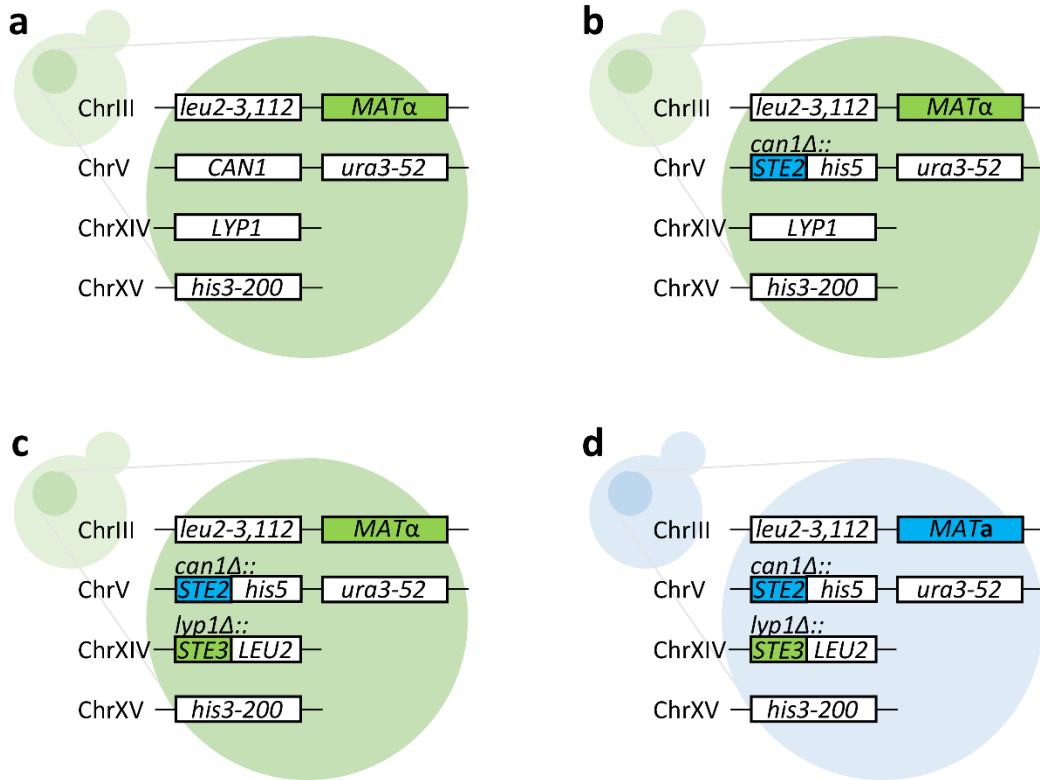


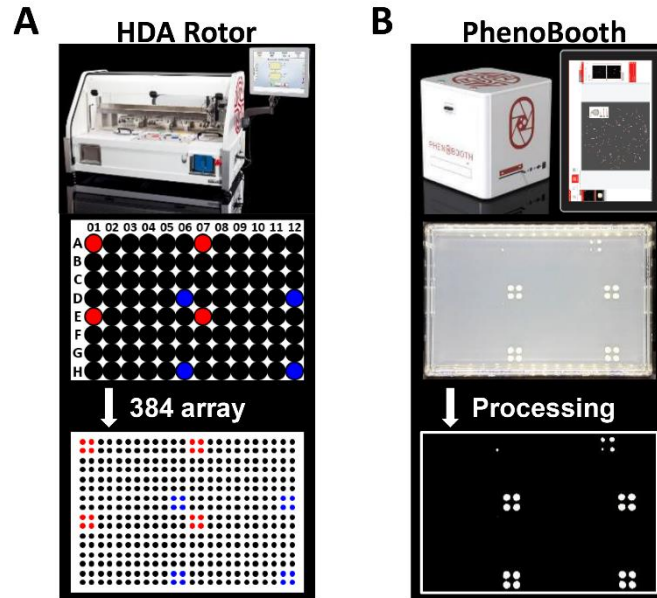
Supplementary Information



Supplementary Figure 1

Construction of the Y1HGold-MM strain

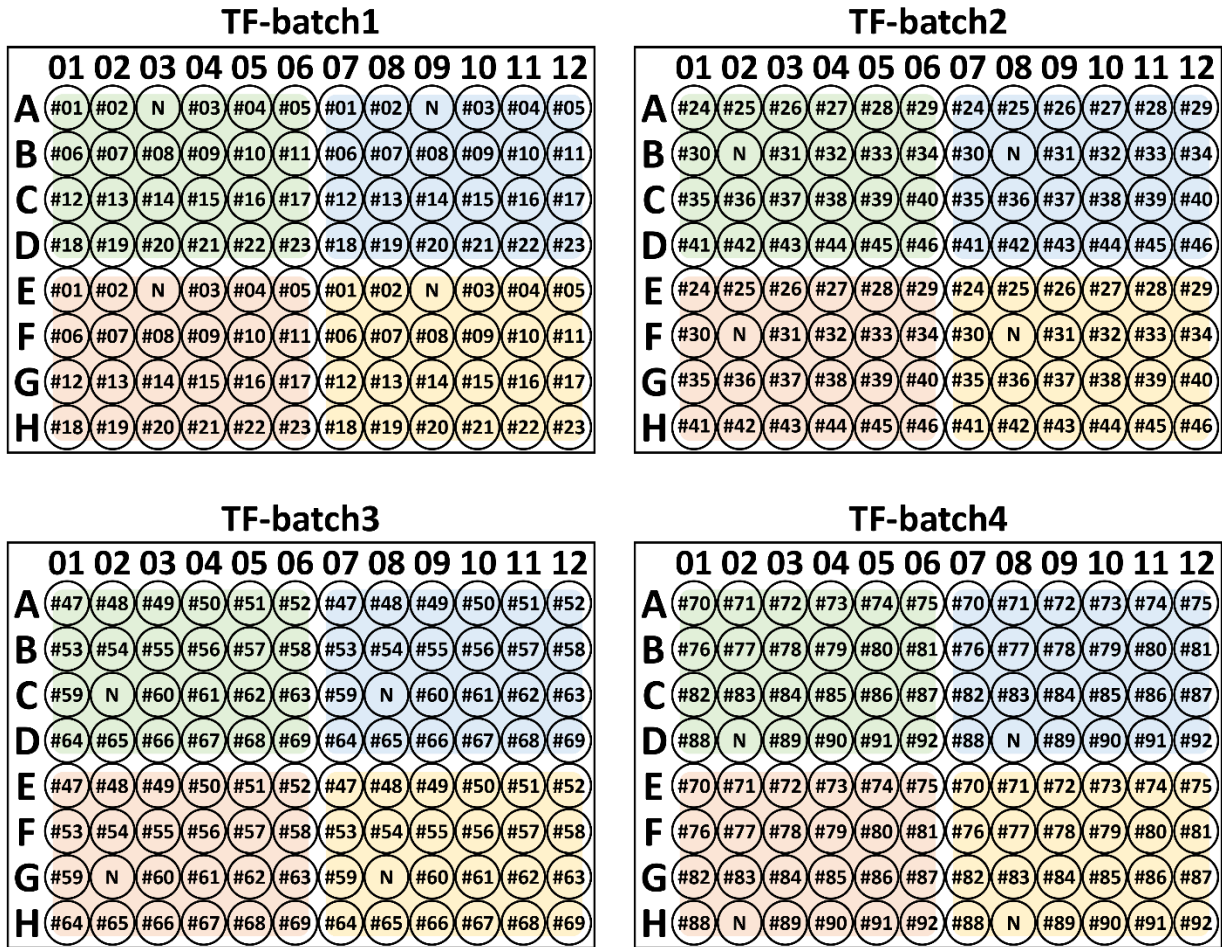
See Online Methods for details. (a-c) Magic marker *MM α* is a *his5* gene from *S. pombe* under the control of the *STE2* promoter (blue) and is expressed specifically in *MAT α* cells. It was chromosomally (Chr) integrated into the commercial Y1HGold strain (light green stands for *MAT α*) (a) at the *CAN1* locus (b). Magic marker *MM α* is a *LEU2* gene placed under the control of the *STE3* promoter (green) and is expressed specifically in *MAT α* cells. It was chromosomally (Chr) integrated into (b) strain at the *LYP1* locus (c). The (c) strain's mating type was switched into *MATa* by replacing the *MAT α* locus with the *MATa* cassette, resulting in Y1HGold-MM strain (d) (light blue stands for *MATa*).



