAAG 9600
Dwarf white milo 9541:CCAGGGGTACAGTGTGTTTGTGATGACGCGAGGTGACGGTGACGGTGACGGTGACGGAAG 9600
Tall white sooner milo 9541:CCAGGGGTACAGTGTGTTTGTGATGACGCGAGGTGACGGTGACGGTGACGGTGACGGAAG 9600
bmr-6 9541:CCAGGGGTACAGTGTGTTTGTGATGACGCGAGGTGACGGTGACGGTGACGGTGACGGAAG 9600

BTx623 9601:AGCTACTGGTGGCCTTGAGCGCAGAAGTTTGGGCTGTCAATTTTGGGTTGGATCCCATC 9660
Dwarf white milo 9601:AGCTACTGGTGGCCTTGAGCGCAGAAGTTTGGGCTGTCAATTTTGGGTTGGATCCCATC 9660
Tall white sooner milo 9601:AGCTACTGGTGGCCTTGAGCGCAGAAGTTTGGGCTGTCAATTTTGGGTTGGATCCCATC 9660
bmr-6 9601:AGCTACTGGTGGCCTTGAGCGCAGAAGTTTGGGCTGTCAATTTTGGGTTGGATCCCATC 9660

BTx623 9661:GCATCCCATCTGGATGCGCTGCAGATATTTTGCCTGGACGACGGTATTGAATCATGTGTG 9720
Dwarf white milo 9661:GCATCCCATCTGGATGCGCTGCAGATATTTTGCCTGGACGACGGTATTGAATCATGTGTG 9720
Tall white sooner milo 9661:GCATCCCATCTGGATGCGCTGCAGATATTTTGCCTGGACGACGGTATTGAATCATGTGTG 9720
bmr-6 9661:GCATCCCATCTGGATGCGCTGCAGATATTTTGCCTGGACGACGGTATTGAATCATGTGTG 9720

BTx623 9721:TTACTGTTATTGCACAAGCTCAAAAAAAGTGTGTGACTGTTCACTCAGGTTTGTCTGGAA 9780
Dwarf white milo 9721:TTACTGTTATTGCACAAGCTCAAAAAAAGTGTGTGACTGTTCACTCAGGTTTGTCTGGAA 9780
Tall white sooner milo 9721:TTACTGTTATTGCACAAGCTCAAAAAAAGTGTGTGACTGTTCACTCAGGTTTGTCTGGAA 9780
bmr-6 9721:TTACTGTTATTGCACAAGCTCAAAAAAAGTGTGTGACTGTTCACTCAGGTTTGTCTGGAA 9780

BTx623 9781:ACAGGAGAGTCATCTCGGCCTCATCTTGTGTTTATAAATAGTTGGAGCTGTGGATAGTGCTG 9840
Dwarf white milo 9781:ACAGGAGAGTCATCTCGGCCTCATCTTGTGTTTATAAATAGTTGGAGCTGTGGATAGTGCTG 9840
Tall white sooner milo 9781:ACAGGAGAGTCATCTCGGCCTCATCTTGTGTTTATAAATAGTTGGAGCTGTGGATAGTGCTG 9840
bmr-6 9781:ACAGGAGAGTCATCTCGGCCTCATCTTGTGTTTATAAATAGTTGGAGCTGTGGATAGTGCTG 9840

BTx623 9841:TCTGCTAGTGCTGTGCTGTGCTCCCAAGATCAGGTTTCTGAATTTCTACTTTCCGGTAGG 9900
Dwarf white milo 9841:TCTGCTAGTGCTGTGCTGTGCTCCCAAGATCAGGTTTCTGAATTTCTACTTTCCGGTAGG 9900
Tall white sooner milo 9841:TCTGCTAGTGCTGTGCTGTGCTCCCAAGATCAGGTTTCTGAATTTCTACTTTCCGGTAGG 9900
bmr-6 9841:TCTGCTAGTGCTGTGCTGTGCTCCCAAGATCAGGTTTCTGAATTTCTACTTTCCGGTAGG 9900

BTx623 9901:TATCAATAATGGAGGTTTTATTTGCCTGGCTGCCGGCCATGGCGATCGGCCGCGCGTGT 9960
Dwarf white milo 9901:TATCAATAATGGAGGTTTTATTTGCCTGGCTGCCGGCCATGGCGATCGGCCGCGCGTGT 9960
Tall white sooner milo 9901:TATCAATAATGGAGGTTTTATTTGCCTGGCTGCCGGCCATGGCGATCGGCCGCGCGTGT 9960
bmr-6 9901:TATCAATAATGGAGGTTTTATTTGCCTGGCTGCCGGCCATGGCGATCGGCCGCGCGTGT 9960

BTx623 9961:CATTAGTAGAATCTTTGTTTCGCTCCTCGCGTGTCTCGTTCCTGTCCAGGAACCTCAAAA 10020
Dwarf white milo 9961:CATTAGTAGAATCTTTGTTTCGCTCCTCGCGTGTCTCGTTCCTGTCCAGGAACCTCAAAA 10020
Tall white sooner milo 9961:CATTAGTAGAATCTTTGTTTCGCTCCTCGCGTGTCTCGTTCCTGTCCAGGAACCTCAAAA 10020
bmr-6 9961:CATTAGTAGAATCTTTGTTTCGCTCCTCGCGTGTCTCGTTCCTGTCCAGGAACCTCAAAA 10020

BTx623 10021:GCGGAGGATACGTGTATATCTTGCCAGAACCAGCACCTTCAGAGTTTCAGACACATGA 10080
Dwarf white milo 10021:GCGGAGGATACGTGTATATCTTGCCAGAACCAGCACCTTCAGAGTTTCAGACACATGA 10080
Tall white sooner milo 10021:GCGGAGGATACGTGTATATCTTGCCAGAACCAGCACCTTCAGAGTTTCAGACACATGA 10080
bmr-6 10021:GCGGAGGATACGTGTATATCTTGCCAGAACCAGCACCTTCAGAGTTTCAGACACATGA 10080

Figure S4 (page14)

BTx623 10081:TGGTGAATGCAACGGGTGGTAGAAATCGTCGGTTCACGAGGATTACTAGTACTATTCT 10140
Dwarf white milo 10081:TGGTGAATGCAACGGGTGGTAGAAATCGTCGGTTCACGAGGATTACTAGTACTATTCT 10140
Tall white sooner milo 10081:TGGTGAATGCAACGGGTGGTAGAAATCGTCGGTTCACGAGGATTACTAGTACTATTCT 10140
bmr-6 10081:TGGTGAATGCAACGGGTGGTAGAAATCGTCGGTTCACGAGGATTACTAGTACTATTCT 10140

BTx623 10141:GCAGTTTCACATTTACAGCAGGAGATATATATATATATATGTCAGTTGTCAGTTACGTTG 10200
Dwarf white milo 10141:GCAGTTTCACATTTACAGCAGGAGATATATATATATATGTCAGTTGTCAGTTACGTTG 10200
Tall white sooner milo 10141:GCAGTTTCACATTTACAGCAGGAGATATATATATATATGTCAGTTGTCAGTTACGTTG 10200
bmr-6 10141:GCAGTTTCACATTTACAGCAGGAGATATATATATATATGTCAGTTGTCAGTTACGTTG 10200

BTx623 10201:ACGATGCTGGCGATGCACAAAGTTGCATAGCAGCAGTATGCACAGCGACACAGCCTGC 10260
Dwarf white milo 10201:ACGATGCTGGCGATGCACAAAGTTGCATAGCAGCAGTATGCACAGCGACACAGCCTGC 10260
Tall white sooner milo 10201:ACGATGCTGGCGATGCACAAAGTTGCATAGCAGCAGTATGCACAGCGACACAGCCTGC 10260
bmr-6 10201:ACGATGCTGGCGATGCACAAAGTTGCATAGCAGCAGTATGCACAGCGACACAGCCTGC 10260

BTx623 10261:AGGGGCATCCCCTTTGCCAAGTTAGCTTCCCTCCGCGGTCGAAAGCACCTCCAGCTCGG 10320
Dwarf white milo 10261:AGGGGCATCCCCTTTGCCAAGTTAGCTTCCCTCCGCGGTCGAAAGCACCTCCAGCTCGG 10320
Tall white sooner milo 10261:AGGGGCATCCCCTTTGCCAAGTTAGCTTCCCTCCGCGGTCGAAAGCACCTCCAGCTCGG 10320
bmr-6 10261:AGGGGCATCCCCTTTGCCAAGTTAGCTTCCCTCCGCGGTCGAAAGCACCTCCAGCTCGG 10320

BTx623 10321:CCCACCAGAGCGGAGACAGCCTCGGCGTCGACGACCGGCGAGATACCGATGGCTTCTC 10380
Dwarf white milo 10321:CCCACCAGAGCGGAGACAGCCTCGGCGTCGACGACCGGCGAGATACCGATGGCTTCTC 10380
Tall white sooner milo 10321:CCCACCAGAGCGGAGACAGCCTCGGCGTCGACGACCGGCGAGATACCGATGGCTTCTC 10380
bmr-6 10321:CCCACCAGAGCGGAGACAGCCTCGGCGTCGACGACCGGCGAGATACCGATGGCTTCTC 10380

BTx623 10381:TCAGCCTGGCAGCGACCTCCCTCATGCTCGGTCTGTTTCTGGGATCGCTCTGGATGCAGG 10440
Dwarf white milo 10381:TCAGCCTGGCAGCGACCTCCCTCATGCTCGGTCTGTTTCTGGGATCGCTCTGGATGCAGG 10440
Tall white sooner milo 10381:TCAGCCTGGCAGCGACCTCCCTCATGCTCGGTCTGTTTCTGGGATCGCTCTGGATGCAGG 10440
bmr-6 10381:TCAGCCTGGCAGCGACCTCCCTCATGCTCGGTCTGTTTCTGGGATCGCTCTGGATGCAGG 10440

BTx623 10441:CACGGATCACCTCGCCGATGACTGCTAGCTCATCTTCCCTGTGAATGTGATCGCACAGTG 10500
Dwarf white milo 10441:CACGGATCACCTCGCCGATGACTGCTAGCTCATCTTCCCTGTGAATGTGATCGCACAGTG 10500
Tall white sooner milo 10441:CACGGATCACCTCGCCGATGACTGCTAGCTCATCTTCCCTGTGAATGTGATCGCACAGTG 10500
bmr-6 10441:CACGGATCACCTCGCCGATGACTGCTAGCTCATCTTCCCTGTGAATGTGATCGCACAGTG 10500

BTx623 10501:TTGGATCCAGCAAGGAGGCTATACTCCGGTCATCGTTGGCTATGCACTCCAGAGCCTAGG 10560
Dwarf white milo 10501:TTGGATCCAGCAAGGAGGCTATACTCCGGTCATCGTTGGCTATGCACTCCAGAGCCTAGG 10560
Tall white sooner milo 10501:TTGGATCCAGCAAGGAGGCTATACTCCGGTCATCGTTGGCTATGCACTCCAGAGCCTAGG 10560
bmr-6 10501:TTGGATCCAGCAAGGAGGCTATACTCCGGTCATCGTTGGCTATGCACTCCAGAGCCTAGG 10560

BTx623 10561:AAAGAAGAAGAAATACAACGTCACTATTGATTTTTTTTTCATCATCAATCAAGTAGAAA 10620
Dwarf white milo 10561:AAAGAAGAAGAAATACAACGTCACTATTGATTTTTTTTTCATCATCAATCAAGTAGAAA 10620
Tall white sooner milo 10561:AAAGAAGAAGAAATACAACGTCACTATTGATTTTTTTTTCATCATCAATCAAGTAGAAA 10620
bmr-6 10561:AAAGAAGAAGAAATACAACGTCACTATTGATTTTTTTTTCATCATCAATCAAGTAGAAA 10620

BTx623 10621:TGATGTTTCATCGATAGCGTCGTCATTACCGAGCTCACGAGGGAGCGCTCGTGCCGGGG 10680
Dwarf white milo 10621:TGATGTTTCATCGATAGCGTCGTCATTACCGAGCTCACGAGGGAGCGCTCGTGCCGGGG 10680
Tall white sooner milo 10621:TGATGTTTCATCGATAGCGTCGTCATTACCGAGCTCACGAGGGAGCGCTCGTGCCGGGG 10680
bmr-6 10621:TGATGTTTCATCGATAGCGTCGTCATTACCGAGCTCACGAGGGAGCGCTCGTGCCGGGG 10680

BTx623 10681:TATGGAATGGAAGTTTCCCTGAGATGATTTCAAGCAGTAGAACACCGAAGCTATGTACA 10740
Dwarf white milo 10681:TATGGAATGGAAGTTTCCCTGAGATGATTTCAAGCAGTAGAACACCGAAGCTATGTACA 10740
Tall white sooner milo 10681:TATGGAATGGAAGTTTCCCTGAGATGATTTCAAGCAGTAGAACACCGAAGCTATGTACA 10740
bmr-6 10681:TATGGAATGGAAGTTTCCCTGAGATGATTTCAAGCAGTAGAACACCGAAGCTATGTACA 10740

BTx623 10741:TTCCCTGCTAACCCAGCGGACACCTGTTCTTGGTGATGGTCGAGCTCGCCATTCTGTCGCC 10800
Dwarf white milo 10741:TTCCCTGCTAACCCAGCGGACACCTGTTCTTGGTGATGGTCGAGCTCGCCATTCTGTCGCC 10800
Tall white sooner milo 10741:TTCCCTGCTAACCCAGCGGACACCTGTTCTTGGTGATGGTCGAGCTCGCCATTCTGTCGCC 10800
bmr-6 10741:TTCCCTGCTAACCCAGCGGACACCTGTTCTTGGTGATGGTCGAGCTCGCCATTCTGTCGCC 10800

Figure S4 (page15)

BTx623 10801:GTTTTGGCTTCAGAAATCACTTCATGCCAAACGCTCATGTCCGCTATCTGCAGGAACAAC 10860
Dwarf white milo 10801:GTTTTGGCTTCAGAAATCACTTCATGCCAAACGCTCATGTCCGCTATCTGCAGGAACAAC 10860
Tall white sooner milo 10801:GTTTTGGCTTCAGAAATCACTTCATGCCAAACGCTCATGTCCGCTATCTGCAGGAACAAC 10860
bmr-6 10801:GTTTTGGCTTCAGAAATCACTTCATGCCAAACGCTCATGTCCGCTATCTGCAGGAACAAC 10860

BTx623 10861:TCAGGTCTCAGGGTGGATCAAGTTGCAGTTCCTTCACACTGATGCTAACACAGCATGGTT 10920
Dwarf white milo 10861:TCAGGTCTCAGGGTGGATCAAGTTGCAGTTCCTTCACACTGATGCTAACACAGCATGGTT 10920
Tall white sooner milo 10861:TCAGGTCTCAGGGTGGATCAAGTTGCAGTTCCTTCACACTGATGCTAACACAGCATGGTT 10920
bmr-6 10861:TCAGGTCTCAGGGTGGATCAAGTTGCAGTTCCTTCACACTGATGCTAACACAGCATGGTT 10920

BTx623 10921:GTTGACACCAAGAGGTTTCAAATTTGGTAAACTCAGGGAGTGATAATATGAAGTTGGG 10980
Dwarf white milo 10921:GTTGACACCAAGAGGTTTCAAATTTGGTAAACTCAGGGAGTGATAATATGAAGTTGGG 10980
Tall white sooner milo 10921:GTTGACACCAAGAGGTTTCAAATTTGGTAAACTCAGGGAGTGATAATATGAAGTTGGG 10980
bmr-6 10921:GTTGACACCAAGAGGTTTCAAATTTGGTAAACTCAGGGAGTGATAATATGAAGTTGGG 10980

BTx623 10981:TAGGACAAACAAAAGAAAAGAAAACATTAACCAAGACTAGCTTATAGCCTTATGGAAGT 11040
Dwarf white milo 10981:TAGGACAAACAAAAGAAAAGAAAACATTAACCAAGACTAGCTTATAGCCTTATGGAAGT 11040
Tall white sooner milo 10981:TAGGACAAACAAAAGAAAAGAAAACATTAACCAAGACTAGCTTATAGCCTTATGGAAGT 11040
bmr-6 10981:TAGGACAAACAAAAGAAAAGAAAACATTAACCAAGACTAGCTTATAGCCTTATGGAAGT 11040

BTx623 11041:GGATGGGAGTGTGTACCTTTGCAGCACCATCTTCAGATAGCAGTATGGAAGTGGACTGAA 11100
Dwarf white milo 11041:GGATGGGAGTGTGTACCTTTGCAGCACCATCTTCAGATAGCAGTATGGAAGTGGACTGAA 11100
Tall white sooner milo 11041:GGATGGGAGTGTGTACCTTTGCAGCACCATCTTCAGATAGCAGTATGGAAGTGGACTGAA 11100
bmr-6 11041:GGATGGGAGTGTGTACCTTTGCAGCACCATCTTCAGATAGCAGTATGGAAGTGGACTGAA 11100

BTx623 11101:GATCAGGGTGCACCACAGGAGGGCTGAGCTCATGCATGTGCTGGATGCAGTATGCTAGTC 11160
Dwarf white milo 11101:GATCAGGGTGCACCACAGGAGGGCTGAGCTCATGCATGTGCTGGATGCAGTATGCTAGTC 11160
Tall white sooner milo 11101:GATCAGGGTGCACCACAGGAGGGCTGAGCTCATGCATGTGCTGGATGCAGTATGCTAGTC 11160
bmr-6 11101:GATCAGGGTGCACCACAGGAGGGCTGAGCTCATGCATGTGCTGGATGCAGTATGCTAGTC 11160

BTx623 11161:CCATGATAATCCGCATCCTACCTCGCCAAGCGATGTGCTCAAATCCTCAGCTGCAACAA 11220
Dwarf white milo 11161:CCATGATAATCCGCATCCTACCTCGCCAAGCGATGTGCTCAAATCCTCAGCTGCAACAA 11220
Tall white sooner milo 11161:CCATGATAATCCGCATCCTACCTCGCCAAGCGATGTGCTCAAATCCTCAGCTGCAACAA 11220
bmr-6 11161:CCATGATAATCCGCATCCTACCTCGCCAAGCGATGTGCTCAAATCCTCAGCTGCAACAA 11220

BTx623 11221:GTTTGCAGAATTGTTAATTACTCGTACACAATATTTACAGAGCTACATGTACAGTTCAAT 11280
Dwarf white milo 11221:GTTTGCAGAATTGTTAATTACTCGTACACAATATTTACAGAGCTACATGTACAGTTCAAT 11280
Tall white sooner milo 11221:GTTTGCAGAATTGTTAATTACTCGTACACAATATTTACAGAGCTACATGTACAGTTCAAT 11280
bmr-6 11221:GTTTGCAGAATTGTTAATTACTCGTACACAATATTTACAGAGCTACATGTACAGTTCAAT 11280

BTx623 11281:GGTATGGTTGAATTAGCAAGAACAGTTTCTATATACCATGAAGACTCTCATGAAGTGTC 11340
Dwarf white milo 11281:GGTATGGTTGAATTAGCAAGAACAGTTTCTATATACCATGAAGACTCTCATGAAGTGTC 11340
Tall white sooner milo 11281:GGTATGGTTGAATTAGCAAGAACAGTTTCTATATACCATGAAGACTCTCATGAAGTGTC 11340
bmr-6 11281:GGTATGGTTGAATTAGCAAGAACAGTTTCTATATACCATGAAGACTCTCATGAAGTGTC 11340

BTx623 11341:CATTGCGCGCTACTCGAGCACCATCATCCTGGTGAAGGTTCTCCTCCTCACAGAAGC 11400
Dwarf white milo 11341:CATTGCGCGCTACTCGAGCACCATCATCCTGGTGAAGGTTCTCCTCCTCACAGAAGC 11400
Tall white sooner milo 11341:CATTGCGCGCTACTCGAGCACCATCATCCTGGTGAAGGTTCTCCTCCTCACAGAAGC 11400
bmr-6 11341:CATTGCGCGCTACTCGAGCACCATCATCCTGGTGAAGGTTCTCCTCCTCACAGAAGC 11400

BTx623 11401:CAAGCAGATTGATGAAGTTCCTGTGGTTTATTCGCGACAGGGTGTCTATCTGCTCAATTC 11460
Dwarf white milo 11401:CAAGCAGATTGATGAAGTTCCTGTGGTTTATTCGCGACAGGGTGTCTATCTGCTCAATTC 11460
Tall white sooner milo 11401:CAAGCAGATTGATGAAGTTCCTGTGGTTTATTCGCGACAGGGTGTCTATCTGCTCAATTC 11460
bmr-6 11401:CAAGCAGATTGATGAAGTTCCTGTGGTTTATTCGCGACAGGGTGTCTATCTGCTCAATTC 11460

BTx623 11461:ATCATTAAAGTAATTCAGCTAATATGCAAATACACAACTCAAATGGGTGTGTTGTTCA 11520
Dwarf white milo 11461:ATCATTAAAGTAATTCAGCTAATATGCAAATACACAACTCAAATGGGTGTGTTGTTCA 11520
Tall white sooner milo 11461:ATCATTAAAGTAATTCAGCTAATATGCAAATACACAACTCAAATGGGTGTGTTGTTCA 11520
bmr-6 11461:ATCATTAAAGTAATTCAGCTAATATGCAAATACACAACTCAAATGGGTGTGTTGTTCA 11520

Figure S4 (page16)

BTx623 11521:CATATATCTAAATAAATGGGCCAAATTTCTGATGATAACCTTTCTCCTGAAGCAGGTCTCT 11580
Dwarf white milo 11521:CATATATCTAAATAAATGGGCCAAATTTCTGATGATAACCTTTCTCCTGAAGCAGGTCTCT 11580
Tall white sooner milo 11521:CATATATCTAAATAAATGGGCCAAATTTCTGATGATAACCTTTCTCCTGAAGCAGGTCTCT 11580
bmr-6 11521:CATATATCTAAATAAATGGGCCAAATTTCTGATGATAACCTTTCTCCTGAAGCAGGTCTCT 11580

BTx623 11581:GAATGCTCTGACCACTCCTTGCTCGATGTAATCATAGTGGACACCACGGCGATCTCAACC 11640
Dwarf white milo 11581:GAATGCTCTGACCACTCCTTGCTCGATGTAATCATAGTGGACACCACGGCGATCTCAACC 11640
Tall white sooner milo 11581:GAATGCTCTGACCACTCCTTGCTCGATGTAATCATAGTGGACACCACGGCGATCTCAACC 11640
bmr-6 11581:GAATGCTCTGACCACTCCTTGCTCGATGTAATCATAGTGGACACCACGGCGATCTCAACC 11640