Supplementary Figure 2

Diagram of the high-throughput Y1H screening procedure.

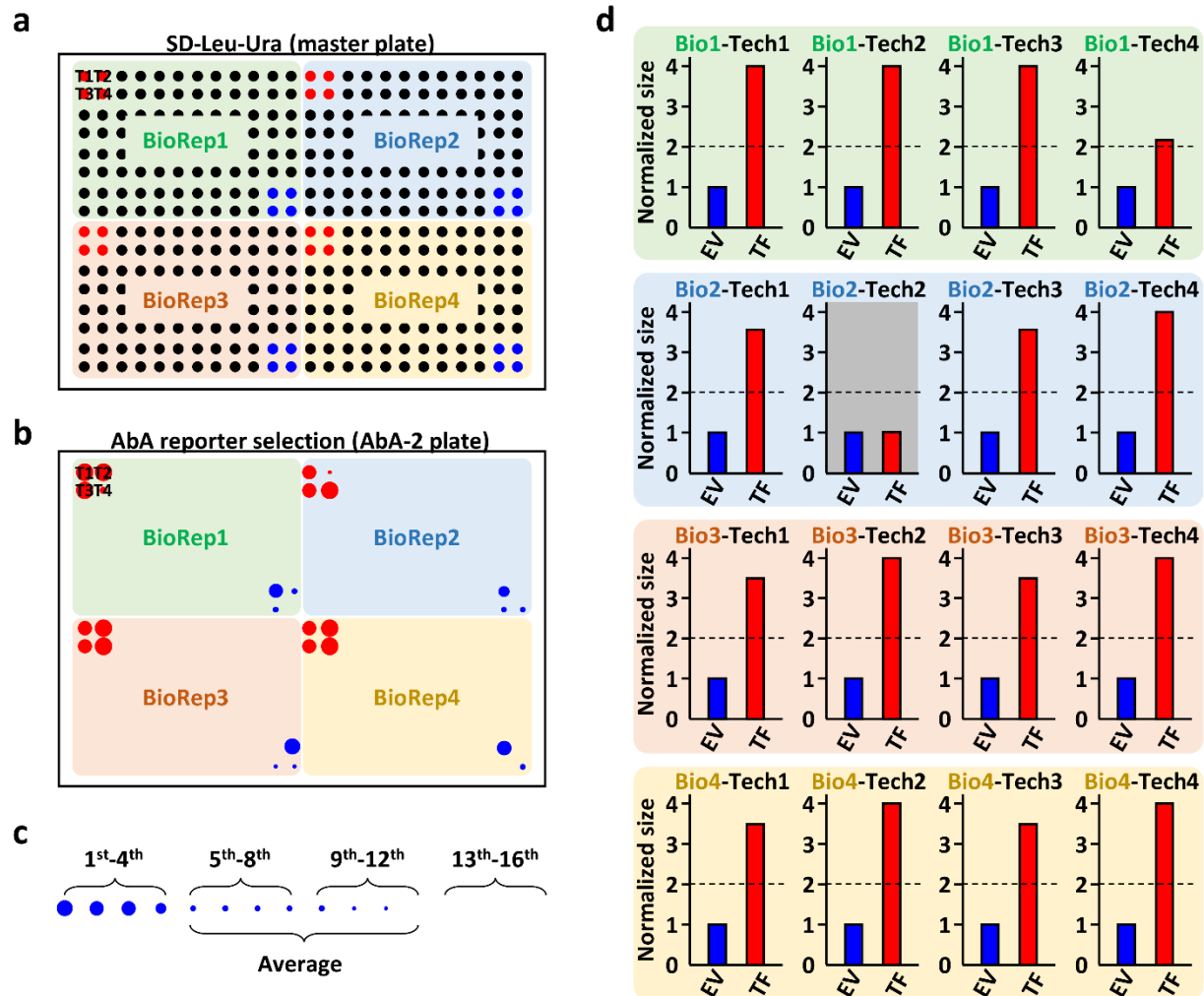
(A) The HDA rotor (Singer) was used to transfer cells by pinning. (B) PhenoBooth Colony Counter (Singer) was used to capture the images of the grown colonies on AbA-2 plates and for data processing.



Supplementary Figure 3

Experimental arrangement of 4 batches of TFs

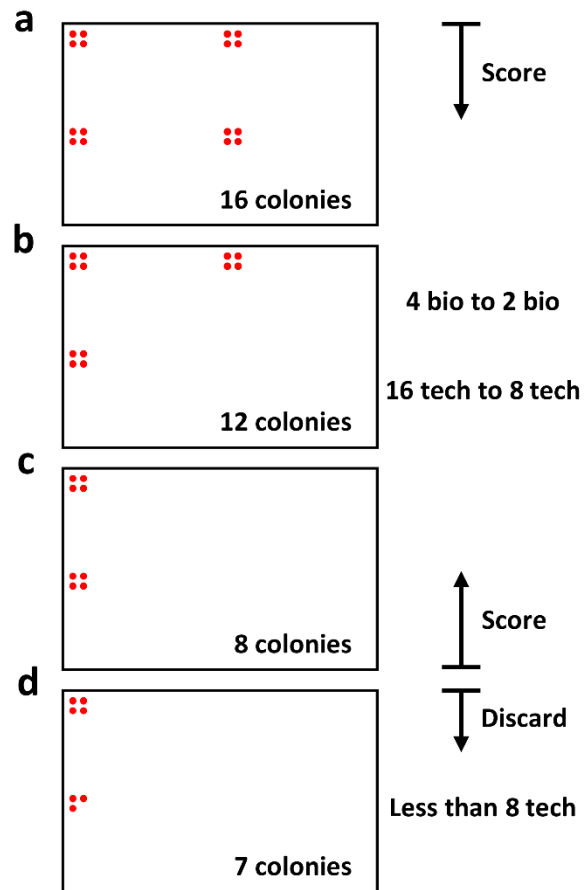
TF-batch1 (TF#01 to TF#23), TF-batch1 (TF#24 to TF#46), TF-batch1 (TF#47 to TF#69), TF-batch1 (TF#70 to TF#92). N (negative control) was arranged randomly in each of the batches.



Supplementary Figure 4

Diagram of data processing and scoring

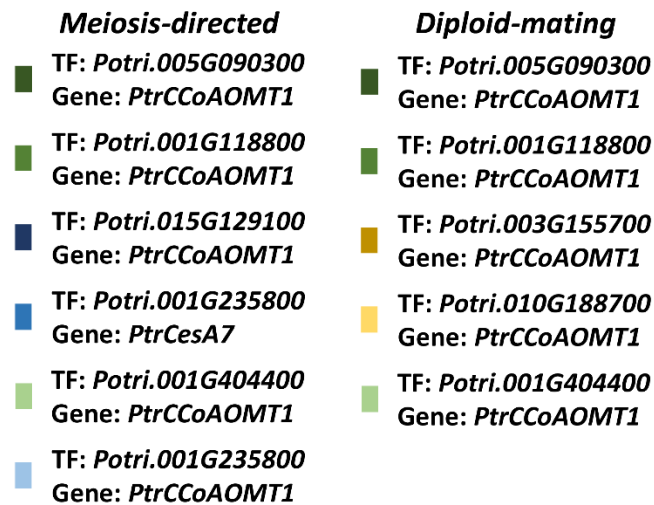
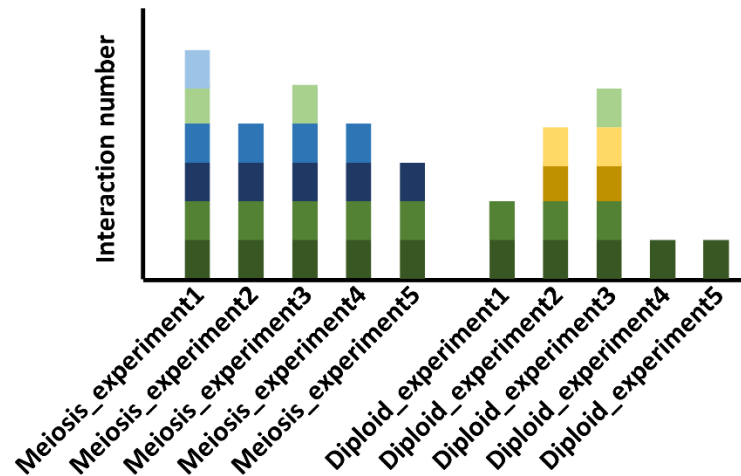
See Online Methods for details. **(a)** A representative master plate. **(b)** An example of the AbA-2 plate illustrating the negative controls (blue colonies) and a hypothetical TF-DNA interacting events (red colonies). **(c)** The colony-size values of the negative controls were first ranked. Values from the 5th to the 12th ranks were averaged as the threshold value [blue bars in **(d)**]. **(d)** The two-fold threshold-value was taken as a cut off (horizontal dash line) to judge whether other colonies (red bars) on the same plate grew or not. In this example, the second technical replicate from the second biological replicate (Bio2-Tech2) was evaluated as a negative event (highlighted in grey background).



Supplementary Figure 5

Defining the positive TF-DNA interactions

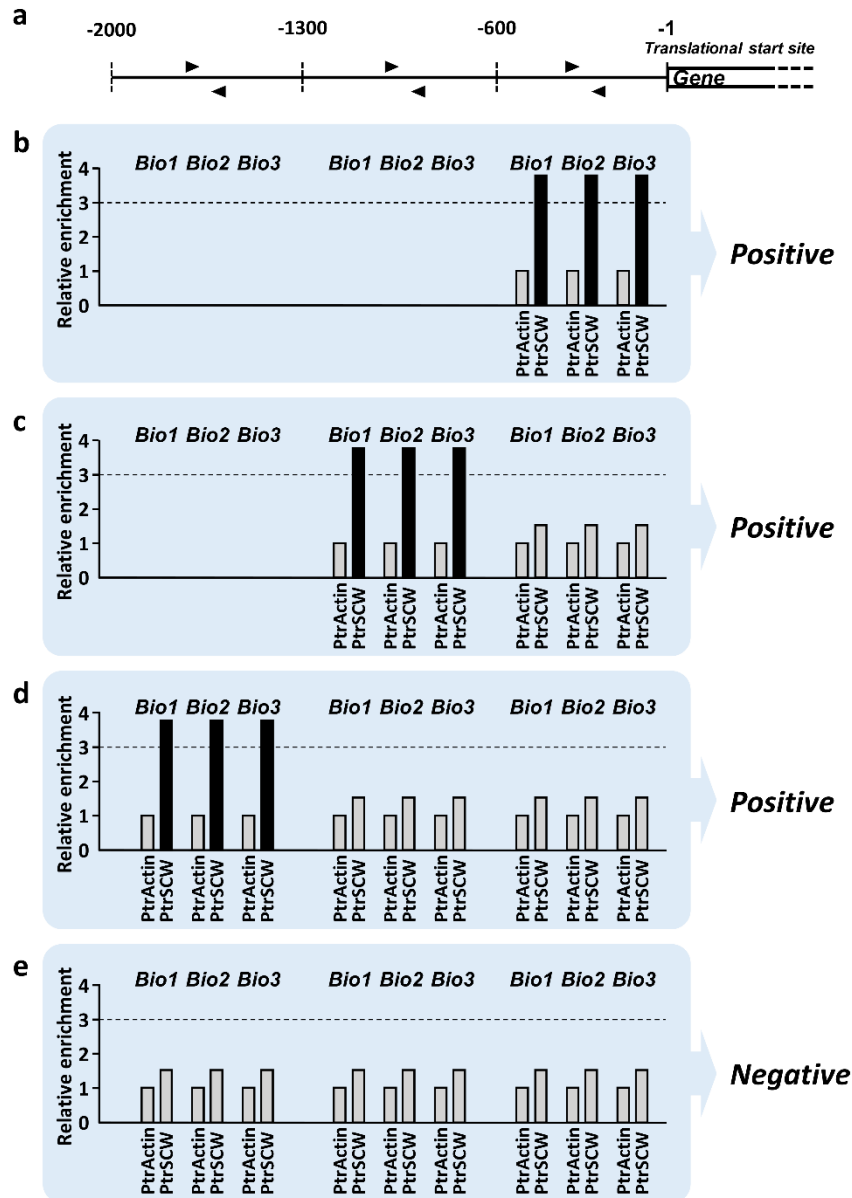
See Online Methods for details. **(a-c)** Scenarios classified as positive interactions. **(d)** A scenario of no-interaction assignment, because less than 8 colonies grown on the AbA-2 plate.



Supplementary Figure 6

Reproducibility test of the meiosis-directed and diploid-mating systems

Five independent experiments were performed to examine the reproducibility of the meiosis-directed and diploid-mating systems using *PtrCCoAOMT1* and *PtrCesA7* promoters against 46 TFs, which represents a total of 92 possibilities. A color block represents a single TF-DNA interaction event identified by either system. For example, meiosis_experiment1 identified six interaction events, among them five were also uncovered in meiosis_experiment3.