BTx623 11641:CCAGTTGACAAAGTTCCCTTGTAGACGGTGTAGTGTGGTAGTCGCCACGATGTTACTG 11700
Dwarf white milo 11641:CCAGTTGACAAAGTTCCCTTGTAGACGGTGTAGTGTGGTAGTCGCCACGATGTTACTG 11700
Tall white sooner milo 11641:CCAGTTGACAAAGTTCCCTTGTAGACGGTGTAGTGTGGTAGTCGCCACGATGTTACTG 11700
bmr-6 11641:CCAGTTGACAAAGTTCCCTTGTAGACGGTGTAGTGTGGTAGTCGCCACGATGTTACTG 11700

BTx623 11701:AAGTCCTCACAGGCACGTTCCAGCTCTGAACGCTGCAACTTTGGTACTCCTGATGAAGCA 11760
Dwarf white milo 11701:AAGTCCTCACAGGCACGTTCCAGCTCTGAACGCTGCAACTTTGGTACTCCTGATGAAGCA 11760
Tall white sooner milo 11701:AAGTCCTCACAGGCACGTTCCAGCTCTGAACGCTGCAACTTTGGTACTCCTGATGAAGCA 11760
bmr-6 11701:AAGTCCTCACAGGCACGTTCCAGCTCTGAACGCTGCAACTTTGGTACTCCTGATGAAGCA 11760

BTx623 11761:ATGAGAATCAGCTGGGTTAATTGCAACAAGCAGCAGCTTAAGTTGACTAGATATCTGAA 11820
Dwarf white milo 11761:ATGAGAATCAGCTGGGTTAATTGCAACAAGCAGCAGCTTAAGTTGACTAGATATCTGAA 11820
Tall white sooner milo 11761:ATGAGAATCAGCTGGGTTAATTGCAACAAGCAGCAGCTTAAGTTGACTAGATATCTGAA 11820
bmr-6 11761:ATGAGAATCAGCTGGGTTAATTGCAACAAGCAGCAGCTTAAGTTGACTAGATATCTGAA 11820

BTx623 11821:CAATTCAGACAGCAAAGTATCAACTGAATCTTCCATCCTATTTTTTTTCCCTTGCAAGTA 11880
Dwarf white milo 11821:CAATTCAGACAGCAAAGTATCAACTGAATCTTCCATCCTATTTTTTTTCCCTTGCAAGTA 11880
Tall white sooner milo 11821:CAATTCAGACAGCAAAGTATCAACTGAATCTTCCATCCTATTTTTTTTCCCTTGCAAGTA 11880
bmr-6 11821:CAATTCAGACAGCAAAGTATCAACTGAATCTTCCATCCTATTTTTTTTCCCTTGCAAGTA 11880

BTx623 11881:GTACAGATTTTTTTTAAAAAAAAGGGGGGATGTAATAAATTTTGAGCACATATATGAAG 11940
Dwarf white milo 11881:GTACAGATTTTTTTTAAAAAAAAGGGGGGATGTAATAAATTTTGAGCACATATATGAAG 11940
Tall white sooner milo 11881:GTACAGATTTTTTTTAAAAAAAAGGGGGGATGTAATAAATTTTGAGCACATATATGAAG 11940
bmr-6 11881:GTACAGATTTTTTTTAAAAAAAAGGGGGGATGTAATAAATTTTGAGCACATATATGAAG 11940

BTx623 11941:GAACTAGTAGCAAATATAGTACTCCATACAATAGCAGTATGTATACCTGTAGCAAAGGC 12000
Dwarf white milo 11941:GAACTAGTAGCAAATATAGTACTCCATACAATAGCAGTATGTATACCTGTAGCAAAGGC 12000
Tall white sooner milo 11941:GAACTAGTAGCAAATATAGTACTCCATACAATAGCAGTATGTATACCTGTAGCAAAGGC 12000
bmr-6 11941:GAACTAGTAGCAAATATAGTACTCCATACAATAGCAGTATGTATACCTGTAGCAAAGGC 12000

BTx623 12001:TTTCTGCAGCTGGCCACTGAGTCCAGTCTTCCAAGGGCCAATGGTCGCAACCCGACTCTT 12060
Dwarf white milo 12001:TTTCTGCAGCTGGCCACTGAGTCCAGTCTTCCAAGGGCCAATGGTCGCAACCCGACTCTT 12060
Tall white sooner milo 12001:TTTCTGCAGCTGGCCACTGAGTCCAGTCTTCCAAGGGCCAATGGTCGCAACCCGACTCTT 12060
bmr-6 12001:TTTCTGCAGCTGGCCACTGAGTCCAGTCTTCCAAGGGCCAATGGTCGCAACCCGACTCTT 12060

BTx623 12061:ACGACAAGAAGCCAGCACGCTAGTCCAGCAAGCAACAGCAGGGCAAGCGCCGGAAGAAC 12120
Dwarf white milo 12061:ACGACAAGAAGCCAGCACGCTAGTCCAGCAAGCAACAGCAGGGCAAGCGCCGGAAGAAC 12120
Tall white sooner milo 12061:ACGACAAGAAGCCAGCACGCTAGTCCAGCAAGCAACAGCAGGGCAAGCGCCGGAAGAAC 12120
bmr-6 12061:ACGACAAGAAGCCAGCACGCTAGTCCAGCAAGCAACAGCAGGGCAAGCGCCGGAAGAAC 12120

BTx623 12121:AACCATGTAGAGCCACCTCATAGATCTCGACAATAAGCCGCCGGCGTCTGGTGCCGC 12180
Dwarf white milo 12121:AACCATGTAGAGCCACCTCATAGATCTCGACAATAAGCCGCCGGCGTCTGGTGCCGC 12180
Tall white sooner milo 12121:AACCATGTAGAGCCACCTCATAGATCTCGACAATAAGCCGCCGGCGTCTGGTGCCGC 12180
bmr-6 12121:AACCATGTAGAGCCACCTCATAGATCTCGACAATAAGCCGCCGGCGTCTGGTGCCGC 12180

BTx623 12181:CTCGCTCGGATCGTTCTGCCCCCGTGTGCGACTGGGAGACGCCGCCGAAAAGACCGGT 12240
Dwarf white milo 12181:CTCGCTCGGATCGTTCTGCCCCCGTGTGCGACTGGGAGACGCCGCCGAAAAGACCGGT 12240
Tall white sooner milo 12181:CTCGCTCGGATCGTTCTGCCCCCGTGTGCGACTGGGAGACGCCGCCGAAAAGACCGGT 12240
bmr-6 12181:CTCGCTCGGATCGTTCTGCCCCCGTGTGCGACTGGGAGACGCCGCCGAAAAGACCGGT 12240

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BTx623 12241:TCCATGAGACGGGACATGAGCGTCTGACTGGGACGCCATGAACGTTCCGAGGCAGAGGCAG 12300
Dwarf white milo 12241:TCCATGAGACGGGACATGAGCGTCTGACTGGGACGCCATGAACGTTCCGAGGCAGAGGCAG 12300
Tall white sooner milo 12241:TCCATGAGACGGGACATGAGCGTCTGACTGGGACGCCATGAACGTTCCGAGGCAGAGGCAG 12300
bmr-6 12241:TCCATGAGACGGGACATGAGCGTCTGACTGGGACGCCATGAACGTTCCGAGGCAGAGGCAG 12300

BTx623 12301:CGCGGCAGATTTGTGGTGTCTGCTGAAGTAGTAGCCTCCGATGGCTCGGCTGCGCCG 12360
Dwarf white milo 12301:CGCGGCAGATTTGTGGTGTCTGCTGAAGTAGTAGCCTCCGATGGCTCGGCTGCGCCG 12360
Tall white sooner milo 12301:CGCGGCAGATTTGTGGTGTCTGCTGAAGTAGTAGCCTCCGATGGCTCGGCTGCGCCG 12360
bmr-6 12301:CGCGGCAGATTTGTGGTGTCTGCTGAAGTAGTAGCCTCCGATGGCTCGGCTGCGCCG 12360

BTx623 12361:CGGCAGATCCGCGGCGGTATGGCAGAATGGAGGGTCAACATGACCAGCAGGGAAGT 12420
Dwarf white milo 12361:CGGCAGATCCGCGGCGGTATGGCAGAATGGAGGGTCAACATGACCAGCAGGGAAGT 12420
Tall white sooner milo 12361:CGGCAGATCCGCGGCGGTATGGCAGAATGGAGGGTCAACATGACCAGCAGGGAAGT 12420
bmr-6 12361:CGGCAGATCCGCGGCGGTATGGCAGAATGGAGGGTCAACATGACCAGCAGGGAAGT 12420

BTx623 12421:CGACGCTCCATCGTTCGTCGGCGTGCCCAAAGATCGGTCGCATCAGATGAGCAGATAGC 12480
Dwarf white milo 12421:CGACGCTCCATCGTTCGTCGGCGTGCCCAAAGATCGGTCGCATCAGATGAGCAGATAGC 12480
Tall white sooner milo 12421:CGACGCTCCATCGTTCGTCGGCGTGCCCAAAGATCGGTCGCATCAGATGAGCAGATAGC 12480
bmr-6 12421:CGACGCTCCATCGTTCGTCGGCGTGCCCAAAGATCGGTCGCATCAGATGAGCAGATAGC 12480

BTx623 12481:CTCTACGCGCTGCGTGCCCTCCCTGAGAAAAAAAAGGGATATGGCAGAATCATCGGCG 12540
Dwarf white milo 12481:CTCTACGCGCTGCGTGCCCTCCCTGAGAAAAAAAAGGGATATGGCAGAATCATCGGCG 12540
Tall white sooner milo 12481:CTCTACGCGCTGCGTGCCCTCCCTGAGAAAAAAAAGGGATATGGCAGAATCATCGGCG 12540
bmr-6 12481:CTCTACGCGCTGCGTGCCCTCCCTGAGAAAAAAAAGGGATATGGCAGAATCATCGGCG 12540

BTx623 12541:TCGTCAGGGCTGCATGTTTTGAAGCATTAGAGATACTAGTAGAACACTGGATAAAAAAAG 12600
Dwarf white milo 12541:TCGTCAGGGCTGCATGTTTTGAAGCATTAGAGATACTAGTAGAACACTGGATAAAAAAAG 12600
Tall white sooner milo 12541:TCGTCAGGGCTGCATGTTTTGAAGCATTAGAGATACTAGTAGAACACTGGATAAAAAAAG 12600
bmr-6 12541:TCGTCAGGGCTGCATGTTTTGAAGCATTAGAGATACTAGTAGAACACTGGATAAAAAAAG 12600

BTx623 12601:AGGTGTTGGGAAATTCAGAGTTTCAGACAGCTCCATGATTGATCGCATCGCGTCACCGAC 12660
Dwarf white milo 12601:AGGTGTTGGGAAATTCAGAGTTTCAGACAGCTCCATGATTGATCGCATCGCGTCACCGAC 12660
Tall white sooner milo 12601:AGGTGTTGGGAAATTCAGAGTTTCAGACAGCTCCATGATTGATCGCATCGCGTCACCGAC 12660
bmr-6 12601:AGGTGTTGGGAAATTCAGAGTTTCAGACAGCTCCATGATTGATCGCATCGCGTCACCGAC 12660

BTx623 12661:GACAACCTGATCGAAGAACATGATTGATGAGAGGAAGCAGGGTAGATTGAGAGCTTACAG 12720
Dwarf white milo 12661:GACAACCTGATCGAAGAACATGATTGATGAGAGGAAGCAGGGTAGATTGAGAGCTTACAG 12720
Tall white sooner milo 12661:GACAACCTGATCGAAGAACATGATTGATGAGAGGAAGCAGGGTAGATTGAGAGCTTACAG 12720
bmr-6 12661:GACAACCTGATCGAAGAACATGATTGATGAGAGGAAGCAGGGTAGATTGAGAGCTTACAG 12720

BTx623 12721:TGTGAACGAAACGAAGAGGAAGACGATGACGAGGGAAGGGTCGGAGTTGCTTCGTGGCGG 12780
Dwarf white milo 12721:TGTGAACGAAACGAAGAGGAAGACGATGACGAGGGAAGGGTCGGAGTTGCTTCGTGGCGG 12780
Tall white sooner milo 12721:TGTGAACGAAACGAAGAGGAAGACGATGACGAGGGAAGGGTCGGAGTTGCTTCGTGGCGG 12780
bmr-6 12721:TGTGAACGAAACGAAGAGGAAGACGATGACGAGGGAAGGGTCGGAGTTGCTTCGTGGCGG 12780

BTx623 12781:TAGTAGTTGGAGGAGCCAATAACACACACTTTTCTTTGTTACCACTGACAAGAAAAAAT 12840
Dwarf white milo 12781:TAGTAGTTGGAGGAGCCAATAACACACACTTTTCTTTGTTACCACTGACAAGAAAAAAT 12840
Tall white sooner milo 12781:TAGTAGTTGGAGGAGCCAATAACACACACTTTTCTTTGTTACCACTGACAAGAAAAAAT 12840
bmr-6 12781:TAGTAGTTGGAGGAGCCAATAACACACACTTTTCTTTGTTACCACTGACAAGAAAAAAT 12840

BTx623 12841:GGGGGACTGCTTTGCTTGATTGAGATTAACGACTACTAGAGCGAAACCGGCAATCCCCTT 12900
Dwarf white milo 12841:GGGGGACTGCTTTGCTTGATTGAGATTAACGACTACTAGAGCGAAACCGGCAATCCCCTT 12900
Tall white sooner milo 12841:GGGGGACTGCTTTGCTTGATTGAGATTAACGACTACTAGAGCGAAACCGGCAATCCCCTT 12900
bmr-6 12841:GGGGGACTGCTTTGCTTGATTGAGATTAACGACTACTAGAGCGAAACCGGCAATCCCCTT 12900

BTx623 12901:GCTCGTCGAGTTGCAGTTGCGGACAGCGTCACAGTTTTGTCAACGAAGCGTTCAATAAC 12960
Dwarf white milo 12901:GCTCGTCGAGTTGCAGTTGCGGACAGCGTCACAGTTTTGTCAACGAAGCGTTCAATAAC 12960
Tall white sooner milo 12901:GCTCGTCGAGTTGCAGTTGCGGACAGCGTCACAGTTTTGTCAACGAAGCGTTCAATAAC 12960
bmr-6 12901:GCTCGTCGAGTTGCAGTTGCGGACAGCGTCACAGTTTTGTCAACGAAGCGTTCAATAAC 12960

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BTx623 12961:TGGGGCTGGGGGAATAAAGAACAGCACCCGAGGGACGGAGCCCACTGCCACCCTATCG 13020
Dwarf white milo 12961:TGGGGCTGGGGGAATAAAGAACAGCACCCGAGGGACGGAGCCCACTGCCACCCTATCG 13020
Tall white sooner milo 12961:TGGGGCTGGGGGAATAAAGAACAGCACCCGAGGGACGGAGCCCACTGCCACCCTATCG 13020
bmr-6 12961:TGGGGCTGGGGGAATAAAGAACAGCACCCGAGGGACGGAGCCCACTGCCACCCTATCG 13020

BTx623 13021:TCTATCGATCTCGTCCATGGCACGGCTCGCGTGTGTCCGTCCGCACTGGCACGTAGCTC 13080
Dwarf white milo 13021:TCTATCGATCTCGTCCATGGCACGGCTCGCGTGTGTCCGTCCGCACTGGCACGTAGCTC 13080
Tall white sooner milo 13021:TCTATCGATCTCGTCCATGGCACGGCTCGCGTGTGTCCGTCCGCACTGGCACGTAGCTC 13080
bmr-6 13021:TCTATCGATCTCGTCCATGGCACGGCTCGCGTGTGTCCGTCCGCACTGGCACGTAGCTC 13080

BTx623 13081:CTTGTCATGGCGCGCCGCCACGGACGCTAGCGTTTTTTTTAGAAAAATCGCAGTGCCGCTC 13140
Dwarf white milo 13081:CTTGTCATGGCGCGCCGCCACGGACGCTAGCGTTTTTTTTAGAAAAATCGCAGTGCCGCTC 13140
Tall white sooner milo 13081:CTTGTCATGGCGCGCCGCCACGGACGCTAGCGTTTTTTTTAGAAAAATCGCAGTGCCGCTC 13140
bmr-6 13081:CTTGTCATGGCGCGCCGCCACGGACGCTAGCGTTTTTTTTAGAAAAATCGCAGTGCCGCTC 13140

BTx623 13141:GTACTGGGCGCCGGCCGCAAGTCAGCCACGTGAACGGTGAACCTAGAGTGCCTAACGA 13200
Dwarf white milo 13141:GTACTGGGCGCCGGCCGCAAGTCAGCCACGTGAACGGTGAACCTAGAGTGCCTAACGA 13200
Tall white sooner milo 13141:GTACTGGGCGCCGGCCGCAAGTCAGCCACGTGAACGGTGAACCTAGAGTGCCTAACGA 13200
bmr-6 13141:GTACTGGGCGCCGGCCGCAAGTCAGCCACGTGAACGGTGAACCTAGAGTGCCTAACGA 13200

BTx623 13201:ACCAGAACTAGTCCAGAATCTCGCTCGCAGTCGAGCTTGCCCGAAACAAAGACCGCGC 13260
Dwarf white milo 13201:ACCAGAACTAGTCCAGAATCTCGCTCGCAGTCGAGCTTGCCCGAAACAAAGACCGCGC 13260
Tall white sooner milo 13201:ACCAGAACTAGTCCAGAATCTCGCTCGCAGTCGAGCTTGCCCGAAACAAAGACCGCGC 13260
bmr-6 13201:ACCAGAACTAGTCCAGAATCTCGCTCGCAGTCGAGCTTGCCCGAAACAAAGACCGCGC 13260

BTx623 13261:GTGCAAAGCAAGAACCACCGGGCCGCGCTCGCCGAAAACCTTGCCGTGACTAGCGCCG 13320
Dwarf white milo 13261:GTGCAAAGCAAGAACCACCGGGCCGCGCTCGCCGAAAACCTTGCCGTGACTAGCGCCG 13320
Tall white sooner milo 13261:GTGCAAAGCAAGAACCACCGGGCCGCGCTCGCCGAAAACCTTGCCGTGACTAGCGCCG 13320
bmr-6 13261:GTGCAAAGCAAGAACCACCGGGCCGCGCTCGCCGAAAACCTTGCCGTGACTAGCGCCG 13320

BTx623 13321:CGACGACGGCGACCTTGGGGACGGGATGGACTCGAGAACCATCGATTTTCGATTTTCGATT 13380
Dwarf white milo 13321:CGACGACGGCGACCTTGGGGACGGGATGGACTCGAGAACCATCGATTTTCGATTTTCGATT 13380
Tall white sooner milo 13321:CGACGACGGCGACCTTGGGGACGGGATGGACTCGAGAACCATCGATTTTCGATTTTCGATT 13380
bmr-6 13321:CGACGACGGCGACCTTGGGGACGGGATGGACTCGAGAACCATCGATTTTCGATTTTCGATT 13380

BTx623 13381:TCGATTTTCGATTTTCAGCGGGTTTGCGGCGCCAGAGCCGTGCCGACGGCGCGACGCCG 13440
Dwarf white milo 13381:TCGATTTTCGATTTTCAGCGGGTTTGCGGCGCCAGAGCCGTGCCGACGGCGCGACGCCG 13440
Tall white sooner milo 13381:TCGATTTTCGATTTTCAGCGGGTTTGCGGCGCCAGAGCCGTGCCGACGGCGCGACGCCG 13440
bmr-6 13381:TCGATTTTCGATTTTCAGCGGGTTTGCGGCGCCAGAGCCGTGCCGACGGCGCGACGCCG 13440

BTx623 13441:AACGCGGCACACCCCCACGCCTGCGCCTCGGCGCGCGGGAGGAAACGGCCGGAGGC 13500
Dwarf white milo 13441:AACGCGGCACACCCCCACGCCTGCGCCTCGGCGCGCGGGAGGAAACGGCCGGAGGC 13500
Tall white sooner milo 13441:AACGCGGCACACCCCCACGCCTGCGCCTCGGCGCGCGGGAGGAAACGGCCGGAGGC 13500
bmr-6 13441:AACGCGGCACACCCCCACGCCTGCGCCTCGGCGCGCGGGAGGAAACGGCCGGAGGC 13500

BTx623 13501:TACTATAGCCGTTGCGGCTGGTCCCCCTGAGCAAGTCGTGCGTTTCGGCAGGC GCGCGGG 13560
Dwarf white milo 13501:TACTATAGCCGTTGCGGCTGGTCCCCCTGAGCAAGTCGTGCGTTTCGGCAGGC GCGCGGG 13560
Tall white sooner milo 13501:TACTATAGCCGTTGCGGCTGGTCCCCCTGAGCAAGTCGTGCGTTTCGGCAGGC GCGCGGG 13560
bmr-6 13501:TACTATAGCCGTTGCGGCTGGTCCCCCTGAGCAAGTCGTGCGTTTCGGCAGGC GCGCGGG 13560

BTx623 13561:GTCGAGACCGGAGGC GCCGAGACCCGAGGTCTGCTGCACTCTGCTACGGGGCGCGTCA 13620
Dwarf white milo 13561:GTCGAGACCGGAGGC GCCGAGACCCGAGGTCTGCTGCACTCTGCTACGGGGCGCGTCA 13620
Tall white sooner milo 13561:GTCGAGACCGGAGGC GCCGAGACCCGAGGTCTGCTGCACTCTGCTACGGGGCGCGTCA 13620
bmr-6 13561:GTCGAGACCGGAGGC GCCGAGACCCGAGGTCTGCTGCACTCTGCTACGGGGCGCGTCA 13620

BTx623 13621:CGGCCCACGAGCACTAGTGAGCAGCCAAGCTAGCCAACAAACAGGACAGGAGGCTCCGT 13680
Dwarf white milo 13621:CGGCCCACGAGCACTAGTGAGCAGCCAAGCTAGCCAACAAACAGGACAGGAGGCTCCGT 13680
Tall white sooner milo 13621:CGGCCCACGAGCACTAGTGAGCAGCCAAGCTAGCCAACAAACAGGACAGGAGGCTCCGT 13680
bmr-6 13621:CGGCCCACGAGCACTAGTGAGCAGCCAAGCTAGCCAACAAACAGGACAGGAGGCTCCGT 13680