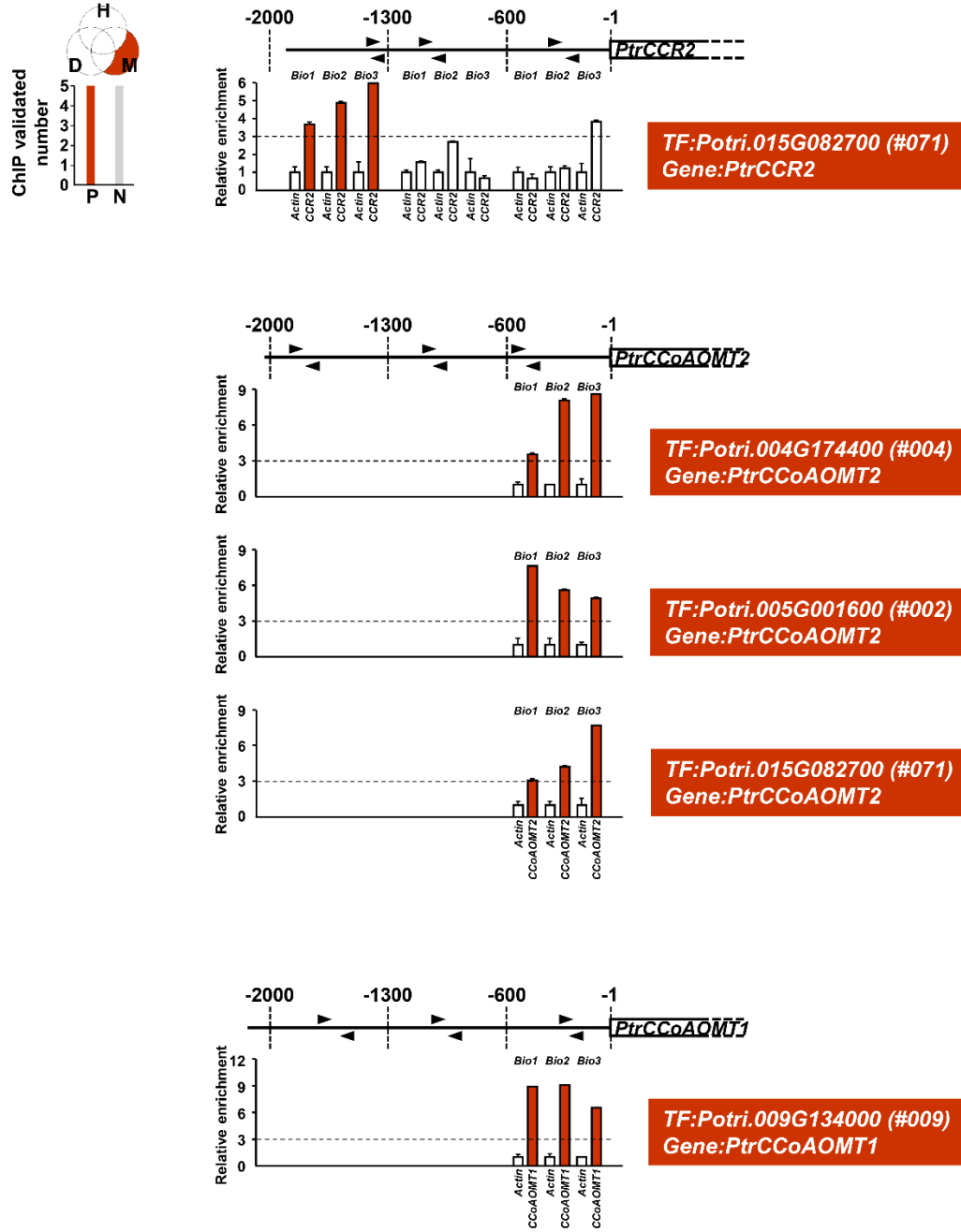


Supplementary Figure 7

ChIP validation of TF-DNA interactions scored in all Y1H systems

(a) Each DNA-bait was divided into three regions, namely, -1 to -600, -600 to -1300, -1300 to -2000 (counted from the translational start codon) for ChIP validation. Primer sets are shown (black arrows). (b) ChIP-qPCR was done initially within the range of -1 to -600. In this hypothetical scenario, qPCR enrichment of the *PtrSCW* (Secondary Cell Wall genes) is more than 3 folds over that of the *PtrActin* (control) in all three biological replicates (Bio1–3), thus classified as a positive validation. (c–d) Should (b) yield a negative result, the same process was repeated in the range of -600 to -1300. Likewise, the process was repeated, if necessary, in the range of -1300 to -2000. (e) A scenario in which a Y1H scored interaction could not be validated by ChIP.

A

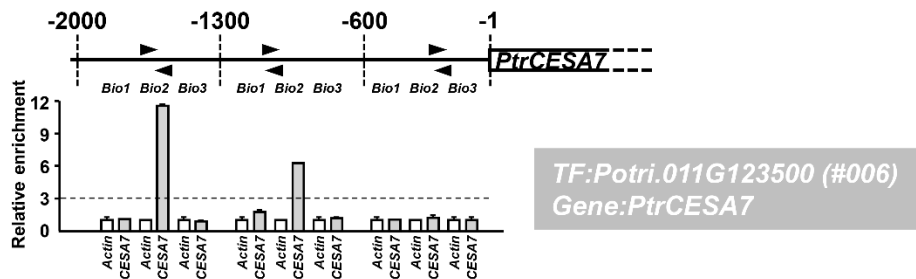
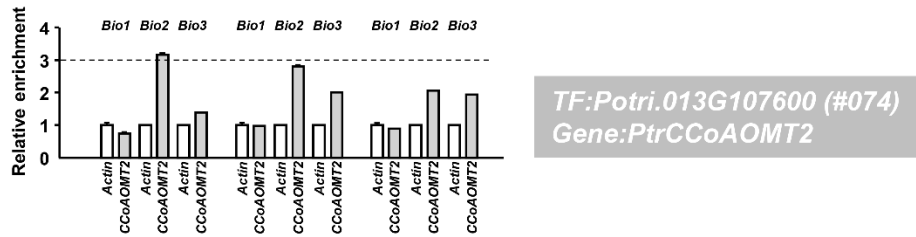
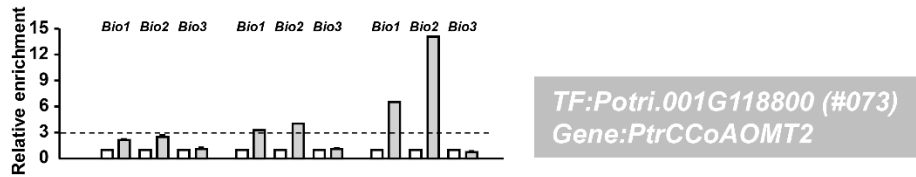
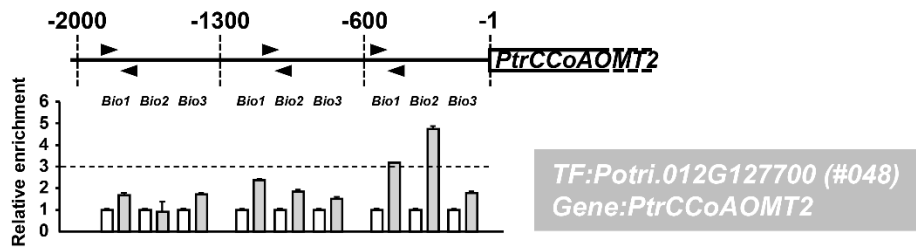
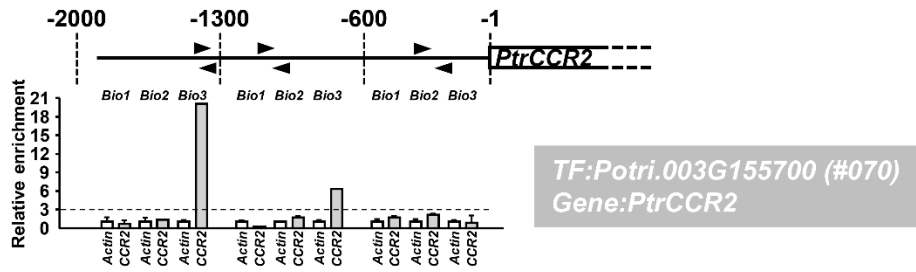
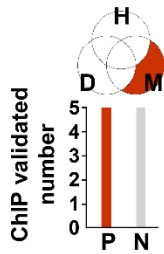


Supplementary Figure 8

ChIP-qPCR validation

ChIP-qPCR was used to validate the TF-DNA interactions identified in (a) meiosis-directed system, (b) haploid-transformation system, (c) diploid-mating system, (d) both meiosis-directed and haploid-transformation systems, (e) all three Y1H systems, (f) haploid-transformation and diploid-mating systems. ChIP positive TF-DNA interactions (text boxes in yellow, red, and brown); ChIP negative interactions (grey text boxes).

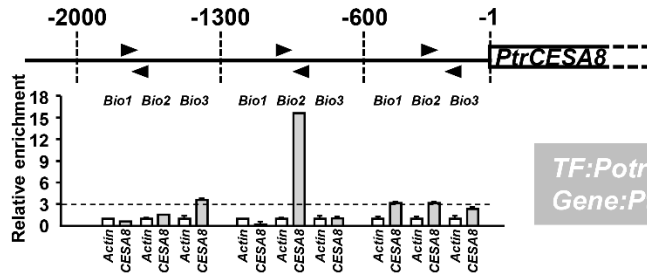
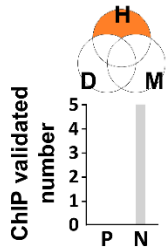
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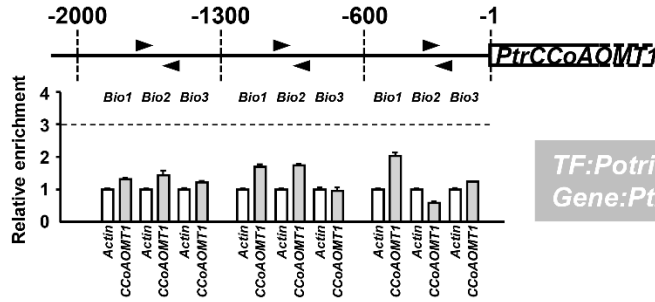
Supplementary Figure 8

Continued

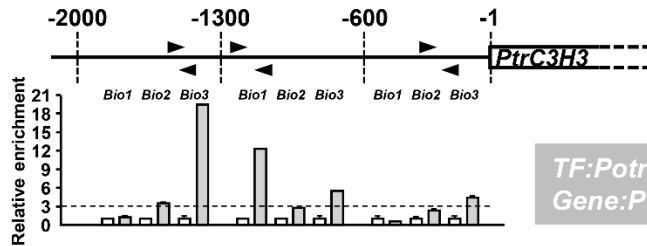
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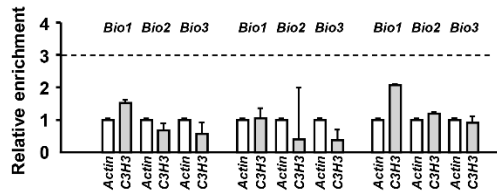
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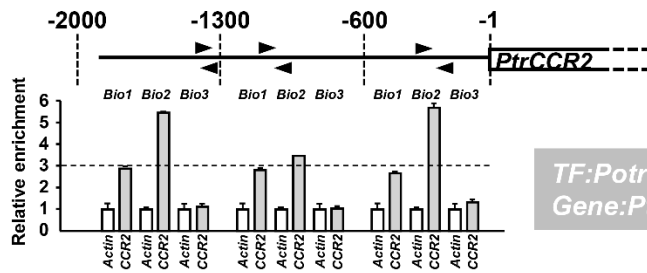
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Gene:PtrCCoAOMT1



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Gene:PtrC3H3



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Gene:PtrC3H3

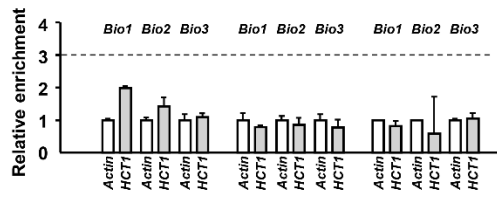
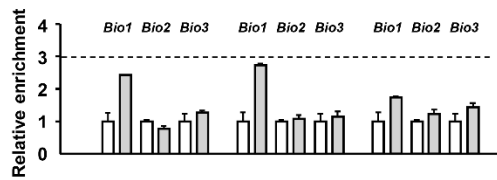
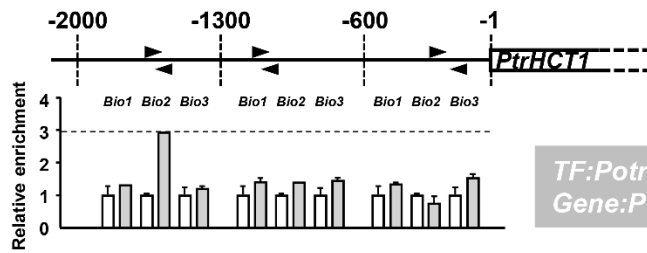
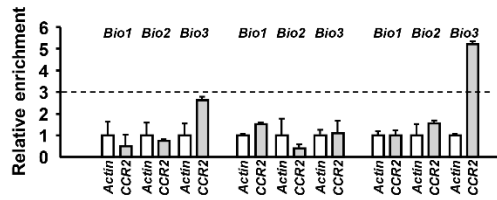
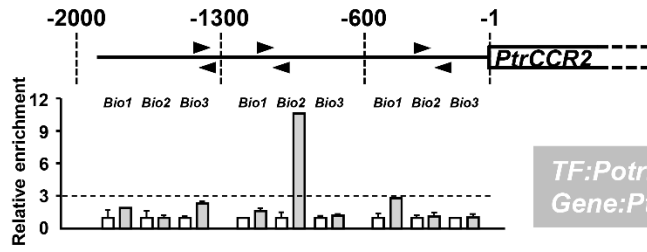
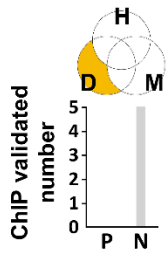


TF:Potri.007G070900 (#084)
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Supplementary Figure 8

Continued

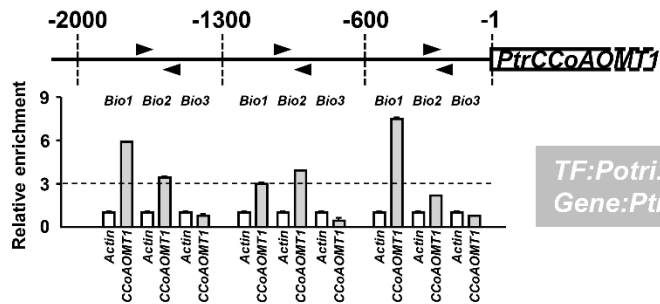
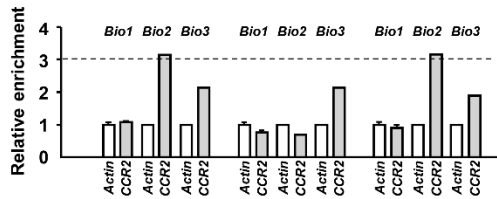
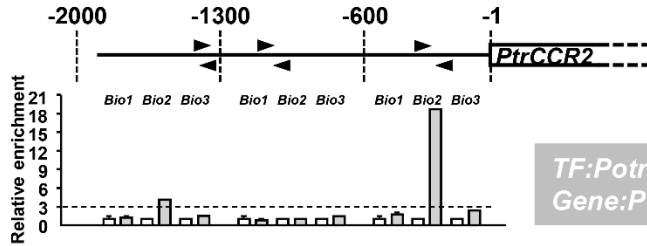
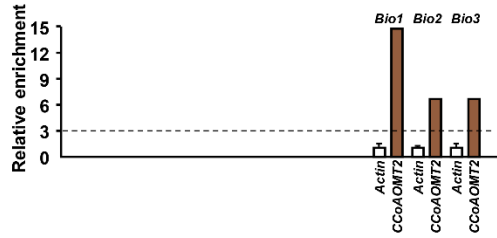
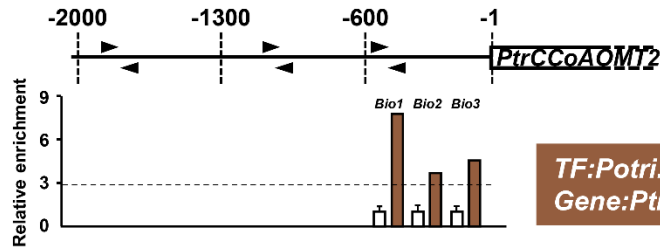
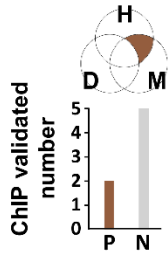
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Supplementary Figure 8