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BTx623 13681:GCCGCTGCATTGCTTACTTGGGGCGACGACCGCGTCACAGAATTGGTCATTATGGCT 13740
Dwarf white milo 13681:GCCGCTGCATTGCTTACTTGGGGCGACGACCGCGTCACAGAATTGGTCATTATGGCT 13740
Tall white sooner milo 13681:GCCGCTGCATTGCTTACTTGGGGCGACGACCGCGTCACAGAATTGGTCATTATGGCT 13740
bmr-6 13681:GCCGCTGCATTGCTTACTTGGGGCGACGACCGCGTCACAGAATTGGTCATTATGGCT 13740

BTx623 13741:GTTTCTTGCCCGTTGGCAGTAGAGCCAGCCAGGTAAGATAAAGTAACTGGAGTCTACACCGTCA 13800
Dwarf white milo 13741:GTTTCTTGCCCGTTGGCAGTAGAGCCAGCCAGGTAAGATAAAGTAACTGGAGTCTACACCGTCA 13800
Tall white sooner milo 13741:GTTTCTTGCCCGTTGGCAGTAGAGCCAGCCAGGTAAGATAAAGTAACTGGAGTCTACACCGTCA 13800
bmr-6 13741:GTTTCTTGCCCGTTGGCAGTAGAGCCAGCCAGGTAAGATAAAGTAACTGGAGTCTACACCGTCA 13800

BTx623 13801:AAACTCTTTTGTGGCCACACATCCTGTTGCGTAGATTGGCTGCATATATTTGTTGGTAG 13860
Dwarf white milo 13801:AAACTCTTTTGTGGCCACACATCCTGTTGCGTAGATTGGCTGCATATATTTGTTGGTAG 13860
Tall white sooner milo 13801:AAACTCTTTTGTGGCCACACATCCTGTTGCGTAGATTGGCTGCATATATTTGTTGGTAG 13860
bmr-6 13801:AAACTCTTTTGTGGCCACACATCCTGTTGCGTAGATTGGCTGCATATATTTGTTGGTAG 13860

BTx623 13861:TTGGTGAGGCTTATAATATATGATCGATCATTGTCACGGTATGGATAGAAATGGAGAGGA 13920
Dwarf white milo 13861:TTGGTGAGGCTTATAATATATGATCGATCATTGTCACGGTATGGATAGAAATGGAGAGGA 13920
Tall white sooner milo 13861:TTGGTGAGGCTTATAATATATGATCGATCATTGTCACGGTATGGATAGAAATGGAGAGGA 13920
bmr-6 13861:TTGGTGAGGCTTATAATATATGATCGATCATTGTCACGGTATGGATAGAAATGGAGAGGA 13920

BTx623 13921:AGGATTCAGTGGCTTGCACTTGGCACAAGCAAAGGCGATACTGACTAAACGTGAATGT 13980
Dwarf white milo 13921:AGGATTCAGTGGCTTGCACTTGGCACAAGCAAAGGCGATACTGACTAAACGTGAATGT 13980
Tall white sooner milo 13921:AGGATTCAGTGGCTTGCACTTGGCACAAGCAAAGGCGATACTGACTAAACGTGAATGT 13980
bmr-6 13921:AGGATTCAGTGGCTTGCACTTGGCACAAGCAAAGGCGATACTGACTAAACGTGAATGT 13980

BTx623 13981:TAGATAAGTATTCAGCGATGACAGCGACAACGCGAGGCATTGACTTGGAGCAGTGCTA 14040
Dwarf white milo 13981:TAGATAAGTATTCAGCGATGACAGCGACAACGCGAGGCATTGACTTGGAGCAGTGCTA 14040
Tall white sooner milo 13981:TAGATAAGTATTCAGCGATGACAGCGACAACGCGAGGCATTGACTTGGAGCAGTGCTA 14040
bmr-6 13981:TAGATAAGTATTCAGCGATGACAGCGACAACGCGAGGCATTGACTTGGAGCAGTGCTA 14040

BTx623 14041:TCTCCACAGGCGACTGGTTCAACTTCAAGCAGGCTGATGATAGATAGTGGCCTTGTTTAC 14100
Dwarf white milo 14041:TCTCCACAGGCGACTGGTTCAACTTCAAGCAGGCTGATGATAGATAGTGGCCTTGTTTAC 14100
Tall white sooner milo 14041:TCTCCACAGGCGACTGGTTCAACTTCAAGCAGGCTGATGATAGATAGTGGCCTTGTTTAC 14100
bmr-6 14041:TCTCCACAGGCGACTGGTTCAACTTCAAGCAGGCTGATGATAGATAGTGGCCTTGTTTAC 14100

BTx623 14101:TTCCATCCAAAATCCGAAAAAAAATTCAGATTTTTTCATTATATCGAATCTTTGAATAC 14160
Dwarf white milo 14101:TTCCATCCAAAATCCGAAAAAAAATTCAGATTTTTTCATTATATCGAATCTTTGAATAC 14160
Tall white sooner milo 14101:TTCCATCCAAAATCCGAAAAAAAATTCAGATTTTTTCATTATATCGAATCTTTGAATAC 14160
bmr-6 14101:TTCCATCCAAAATCCGAAAAAAAATTCAGATTTTTTCATTATATCGAATCTTTGAATAC 14160

BTx623 14161:ATATATGGAGCATTAAATATAGACAAAATAAAAATAAATATACAGTTTATTTGTAATTC 14220
Dwarf white milo 14161:ATATATGGAGCATTAAATATAGACAAAATAAAAATAAATATACAGTTTATTTGTAATTC 14220
Tall white sooner milo 14161:ATATATGGAGCATTAAATATAGACAAAATAAAAATAAATATACAGTTTATTTGTAATTC 14220
bmr-6 14161:ATATATGGAGCATTAAATATAGACAAAATAAAAATAAATATACAGTTTATTTGTAATTC 14220

BTx623 14221:ACGGGATGAATCTTTTAAAGCCTATTTAGTCCATAAATTAGATAAATAACTTTCAAATACAAA 14280
Dwarf white milo 14221:ACGGGATGAATCTTTTAAAGCCTATTTAGTCCATAAATTAGATAAATAACTTTCAAATACAAA 14280
Tall white sooner milo 14221:ACGGGATGAATCTTTTAAAGCCTATTTAGTCCATAAATTAGATAAATAACTTTCAAATACAAA 14280
bmr-6 14221:ACGGGATGAATCTTTTAAAGCCTATTTAGTCCATAAATTAGATAAATAACTTTCAAATACAAA 14280

BTx623 14281:TGTAAGTGCTACAGTGTCTCGAAAAATTCGAGAAGAACTAAACATGGCCACACTATGGC 14340
Dwarf white milo 14281:TGTAAGTGCTACAGTGTCTCGAAAAATTCGAGAAGAACTAAACATGGCCACACTATGGC 14340
Tall white sooner milo 14281:TGTAAGTGCTACAGTGTCTCGAAAAATTCGAGAAGAACTAAACATGGCCACACTATGGC 14340
bmr-6 14281:TGTAAGTGCTACAGTGTCTCGAAAAATTCGAGAAGAACTAAACATGGCCACACTATGGC 14340

BTx623 14341:CCTGTTTGCTTCAACTATCTACCGAATCTACTAGTCATTATTAGTGTGTTTTCTCTCAT 14400
Dwarf white milo 14341:CCTGTTTGCTTCAACTATCTACCGAATCTACTAGTCATTATTAGTGTGTTTTCTCTCAT 14400
Tall white sooner milo 14341:CCTGTTTGCTTCAACTATCTACCGAATCTACTAGTCATTATTAGTGTGTTTTCTCTCAT 14400
bmr-6 14341:CCTGTTTGCTTCAACTATCTACCGAATCTACTAGTCATTATTAGTGTGTTTTCTCTCAT 14400

Figure S4 (page20)

BTx623 14401:AATAAATCAACGAATAAAAACCTTTAGCCAATTTTTCAGACATGTTGTAAGGAATCTTAA 14460
Dwarf white milo 14401:AATAAATCAACGAATAAAAACCTTTAGCCAATTTTTCAGACATGTTGTAAGGAATCTTAA 14460
Tall white sooner milo 14401:AATAAATCAACGAATAAAAACCTTTAGCCAATTTTTCAGACATGTTGTAAGGAATCTTAA 14460
bmr-6 14401:AATAAATCAACGAATAAAAACCTTTAGCCAATTTTTCAGACATGTTGTAAGGAATCTTAA 14460

BTx623 14461:TTGTTCAATTCATGTGTGCATATGGACATAGTGGTGAACCTTAGTCTCATTTTAGCCTTG 14520
Dwarf white milo 14461:TTGTTCAATTCATGTGTGCATATGGACATAGTGGTGAACCTTAGTCTCATTTTAGCCTTG 14520
Tall white sooner milo 14461:TTGTTCAATTCATGTGTGCATATGGACATAGTGGTGAACCTTAGTCTCATTTTAGCCTTG 14520
bmr-6 14461:TTGTTCAATTCATGTGTGCATATGGACATAGTGGTGAACCTTAGTCTCATTTTAGCCTTG 14520

BTx623 14521:TTTAGTTCATTATCAGATTTTTTTGGCTAATGTAGCACTTTCGTTTGATTTGACAATT 14580
Dwarf white milo 14521:TTTAGTTCATTATCAGATTTTTTTGGCTAATGTAGCACTTTCGTTTGATTTGACAATT 14580
Tall white sooner milo 14521:TTTAGTTCATTATCAGATTTTTTTGGCTAATGTAGCACTTTCGTTTGATTTGACAATT 14580
bmr-6 14521:TTTAGTTCATTATCAGATTTTTTTGGCTAATGTAGCACTTTCGTTTGATTTGACAATT 14580

BTx623 14581:ATTGTTCAATCATGAATTAAGTGGTAAAGTTTCGTCTCACAAATTCAGGTAACCT 14640
Dwarf white milo 14581:ATTGTTCAATCATGAATTAAGTGGTAAAGTTTCGTCTCACAAATTCAGGTAACCT 14640
Tall white sooner milo 14581:ATTGTTCAATCATGAATTAAGTGGTAAAGTTTCGTCTCACAAATTCAGGTAACCT 14640
bmr-6 14581:ATTGTTCAATCATGAATTAAGTGGTAAAGTTTCGTCTCACAAATTCAGGTAACCT 14640

BTx623 14641:ATGCAATTAGTTATTTTTATCTATATTTAAAGCTCTATGCATATGCAACAAGATTTGAT 14700
Dwarf white milo 14641:ATGCAATTAGTTATTTTTATCTATATTTAAAGCTCTATGCATATGCAACAAGATTTGAT 14700
Tall white sooner milo 14641:ATGCAATTAGTTATTTTTATCTATATTTAAAGCTCTATGCATATGCAACAAGATTTGAT 14700
bmr-6 14641:ATGCAATTAGTTATTTTTATCTATATTTAAAGCTCTATGCATATGCAACAAGATTTGAT 14700

BTx623 14701:GTGATGAATTTTTTTAAAAAATATTAGATTTTAGGTGAAACTAAACAAGTCTTAGTA 14760
Dwarf white milo 14701:GTGATGAATTTTTTTAAAAAATATTAGATTTTAGGTGAAACTAAACAAGTCTTAGTA 14760
Tall white sooner milo 14701:GTGATGAATTTTTTTAAAAAATATTAGATTTTAGGTGAAACTAAACAAGTCTTAGTA 14760
bmr-6 14701:GTGATGAATTTTTTTAAAAAATATTAGATTTTAGGTGAAACTAAACAAGTCTTAGTA 14760

BTx623 14761:GTTGAAGTGGATGATGTCATTTTTAGATATGAAAGCCCTTTCCTCCGCTTCACTATAT 14820
Dwarf white milo 14761:GTTGAAGTGGATGATGTCATTTTTAGATATGAAAGCCCTTTCCTCCGCTTCACTATAT 14820
Tall white sooner milo 14761:GTTGAAGTGGATGATGTCATTTTTAGATATGAAAGCCCTTTCCTCCGCTTCACTATAT 14820
bmr-6 14761:GTTGAAGTGGATGATGTCATTTTTAGATATGAAAGCCCTTTCCTCCGCTTCACTATAT 14820

BTx623 14821:CTAATGTGAGAAGAGAGAAAGAACTCCATGCGTGTGTGCTCGCGATGACAGCCGTGTGG 14880
Dwarf white milo 14821:CTAATGTGAGAAGAGAGAAAGAACTCCATGCGTGTGTGCTCGCGATGACAGCCGTGTGG 14880
Tall white sooner milo 14821:CTAATGTGAGAAGAGAGAAAGAACTCCATGCGTGTGTGCTCGCGATGACAGCCGTGTGG 14880
bmr-6 14821:CTAATGTGAGAAGAGAGAAAGAACTCCATGCGTGTGTGCTCGCGATGACAGCCGTGTGG 14880

BTx623 14881:CAGGTCAGAGCGTGAAGAGAGAGGAGCCTGACAAAGCCCTTTTATATAAGTTAATTA 14940
Dwarf white milo 14881:CAGGTCAGAGCGTGAAGAGAGAGGAGCCTGACAAAGCCCTTTTATATAAGTTAATTA 14940
Tall white sooner milo 14881:CAGGTCAGAGCGTGAAGAGAGAGGAGCCTGACAAAGCCCTTTTATATAAGTTAATTA 14940
bmr-6 14881:CAGGTCAGAGCGTGAAGAGAGAGGAGCCTGACAAAGCCCTTTTATATAAGTTAATTA 14940

BTx623 14941:CGAGAAATTATTCAAGACATACGTTTTCTCTTCTACTTTTTTTAGTCGTTTCAATA 15000
Dwarf white milo 14941:CGAGAAATTATTCAAGACATACGTTTTCTCTTCTACTTTTTTTAGTCGTTTCAATA 15000
Tall white sooner milo 14941:CGAGAAATTATTCAAGACATACGTTTTCTCTTCTACTTTTTTTAGTCGTTTCAATA 15000
bmr-6 14941:CGAGAAATTATTCAAGACATACGTTTTCTCTTCTACTTTTTTTAGTCGTTTCAATA 15000

BTx623 15001:CTTACTGATTTATCAAGTGTACGCCAGAGTGTGAAAGAAGAGGAAGCCTGACAAAGCCC 15060
Dwarf white milo 15001:CTTACTGATTTATCAAGTGTACGCCAGAGTGTGAAAGAAGAGGAAGCCTGACAAAGCCC 15060
Tall white sooner milo 15001:CTTACTGATTTATCAAGTGTACGCCAGAGTGTGAAAGAAGAGGAAGCCTGACAAAGCCC 15060
bmr-6 15001:CTTACTGATTTATCAAGTGTACGCCAGAGTGTGAAAGAAGAGGAAGCCTGACAAAGCCC 15060

BTx623 15061:TTTTTTATATCTAAGTTAATTACGAGAAATCACTCGAGACACACGTTTTCTCTTTCTTTA 15120
Dwarf white milo 15061:TTTTTTATATCTAAGTTAATTACGAGAAATCACTCGAGACACACGTTTTCTCTTTCTTTA 15120
Tall white sooner milo 15061:TTTTTTATATCTAAGTTAATTACGAGAAATCACTCGAGACACACGTTTTCTCTTTCTTTA 15120
bmr-6 15061:TTTTTTATATCTAAGTTAATTACGAGAAATCACTCGAGACACACGTTTTCTCTTTCTTTA 15120

BTx623 15121:ATTTTTTAGCTGTTTCAAATACTTGATTTATCAAGTGTGTTTTAGAGAGGTGCTTCAA 15180
Dwarf white milo 15121:ATTTTTTAGCTGTTTCAAATACTTGATTTATCAAGTGTGTTTTAGAGAGGTGCTTCAA 15180
Tall white sooner milo 15121:ATTTTTTAGCTGTTTCAAATACTTGATTTATCAAGTGTGTTTTAGAGAGGTGCTTCAA 15180
bmr-6 15121:ATTTTTTAGCTGTTTCAAATACTTGATTTATCAAGTGTGTTTTAGAGAGGTGCTTCAA 15180

BTx623 15181:TGAAAGTGTGAAAGCACCCGCTGCGCCCTTGTTTAGGGTAGGTTGCTTATTCTTATTG 15240
Dwarf white milo 15181:TGAAAGTGTGAAAGCACCCGCTGCGCCCTTGTTTAGGGTAGGTTGCTTATTCTTATTG 15240
Tall white sooner milo 15181:TGAAAGTGTGAAAGCACCCGCTGCGCCCTTGTTTAGGGTAGGTTGCTTATTCTTATTG 15240
bmr-6 15181:TGAAAGTGTGAAAGCACCCGCTGCGCCCTTGTTTAGGGTAGGTTGCTTATTCTTATTG 15240

BTx623 15241:TGTAATTCGTCACCTTTAAATTATAAATTCCTTGGTTTTGTTAGATAGATAGATTTTAC 15300
Dwarf white milo 15241:TGTAATTCGTCACCTTTAAATTATAAATTCCTTGGTTTTGTTAGATAGATAGATTTTAC 15300
Tall white sooner milo 15241:TGTAATTCGTCACCTTTAAATTATAAATTCCTTGGTTTTGTTAGATAGATAGATTTTAC 15300
bmr-6 15241:TGTAATTCGTCACCTTTAAATTATAAATTCCTTGGTTTTGTTAGATAGATAGATTTTAC 15300

BTx623 15301:TATATATTTAGATATAGATTTTTTAAAGAGCAACAAGAGGTTTGCATGGTTTTATTGA 15360
Dwarf white milo 15301:TATATATTTAGATATAGATTTTTTAAAGAGCAACAAGAGGTTTGCATGGTTTTATTGA 15360
Tall white sooner milo 15301:TATATATTTAGATATAGATTTTTTAAAGAGCAACAAGAGGTTTGCATGGTTTTATTGA 15360
bmr-6 15301:TATATATTTAGATATAGATTTTTTAAAGAGCAACAAGAGGTTTGCATGGTTTTATTGA 15360

BTx623 15361:CGATAAAAAGAGCAAAAACATGATTACAAATGCATGACTAGAGTAACACCGGTGGTCCAC 15420
Dwarf white milo 15361:CGATAAAAAGAGCAAAAACATGATTACAAATGCATGACTAGAGTAACACCGGTGGTCCAC 15420
Tall white sooner milo 15361:CGATAAAAAGAGCAAAAACATGATTACAAATGCATGACTAGAGTAACACCGGTGGTCCAC 15420
bmr-6 15361:CGATAAAAAGAGCAAAAACATGATTACAAATGCATGACTAGAGTAACACCGGTGGTCCAC 15420

BTx623 15421:AACTACCAATCCTGATGTGACAAAAAGAAAAAGAGAGAGAGAAAAAAGACACAACA 15480
Dwarf white milo 15421:AACTACCAATCCTGATGTGACAAAAAGAAAAAGAGAGAGAGAAAAAAGACACAACA 15480
Tall white sooner milo 15421:AACTACCAATCCTGATGTGACAAAAAGAAAAAGAGAGAGAGAAAAAAGACACAACA 15480
bmr-6 15421:AACTACCAATCCTGATGTGACAAAAAGAAAAAGAGAGAGAGAAAAAAGACACAACA 15480

BTx623 15481:GGTCAGAAAAAAGGTCATAAAAAGTACCTCCAAAAAATCCAAGAGGAATGGCACAACAC 15540
Dwarf white milo 15481:GGTCAGAAAAAAGGTCATAAAAAGTACCTCCAAAAAATCCAAGAGGAATGGCACAACAC 15540
Tall white sooner milo 15481:GGTCAGAAAAAAGGTCATAAAAAGTACCTCCAAAAAATCCAAGAGGAATGGCACAACAC 15540
bmr-6 15481:GGTCAGAAAAAAGGTCATAAAAAGTACCTCCAAAAAATCCAAGAGGAATGGCACAACAC 15540

BTx623 15541:AATGACTAAACGCAACTAAAAAAGTAAAGACAACCTTTAAAAGAATCTGTGGTAGTATT 15600
Dwarf white milo 15541:AATGACTAAACGCAACTAAAAAAGTAAAGACAACCTTTAAAAGAATCTGTGGTAGTATT 15600
Tall white sooner milo 15541:AATGACTAAACGCAACTAAAAAAGTAAAGACAACCTTTAAAAGAATCTGTGGTAGTATT 15600
bmr-6 15541:AATGACTAAACGCAACTAAAAAAGTAAAGACAACCTTTAAAAGAATCTGTGGTAGTATT 15600

BTx623 15601:TGTTATAGTGCCAAGTTAAACTGTTGATATCATGCTTGCACAAGAGAGTAGCTAGTTA 15660
Dwarf white milo 15601:TGTTATAGTGCCAAGTTAAACTGTTGATATCATGCTTGCACAAGAGAGTAGCTAGTTA 15660
Tall white sooner milo 15601:TGTTATAGTGCCAAGTTAAACTGTTGATATCATGCTTGCACAAGAGAGTAGCTAGTTA 15660
bmr-6 15601:TGTTATAGTGCCAAGTTAAACTGTTGATATCATGCTTGCACAAGAGAGTAGCTAGTTA 15660

BTx623 15661:GATTCGATGTCACGAAAGAATTTAAAATTTTTTGAATTGGTGCAACTAAAAGGCCTT 15720
Dwarf white milo 15661:GATTCGATGTCACGAAAGAATTTAAAATTTTTTGAATTGGTGCAACTAAAAGGCCTT 15720
Tall white sooner milo 15661:GATTCGATGTCACGAAAGAATTTAAAATTTTTTGAATTGGTGCAACTAAAAGGCCTT 15720
bmr-6 15661:GATTCGATGTCACGAAAGAATTTAAAATTTTTTGAATTGGTGCAACTAAAAGGCCTT 15720

BTx623 15721:ATTTCTGTTTCAATCATCGGCCAGCTTTACTGAGATGCCAATCTCGGGCATCCTCCATT 15780
Dwarf white milo 15721:ATTTCTGTTTCAATCATCGGCCAGCTTTACTGAGATGCCAATCTCGGGCATCCTCCATT 15780
Tall white sooner milo 15721:ATTTCTGTTTCAATCATCGGCCAGCTTTACTGAGATGCCAATCTCGGGCATCCTCCATT 15780
bmr-6 15721:ATTTCTGTTTCAATCATCGGCCAGCTTTACTGAGATGCCAATCTCGGGCATCCTCCATT 15780