Continued

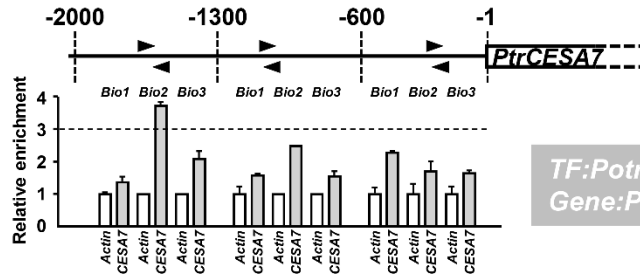
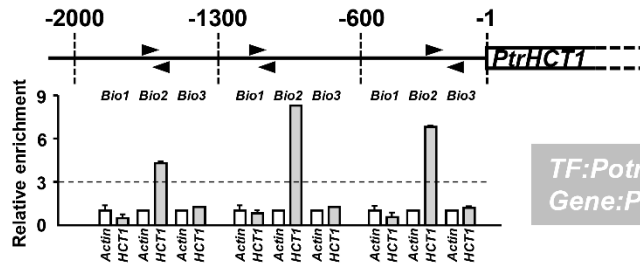
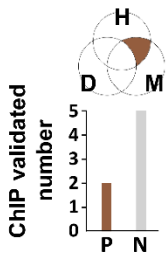
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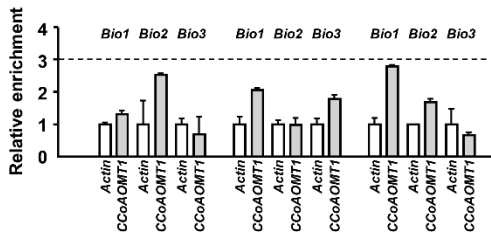
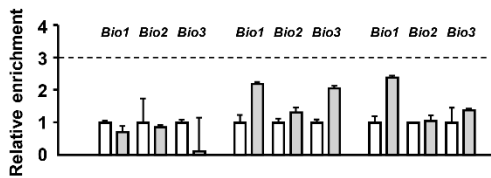
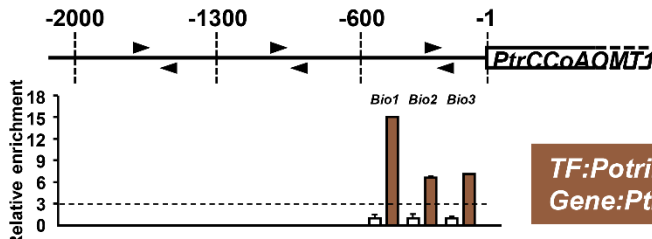
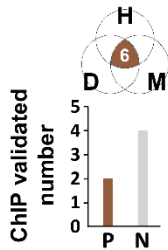
Supplementary Figure 8

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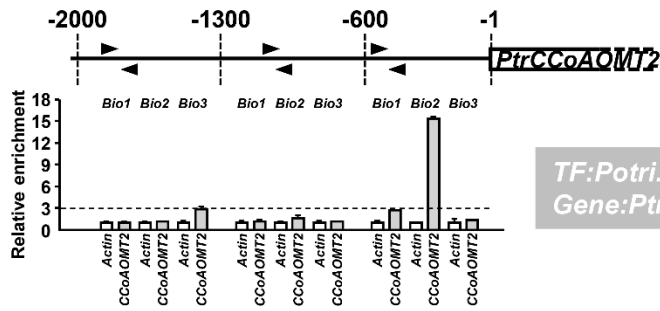
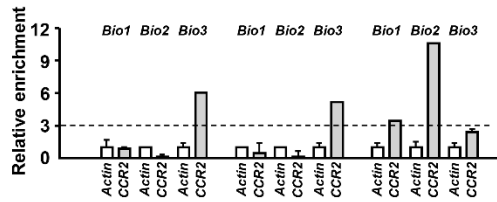
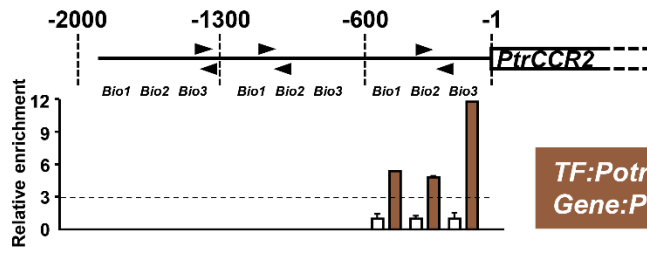
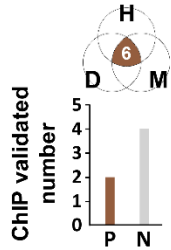
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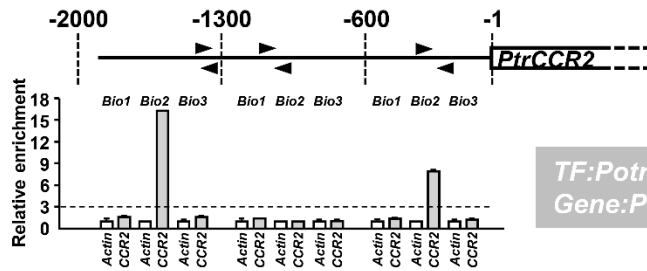
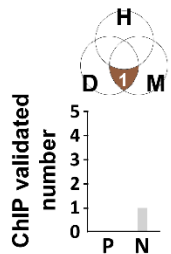
Supplementary Figure 8

Continued

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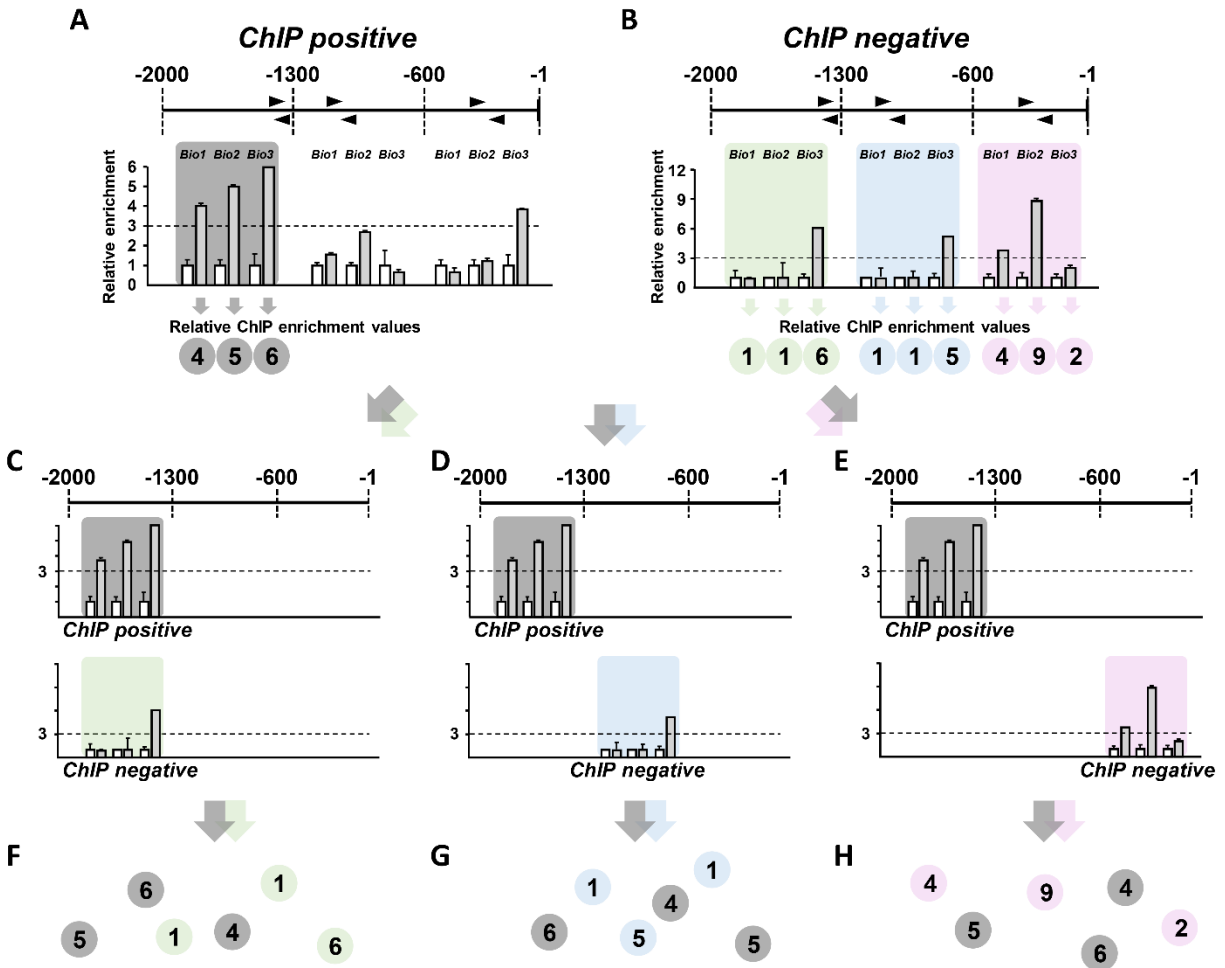


F



Supplementary Figure 8

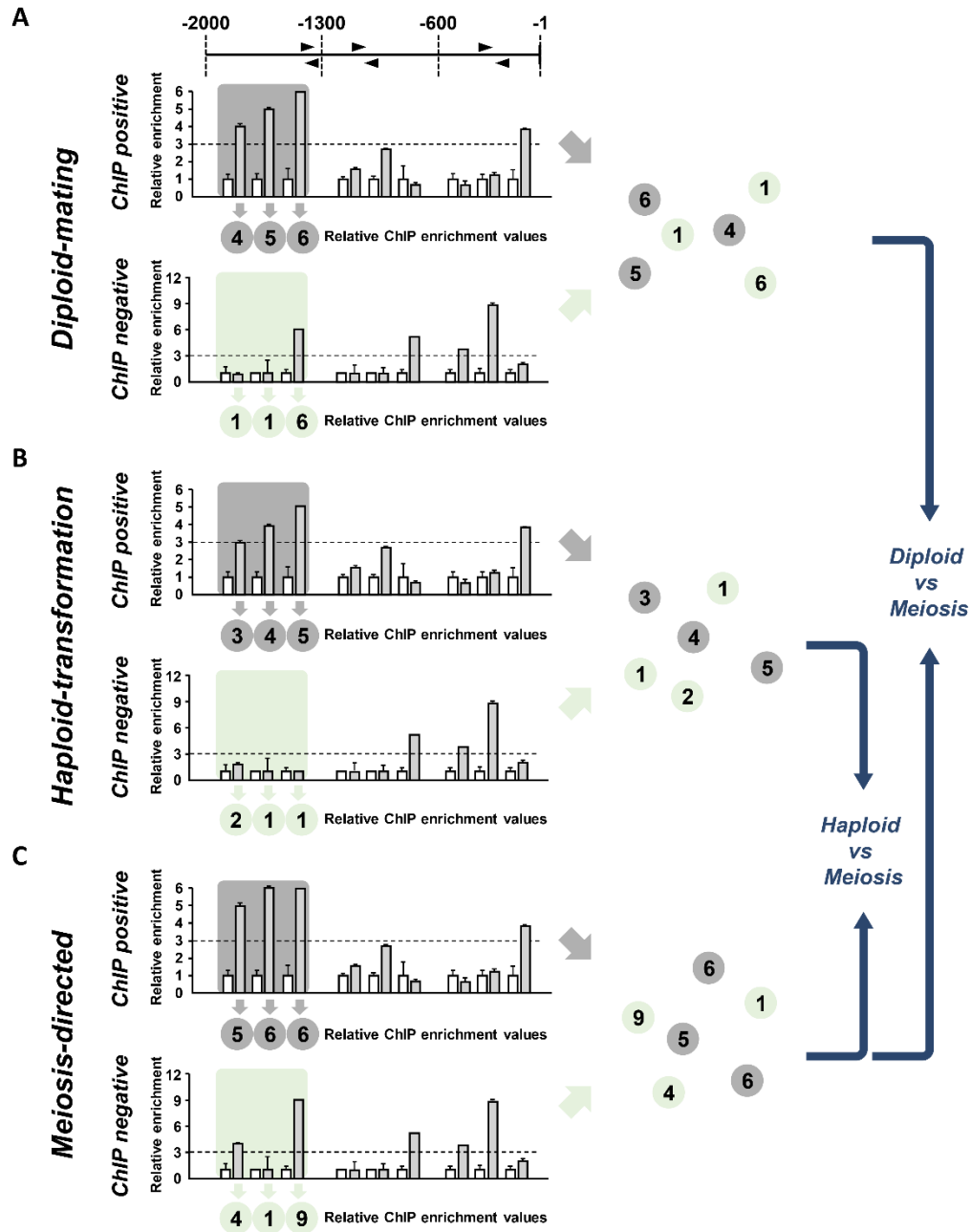
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Supplementary Figure 9

ChIP data selection for statistical analyses.