BTx623 15781:TTACATGGGTTGGACCACTTGGACGGAGTAACGACCACGTGGTTCTCGCTATATTTGAAC 15840
Dwarf white milo 15781:TTACATGGGTTGGACCACTTGGACGGAGTAACGACCACGTGGTTCTCGCTATATTTGAAC 15840
Tall white sooner milo 15781:TTACATGGGTTGGACCACTTGGACGGAGTAACGACCACGTGGTTCTCGCTATATTTGAAC 15840
bmr-6 15781:TTACATGGGTTGGACCACTTGGACGGAGTAACGACCACGTGGTTCTCGCTATATTTGAAC 15840

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BTx623 15841:GCATGCCTTCCC GCGGAATCGCGCACCGG CAGCGCGAAGGCCAGCTATGCACAGCGA 15900
Dwarf white milo 15841:GCATGCCTTCCC GCGGAATCGCGCACCGG CAGCGCGAAGGCCAGCTATGCACAGCGA 15900
Tall white sooner milo 15841:GCATGCCTTCCC GCGGAATCGCGCACCGG CAGCGCGAAGGCCAGCTATGCACAGCGA 15900
bmr-6 15841:GCATGCCTTCCC GCGGAATCGCGCACCGG CAGCGCGAAGGCCAGCTATGCACAGCGA 15900

BTx623 15901:ATGGAGCTAGAAACCGCGCGGCGAGCGCGCGCAGCAAGACGATCAAATTTAGGCGC 15960
Dwarf white milo 15901:ATGGAGCTAGAAACCGCGCGGCGAGCGCGCGCAGCAAGACGATCAAATTTAGGCGC 15960
Tall white sooner milo 15901:ATGGAGCTAGAAACCGCGCGGCGAGCGCGCGCAGCAAGACGATCAAATTTAGGCGC 15960
bmr-6 15901:ATGGAGCTAGAAACCGCGCGGCGAGCGCGCGCAGCAAGACGATCAAATTTAGGCGC 15960

BTx623 15961:CAGAATGACTAGAGGAGCGGTACCGCAGGAGGAGGCCGAGGGAAGGGGAGACCGGCTC 16020
Dwarf white milo 15961:CAGAATGACTAGAGGAGCGGTACCGCAGGAGGAGGCCGAGGGAAGGGGAGACCGGCTC 16020
Tall white sooner milo 15961:CAGAATGACTAGAGGAGCGGTACCGCAGGAGGAGGCCGAGGGAAGGGGAGACCGGCTC 16020
bmr-6 15961:CAGAATGACTAGAGGAGCGGTACCGCAGGAGGAGGCCGAGGGAAGGGGAGACCGGCTC 16020

BTx623 16021:CTCGACCTCTCCGCCCGCGCCGCGCAATGGGTCCCCACCCGCTCTGCGGTATC 16080
Dwarf white milo 16021:CTCGACCTCTCCGCCCGCGCCGCGCAATGGGTCCCCACCCGCTCTGCGGTATC 16080
Tall white sooner milo 16021:CTCGACCTCTCCGCCCGCGCCGCGCAATGGGTCCCCACCCGCTCTGCGGTATC 16080
bmr-6 16021:CTCGACCTCTCCGCCCGCGCCGCGCAATGGGTCCCCACCCGCTCTGCGGTATC 16080

BTx623 16081:GCCGTGGCCTTCTCTCTCTCGCTCTCCGGTGAGGCGTTCTTCGACATCTTCACTTC 16140
Dwarf white milo 16081:GCCGTGGCCTTCTCTCTCTCGCTCTCCGGTGAGGCGTTCTTCGACATCTTCACTTC 16140
Tall white sooner milo 16081:GCCGTGGCCTTCTCTCTCTCGCTCTCCGGTGAGGCGTTCTTCGACATCTTCACTTC 16140
bmr-6 16081:GCCGTGGCCTTCTCTCTCTCGCTCTCCGGTGAGGCGTTCTTCGACATCTTCACTTC 16140

BTx623 16141:TTCACCCGCACTCGGAGACCGACTACTTCCAGAACGCCTTCGAGGGCACGCCGGAGCAG 16200
Dwarf white milo 16141:TTCACCCGCACTCGGAGACCGACTACTTCCAGAACGCCTTCGAGGGCACGCCGGAGCAG 16200
Tall white sooner milo 16141:TTCACCCGCACTCGGAGACCGACTACTTCCAGAACGCCTTCGAGGGCACGCCGGAGCAG 16200
bmr-6 16141:TTCACCCGCACTCGGAGACCGACTACTTCCAGAACGCCTTCGAGGGCACGCCGGAGCAG 16200

BTx623 16201:ACGGTGCCACGACGAGCAGGAGGAGGAGCGGGCGCGCCGCGCCCTCGCCACGGGC 16260
Dwarf white milo 16201:ACGGTGCCACGACGAGCAGGAGGAGGAGCGGGCGCGCCGCGCCCTCGCCACGGGC 16260
Tall white sooner milo 16201:ACGGTGCCACGACGAGCAGGAGGAGGAGCGGGCGCGCCGCGCCCTCGCCACGGGC 16260
bmr-6 16201:ACGGTGCCACGACGAGCAGGAGGAGGAGCGGGCGCGCCGCGCCCTCGCCACGGGC 16260

BTx623 16261:CTCACCAGGTGCGCGCGGGGACCGCCAGCAAGGCTGCGCAGGACACGGTCGCGCTC 16320
Dwarf white milo 16261:CTCACCAGGTGCGCGCGGGGACCGCCAGCAAGGCTGCGCAGGACACGGTCGCGCTC 16320
Tall white sooner milo 16261:CTCACCAGGTGCGCGCGGGGACCGCCAGCAAGGCTGCGCAGGACACGGTCGCGCTC 16320
bmr-6 16261:CTCACCAGGTGCGCGCGGGGACCGCCAGCAAGGCTGCGCAGGACACGGTCGCGCTC 16320

BTx623 16321:CCCGCCGACAAAGCGCGGGGAGTCGGCTCGTGACCATCGTCAGCGAAAACCTCCGGC 16380
Dwarf white milo 16321:CCCGCCGACAAAGCGCGGGGAGTCGGCTCGTGACCATCGTCAGCGAAAACCTCCGGC 16380
Tall white sooner milo 16321:CCCGCCGACAAAGCGCGGGGAGTCGGCTCGTGACCATCGTCAGCGAAAACCTCCGGC 16380
bmr-6 16321:CCCGCCGACAAAGCGCGGGGAGTCGGCTCGTGACCATCGTCAGCGAAAACCTCCGGC 16380

BTx623 16381:GTGTCGGCCATGCACATGGTCTGTTATGCGCCATGGCAAGGCCGTCATGTTTCGATACCAGC 16440
Dwarf white milo 16381:GTGTCGGCCATGCACATGGTCTGTTATGCGCCATGGCAAGGCCGTCATGTTTCGATACCAGC 16440
Tall white sooner milo 16381:GTGTCGGCCATGCACATGGTCTGTTATGCGCCATGGCAAGGCCGTCATGTTTCGATACCAGC 16440
bmr-6 16381:GTGTCGGCCATGCACATGGTCTGTTATGCGCCATGGCAAGGCCGTCATGTTTCGATACCAGC 16440

BTx623 16441:ACCACCGGGCGGTACTCATGCGGTTGCCCCAGGACAACGCGCATCGACCCGCGCGCC 16500
Dwarf white milo 16441:ACCACCGGGCGGTACTCATGCGGTTGCCCCAGGACAACGCGCATCGACCCGCGCGCC 16500
Tall white sooner milo 16441:ACCACCGGGCGGTACTCATGCGGTTGCCCCAGGACAACGCGCATCGACCCGCGCGCC 16500
bmr-6 16441:ACCACCGGGCGGTACTCATGCGGTTGCCCCAGGACAACGCGCATCGACCCGCGCGCC 16500

BTx623 16501:AAGGAGGAGGGCACCATGGACTGCTGGGCGCACTCCGTCGAGTTCGACTACAACACCGGC 16560
Dwarf white milo 16501:AAGGAGGAGGGCACCATGGACTGCTGGGCGCACTCCGTCGAGTTCGACTACAACACCGGC 16560
Tall white sooner milo 16501:AAGGAGGAGGGCACCATGGACTGCTGGGCGCACTCCGTCGAGTTCGACTACAACACCGGC 16560
bmr-6 16501:AAGGAGGAGGGCACCATGGACTGCTGGGCGCACTCCGTCGAGTTCGACTACAACACCGGC 16560

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BTx623 16561:GGCTCCGCCCTCTCAAGGTTATTGGCTGCCTAACGTTCTTGCATGCATGTGCAATGGC 16620
Dwarf white milo 16561:GGCTCCGCCCTCTCAAGGTTATTGGCTGCCTAACGTTCTTGCATGCATGTGCAATGGC 16620
Tall white sooner milo 16561:GGCTCCGCCCTCTCAAGGTTATTGGCTGCCTAACGTTCTTGCATGCATGTGCAATGGC 16620
bmr-6 16561:GGCTCCGCCCTCTCAAGGTTATTGGCTGCCTAACGTTCTTGCATGCATGTGCAATGGC 16620

BTx623 16621:TCCGGTCCCAGTCTCAGGCCGTTTTGATGGCATGCAATGCAATGCAATGCGCAGATCTT 16680
Dwarf white milo 16621:TCCGGTCCCAGTCTCAGGCCGTTTTGATGGCATGCAATGCAATGCAATGCGCAGATCTT 16680
Tall white sooner milo 16621:TCCGGTCCCAGTCTCAGGCCGTTTTGATGGCATGCAATGCAATGCAATGCGCAGATCTT 16680
bmr-6 16621:TCCGGTCCCAGTCTCAGGCCGTTTTGATGGCATGCAATGCAATGCAATGCGCAGATCTT 16680

BTx623 16681:AACAGACACATGGTGTCTGTCGGGCGCTTGGACCCGGACGGCAACCTGGTGCAGACCGG 16740
Dwarf white milo 16681:AACAGACACATGGTGTCTGTCGGGCGCTTGGACCCGGACGGCAACCTGGTGCAGACCGG 16740
Tall white sooner milo 16681:AACAGACACATGGTGTCTGTCGGGCGCTTGGACCCGGACGGCAACCTGGTGCAGACCGG 16740
bmr-6 16681:AACAGACACATGGTGTCTGTCGGGCGCTTGGACCCGGACGGCAACCTGGTGCAGACCGG 16740

BTx623 16741:CGGCTACTTCGAGGGCGAGAAGGTTGTGAGGACCCTGAGCCCGTGCACACCTGCGACTG 16800
Dwarf white milo 16741:CGGCTACTTCGAGGGCGAGAAGGTTGTGAGGACCCTGAGCCCGTGCACACCTGCGACTG 16800
Tall white sooner milo 16741:CGGCTACTTCGAGGGCGAGAAGGTTGTGAGGACCCTGAGCCCGTGCACACCTGCGACTG 16800
bmr-6 16741:CGGCTACTTCGAGGGCGAGAAGGTTGTGAGGACCCTGAGCCCGTGCACACCTGCGACTG 16800

BTx623 16801:GCTGGAGCAACCAACAGCTTCGCCGAGGGGAGATGGTACGCGACGAGGTAGCGCTCCC 16860
Dwarf white milo 16801:GCTGGAGCAACCAACAGCTTCGCCGAGGGGAGATGGTACGCGACGAGGTAGCGCTCCC 16860
Tall white sooner milo 16801:GCTGGAGCAACCAACAGCTTCGCCGAGGGGAGATGGTACGCGACGAGGTAGCGCTCCC 16860
bmr-6 16801:GCTGGAGCAACCAACAGCTTCGCCGAGGGGAGATGGTACGCGACGAGGTAGCGCTCCC 16860

BTx623 16861:GGACGGCCGGTTCATCATGTTCCGGCGTCCGCCGCTTCAGCTACGAGTACGTCCCGTG 16920
Dwarf white milo 16861:GGACGGCCGGTTCATCATGTTCCGGCGTCCGCCGCTTCAGCTACGAGTACGTCCCGTG 16920
Tall white sooner milo 16861:GGACGGCCGGTTCATCATGTTCCGGCGTCCGCCGCTTCAGCTACGAGTACGTCCCGTG 16920
bmr-6 16861:GGACGGCCGGTTCATCATGTTCCGGCGTCCGCCGCTTCAGCTACGAGTACGTCCCGTG 16920

BTx623 16921:GCCCAGGAGTCCAACGACAAGGCCGTCGGTTGCCCTTCTCCGCGAGACCACCGACGA 16980
Dwarf white milo 16921:GCCCAGGAGTCCAACGACAAGGCCGTCGGTTGCCCTTCTCCGCGAGACCACCGACGA 16980
Tall white sooner milo 16921:GCCCAGGAGTCCAACGACAAGGCCGTCGGTTGCCCTTCTCCGCGAGACCACCGACGA 16980
bmr-6 16921:GCCCAGGAGTCCAACGACAAGGCCGTCGGTTGCCCTTCTCCGCGAGACCACCGACGA 16980

BTx623 16981:CGTGGAGAACAACCTGTACCCGTTCTGTAACCTCCTCCCAGCGGCAACCTGTTCTCTT 17040
Dwarf white milo 16981:CGTGGAGAACAACCTGTACCCGTTCTGTAACCTCCTCCCAGCGGCAACCTGTTCTCTT 17040
Tall white sooner milo 16981:CGTGGAGAACAACCTGTACCCGTTCTGTAACCTCCTCCCAGCGGCAACCTGTTCTCTT 17040
bmr-6 16981:CGTGGAGAACAACCTGTACCCGTTCTGTAACCTCCTCCCAGCGGCAACCTGTTCTCTT 17040

BTx623 17041:CGCCAACGACCGCTCCGTATCTTCGACGCCAAGTCGAGCAAGATCGTGCAGGAGTCCC 17100
Dwarf white milo 17041:CGCCAACGACCGCTCCGTATCTTCGACGCCAAGTCGAGCAAGATCGTGCAGGAGTCCC 17100
Tall white sooner milo 17041:CGCCAACGACCGCTCCGTATCTTCGACGCCAAGTCGAGCAAGATCGTGCAGGAGTCCC 17100
bmr-6 17041:CGCCAACGACCGCTCCGTATCTTCGACGCCAAGTCGAGCAAGATCGTGCAGGAGTCCC 17100

BTx623 17101:CAAGCTCGACGGCGGGAGCCGCAACTACCCCGGTCGCCATGTCGACGCTGTCCCGCT 17160
Dwarf white milo 17101:CAAGCTCGACGGCGGGAGCCGCAACTACCCCGGTCGCCATGTCGACGCTGTCCCGCT 17160
Tall white sooner milo 17101:CAAGCTCGACGGCGGGAGCCGCAACTACCCCGGTCGCCATGTCGACGCTGTCCCGCT 17160
bmr-6 17101:CAAGCTCGACGGCGGGAGCCGCAACTACCCCGGTCGCCATGTCGACGCTGTCCCGCT 17160

BTx623 17161:CGACCTCCGCAACGTACCCGGGACCCGGAGCCGGTGGTGGTATCTGCGGCGGGCGCC 17220
Dwarf white milo 17161:CGACCTCCGCAACGTACCCGGGACCCGGAGCCGGTGGTGGTATCTGCGGCGGGCGCC 17220
Tall white sooner milo 17161:CGACCTCCGCAACGTACCCGGGACCCGGAGCCGGTGGTGGTATCTGCGGCGGGCGCC 17220
bmr-6 17161:CGACCTCCGCAACGTACCCGGGACCCGGAGCCGGTGGTGGTATCTGCGGCGGGCGCC 17220

BTx623 17221:CAAGAAGGCCTTCAGGAAAGGCGAGAACAACACGTTCTGCCGGCGCTCCGCGACTGCGC 17280
Dwarf white milo 17221:CAAGAAGGCCTTCAGGAAAGGCGAGAACAACACGTTCTGCCGGCGCTCCGCGACTGCGC 17280
Tall white sooner milo 17221:CAAGAAGGCCTTCAGGAAAGGCGAGAACAACACGTTCTGCCGGCGCTCCGCGACTGCGC 17280
bmr-6 17221:CAAGAAGGCCTTCAGGAAAGGCGAGAACAACACGTTCTGCCGGCGCTCCGCGACTGCGC 17280

BTx623 17281:CCGCATCAACCTGGCAAGGCCGACGCGCAGTGGGAGAGCGAGGACATGCCCGTGGGCCG 17340
Dwarf white milo 17281:CCGCATCAACCTGGCAAGGCCGACGCGCAGTGGGAGAGCGAGGACATGCCCGTGGGCCG 17340
Tall white sooner milo 17281:CCGCATCAACCTGGCAAGGCCGACGCGCAGTGGGAGAGCGAGGACATGCCCGTGGGCCG 17340
bmr-6 17281:CCGCATCAACCTGGCAAGGCCGACGCGCAGTGGGAGAGCGAGGACATGCCCGTGGGCCG 17340

BTx623 17341:CGTCATGGGCGACATGCTGATCCTCCCCACCGCGACCTGCTGCTGCTCAGCGGCGCCG 17400
Dwarf white milo 17341:CGTCATGGGCGACATGCTGATCCTCCCCACCGCGACCTGCTGCTGCTCAGCGGCGCCG 17400
Tall white sooner milo 17341:CGTCATGGGCGACATGCTGATCCTCCCCACCGCGACCTGCTGCTGCTCAGCGGCGCCG 17400
bmr-6 17341:CGTCATGGGCGACATGCTGATCCTCCCCACCGCGACCTGCTGCTGCTCAGCGGCGCCG 17400

BTx623 17401:CAAGGGCTGCGCCGGTGGGGCTTCGGCAGGCAGCCGGTCTGACCCGATCCTGTACT 17460
Dwarf white milo 17401:CAAGGGCTGCGCCGGTGGGGCTTCGGCAGGCAGCCGGTCTGACCCGATCCTGTACT 17460
Tall white sooner milo 17401:CAAGGGCTGCGCCGGTGGGGCTTCGGCAGGCAGCCGGTCTGACCCGATCCTGTACT 17460
bmr-6 17401:CAAGGGCTGCGCCGGTGGGGCTTCGGCAGGCAGCCGGTCTGACCCGATCCTGTACT 17460

BTx623 17461:GCCGCGCAAGGCGGAGGGCCCGCGTTCCGGGCGCTGGCGTCCACCATCGCGCGAT 17520
Dwarf white milo 17461:GCCGCGCAAGGCGGAGGGCCCGCGTTCCGGGCGCTGGCGTCCACCATCGCGCGAT 17520
Tall white sooner milo 17461:GCCGCGCAAGGCGGAGGGCCCGCGTTCCGGGCGCTGGCGTCCACCATCGCGCGAT 17520
bmr-6 17461:GCCGCGCAAGGCGGAGGGCCCGCGTTCCGGGCGCTGGCGTCCACCATCGCGCGAT 17520

BTx623 17521:GTACCACTCCAGCAGCGCCGTGCTGCCGACGCCACCGTCTGGTGGCCGGCGGCAACGC 17580
Dwarf white milo 17521:GTACCACTCCAGCAGCGCCGTGCTGCCGACGCCACCGTCTGGTGGCCGGCGGCAACGC 17580
Tall white sooner milo 17521:GTACCACTCCAGCAGCGCCGTGCTGCCGACGCCACCGTCTGGTGGCCGGCGGCAACGC 17580
bmr-6 17521:GTACCACTCCAGCAGCGCCGTGCTGCCGACGCCACCGTCTGGTGGCCGGCGGCAACGC 17580

BTx623 17581:CAACGCGGCCTACAACCTCAGCAGCTGGACTTCCCCACCGAGGTGCGCGTGGAGCGGT 17640
Dwarf white milo 17581:CAACGCGGCCTACAACCTCAGCAGCTGGACTTCCCCACCGAGGTGCGCGTGGAGCGGT 17640
Tall white sooner milo 17581:CAACGCGGCCTACAACCTCAGCAGCTGGACTTCCCCACCGAGGTGCGCGTGGAGCGGT 17640
bmr-6 17581:CAACGCGGCCTACAACCTCAGCAGCTGGACTTCCCCACCGAGGTGCGCGTGGAGCGGT 17640

BTx623 17641:CACCCCGCGTACTCAGCGATGATGGGGCCGCGACAACCGCGCGGTGATCGACTTGGC 17700
Dwarf white milo 17641:CACCCCGCGTACTCAGCGATGATGGGGCCGCGACAACCGCGCGGTGATCGACTTGGC 17700
Tall white sooner milo 17641:CACCCCGCGTACTCAGCGATGATGGGGCCGCGACAACCGCGCGGTGATCGACTTGGC 17700
bmr-6 17641:CACCCCGCGTACTCAGCGATGATGGGGCCGCGACAACCGCGCGGTGATCGACTTGGC 17700

BTx623 17701:GTCGTTGCCGTGGACGGGATGCGGTACGGCGCCCGTTCCGTTCCGGTCTCCGTGAC 17760
Dwarf white milo 17701:GTCGTTGCCGTGGACGGGATGCGGTACGGCGCCCGTTCCGTTCCGGTCTCCGTGAC 17760
Tall white sooner milo 17701:GTCGTTGCCGTGGACGGGATGCGGTACGGCGCCCGTTCCGTTCCGGTCTCCGTGAC 17760
bmr-6 17701:GTCGTTGCCGTGGACGGGATGCGGTACGGCGCCCGTTCCGTTCCGGTCTCCGTGAC 17760

BTx623 17761:CTCCGAGCCGGCGGTGGAGGCCGACGTGAAGGTCACCTTTACGCGCCGCGTTTAC 17820
Dwarf white milo 17761:CTCCGAGCCGGCGGTGGAGGCCGACGTGAAGGTCACCTTTACGCGCCGCGTTTAC 17820
Tall white sooner milo 17761:CTCCGAGCCGGCGGTGGAGGCCGACGTGAAGGTCACCTTTACGCGCCGCGTTTAC 17820
bmr-6 17761:CTCCGAGCCGGCGGTGGAGGCCGACGTGAAGGTCACCTTTACGCGCCGCGTTTAC 17820

BTx623 17821:CACGCACGGTGTCTTCCATGAACAGCGGCTGCTGATCCTGCACCTTACCTCGTACGTCCA 17880
Dwarf white milo 17821:CACGCACGGTGTCTTCCATGAACAGCGGCTGCTGATCCTGCACCTTACCTCGTACGTCCA 17880
Tall white sooner milo 17821:CACGCACGGTGTCTTCCATGAACAGCGGCTGCTGATCCTGCACCTTACCTCGTACGTCCA 17880
bmr-6 17821:CACGCACGGTGTCTTCCATGAACAGCGGCTGCTGATCCTGCACCTTACCTCGTACGTCCA 17880

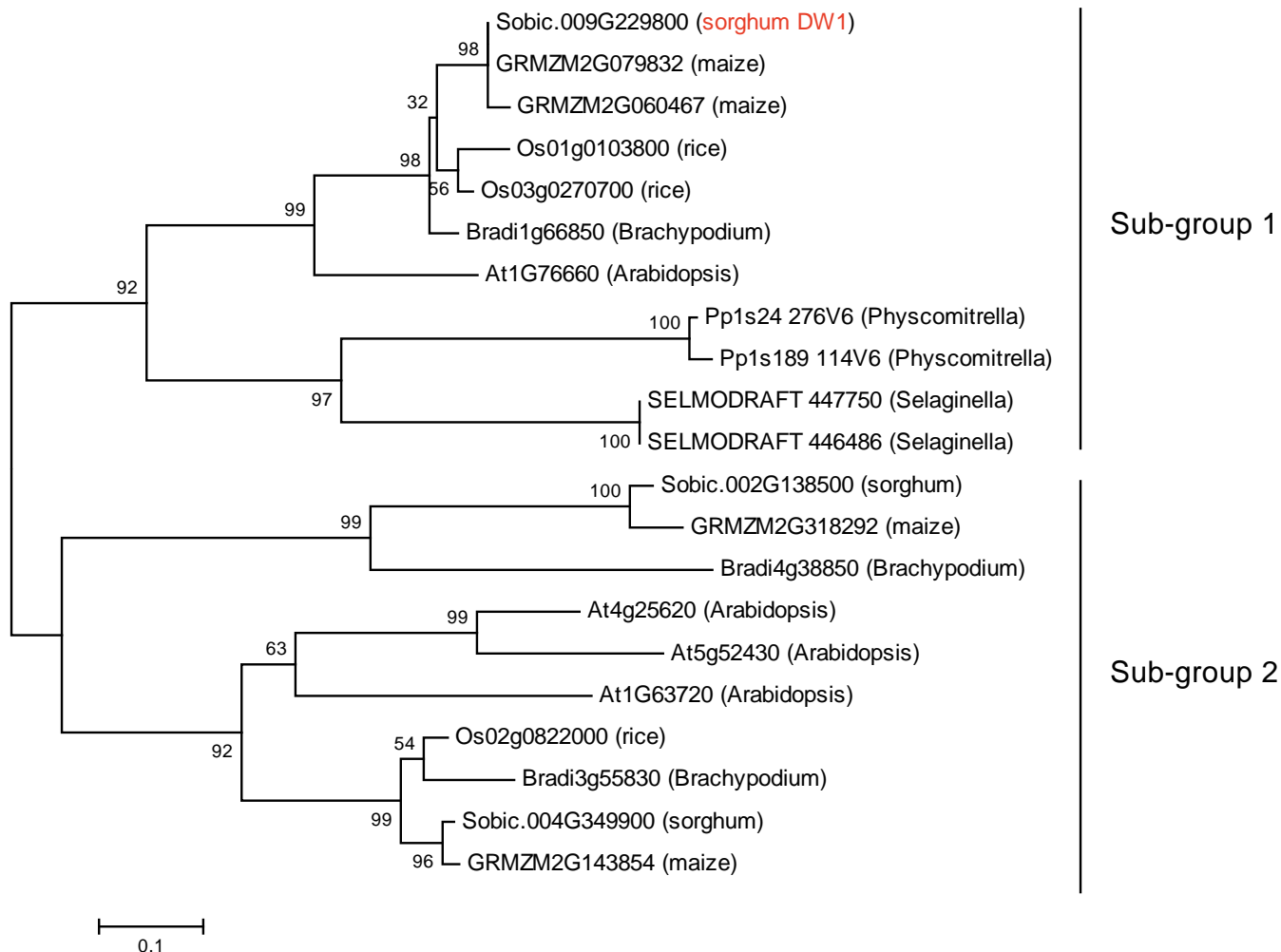
BTx623 17881:GGAGGGACGGAGCTACAGGGTGTGCTGGACGGGCCGGCAAGCCGGAGCTAGCGCCGCG 17940
Dwarf white milo 17881:GGAGGGACGGAGCTACAGGGTGTGCTGGACGGGCCGGCAAGCCGGAGCTAGCGCCGCG 17940
Tall white sooner milo 17881:GGAGGGACGGAGCTACAGGGTGTGCTGGACGGGCCGGCAAGCCGGAGCTAGCGCCGCG 17940
bmr-6 17881:GGAGGGACGGAGCTACAGGGTGTGCTGGACGGGCCGGCAAGCCGGAGCTAGCGCCGCG 17940

BTx623 17941:GGGGTACTACTGCTGTTCTGCTGCGCAAGGGCGTCCGAGCGTCCGGTGTGGGTGAA 18000
Dwarf white milo 17941:GGGGTACTACTGCTGTTCTGCTGCGCAAGGGCGTCCGAGCGTCCGGTGTGGGTGAA 18000
Tall white sooner milo 17941:GGGGTACTACTGCTGTTCTGCTGCGCAAGGGCGTCCGAGCGTCCGGTGTGGGTGAA 18000
bmr-6 17941:GGGGTACTACTGCTGTTCTGCTGCGCAAGGGCGTCCGAGCGTCCGGTGTGGGTGAA 18000

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BTx623	18001:GGTTTGGTGAGATCGATCGGCCGATCGTTGG	18031
Dwarf white milo	18001:GGTTTGGTGAGATCGATCGGCCGATCGTTGG	18031
Tall white sooner milo	18001:GGTTTGGTGAGATCGATCGGCCGATCGTTGG	18031
bmr-6	18001:GGTTTGGTGAGATCGATCGGCCGATCGTTGG	18031

Supplementary Figure S4 | Sequence comparison of the candidate region among cultivars. Sequences of the candidate region (~18kb) of the four cultivars, BTx623, Dwarf White Milo, Tall White Sooner Milo, and bmr-6 were compared. Asterisk and period indicate the same and different nucleotides, respectively. The nucleotide position at 2057 indicates dw1 mutation (shown as a red arrowhead). Three genomic sequences (Dwarf White Milo, Tall White Sooner Milo, and bmr-6) were determined by resequencing (Illumina Hiseq 2000).



Supplementary Figure S5 | Phylogenetic analysis of DW1. DW1 homologs of *Oryza sativa* (rice), *Arabidopsis thaliana* (Arabidopsis), *Zea mays* (maize), *Brachypodium distachyon* (Brachypodium), *Physcomitrella patens* (Physcomitrella), and *Selaginella moellendorffii* (Selaginella) were used for this analysis. Numbers at the branches are bootstrap values. The horizontal branch lengths are proportional to the estimated number of amino acid substitutions per residue. The DW1 homologs in seed plants are divided into two sub-groups, and the homologs in ferns and mosses are in subgroup I.

Domain I

SELMODRAFT_447750 (Selaginella)	1	-----MANTDNQGNVVPQRDP
SELMODRAFT_446486 (Selaginella)	1	-----MANTDNQGNVVPQRDP
Pp1s24_276V6 (Physcomitrella)	1	-----
Pp1s189_114V6 (Physcomitrella)	1	-----
At1G76660 (Arabidopsis)	1	-----MGS
Bradi1g66850 (Brachypodium)	1	-----MATPGSSITGGGSSSTRAANGAVAI SAAATAAGSADARF-----SQPPH
Os01g0103800 (rice)	1	-----MAATPGSSRPAN-----VAAAAATEARF-----SHPPQ
Os03g0270700 (rice)	1	PEQPRLQIRKGYSRGATGAVVARGSSSTRPANGAVAI NAAAPAVGSAPAEVARF-----SQPPQ
GRMZM2G060467 (maize)	1	-----MSSVGRSNGTRAANGAAAISTSTTEAGSADARF-----SCLLH
Sobic.009G229800 (sorghum DW1)	1	-----MSSVGSSPGTRAANGAAAISAAATAAGSADARF-----SCLLQ
GRMZM2G079832 (maize)	1	-----MSSVGSNGTRAANGAAAISAAATAAGSADARF-----PCLLQ
Bradi4g38850 (Brachypodium)	1	-----MDESVHTVNAAAVVLAAAARSTGLHRHHNHLQQQLL-----DDHAT
Sobic.002G138500 (sorghum)	1	-----MQRQDDDDTVHAAAVLAAAARSTS-----TGLLRHQQLDD-----DHASC
GRMZM2G318292 (maize)	1	-----
At1G63720 (Arabidopsis)	1	-----MRSGANGNNVFDITNAAASAIASSD-----DRLHQSS
At4g25620 (Arabidopsis)	1	-----MRSVNNSSVDTVNAASAVSAE-----SRTCPSS
At5g52430 (Arabidopsis)	1	-----MRNVVNSVETVNAATAIVTAE-----SRTCPSS
Bradi3g55830 (Brachypodium)	1	-----MQSGGEMRPVHNSVDTVNAAAAAISAE-----SRTALPTD
Os02g0822000 (rice)	1	-----MQSGSEM RPVHNSVDTVNAAAVAIVTAE-----SRTCPQA
Sobic.004G349900 (sorghum)	1	-----MQSGGEMRPVHNSVDTVNAAAVAIVTAE-----SRTCPQA
GRMZM2G143854 (maize)	1	-----MQSGGDMRPVHNSVDTVNAAAVAIVTAE-----SRTCPQA

Intron I Domain II

SELMODRAFT_447750 (Selaginella)	17	SPELQQRQKCKY GKFVCLGSS-RKRGMRICPARQEGPA-----SITNAWTNGASSSTAANQF
SELMODRAFT_446486 (Selaginella)	17	SPELQQRQKCKY GKFVCLGSS-RKRGMRICPARQEGPA-----SITNAWTNGASSSTAANQF
Pp1s24_276V6 (Physcomitrella)	1	-----MARGGCCWSGPFCLGSLSRKNKKRIVPAIRVHDG-----TAQPSDPQ
Pp1s189_114V6 (Physcomitrella)	1	-----MARGGCCWSGPFCLGSLSRKNKKRIVPAIRVHDG-----TAQPSDPQ
At1G76660 (Arabidopsis)	4	EQDQRKRWGGCLGVFSCFKSC-----KGGKRIVPASRIPEGGNVS-----SQPNGAHQAGVLLNCAA
Bradi1g66850 (Brachypodium)	45	Q-DRQSRWAGCF SGLSCFGSC-----KGGKRIVPAARIPDG-----NSTNRGNALQSGGNSNQ
Os01g0103800 (rice)	30	Q-DRRSGWAGCL SGLSCFGSC-----KGGKRIVPAARIPDG-----NSTSRGNAHQSGANSQS
Os03g0270700 (rice)	61	Q-DRQSRWAGCF SALS CFGSC-----KGGKRIVPAARIPDG-----NSTSRGNAHQSGSNSNQ
GRMZM2G060467 (maize)	40	Q-DRQSRWAGCF SGLSCFGSC-----KGGKRIVPAARTSDG-----NCSNTRGNLQSGANSNQ
Sobic.009G229800 (sorghum DW1)	40	Q-DRQSRWAGCF SGLSCFGSC-----KGGKRIVPAARTSDG-----NCSNARGN-GQSGANSNQ
GRMZM2G079832 (maize)	40	QDRQSRWAGCF SGLSCFGSC-----KGGKRIVPAARTSDG-----NCSNARGNGLQSGANSNQ
Bradi4g38850 (Brachypodium)	44	AATRKRIRWWSRLKAKLCFRPPHVHP-RR IADASSSSP-----QPATYSVHHA
Sobic.002G138500 (sorghum)	45	AAAKKTRIRWWSRLKSKLKMFRPHGHP-QRIADASRSPEPGAPPQAEQAAGSSSINNYARHA
GRMZM2G318292 (maize)	1	-MQKKTRIRWWSRLKAKLKSFRPHGHP-QRIADASRSPEPPGAPQAEQAPGS-----YNYARHA
At1G63720 (Arabidopsis)	33	PIHKKRKWNRIW SLLKCFGSSRQFK-----RIGNSVLVPEP-----VSMSSSNSTTSNSGYRS
At4g25620 (Arabidopsis)	31	-VQK-KRGSWISLYWCFGSKKNNK-----RIGHAVLVPEP-----AASGAAVAPVQNSSNS
At5g52430 (Arabidopsis)	31	-SQKGRWGGKNSLYSCFGTKNNK-----RIGNAVLVPEP-----VTSQVPPVTVQNSATS
Bradi3g55830 (Brachypodium)	36	-EPRRKWADWLSAYFCFGSQKNGR-----RISHAVLVPEP-----ASQR-IDATVPEIPVHQ
Os02g0822000 (rice)	36	-EPRRKWADWLSVYFCFGSQKNGR-----RISHAVLVPEP-----LPPR-TDAPMPEIPVHP
Sobic.004G349900 (sorghum)	36	-EPRRKWADRLSAYFCFGSQKNGRRMRVNHAAALVPEP-----APQR-TDAPVAEIPVHP
GRMZM2G143854 (maize)	36	-EQRRKWADRLS VYFCFGSQKNGRRMRVNHAAALVPEP-----APQR-TDAPAAEIPVHP

Domain III

SELMODRAFT_447750 (Selaginella)	73	VG	SPS	LLAPPSSPAS	FANSGNPSTVQSPAS	FTVSLC	VPAASSCSPAFD	STATMFT	IGPY		
SELMODRAFT_446486 (Selaginella)	73	VG	SPS	LLAPPSSPAS	FANSGNPSTVQSPAS	FTVSLC	VPAASSCSPAFD	STATMFT	IGPY		
Pp1s24_276V6 (Physcomitrella)	43	-GQFA	LLAPPSSPAS	YANSMA	PSSVQSPY-YPSSCPVP	QGGGSR	IPLETQSNM	FVAVGPY			
Pp1s189_114V6 (Physcomitrella)	43	-GQFA	LLAPPSSPAS	YANSMA	PSSVQSPY-YPSSCPVP	QGGGSR	IPLETQSNM	FVAVGPY			
At1G76660 (Arabidopsis)	62	GG	IN	LSLLAPPSSPAS	FTNSALPSTTQSPNCYL	LSLAANS	PPGG-----	PSSSMYAT	IGPY		
Bradi1g66850 (Brachypodium)	99	GA	N	LSLLAPPSSPAS	FNSALPSTAQSPNCF	LSISANS	PPGG-----	PTS	NMFVAVGPY		
Os01g0103800 (rice)	84	AA	N	LSLLAPPSSP	YFSNSAIPSTAQSPNCF	LSISANS	PPGG-----	PTS	NMFVAVGPY		
Os03g0270700 (rice)	115	VA	N	LSLLAPPSSPAS	FNSAIPSTAQSPNRF	LSISANS	PPGG-----	PTS	NMFVAVGPY		
GRMZM2G060467 (maize)	94	LP	N	LSLLAPPSSPAS	FNSALPSTAQSPNCF	LSVSANS	PPGG-----	PTS	NMFVAVGPY		
Sobic.009G229800 (sorghum DW1)	93	MP	N	LSLLAPPSSPAS	FNSALPSTAQSPNCF	LSVSANS	PPGG-----	PTS	NMFVAVGPY		
GRMZM2G079832 (maize)	95	MP	N	LSLLAPPSSPAS	FNSALPSTAQSPNCF	LSVSANS	PPGG-----	PTS	NMFVAVGPY		
Bradi4g38850 (Brachypodium)	92	PQPVFA	FVAPPSSPA	TISLLHS-----	EAPSP	PALLGG	-----	HGINS	PS	RFVAVGPY	
Sobic.002G138500 (sorghum)	104	PQPA	AVFVAPPSSPA	SSVLT-----	ESPSP	VLLNAN	ACSSSYSSP	-----	TAS	IFVAVGPY	
GRMZM2G318292 (maize)	56	PQPT	AVFVAPP	SPATISVLT-----	ESPSP	VLLNAN	-----	ASSYSSP	-----	TAS	IFVAVGPY
At1G63720 (Arabidopsis)	86	VIT	LPFIAPPSSPAS	FFQSEPPSA	TQSP-----	VGILSF	SPLPCNN	-----	RPS	IFVAVGPY	
At4g25620 (Arabidopsis)	81	TS	IFLPFIAPPSSPAS	FLPSGPPSASH	TP-----	DPGL	LLCS-----	LTVNE	-----	PPS	AFTVAVGPY
At5g52430 (Arabidopsis)	81	TT	VLPFIAPPSSPAS	FLQSDPSSVSH	SP-----	VGPL	SLTSNTF	SPKE	-----	PQS	VFTVAVGPY
Bradi3g55830 (Brachypodium)	86	PPPVF	PFVAPPSSPAS	FLQSGSAS	IVQSP-MGAP	SFSPR	SPNSP	SPSG	-----	TPS	IFVAVGPY
Os02g0822000 (rice)	86	PPPVF	PFVAPPSSPAS	FLQSGGAS	IVQSP-VGAP	SFSP	SPLSPNS	SPTG	-----	PPS	IFVAVGPY
Sobic.004G349900 (sorghum)	88	PPPVF	PFVAPPSSPAS	FLQSEPT	SIVQSPRVG	APP	SPLSPNS	QSPAG	-----	TPS	IFVAVGPY
GRMZM2G143854 (maize)	88	PPPVF	PFVAPPSSPAS	FLQSEPT	SIVQSPRAG	AP	SPLSPNS	QSPAG	-----	PPS	IFVAVGPY

Domain IV

SELMODRAFT_447750 (Selaginella)	133	AHET	ILVTPP	-AFSAFT	-----	TAPSTAP	FTPPP	-----	ELAH	ITTPSSPDV	PF	AQLL	TS	-----	LKN
SELMODRAFT_446486 (Selaginella)	133	AHET	ILVTPP	-AFSAFT	-----	TAPSTAP	FTPPP	-----	ELAH	ITTPSSPDV	PF	AQLL	TS	-----	LKN
Pp1s24_276V6 (Physcomitrella)	101	AHET	ALVSPP	-VFSTFT	-----	TAPSTAP	FTPPPE	-----	LAHF	ITTPSSPDV	PF	AKLL	GSS	-----	FSE
Pp1s189_114V6 (Physcomitrella)	101	AHET	ALVSPP	-VFSTFT	-----	TAPSTAP	FTPPPE	-----	LAHF	ITTPSSPDV	PF	AKLL	ASS	-----	FS
At1G76660 (Arabidopsis)	115	AHET	CLVSPP	-VFSTFT	-----	TEPSTAP	FTPPP	-----	ELAR	LITTPSSPDV	PF	ARFL	TSS	-----	DL
Bradi1g66850 (Brachypodium)	152	ANEP	CLVSPP	TAFTSTYT	-----	TEPSTAP	LTPPP	-----	ELAH	ATTPSSPDV	PF	ARFL	SSS	-----	GL
Os01g0103800 (rice)	137	ANEP	CLVSPP	-VFSTYT	-----	TEPSTAP	LTPPP	-----	ELAH	ATTPSSPDV	PF	ARFL	S	-----	DL
Os03g0270700 (rice)	168	ANEP	CLVSPP	-VFSTYT	-----	TEPSTAP	LTPPP	-----	EL	ITTPSSPDV	PF	ARFL	S	-----	DL
GRMZM2G060467 (maize)	147	ANEP	CLVSPP	-VFSTYT	-----	TEPSTAP	LTPPP	-----	ELAH	ATTPSSPDV	PF	ARFL	SSS	-----	GI
Sobic.009G229800 (sorghum DW1)	146	ANEP	CLVSPP	-VFSTYT	-----	TEPSTAP	LTPPP	-----	ELAH	ATTPSSPDV	PF	ARFL	SSS	-----	DI
GRMZM2G079832 (maize)	148	ANEP	CLVSPP	-VFSTYT	-----	TEPSTAP	LTPPP	-----	ELAH	ATTPSSPDV	PF	ARFL	SSS	-----	DI
Bradi4g38850 (Brachypodium)	142	AHGP	QQLVSPP	MLYSAFT	TEPSSASL	TPPADL	HLLA	AATTN	PSSPE	VPFAR	FLAS	STSM	-----	-----	-----
Sobic.002G138500 (sorghum)	157	AREP	QQLVSPP	AFSASAGL	TEPSTAP	VITPPPE	SGLH	LATT	PSSPE	VPFAR	FLISS	AA	-----	-----	-----
GRMZM2G318292 (maize)	106	AREP	QQLVSPP	AFSASAGL	TEPSTAP	LTPPPE	SSLQ	LATT	PSSPE	VPFAR	FLISS	AA	-----	-----	-----
At1G63720 (Arabidopsis)	138	AHET	-QLVSPP	VFSTYT	-----	TEPSSAP	ITPP	LDSS	IYLT	TTTPSSPE	VPFAR	FLFN	-----	-----	-----
At4g25620 (Arabidopsis)	132	AHET	-QPVT	PPVFAFT	-----	TEPSTAP	FTPPPE	-----	-----	PSSPE	VPFAR	FLISS	ER	-----	-----
At5g52430 (Arabidopsis)	135	ANET	-QPVT	PPVFAFT	-----	TEPSTAP	YTPPPE	-----	VH	ITTPSSPE	VPFAR	FLISS	EL	-----	-----
Bradi3g55830 (Brachypodium)	143	AHET	-QLVSPP	VFSAFT	-----	TEPSTAP	FTPPPE	-----	VH	ITTPSSPE	VPYAKLL	TS	LNSS	-----	-----
Os02g0822000 (rice)	143	AHET	-QLVSPP	VFSAFT	-----	TEPSTAP	FTPPPE	-----	VH	ITTPSSPE	VPYAKLL	TS	INNS	-----	-----
Sobic.004G349900 (sorghum)	146	AHET	-QLVSPP	VFSAFT	-----	TEPSTAP	FTPPPE	-----	VH	ITTPSSPE	VPYAKLL	TS	INNS	-----	-----
GRMZM2G143854 (maize)	146	AHET	-QLVSPP	VFSAFT	-----	TEPSTAP	FTPPPE	-----	VH	ITTPSSPE	VPYAKLL	TS	INNS	-----	-----

stop

v

Domain V

SELMODRAFT_447750 (Selaginella) 185 KGAVAGGAAPPYSASPFASPDYVSR----GDMQPSYHLYPESPLTSLI SPASGVSES--
 SELMODRAFT_446486 (Selaginella) 185 KGAVAGGAAPPYSASPFASPDYVSR----GDMQPSYHLYPESPLTSLI SPASGVSES--
 Pp1s24_276V6 (Physcomitrella) 155 QRTTKREAEPYSASPFASPDYQDHPQDDLVQVGYQLYPGSPGLRLI SPAGTTGASTP
 Pp1s189_114V6 (Physcomitrella) 155 QRSTKREPEPPYSASPFASPDYQDHSQQDDLVQVGYQLYAGSPLGGLI SPAGTTGESTP
 At1G76660 (Arabidopsis) 168 K-----NSGKGHYN-----DLQATYSLYPGSPASALRSPISRASGD--
 Bradi1g66850 (Brachypodium) 206 K-----TAGKEHNMHYLSTAYSGGSGLQGSYPLYPGSPSSSLI SPASATPRT--
 Os01g0103800 (rice) 190 K-----TAGKDHNMPYLSTAYSGGSGLQASYPLYPESPPSSLI SPASATPRT--
 Os03g0270700 (rice) 221 K-----TAGKDHNMPYLSTAYSGGSGLQASYPLYPESPPSSLI SPASATPRT--
 GRMZM2G060467 (maize) 200 K-----TASKDHNMPFLSTTYSGGSGLQTSYPLYPESPCSSLI SPASVTPRT--
 Sobic.009G229800 (sorghum DW1) 199 K-----TASKEHNMPFLSTAYSGGSGLQASYPLYPESPCSSLI SPASVTPRT--
 GRMZM2G079832 (maize) 201 K-----TASKEHNMPFLSTTYSGGSGLQASYPLYPESPCSSLI SPASVTPRT--
 Bradi4g38850 (Brachypodium) 202 AEQQSCGGL-----LQAAYQLQPGSPITPP-----
 Sobic.002G138500 (sorghum) 216 DQQPHCSPG-----GMVTEGFLHAYQLQPGSPVLV-----
 GRMZM2G318292 (maize) 165 DQQAHCFGGG-----TGTGTGTASDGLHAYQLQPGSPVLK-----
 At1G63720 (Arabidopsis) 190 SNHQTGSYGY-----K-FPMSSSYEFQFYQLPPGSPGLG-----
 At4g25620 (Arabidopsis) 180 ARRNSGGGMN-----Q-KFSAAHYEFKSCQYYPGSPGG-NIISPG-----
 At5g52430 (Arabidopsis) 189 TRRDSTSGMN-----Q-KFSSSHYEFRSNQYCPGSPGGGN-IISPGSVISN--
 Bradi3g55830 (Brachypodium) 196 KNGERG-----ELHPYHLYPESPIG-----RLISP--
 Os02g0822000 (rice) 196 KNAETG-----ELQSYQLYPESPIG-----RLISP--
 Sobic.004G349900 (sorghum) 199 KNGETG-----DLQSYPNYPDSPIG-----RLISP--
 GRMZM2G143854 (maize) 199 KNGEAGG-----DLQSYPNYPDSPIG-----RLISP--

SELMODRAFT_447750 (Selaginella) 238 -----GPPSPLPELEFFAAITAAKAAKATS----VRLAVSLCDRRVRLGHETPRSLD
 SELMODRAFT_446486 (Selaginella) 238 -----GPPSPLPELEFFAAITAAKAAKATS----VRLAVSLCDRRVRLGHETPQSLD
 Pp1s24_276V6 (Physcomitrella) 215 FAAGGTTGTNTPHAESDNP TPLTVLPAVVSTLPNLEHQVAEGLHQRSILDSQCGPGEPLS
 Pp1s189_114V6 (Physcomitrella) 215 FAGRGTIGTNTPHAEGDNP TPLTVLPAVVSTLPNLEHQVAEGLHQRSILDSQCGPGEPLN
 At1G76660 (Arabidopsis) 204 -----GLLSPO-----NGK
 Bradi1g66850 (Brachypodium) 253 -----GLSSPIPEQVPTAHWKTSRSACDTPYSIASPIPEQEVPTAQWKTSRSACDTP
 Os01g0103800 (rice) 237 -----GLSSPIPEQVPTAHWKTSRSACDTPYSRASPIPEQEVCTAHWKTSRSACDTP
 Os03g0270700 (rice) 268 -----GLSSPIPEQVPTAHWKTSRSACDTPYSRASPIPEQEVPTAQWKTSRSACDTP
 GRMZM2G060467 (maize) 247 -----GLSSPIPEQVPTAHWKTSRSACDTPYFRASPIPEQ-ETTAQWKTSRSACDTP
 Sobic.009G229800 (sorghum DW1) 246 -----GLSSPIPEQVPTAHWKTSRSACDTPYFRASPIPEQ-ETTAQWKTSRSACDTP
 GRMZM2G079832 (maize) 248 -----GLSSPIPEQVPTAHWKTSRSACDTPYFRASPIPEQ-ETTAQWKTSRSACDTP
 Bradi4g38850 (Brachypodium) 226 -----GVSPSPSPQPFRRKLHRRNEGSLLDGHIPLVLTSGAGA-----
 Sobic.002G138500 (sorghum) 246 -----SPGSTSSSPPPWNMQQHVVGTHSDGGRVPIKDE-----
 GRMZM2G318292 (maize) 201 -----SPG-----
 At1G63720 (Arabidopsis) 222 -----QLISPSFGSGPTSPFPDGETSLFPHFQVSDPPKLLSPKTAGVITPCKE-----
 At4g25620 (Arabidopsis) 218 -----SGTSSYPYPKGCSIIEFRIGEPKFLGFEHFTARKWGSRFSGSITPVGHGSRGLG
 At5g52430 (Arabidopsis) 233 -----SGTSSYPYPKSMPVEFRIGEPKFLGFEHFTARKWGSRFSGSITPVGHGSRGLA
 Bradi3g55830 (Brachypodium) 221 -----SSVCSGTSSFPDPELQTSSTCFPSFPVREPPKILDGEGVATQKLI PRHMRNG
 Os02g0822000 (rice) 221 -----SSACSGTSSFPDPEVQTSSTCFPSFPVREPPKILDGEGVATQKLI PRHMRNG
 Sobic.004G349900 (sorghum) 224 -----SSGCSGTSSFPDPEMLASSSALHSFPVREPPKILDGEGVATQKLI PRHMRNG
 GRMZM2G143854 (maize) 225 -----SSGCSGTSSFPDPEMQASSSALRLFPVREPPKILDGEGVATQKLI PRHMRNG

SELMODRAFT_447750 (Selaginella)	287	SNNHSRELEPIKILSPPRGQYE	ERWCSRTL	DSCSTSSNAVAATKSMEELPRRSHSCG	---				
SELMODRAFT_446486 (Selaginella)	287	SNNHSRELEPIKILSPPRGQYE	ERWCSRTL	DSCSTSSNAVAATKSMEELPRRSHSCG	---				
Pp1s24_276V6 (Physcomitrella)	275	DSGRERHGSFDSHSRFMVAM	IHERDGS	SDSNSNSYGHERYSGSLTGLNDVLEGRNRYT	---				
Pp1s189_114V6 (Physcomitrella)	275	DSGRERHGSFDSHSRFMGAM	IHERDPS	SDSASHSYGHEQHSGLSGLHEVLEGRNRHR	---				
At1G76660 (Arabidopsis)	213	CSRSDSGNTFFGYDTNGVSTPL	QESNFF	CPETF	AKFYLDHDP	SVPQNG	---	GRLSVSK	DSDV
Bradi1g66850 (Brachypodium)	306	YSRTSPSNIFGLDSAAPRNC	LDSNFF	FRPAASAQFYLDQAQQT	FPYN	---	GGRLSVSRD	---	
Os01g0103800 (rice)	290	YSRNPSNIFGLDSAASRNYM	LDSNFF	FRPAASAQFYLDQAQQS	FPYNN	---	GGRLSVSKD	---	
Os03g0270700 (rice)	321	YSRNPSNIFGLDSAASRNYM	LDSNFF	FRPAASAQFYLDQAQQS	FPYNN	---	GGRLSVSRD	---	
GRMZM2G060467 (maize)	299	YARTSPTNIFGLDSSTPRNYM	LDSNFF	FRPAASAQFYLDQAQQT	FPHN	---	GGRVSVSRE	---	
Sobic.009G229800 (sorghum DW1)	298	YARNSTNIFGLDSSTPRNYM	LDSNFF	FRPAASAQFYLDQAQQT	FPHN	---	GGRVSVSRE	---	
GRMZM2G079832 (maize)	300	YARTSPTNIFGLDSNTPRNYM	LDSNFF	FRPAASAQFYLDQAQQA	FPHN	---	GGRVSVSRE	---	
Bradi4g38850 (Brachypodium)	264	-----	-----	-----	-----	-----	-----	-----	
Sobic.002G138500 (sorghum)	280	-----	-----	-----	-----	-----	-----	-----	
GRMZM2G318292 (maize)	-----	-----	-----	-----	-----	-----	-----	-----	
At1G63720 (Arabidopsis)	270	-----	-----	-----	-----	-----	-----	-----	
At4g25620 (Arabidopsis)	272	SGALTPDGSKLTS	GVVTPNGAETVIRMSYGNL	TPLEGSLLDSQISEVASLANSDHGSSR	---				
At5g52430 (Arabidopsis)	287	SGALTPNGPEIVSGNLTPN	-----	NTTWPLQ	NQISEVASLANSDHG	---			
Bradi3g55830 (Brachypodium)	275	GSLLDGHI	AAVPVDF	SARLQ	---				
Os02g0822000 (rice)	275	GSLLDGHI	AAVPVDF	SARLQ	---				
Sobic.004G349900 (sorghum)	278	GSLLDGHI	AAVPVDF	SARLQ	---				
GRMZM2G143854 (maize)	279	GSLLDGQI	AAVPVDF	SARLQ	---				

Domain VI

SELMODRAFT_447750 (Selaginella)	344	-----	GID	LEVELKRSL	SQV	GALPRGGDDDD	RADADVDTM	VVEDSQ	
SELMODRAFT_446486 (Selaginella)	344	-----	GID	LEVELKRSL	SQV	GALPRGGDDDD	RADADVDTM	VVEDSQ	
Pp1s24_276V6 (Physcomitrella)	332	-----	KLK	QDKGPRSS	SLRSHEKE	---	DDIQEEDLLEL	PMLLGSESS	
Pp1s189_114V6 (Physcomitrella)	332	-----	KLN	QDKSSRFITGLKTQEQEK	DDV	RNEDLLEL	PMLLGSESS		
At1G76660 (Arabidopsis)	271	YPTNGYGNGNQNRQNRSPKQDM	EEL	EAYRASFGFS	SADEI	ITTSQYVEITD	VMDG	SFN	TS
Bradi1g66850 (Brachypodium)	362	-----	KQDA	EVEAYRASFGFS	SADEI	VTTQHYA	IPD	LDDG	F
Os01g0103800 (rice)	347	-----	KQDV	EVEAYRASFGFS	SADEI	VTTQTYVE	IPD	ALDE	G
Os03g0270700 (rice)	378	-----	KQDA	EVEAYRASFGFS	SADEI	VTTQAYVE	IPD	ALDE	G
GRMZM2G060467 (maize)	355	-----	KQGA	EIEAYRASFGFS	SADEI	VQSQSYVG	IPDA	VDES	F
Sobic.009G229800 (sorghum DW1)	354	-----	KQDA	EIEAYRASFGFS	SADEI	VQSQSYVG	IPDA	VDES	F
GRMZM2G079832 (maize)	356	-----	KQDA	EIEAYRASFGFS	SADEI	VQSQSYVG	IPDA	VDES	F
Bradi4g38850 (Brachypodium)	264	-----	-----	-----	-----	-----	-----	-----	-----
Sobic.002G138500 (sorghum)	280	-----	-----	-----	-----	-----	-----	-----	-----
GRMZM2G318292 (maize)	-----	-----	-----	-----	-----	-----	-----	-----	-----
At1G63720 (Arabidopsis)	270	-----	QKIV	RP	HKPV	SF	DL	AD	HV
At4g25620 (Arabidopsis)	331	-----	HN	DEAL	WPHR	VS	FELT	GEDV	ARCL
At5g52430 (Arabidopsis)	328	-----	SE	VM	VADH	RV	SFELT	GEDV	ARCL
Bradi3g55830 (Brachypodium)	297	-----	SND	H	AM	DH	RV	SFELT	V
Os02g0822000 (rice)	297	-----	NND	H	AM	DH	RV	SFELT	V
Sobic.004G349900 (sorghum)	300	-----	PNE	H	AM	DH	RV	SFELT	V
GRMZM2G143854 (maize)	301	-----	PNE	H	AM	DH	RV	SFELT	V

SELMODRAFT_447750 (Selaginella)	384	QPTSALLRG-----GDDDI SDSL RDEEGRTEKNN
SELMODRAFT_446486 (Selaginella)	384	QPTSALLRG-----GDDDI SDSL RDEEGRTEKNN
Pp1s24_276V6 (Physcomitrella)	371	HGGSRASRSPSSRSKVQSKAGSRVGSRVESKAASRVGSKAGSDALKDWDH NEDNLLEYAL
Pp1s189_114V6 (Physcomitrella)	372	QGGSRASRSPNRSKVQSKAG-----SRVESKAGSDSLKEWDRNENNLLLEYAL
At1G76660 (Arabidopsis)	331	YS-----PSDGQKLLRREANLLSQTS
Bradi1g66850 (Brachypodium)	404	FGNSAPAAEVSPFNDLPNEAQ-----KVDKSLNNAKAITSPKK-SADQLSSGT
Os01g0103800 (rice)	389	FGNNAPATEVDKS-----LFNVKVI TGPKKSTEQKLSNGS
Os03g0270700 (rice)	420	FGNNAPATEVDKP-----LFNVKVT TSPKK-SADQLSNDS
GRMZM2G060467 (maize)	397	FGNNTPATEICPFSDLP---N-----EVDKSCAYAKDDTSPKK-SANQLSTDS
Sobic.009G229800 (sorghum DW1)	396	FGNNAPATEICPFSDLPNEVQ-----KVDKSCAYAKDGTSPKK-SANQLSIDS
GRMZM2G079832 (maize)	398	FGNNAPATEICPFSDLPSEVQ-----KADKSCTYVKDGTSPKK-SANQLSIDS
Bradi4g38850 (Brachypodium)	264	-----
Sobic.002G138500 (sorghum)	280	-----
GRMZM2G318292 (maize)	-----	-----
At1G63720 (Arabidopsis)	302	-----
At4g25620 (Arabidopsis)	365	-HEKASG-----EHLRP
At5g52430 (Arabidopsis)	368	ETEESST-----TDIRR
Bradi3g55830 (Brachypodium)	337	LPTSNGDHSR-----ESNE
Os02g0822000 (rice)	337	VPTGNG---DHHP-----RESND
Sobic.004G349900 (sorghum)	340	APTSNG---DHHR-----ESNE
GRMZM2G143854 (maize)	341	APTGS---DHHR-----ESNE

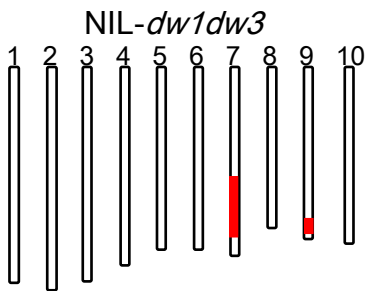
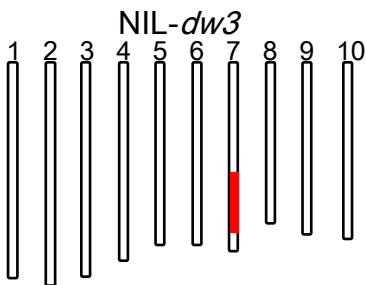
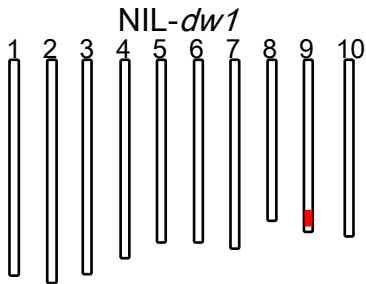
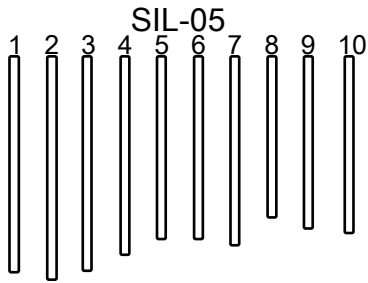
Intron II

SELMODRAFT_447750 (Selaginella)	413	DLAA--TATAETTTTHSRPIEDGVGVCSSSSSSSSCLDKSGDVEGEPKRYEEQALESPRS
SELMODRAFT_446486 (Selaginella)	413	DLG---ATAETTTTHSRPIEDGVGVCSSSSSSSSCLDKSGDVEGEAKRFEEQALESPRS
Pp1s24_276V6 (Physcomitrella)	431	SLLEGTGDKRPGTIGWAPVDTSLPRESEGP IQSSSTTRNETEENEKDTVYKSIKNGKGS
Pp1s189_114V6 (Physcomitrella)	420	SLLEGS DGKRP GTIGWAPVDTSLPREPEASTQSSDLSNGTEENETDRVYKGDQNGKSSS
At1G76660 (Arabidopsis)	352	PKSEADLD SQVDFQSPKSSNSYKDHKQRNRIHAD E EAL LSRVGSVKGSRSYHISSDAE
Bradi1g66850 (Brachypodium)	451	PQKVLHLDIFKGTIKGGHLSDDDGAKDCHPFRKSRDEISL KPIEV RKKSPPGQA-CSDAE
Os01g0103800 (rice)	424	PQNVVHLDIFKGTIKGGDVCDEGVVKDCHPFRKGRDEISL KPIEV RKKVGGGQS-CSDAE
Os03g0270700 (rice)	454	PHNVVHLDIFKGTIKGGDLSDEGVVKDCHPFRKAMDEISL KPIEV RKKVQPGQSSSSDAE
GRMZM2G060467 (maize)	441	PNKVLRLDVFVGTIKGGHQSDEGRKDKGHLFRKTAD EISL KPIEV RKKSLPGHS-CSDAE
Sobic.009G229800 (sorghum DW1)	443	PNKVLRLDVFVGTIKGGHQSDEGVVKDGHFPRRTTDEISL KPIEV RKKSLPGHS-CSDAE
GRMZM2G079832 (maize)	445	PNKVLRLDVFVGTIKGGHLSDEGVARDGHFPRRTTDEISL KPIEV RKKSPPGHS-CSDAE
Bradi4g38850 (Brachypodium)	264	-----GSDQEEEGRGGSGGD DDEV PKSGEFVFGNAD DGAEDVD-----
Sobic.002G138500 (sorghum)	280	-----SKDDEVA TGGGEFVFGSNADAAAGERFAGGEVVGARGDAT-----
GRMZM2G318292 (maize)	-----	-----
At1G63720 (Arabidopsis)	302	-----EASSDQESMNHSSLGSNKEFNFGTDEKHLTVDEHRSASPK--NSNDWS-----
At4g25620 (Arabidopsis)	376	NCCKTSGETESEQS--QKLSRFSTGSNKEFKFDSTNEEMIEKI--RSEWWANEKVAGKGD
At5g52430 (Arabidopsis)	380	NIEKRSGDRENEQHRIQKLSSSSIGSSKEFKFDNTK DENIEKV--AGNSWS-----
Bradi3g55830 (Brachypodium)	351	TRAGLYVDETYHDLPEKARRSLSLRLAKEFKFNNDG AHV EETGALGSDWWANDKVAAIT
Os02g0822000 (rice)	353	TRAGLCVDETYHDLPEKARRSLSLRKAKEFKFNNDVAPSV EPS--VGSDDWWANEKVAGIT
Sobic.004G349900 (sorghum)	354	ARAGLYVDETYHDLPEKARRSLSLRLAKDFNFNNDVANV EPS--VGSDDWWANEKVAGMT
GRMZM2G143854 (maize)	355	ARAGLYVDES YHDLPEKARRSLSLRLAKEFNFNNDVGSV EPS--VGSDDWWANEKVAGMT

SELMODRAFT_447750 (Selaginella)	471	CGIVLEVEITPDDLVKTSWSSQAK-----
SELMODRAFT_446486 (Selaginella)	469	CGIVLEVEITPDDLKVNITGAKNK-----KKNIGIVTKKNGFHNNHHNNHRNGFV
Pp1s24_276V6 (Physcomitrella)	491	NVPQQVVGAGAKEVSEGTITPVGHHSAPDCCSRCELSVQCEQLSVALKEARRKQOQEKD
Pp1s189_114V6 (Physcomitrella)	480	EGFQEAISAGAIIEEPEETVVSANH-----DCSSRYESLVSQYEQLSVALKEAERKQLEKD
At1G76660 (Arabidopsis)	412	VEYRRGRSLRESRENHRKA-----
Bradi1g66850 (Brachypodium)	510	IEYRRARSLREANSVLSWRSTLARQLQ
Os01g0103800 (rice)	483	IEYRRARSLREANGVVSWRSTLARQLQ
Os03g0270700 (rice)	514	IEYRRARSLREANGVLSWRSTLARQLQ
GRMZM2G060467 (maize)	500	IEYRRTRSLRDANGVLSRRSALARQLH
Sobic.009G229800 (sorghum DW1)	502	IEYRRTRSLRDANGVLSRRSALARQLH
GRMZM2G079832 (maize)	504	IEYRRTRSLRDANGVLSRRSALARQLH
Bradi4g38850 (Brachypodium)	304	-----GNRWPAFPPRG-----
Sobic.002G138500 (sorghum)	319	-----EQWPFLLAHTHS-----
GRMZM2G318292 (maize)		-----
At1G63720 (Arabidopsis)	348	-----FFPVMQSGTLS-----
At4g25620 (Arabidopsis)	432	HSPRNSWIFFPVLRSGHT-----
At5g52430 (Arabidopsis)	429	-----FFPGLRSGVS-----
Bradi3g55830 (Brachypodium)	411	TEPRKSWIFRPMAQPGVS-----
Os02g0822000 (rice)	411	SEPRKSWIFFPVAQPGVS-----
Sobic.004G349900 (sorghum)	412	SEPKNWIFHPVAQPGVS-----
GRMZM2G143854 (maize)	413	TEPKKNWIFHPVVQPGVS-----

SELMODRAFT_447750 (Selaginella)		-----
SELMODRAFT_446486 (Selaginella)	521	ASSKSSWEDLDAMSVDCMELNLTNTIKSPLKSSPIMDSC-----
Pp1s24_276V6 (Physcomitrella)	551	RLAEEREKQIRHLTQLLQSGGLQKFVGFPAANQVGEENNVKDIS
Pp1s189_114V6 (Physcomitrella)	536	RLAEEREQQKRHLTHLLQSGGLQKLVGDYLRAGNEVGNKKTADAP
At1G76660 (Arabidopsis)		-----
Bradi1g66850 (Brachypodium)		-----
Os01g0103800 (rice)		-----
Os03g0270700 (rice)		-----
GRMZM2G060467 (maize)		-----
Sobic.009G229800 (sorghum DW1)		-----
GRMZM2G079832 (maize)		-----
Bradi4g38850 (Brachypodium)		-----
Sobic.002G138500 (sorghum)		-----
GRMZM2G318292 (maize)		-----
At1G63720 (Arabidopsis)		-----
At4g25620 (Arabidopsis)		-----
At5g52430 (Arabidopsis)		-----
Bradi3g55830 (Brachypodium)		-----
Os02g0822000 (rice)		-----
Sobic.004G349900 (sorghum)		-----
GRMZM2G143854 (maize)		-----

Supplementary Figure S6 | Amino acid alignment of sorghum DW1 and its homologs. The proteins are same as in Supplementary Fig. S3. The positions of Intron 1 and 2 are indicated by arrowheads. The mutation in bmr-6 is indicated by an arrow. The six conserved domains are indicated by red rectangles.



Supplementary Figure S7 | Graphical representations of each NIL. White and red bars indicate chromosomes of SIL-05 and *bmr-6*, respectively. NIL-*dw1* and NIL-*dw3* contain a ~170 kb and ~2.8 Mb fragments of *bmr-6*, respectively.

Supplemental Table S1 Primers used in this study

name	sequence	purpose
ssr5-34_R	GTTTGACAGACACCGGGAGTAGATGATGT	QTL
Xcup01_F	ACATGGGCGGGTTGAAGAC	QTL
Xcup01_R	GTTTGCAGGAAGGGAGGATGTAG	QTL
Xtxp79_F	ACTCCACAGCCAGAACATT	QTL
Xtxp79_R	GTTTGAAGCAGTGCAGGATTACGT	QTL
SB260_F	TCAAGTCCACTCTACTCTGCCT	QTL
SB260_R	AAGAAAAGGCTAATCGATTGGGGA	QTL
SB441_F	ACAGAGACTCCGCTGGAAATGAAC	QTL
SB441_R	TGTTTTTTGGATCGGAGTGAGAA	QTL
SB474_F	TAGGTTGCAATTGATGTTCCAACG	QTL
SB474_R	CACCTACAACGCGGATACAACCA	QTL
SSR2_491_F	AGACGAAGAAGAGCTTAGCGTGGAG	QTL
SSR2_491_R	GTTTGTAGATGAACCTGGTGTCTCCC	QTL
Xtxp88_F	ACGTGAATCAGCGAGTGTGG	QTL
Xtxp88_R	GTTTGCCTAATGTTCTCTGCTC	QTL
Xtxp11_F	ATCGAGAAATCAACATGCTG	QTL
Xtxp11_R	GTTTGTAGACCGACGAGATAAG	QTL
Xtxp37_F	ACAACCTAAGAGGCCTATTTAAC	QTL
Xtxp37_R	GTTTACGGCGACTATGTAACCTATG	QTL
Xtxp335_F	ATATTTCTCTTGAAGAATCAGG	QTL
Xtxp335_R	GTTTATTCATCGAGCAAAGCA	QTL
SSR2_630_F	ATAATGGACAAGCAGAAACGACGA	QTL
SSR2_630_R	GTTTATGAGCAGCGGATAAGTTCGAGAG	QTL
Xtxp279_F	ATTCTGACTTAACCCACCCCTAAA	QTL
Xtxp279_R	GTTTAGCTCATCAATGCCCAAAC	QTL
SSR2_733_F	ATATTGTGTTGGGGAAACATAGGG	QTL
SSR2_733_R	GTTTGGCTCAGGAGGCTTATTGTGTT	QTL
SSR3_868_F	ACTCATCAGGCTAAATGATCACC	QTL
SSR3_868_R	GTTTATCGAGCACCTGAAACATGAAACA	QTL
SSR3_891_F	AGTCCTCTCTCTCTCTCTCTCT	QTL
SSR3_891_R	GTTTGAACACAAAGGATGCGGTGACATA	QTL
SSR5_968_F	ACCTGGAAATCAGGAGACGAATCTT	QTL
SSR5_968_R	GTTTAATTAACGCACACCCCTTAGGAGC	QTL
SSR3_987_F	ATACTCCATGTGGCAGATCTCAAGC	QTL
SSR3_987_R	GTTTAATGGAGTGGAGAGTGGAGAGTGG	QTL
SSR5_1004_F	ATGATCCATCATCTTTCCATCCGT	QTL
SSR5_1004_R	GTTTCAAGGGACATATTGTGAGCAGGTG	QTL
Xtxp297_F	AGACCCATATGTGTTTGTGCGAAAG	QTL
Xtxp297_R	GTTTGCACAATCTCGCCTAAATCAACAAT	QTL
Xtxp211_F	ATCAACGGCCAATGATTTCTAAC	QTL
Xtxp211_R	GTTTAGGTTGCGAATAAAAGTAATGTG	QTL
SB1088_F	GGAAAGGGAGAAATGGTGAAGAAC	QTL
SB1088_R	CACCAACAACATCAGGCCTATTA	QTL
SSR2_1142_F	ATCTACTTGTCCCTCTGCCTCTGCT	QTL
SSR2_1142_R	GTTTGGTTGCGAGCTTTGAATGATACAC	QTL
Xtxp72_F	ATTATGGAAGCAAATGAC	QTL
Xtxp72_R	GTTTCCGAATCCTAATTGAGGTAAGC	QTL
SSR2_1196_F	ACATTGCTAGGTACATGGCCAAAT	QTL
SSR2_1196_R	GTTTCCCGTTGGTTCCCGTGTATAAAT	QTL
SSR3_1264_F	ACTCAGTTCACGACGATTGACTGC	QTL
SSR3_1264_R	GTTTACCACGCATCTTTTCGTAGGTCAT	QTL
Xtxp1_F	ATTGGCTTTTGTGGAGCTG	QTL
Xtxp1_R	GTTTACCCAGCAGCACTACACTAC	QTL
Xtxp56_F	ATGCTCTCGTAGTTGCGGTGTTG	QTL
Xtxp56_R	GTTTCCGAAGGAGTGCCTTTGGAC	QTL
SB1308_F	TTGTATTGCGTGAGACAAGGGGTC	QTL
SB1308_R	CTTCATCAAGTTAGTGTGGCGACG	QTL
SB1311_F	GCCGGAGTAGTGGACTCTGTCTGT	QTL
SB1311_R	AAACCAAAGCAAAGCAAAGGTCG	QTL
SB1343_F	CTAAGGCGTGCCTGTAAGTAAAC	QTL
SB1343_R	TGTGACATGTAACGGACTGCTCAA	QTL
SB1362_F	AGCGCAATTTGGATGCTGATATGTA	QTL
SB1362_R	TAGAACAACAGCCCTCTTTGCTG	QTL
SB1378_F	AGCTCGGAATTCATTCAAATCAGG	QTL
SB1378_R	ATCTTGCAGCAATCGAAGTCAT	QTL
SB1392_F	TGCTTGTGCTGCAATAAAAGAGTG	QTL
SB1392_R	ATAGCCTCTGTGCGTGTCTTTGTG	QTL
SB1426_F	TGCAATGTGTGTTTTCCAGGAGA	QTL
SB1426_R	TACAATGGACACTCGTCAACAGC	QTL
Xtxp7_F	ACATCTACTACCTCTCACC	QTL
Xtxp7_R	GTTTACACATCGAGACCAAGTTG	QTL
SB1491_F	GAACTGATCGGTTAACATGTACGGC	QTL
SB1491_R	GGAAATGGCTTTGGAGAGAGGTT	QTL
SSR4_1518_F	AGATAGGAGGTGCCAGCCAGTATG	QTL
SSR4_1518_R	GTTTCTCTCTCATCCGCTCTCATTCTCC	QTL
SSR2_1526_F	ATGTGTTCTCTGTCTTACTTGGCCT	QTL
SSR2_1526_R	GTTTAGCAAAACGGTCTCCTACGTACC	QTL
SSR3_1562_F	AGAGACGACGCTAATCCATCCAAC	QTL
SSR3_1562_R	GTTTGAAGAACACCAAGTGCATACATCC	QTL
SSR5_1722_F	AGGCCGGCCGATTATTTTCTC	QTL
SSR5_1722_R	GTTTAAAGAATATTATCTCGTGGGTGCG	QTL
SSR2_1779_F	ACAAGCACCAACCATCAAGAAG	QTL
SSR2_1779_R	GTTTCTCTGCTCTCGTCTCGTCTCT	QTL
Xtxp9_F	ACAATAGCACCCGCGCGG	QTL
Xtxp9_R	GTTTCAATTTGGAGTCCCTGATAC	QTL
SSR2_1814_F	ATTTAATCCAATCCAGGAGAAATGC	QTL
SSR2_1814_R	GTTTCCGAAATGATTGCCAGTTTCAGTA	QTL
SSR2_1839_F	ATGAAGAAGCTGTCCGTTTGACAAG	QTL
SSR2_1839_R	GTTTAAAAAGCTGCTCCTTTGAGGCTTT	QTL
SB1862_F	GTGCATAGGGCCAAAAGAGCACTA	QTL
SB1862_R	TGACCAGCATATGGGTACATCTT	QTL
SB1936_F	CCTCTCTCTCTCTCTCCCAACAGC	QTL
SB1936_R	CATGAATTTCTCGCATCAATCCAC	QTL
Xtxp31_F	ATGCGAGGCTGCCTACTAG	QTL
Xtxp31_R	GTTTGGACGTACCTATTGGTGC	QTL
SSR2_1992_F	ACGCATCAGGAATTCACATTTAGGCT	QTL
SSR2_1992_R	GTTTGTGCAAAGTACGATGGATCAGGT	QTL
SSR2_2078_F	ACTTAATCAATCACACCTCGCTCCC	QTL
SSR2_2078_R	GTTTCTTTTCCACACCAACCATGAGA	QTL
SSR3_2122_F	AGAAGAGCCAAAGGAAGGGAAGATA	QTL
SSR3_2122_R	GTTTAAAAGTGACAGACACCCGTAGCC	QTL
SSR4_2129_F	ACGGGAAAATCTTGATCATGGTG	QTL
SSR4_2129_R	GTTTGGAGAGGCTCATATTTGGA	QTL
Xtxp285_F	ATTTGATTCTTCTGCTTTGCCCTTGT	QTL

Xtxp285_R	GTTTGTCAATTTCCCCCTTCTTTCTTT	QTL
Xtxp70_F	AGTGACCTTAGCACCAAGCTC	QTL
Xtxp70_R	GTTTCAGGTAGCACTAGAG	QTL
SSR3_2362_F	ATGCAATCTATAGCAGCTGGAGACG	QTL
SSR3_2362_R	GTTTGTATGCATTTGCAAGCAGTGTGT	QTL
SSR2_2435_F	ATAGCTAGCTGCGTAATGACGAGGA	QTL
SSR2_2435_R	GTTTCCGAGCATCGTCGGAATAATACA	QTL
Xtxp26_F	ACAAGTGTAGTAGCAGTTTGTCTCT	QTL
Xtxp26_R	GTTTAGGTATCAAAGGACCAAGG	QTL
SSR5_2513_F	AGATGAGCCATATTTGGCAAGGAA	QTL
SSR5_2513_R	GTTTCAGTAAAGCTGGCTAGCTGCAACA	QTL
SSR2_2565_F	ACTGCACGCCTAATTATCCCTTGTG	QTL
SSR2_2565_R	GTTTGTCTGCTGCTGCCAGCTACTATCA	QTL
SSR3_2599_F	ATCTGGAGTCTGGAAGAATGCTGG	QTL
SSR3_2599_R	GTTTCCACTAGTGATCAGCAC	QTL
Xtxp343_F	ACGATTGGACATAAGTGTTC	QTL
Xtxp343_R	GTTTATAAACATCAGCAGAGGTG	QTL
SSR5_2635_F	AGTGTCCGGCCTTCTTGTGTTAG	QTL
SSR5_2635_R	GTTTGAGCAGTGTCTTTGGAATTAGGA	QTL
SSR5_2660_F	ACAGCCCCCTTTCATATGTTCAAAA	QTL
SSR5_2660_R	GTTTATGGAGCAGGCTACTAGTGTCCGGG	QTL
SSR5_2772_F	AGATGCAACCAACCAACATAGCTG	QTL
SSR5_2772_R	GTTTAAAGCCAAAGGAAAGACCCAAAAG	QTL
SSR2_2831_F	ATTCAGCTTTGGATCTCGATCTGTG	QTL
SSR2_2831_R	GTTTCGTCAAATCTAGCTCTATCATCA	QTL
SSR3_2963_F	AGAGGGAGAGTGTGGATGCTGGTAT	QTL
SSR3_2963_R	GTTTGAAATCTGAGCCTAGGAGGGTGGT	QTL
SSR2_3016_F	AGGAAAAATGAGAAAAGAAACGGGG	QTL
SSR2_3016_R	GTTTGTCTCTGATTGTCAATGCCTCCCT	QTL
SSR2_3045_F	ATTGGCCATTTGACCTGTCTAAAAG	QTL
SSR2_3045_R	GTTTAAACATACCAAGCCGCGTATC	QTL
SSR4_3052_F	ATGGTAGTTTCTTCTCCCAACCC	QTL
SSR4_3052_R	GTTTAATTAAGAAACAAAACCCGGAGGG	QTL
SSR4_3056_F	AGACGCCATCTACTCCATCCTCTA	QTL
SSR4_3056_R	GTTTATCTACGCTCTGGATCGTCAACCTC	QTL
SB3067_F	ATGAGCAGCAGAAGCAATCATCAA	QTL
SB3067_R	TGTTTCAGTTATGTGTGTGGTGGGA	QTL
SB3077_F	TGTTTCCTTTGTGTACGGTGTTCG	QTL
SB3077_R	GCCATCTGATGCTACGCTGTAGTG	QTL
SB3134_F	GGATGCAGGAAGAGCTAAAGCAA	QTL
SB3134_R	CTGCAATGCACAGTTTCAGAGTGA	QTL
SB3146_F	CCCTCCTGTCTCTTATTAGGTTTTCA	QTL
SB3146_R	ACCACCCACCAAAATGAATGTTTC	QTL
SB3160_F	GGAACTCTGGAACTTGATTGGCTCA	QTL
SB3160_R	GTACAAGTTGGAACACAAGGCACG	QTL
SSR3_3178_F	ATTCTCTGCTCCGTTTCTAACAGG	QTL
SSR3_3178_R	GTTTCTCGATTCTATCTATCGTCTGG	QTL
SSR2_3183_F	ACCTTTGCACTTGATCACTTTCCCT	QTL
SSR2_3183_R	GTTTCTTCTCCGCAACTTCTCATC	QTL
SSR3_3251_F	AGGACACCCACACCGGATCTATAAGG	QTL
SSR3_3251_R	GTTTCCACCCACCACTACATGAAGGAAT	QTL
SSR5_3411_F	AGCTCGCATACTAGCTCATCGTTCA	QTL
SSR5_3411_R	GTTTGACTGTCCATGCGATCAGTAGGAA	QTL
YUC7_F2-R1_F	CTAGCTCATCGTTCACCACC	QTL
YUC7_F2-R1_R	GGGAGAAGAGACTGTCCATG	QTL
SSR2_3417_F	ACACTCTCTCCCACTTCTCATCAA	QTL
SSR2_3417_R	GTTTGTGGATTACCACAAGGCTATGA	QTL
SSR5_3423_F	AGTCCTATAAGACCTCGCCTCCG	QTL
SSR5_3423_R	GTTTACGTTCTAGGAGTTGTCCCGGAG	QTL
Xtxp6_F	ATCGGATCCGTGATC	QTL
Xtxp6_R	GTTTCTAGGGAGGTTGCCAC	QTL
SSR3_3479_F	ACTGGCGTGGCAAGTTCAGTCT	QTL
SSR3_3479_R	GTTTGTGCTGTGTTTTGGAGAGTTGA	QTL
SB24905_F	GGCACCGTATGCTGCATGCTTAT	QTL
SB24905_R	TGGATCCAATTAATCTCTCTGTCA	QTL
SSR2_3489_F	ACAATAAATGCCGGTTTTCTGTGGAG	QTL
SSR2_3489_R	GTTTGCATGCCACTTCTCTCATGT	QTL
SB3484_F	GCGACAGCGATCGGTGATATAATA	QTL
SB3484_R	TATGCTTTTCATGGAAATGTGTGG	QTL
SB24977_F	ACAGACAGACATGCACGAAGAAGG	QTL
SB24977_R	CATGGAAATCCGCGAGATACTTTTT	QTL
SB24991_F	GTCGCCACATCCTAAATCATCATAG	QTL
SB24991_R	GTTGGCCTGGTATGGCAAACTTTA	QTL
SSR4_3503_F	AGTCCCTGTCTGACTCCGATCC	QTL
SSR4_3503_R	GTTTAACTACACCACCCTCGACAT	QTL
SB25027_F	TCCGATGCTAAAAATGAGTTGTGC	QTL
SB25027_R	TAGACTAGAGGTCTGGCGGGAGAG	QTL
SB25034_F	GCCTCACAAACAACAAAATCAGG	QTL
SB25034_R	CCCATGTTGGGTTTCAACTCTAGC	QTL
SB3507_F	ACTCTTCTCTCTCCAGTCCCACG	QTL
SB3507_R	GCGCCTCTACAGGCTACAGGTATT	QTL
SB25093_F	GAGAGGGTGCAGGGAATAGGAATG	QTL
SB25093_R	TAGATCCATACCCCTTCAGGACCC	QTL
SB3517_F	CGAATCAGTTTTGTGCATCTTCGT	QTL
SB3517_R	AGTGCCGGAATCCTAGAAAGAAGG	QTL
SB25162_F	CGCGTAAGTCACCAACAAACACT	QTL
SB25162_R	AACCTGTCTTCAGCACCCAGATTTC	QTL
SSR5_3535_F	ATGAATGCGTGGAAGATGAAGGT	QTL
SSR5_3535_R	GTTTGCATTACGTAACGCTATCG	QTL
SB3547_F	AGACATCTCCCTCTCCATGATGCT	QTL
SB3547_R	GCCGCATCAGCAAAAATACCATAAA	QTL
SB3552_F	TCCACCTGGCTCTCACTTTCTAGG	QTL
SB3552_R	ATCATGCATGTCGTTTCTGATCGT	QTL
SB3564_F	TGAAAACAGGAGGAAGAGGAATCG	QTL
SB3564_R	CCAGAGAAACCATCTATGTGCGGTG	QTL
SSR2_3577_F	AGAAAAGGAGGTTCTCTGCTGCTT	QTL
SSR2_3577_R	GTTTACATCCACCCTTCTTTGGTCAAA	QTL
Xtxp145_F	AGTTCTCTGCCATTACT	QTL
Xtxp145_R	GTTTCTTCCGCACATCCAC	QTL
Xtxp274_F	AGAAAATTACAAATGTACCCCTAAAAGT	QTL
Xtxp274_R	GTTTACTCTACTCCTTCCGTCACAT	QTL
SSR5_3737_F	ACTGACAGAAACATGCATGGGGTTA	QTL
SSR5_3737_R	GTTTAAACGACGCACTTGGTCAGAAA	QTL
SSR4_3805_F	ACAAGTTGGAGTTTCTCAGCATCG	QTL
SSR4_3805_R	GTTTACCAAGGTATGCAGGGACCAC	QTL
SSR2_3870_F	ATAATAATGCTGCATGCTGAGTGCC	QTL
SSR2_3870_R	GTTTCCATTGTTTCTGATAGCTTGACAG	QTL

Xtxp159_F	ACCCAAAGCCCAATCAG	QTL
Xtxp159_R	GTTTGGGGGAGAAACGGTGAG	QTL
SSR5_3966_F	ATCAGTTCATCTCCTTTGGGTGC	QTL
SSR5_3966_R	GTTTACTTCCACAGGGTCCACAGCACAGTC	QTL
SSR5_4016_F	AGACAAGAGAAATCCCGTAAACCC	QTL
SSR5_4016_R	GTTTGTACCTCAACCAGACGCTCGTCAC	QTL
SSR2_4043_F	AGCAAATTTGGGGTGTACATCGT	QTL
SSR2_4043_R	GTTTGTGGTGGTTGTTGCTGTTGTTG	QTL
SSR5_4072_F	ACTACCTGCGGGTGAAGAGTGTGAT	QTL
SSR5_4072_R	GTTTGTAGTACGAACGTCTCGGCTTGTG	QTL
SSR3_4143_F	ATCTCCTTAATTACGACCGACCGA	QTL
SSR3_4143_R	GTTTCTCCATGGATCGACCCCTTTGT	QTL
SSR3_4197_F	ACGATCGAGTTTTCTTGTGGTGTTC	QTL
SSR3_4197_R	GTTTATGTCATCCATGTTGCTCTCTCT	QTL
SSR4_4230_F	ATTTCATCAACCCTTTGTCAACCCTT	QTL
SSR4_4230_R	GTTTGTGTAGAAATCACCGCTAACTGGG	QTL
Xtxp273_F	AGTACCATTAAATTGTTTGCAGTAG	QTL
Xtxp273_R	GTTTCAGAGGAGGAGGAAGAGAAGG	QTL
SSR4_4339_F	ACAAAAGGGGAAAGAAACCAAGCTC	QTL
SSR4_4339_R	GTTTCCACCACAAAGGGGAAAGGAAATA	QTL
SSR4_4358_F	AGCCTCCTCAGTCAAAAACCTCACA	QTL
SSR4_4358_R	GTTTGTGCTTCCCGTCTAGAATTAGC	QTL
SSR4_4433_F	AGCTTGTGGAGGGAAGTACCC	QTL
SSR4_4433_R	GTTTAGGCCACCAAGTAAGCAGTGTACC	QTL
SSR3_4470_F	ATGCAGACATCTGAATTACGGTGGT	QTL
SSR3_4470_R	GTTTCAGGGAAGACTGAACTACGGGAG	QTL
SSR2_4480_F	ACCATAGCTGCGAGCAACCTGAG	QTL
SSR2_4480_R	GTTTGTACGCTTTAGATGAGGCCAGAA	QTL
SSR5_4493_F	AGATGCAGACGACATGGCTAGAGAA	QTL
SSR5_4493_R	GTTTAAATTCGGTACCTCAATCGCC	QTL
Xtxp354_F	ATGGGCAGGGTATCTAACTGA	QTL
Xtxp354_R	GTTTGCCTTTTCTGAGCCTTGA	QTL
SSR2_4533_F	ACAAGGAGAGAGAGGGGGCAAAAG	QTL
SSR2_4533_R	GTTTACCGATCGTCTCTGCTGTCTA	QTL
SSR3_4586_F	ATCCTACGTAGCTACTCCAGCAGGC	QTL
SSR3_4586_R	GTTTCTGCAGGGTACGTAACTCCTACGC	QTL
SSR5_4642_F	ACAGAGAGGTGGAGGAGGCAGTTAG	QTL
SSR5_4642_R	GTTTATCATGTCCACCCACCTCTTTT	QTL
SSR4_4687_F	ATCATTTCATTACCCACCAAG	QTL
SSR4_4687_R	GTTTATGCAGCAAGTACACAACCTGGAC	QTL
SSR3_4688_F	ACTGTAAGCATGATGAAGGTGCTGG	QTL
SSR3_4688_R	GTTTAAAGAGGTGATGACAGGGATGGAG	QTL
SSR3_4706_F	ATTGCTTGCTCCTCCTGGGACT	QTL
SSR3_4706_R	GTTTGTGGCTTTGCCTAGCTTCTCTT	QTL
SSR3_4711_F	AGGACCTGCACCTTCGATGGTGT	QTL
SSR3_4711_R	GTTTGGGACGACGCTAACTGTCTCCTTA	QTL
SSR3_4715_F	ACAATTTCGAGAAGAGCTGGTAGTGG	QTL
SSR3_4715_R	GTTTGTGCGCGTGTGATGTGCAT	QTL
SSR3_4764_F	ATAATTAGTTAGGCCACACGCACA	QTL
SSR3_4764_R	GTTTGTAGGCTGACCGTCTTCTCTCTGT	QTL
Xtxp258_F	ACACCAAGTGTGCGCAACTGAA	QTL
Xtxp258_R	GTTTGTCTTAGTGTGAGCCTGACCCAG	QTL
SSR2_4795_F	AGACGACTGCACCTGTTGCTTGACT	QTL
SSR2_4795_R	GTTTCTTGACACCACCAAGAAACCACAG	QTL
Xtxp67_F	ACCTGACGCTCGTGGCTACC	QTL
Xtxp67_R	GTTTCCACACAAGATTCCAGGCTCC	QTL
SSR5_4851_F	ACAATCTTAAGGGGTCTACCGGGCA	QTL
SSR5_4851_R	GTTTATGAGAGGGGCATGTAATGTTGGT	QTL
SSR5_4888_F	ACGTCAAAGCAAGTTTCACTTAGAAC	QTL
SSR5_4888_R	GTTTCTCCACGCTGAATCTAATAACACATCA	QTL
SSR3_4902_F	ATACAAAGGGAATGCCTCTCTCC	QTL
SSR3_4902_R	GTTTACACACATCGAGGAAAATGTGGG	QTL
SSR5-5007_F	AGGAACTTGTGGTGTAGCAGA	QTL
SSR5-5007_R	GTTTGTGCTCTTCTGACTGTGAGTGA	QTL
SSR5-5031_F	ACTGCACCTTGCTTAGAACCCACTT	QTL
SSR5-5031_R	GTTTGGTATATATGGGGAAGCGTGCCTA	QTL
SB5019_F	AAAGAGAAGGGAGAGGGGAAAAAGC	QTL
SB5019_R	GTGGAGCTTGTCCGAGATCTGTCT	QTL
SB5028_F	TTGCATCCCTAAAAGCATTCTGTC	QTL
SB5028_R	GCCATTGATGGCTACGTAAATTCC	QTL
SSR2_5042_F	ACAGTAACCACCACCAGAACGCTT	QTL
SSR2_5042_R	GTTTGTGCTTCTTCCCTTGTGTCTT	QTL
SSR4_5057_F	ACCGGCACATTTACTCACTTCTCT	QTL
SSR4_5057_R	GTTTACGATCCACCGAACCAAGAGTT	QTL
SSR4_5059_F	ACAGTACTGTACGACGTAGGAGACGC	QTL
SSR4_5059_R	GTTTACTCCGGACGACGCTAATACAAG	QTL
SSR5_5061_F	ACAACCTCTCCATATCCGAGGTACG	QTL
SSR5_5061_R	GTTTGGGGGAACTCAATTATTCCTTTTG	QTL
Xtxp107_F	ACAAAGTGAGCGTGGTC	QTL
Xtxp107_R	GTTTGGACAGGGATAACATAACATA	QTL
SSR3_5111_F	ACAAACCAACCAGCCACTCTTTAT	QTL
SSR3_5111_R	GTTTGGGTTGTTCCATCAGATTCTTCT	QTL
SSR5_5159_F	ATATGCTTCCAATACAGAGGGACCG	QTL
SSR5_5159_R	GTTTGTACGCCAGGAGATGTGATATGG	QTL
SSR5_5216_F	ACATGTCTTGTGATGTGATGTCT	QTL
SSR5_5216_R	GTTTCCACCATCGGTTTCTAGCTG	QTL
SSR3_5242_F	AGCTACAAACATCTGAGACTGCGCA	QTL
SSR3_5242_R	GTTTACAGAGGACCCCTGTTGTTGTAT	QTL
SSR3_5298_F	ACCTGTAAACGCTGCCGTACAC	QTL
SSR3_5298_R	GTTTGTACCTCTTCATCCTTGTGCTT	QTL
SSR2_5303_F	AGAGAGAGGGGAAAGAAAAAGGGC	QTL
SSR2_5303_R	GTTTGTCCACATCGATTCTGCTCTCT	QTL
SSR5_5423_F	ATCCGCTATAAATTGGAGAGACCC	QTL
SSR5_5423_R	GTTTAGCCGACGTAAGCTCACTAGGAAA	QTL
SSR5_5460_F	AGAGAACGAGACTGAAGGTTGGAA	QTL
SSR5_5460_R	GTTTGTGCCCCCTTAAACTTCTGCTCT	QTL
Xtxp141_F	ATGATGCGCTAGCTTATCT	QTL
Xtxp141_R	GTTTCAACAAGCCAACTAAA	QTL
SSR2_5529_F	ACAGCAAATTTTCAGGTGGTTTTGAC	QTL
SSR2_5529_R	GTTTATATATCTCTGCGTGAACGGCT	QTL
SSR2_5543_F	ACAACCCCTTGAACCTCAAGAAAGC	QTL
SSR2_5543_R	GTTTAGTGCCAATCCTCTCTCACTCCAC	QTL
SSR3_5556_F	AGCTTCAAAGATGGCCAAAACAGA	QTL
SSR3_5556_R	GTTTGCAGAGCCACAAGTCAAGGTGTTA	QTL
SSR2_5560_F	ACCACAGATCGATTTTTCAGAGGC	QTL
SSR2_5560_R	GTTTCCAGCCTCTAACTCCCTACCACCT	QTL
SSR4_5576_F	ACACGTGTTCTGCTGTTCTCATG	QTL

SSR4_5576_R	GTTTCTCATCACGGATTACGATACAGC	QTL
Xcup07_F	ACTAGAGGATTGCTGGAAGCG	QTL
Xcup07_R	GTTTCTGCTGCTTGTGCTTGAG	QTL
SSR2_5603_F	ACAATTCTGCTGCACACTTCAGATGC	QTL
SSR2_5603_R	GTTTCTGCGACCGTCTCACAACAATTAG	QTL
SSR_chr.9_57167_25_F	GTTTCTGCTGCTGGAGAGGTGCTGG	fine mapping
SSR_chr.9_57167_25_R	GCCCCGCATCCAAATTCCTAATCCC	fine mapping
SSR_chr.9_57184_F	GGCCTAGATTGTTTCATGATA	fine mapping
SSR_chr.9_57184_R	TAAACACGGCCCTAAGTCGAT	fine mapping
SSR_chr.9_57191_F	CTAGGTTAAAGCCGTCGGCC	fine mapping
SSR_chr.9_57191_R	AACCCTAACGAGTGGAGGAC	fine mapping
SNP_57209seq_F	GGCAGTACGTACAATCAAG	fine mapping
SNP_57209seq_R	ATAATGCGCGTATGCACCTG	fine mapping
SNP_57211seq_F	TCCTGCAGCACGTACTTCTTG	fine mapping
SNP_57211seq_R	GATCTAGAGGTCTTCCATTG	fine mapping
SNP_57211_Xbal_F	TTCGCTGTGGCCATATGC	fine mapping
SNP_57211_Xbal_R	AAGGCATGTTATGCTCTTGTGGCAGTCT	fine mapping
SNP_57225_Mbol_F	AGGCGCCAGAATGACTAGAG	fine mapping
SNP_57225_Mbol_R	GGAGGAGGAAGGCCACGGCGATGACCCGGAT	fine mapping
SSR_chr.9_57227_F	GTACTACCTGCTGTTGCTCG	fine mapping
SSR_chr.9_57227_R	CTTCTGTACAATACGGGTTG	fine mapping
57241seq_F	CGGAGCGTCTGAGATCTGAC	SNP sequencing
57241seq_R	CCCAGCATTGAATTGGGAC	SNP sequencing
TA57249seq_F	GATGATCGGTGGAGATAGTC	SNP sequencing
TA57249seq_R	ATGGATGCACATCTGTCAG	SNP sequencing
TA57249seqb_F	GAGATAGTCTTACGGCTAGG	SNP sequencing
TA57249seqb_R	CTCTCTTATGAATCTGTCAG	SNP sequencing
TT57259seq_F	CTTCCAGCTGCATGCAATG	SNP sequencing
TT57259seq_R	TTAATTAGCCGTAGCATTGG	SNP sequencing
SSR_chr.9_57337_F	TGACGCTTCGGTCCAACCAAG	fine mapping
SSR_chr.9_57337_R	AACACAGGATGAGGACCATG	fine mapping
SbYUC7_F2	CTAGCTCATCGTTCACCCACC	fine mapping
SbYUC7_R1	GGGAGAAGAGACTGTCCATTG	fine mapping
Sb09g028270_F1	ATTTGACAGTGGATCTGATC	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_R1	GAACATACGAAATGTTAGTG	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_F2	ACACCTGGGATAATCCTTGC	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_R2	TGAACCACCAGAATAGGCTG	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_F3	CCAGATGTTCCATATGCTCG	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_R3	ACCTTTGAACACGTCCAAAGC	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_F4	GATAAATCATGTGCTCACGC	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_R4	GATTGATTGTGTTACACAAG	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_F5	GGCAGTACGTACAATCAAG	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_R5	ACTGAAGACATCTCTGACTG	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_F6	AGGAGTTACTACAATCTGAG	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_R6	CAAATAATCTACGTGCTTCT	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_F7	CGTGTCTGACTACTCAGATC	sequencing (<i>Sobic.009G229800</i>)
Sb09g028270_R7	GCACATGCTTCTCATGACG	sequencing (<i>Sobic.009G229800</i>)
09g028310_1F	GGCGACTGTTCAACTCAA	sequencing (<i>Sobic.009G230200</i>)
09g028310_1R	GGCCGTACACTTGATAAATC	sequencing (<i>Sobic.009G230200</i>)
09g028310_2F	ATTACGAGAAATATTCAAG	sequencing (<i>Sobic.009G230200</i>)
09g028310_2R	GCCCGAGATTGGCATCTCAG	sequencing (<i>Sobic.009G230200</i>)
09g028310_3F	AGAGTAGTAGTTAGATTG	sequencing (<i>Sobic.009G230200</i>)
09g028310_3R	CCTTGCCATGGCGCATAACG	sequencing (<i>Sobic.009G230200</i>)
09g028310_4F	CTACTTCCGAACCGCTTCCG	sequencing (<i>Sobic.009G230200</i>)
09g028310_4R	AGGTTACGAAACGGGTACAG	sequencing (<i>Sobic.009G230200</i>)
09g028310_5F	GTTTCATCATGTTCCGGCGGTC	sequencing (<i>Sobic.009G230200</i>)
09g028310_5R	CAAGGTGACCTTACGCTCGG	sequencing (<i>Sobic.009G230200</i>)
09g028310_6F	GCCGTACCTCAGCGATGATG	sequencing (<i>Sobic.009G230200</i>)
09g028310_6R	GGACCAGAATGAAACATCCA	sequencing (<i>Sobic.009G230200</i>)
09g028275_ex1_RT_F	TCAGAAGGTGGATAAATCATGTGCCTACGC	RT-PCR
09g028275_ex2_RT_R	CTCGATTCTTGCATCTGAGCAAGAATGGCC	RT-PCR
028280ex2_RT1_F	CTCTGCTCTTCCCCTGTCCA	RT-PCR
028280ex4_RT2_R	TCATTTGTAGATCTGACGC	RT-PCR
09g028290_3'UTR_RT_F	ACCGTGAAGCGGGCGTGGAGATACTGGAG	RT-PCR
09g028290_3'UTR_RT_R	TCGTGCCCTGTACCGGCCAGACAGGTAC	RT-PCR
09g028300_3'UTR_RT_F	GACCCGCGAAGGAAGCTAAGTGGCAAGAC	RT-PCR
09g028300_3'UTR_RT_R	GCCAGAACCACGACCTTCAGAGTTTCAG	RT-PCR
09g028310_ex1_RT_Fb	CATGGCAAGCCGCTCATGTTCCGATACCAGC	RT-PCR
09g028310_ex2_RT_R	CAGCCAGTCCGAGGTGTCGCACGGCTCAG	RT-PCR
sb_01g030340_F	GGTTCGGGAGGTGGCCTAGGT	RT-PCR (<i>sorghum ubiquitin</i>)
sb_01g030340_R	AGCATGTACATTCACAGCGGTA	RT-PCR (<i>sorghum ubiquitin</i>)
Sb_PRR37_F1	GCTTATTTGACATGGCAATG	sequencing (<i>SbMa1</i>)
Sb_PRR37_R1	GACAGCATAGAGCTGTGAAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F2b	GCTAGCTAGGAATAAGTTAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R2b	ACCGTTAGAGCAGAATAATG	sequencing (<i>SbMa1</i>)
Sb_PRR37_F3	CACGGAACGAGTGTGGTTGG	sequencing (<i>SbMa1</i>)
Sb_PRR37_R3	CACCATCGTCATCCTCTGG	sequencing (<i>SbMa1</i>)
Sb_PRR37_F4	ACTAATCTCGACGAACTACG	sequencing (<i>SbMa1</i>)
Sb_PRR37_R4	GGATGATGCTTCGGAATAAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F5c	GCCACCTCTGACACGTAG	sequencing (<i>SbMa1</i>)
Sb_PRR37_R5c	CTAACTCAGATAGCTAGGTG	sequencing (<i>SbMa1</i>)
Sb_PRR37_F6	GCCACTACGATAGTATATAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R6	ATCCTCCTTGGACCATGCAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F7	CGGCAAGAGGATAGATCTAG	sequencing (<i>SbMa1</i>)
Sb_PRR37_R7	AGAGAAGCCAAAGTCTCTTG	sequencing (<i>SbMa1</i>)
Sb_PRR37_F8	ACTGTTCTCCAACAATAAGC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R8	TCTTGCCATATCACAGGACAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F9	GACTTTGAATCTTTAAGGCC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R9	ATGGTATACTACTCTTTCGC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F10	GGTAAGAATGAAATACCTC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R10	ATAGTGTGAGTCTCTTCGCC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F11	TCTAATACTCTTACCCTTG	sequencing (<i>SbMa1</i>)
Sb_PRR37_R11	GTCAAACCTTACCCTTGTGG	sequencing (<i>SbMa1</i>)
Sb_PRR37_F12	CATAGGTTTGGCTACCATAG	sequencing (<i>SbMa1</i>)
Sb_PRR37_R12	CCGTCTCCATACATGCTGCC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F13	TGGAATGATGCTAGGAATAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R13	AGAATTCACCTGCAGACCTAG	sequencing (<i>SbMa1</i>)
Sb_PRR37_F14b	TGGTCAATCCACATAGCAGC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R14b	TCTCGTACGGCATTCCATGC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F15	GTATTCGAGAAATAGTGTAC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R15	GAAGTCGTGGAATCAACC	sequencing (<i>SbMa1</i>)
Sb_PRR37_F16	TGGTACTGATTCACCTAATGC	sequencing (<i>SbMa1</i>)
Sb_PRR37_R16	AGGGCAACATTACCCTGTCC	sequencing (<i>SbMa1</i>)

Sb_PRR37_F17	AATGACATGGGTTCCACTAC	seqencing (<i>SbMa1</i>)
Sb_PRR37_R17	AGTCCTGCCCAATATAATGC	seqencing (<i>SbMa1</i>)
Sb_PRR37_F18	TGCATGTTTGTGGTTCAGGC	seqencing (<i>SbMa1</i>)
Sb_PRR37_R18	AGCTAACACAACCTGCTGTTT	seqencing (<i>SbMa1</i>)
Dw3_F1	GCTCTGCGCCAGCCACTCTG	seqencing (<i>Dw3</i>)
Dw3_R1	TGAGCGACTGATGTGATTG	seqencing (<i>Dw3</i>)
Dw3_F2	CGTCCTCATGGGCAGGTAAC	seqencing (<i>Dw3</i>)
Dw3_R2	CGATCATGACGGAGAACATG	seqencing (<i>Dw3</i>)
Dw3_F3	TGGGTCACCGCAGCGGCTTC	seqencing (<i>Dw3</i>)
Dw3_R3	AATGTACGCCTGCTACAGTG	seqencing (<i>Dw3</i>)
Dw3_F4d	GAGTAGGAGTGGTTCAATTG	seqencing (<i>Dw3</i>)
Dw3_R4d	GGCAGGCAGGCATGGTGGTC	seqencing (<i>Dw3</i>)
Dw3_F5	GCAATGCTCGCATGCCATG	seqencing (<i>Dw3</i>)
Dw3_R5	ACTCGGGCGAGTTCATCCTG	seqencing (<i>Dw3</i>)
Dw3_F6	TTTCCACCTCCGACTTCAC	seqencing (<i>Dw3</i>)
Dw3_R6	TCTTGCCTCCGCGTTGAAC	seqencing (<i>Dw3</i>)
Dw3_F7	TCCGTCATCGTCCAGAACTC	seqencing (<i>Dw3</i>)
Dw3_R7	GCCCGCAGGTTGTACTTGCG	seqencing (<i>Dw3</i>)
Dw3_F8b	AGCACGTGGACTTCTCGTAC	seqencing (<i>Dw3</i>)
Dw3_R8b	TGCGATCATGGAGTACCATC	seqencing (<i>Dw3</i>)
01g0103800RNAi_EcoRV_F	CGATATCGCCAATCCAACAAAGTGCG	RNAi construction
01g0103800RNAi_SmaI_F	TCCCCCGGGCCCAATCCAACCAAGTGCG	RNAi construction
01g0103800RNAi_XbaI_R	GCTCTAGAGACCTTTGCTCAGGGATGGCG	RNAi construction
01g0103800RNAi_SpeI_R	GGACTAGTGACCTTTGCTCAGGGATGGCG	RNAi construction
09gRNAicheck_F1	C CGGATGCGCAGCGAAGCG	RNAi construction
09gRNAicheck_R1	CTGAGGCTCGTTAGCATAGC	RNAi construction
5-liker_MCS-Nos 3 UTR_F	TGTGAATTACAGGTGACCAGCTCG	RNAi construction
5-Nos 3 UTR_R	TATCGCGTATTAATGTATAAATTGC	RNAi construction
Os01g_RT_F	TTTTCCGGAGAATGTGACCCGC	RT-PCR (<i>Os01g0103800</i>)
Os01g_RT_R	AATTAGGTGATTGGGCAAGTC	RT-PCR (<i>Os01g0103800</i>)
Os03g_RT_F	GAATGTGACCCGAGCAACCG	RT-PCR (<i>Os03g0270700</i>)
Os03g_RT_R	AGAAGGACGCCGAGAAAGAT	RT-PCR (<i>Os03g0270700</i>)
Actin_F	CATCTTGGCATCTCTCAGCAC	RT-PCR (rice actin)
Actin_R	AACTTTGTCCACGCCTAATGAA	RT-PCR (rice actin)
SSR_chr.9_57179_F	TAAGATTCTCCGTACATAG	NIL genotyping (<i>Dw1</i>)
SSR_chr.9_57179_R	ATAGACCGTAAAGTTGCACG	NIL genotyping (<i>Dw1</i>)
SSR_chr.9_57354_F	TTTCGGATACTGTAACCGAC	NIL genotyping (<i>Dw1</i>)
SSR_chr.9_57354_R	TTTAGAGATTGCTGTCGC	NIL genotyping (<i>Dw1</i>)
SSR3_4143_F	ATCTCCTTTAATTACGACCGACCGA	NIL genotyping (<i>Dw3</i>)
SSR3_4143_R	GTTTCTCCATGGATCGACCCTTTTGTT	NIL genotyping (<i>Dw3</i>)
SSR3_4197_F	ACGATCGAGTTTTTCTTGTTGTTCT	NIL genotyping (<i>Dw3</i>)
SSR3_4197_R	GTTTCATGCATCCATGTTCTGCTTCTCT	NIL genotyping (<i>Dw3</i>)
BAR_RBCTer_F	CGACTCTAGAGGATCCATGGCAATTACCTTATCCGC	Sorghum complementation
BAR_RBCTer_R	GCAGGTGACGGATCCCAACATATAGTAGATGCGGAC	Sorghum complementation
pUbiin_BAR_RBCTer_F	TGGGCGCGCCGGGCTGCAGCGTGACCCGGTGC	Sorghum complementation
pUbiin_BAR_RBCTer_R	TATGGAGAAACTCGACAACATATAGTAGATGCGGAC	Sorghum complementation