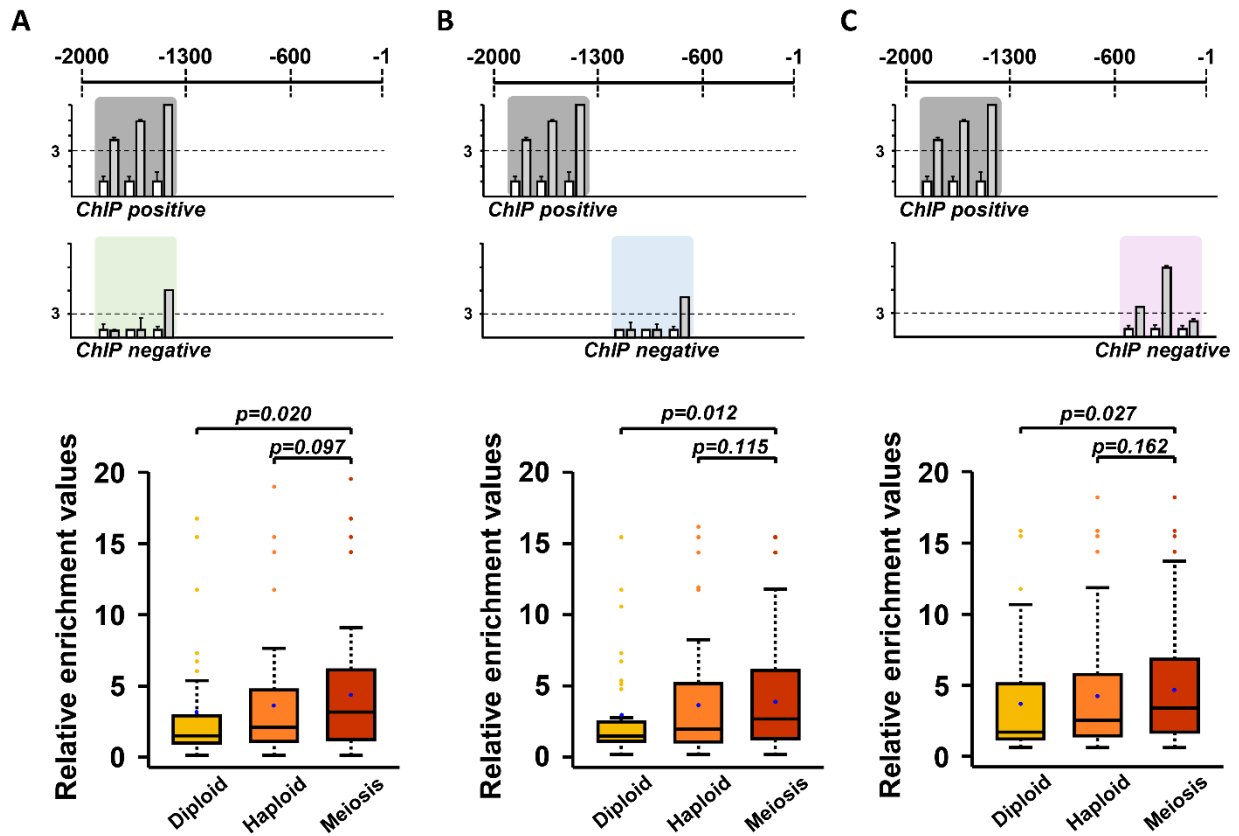
The scheme of ChIP data selection from ChIP-positives and ChIP-negatives. (A) In ChIP-positives, only the enrichment values (ex. 4, 5, 6) from the positive regions were selected (ex. -1300 to -2000). (B) In ChIP-negatives, the enrichment values from each of the three regions (light green, light blue, light pink) were selected. (C) to (H) The enrichment values of ChIP-positives were grouped with that of ChIP-negatives in each region, (C, F) region -1300 to -2000, (D, G) region -600 to -1300, and (E, H) region -1 to -600.



Supplementary Figure 10

ChIP data selection for statistical analyses among three Y1H systems.

The scheme of an example of ChIP data selection from three Y1H systems. (A) to (C) The enrichment values were grouped using data from ChIP-positives and ChIP-negative (region -1300 to -2000) of (A) diploid-mating, (B) haploid-transformation, and (C) meiosis-directed Y1H systems.



Supplementary Figure 11

Mann-Whitney U test for the ChIP-PCR enrichment of all three Y1H systems

The ChIP relative enrichment values were statistically analyzed using Mann-Whitney U test for all ChIP-PCR validated data with three biological replicates from three Y1H systems. (A) to (C) All enrichment values were analyzed using Mann-Whitney U test, including ChIP-positives together with each region of the ChIP-negatives from regions (A) -1300 to -2000, (B) -600 to -1300, (C) -1 to -600, respectively. Blue dots in the box plots represent the mean values.

Supplementary Table 1

Comparison among three kinds of Y1H systems

	<u>Processing time This study^a</u>	<u>TF-DNA interaction Discovery rate^b</u>	<u>Processing time Estimated^c</u>
Haploid-transformation	15 wk	100%	27 years
Diploid-mating	2 wk	60%	0.6 years
Meiosis-directed	2 wk	124%	0.6 years

^aTime required for constructing 644 yeast strains in this study.

^bThe TF-DNA interaction discovery rate of haploid-transformation assay was set as 100% for comparison.

^cBased on our experience, a well-trained postdoctoral fellow can generate ~200 yeast strains per month for Y1H screening.

The estimate is based on building a TRN of secondary cell wall (SCW) in *P. trichocarpa* using all 1301 wood-forming related TFs and 50 secondary cell wall related promoters. In Haploid transformation assay, total $1301 \times 50 = 65,050$ strains are required, and $1301 + 50 = 1351$ strains are required for mating and meiosis-directed assays. The estimated time using haploid transformation, for example, is $65,050/200 = 325$ months = 27 years.

Supplementary Table 2

See Supplementary Spread Sheet

Supplementary Table 3

See Supplementary Spread Sheet

Supplementary Table 4.

Sequence of 92 TFs

Yellow highlighted sequence represents translational start or stop codons

Red highlighted sequence represents the sequence which is different from Phytozome (v3) due to SNPs, insertions, deletions, synonymous mutations caused by PCR.

Potri.001G033200.1 (NF-YC family)

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Potri.001G055000.1 (NF-YC family)

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Potri.001G118800.1 (MYB family)

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AGGTTTAATTTGTTTTAGTGGTGTAACCTTAGCTATAGTCAGCGAGCTAGCTAGTAC
TGTGTGCAGT**ATG**GGAAGGCAACCTTGCTGTGACAACTTGGGGTCAAGAAAGGTC
CATGGACAGCCGAGGAGGATAAAAACTCATCAATTTTCATCCTCACCAATGGCCAG
TGCTGTTGGAGAGCTGTCCCTAAGCTTGCAGGACTCCGACGATGCGGCAAGAGTTGC
CGGCTTCGTTGGACTAATTATCTTCGCCCTGACTTGAAGAGAGGGCTTCTTACTGAA
GCAGAAGAACAGCTGGTTATCGATCTTCATGCTCGTCTTGGCAATAGGTGGTCCAAG
ATTGCAGCTAGATTGCCTGGAAGGACAGACAATGAGATTAAGAATCACTGGAACAC
TCATATCAAGAAAAAGCTACTCAAGAGGGGAATCGATCCTGTTACACATGAACCCTT
GCACAAAGAAGCCAGGCCTGAAGAAAGTTCATCGTCTCATGCTGATATTTTGCCGGA
ATCTAGTAACAACAATGTTATGCAAGAAAATGATGGCATCGTTATTAATTCGGACGA
TAATCCAAGATCACCTACTGAAAATTCTTCTAGTCCAGAGGATTCGATCTTGTTAGA
TAGTATTTGCAATGATGAAATGTTACTGAACAGCTTGTGGATGGAAGAGCCTCCGCT
AGTTGATGCATCATGGAACAATATAATTCCTCCGGCTGCGGCGAATACTAACGACGA
CACGGGTTATCCTTCATGGGAGGAAAATTACACATGGTTATCGGACTGTCAAGATTT
TGGCGTTCACGACTTCGGGCTCGAATGTTTCGACAGCATGGAATTGAGCGCACTTAG
CACATTAGAGATGGAACACAAGCAC**TAG**

Potri.001G157700.1 (C2H2 family)

CCTTCTTCTCTGCAAAGCAAGCTTTATAGAAAGAGGCTAGAGAGAGAAAGACAGCT
AAAAAAGAAAGCTTTGATCTTTGCTTGCTAACTGCTTCA**ATG**GAGAGGCATAAATG
CAGGCTCTGCGTTAGAACTTTTCCGAATGGCAGAGCTTTAGGTGGTCACATGAAGGC
CCACTTGGCAGCAACTCGGCCGCAACTCGGCCTTGATC**GTAATGAGTCGTCCTCTTC**
CTCGTATTCTTCTTCTGCTGGTGAAGAAGAAGTGCAAGAAGAGCAAGAAATCATCA
AGATCAAAGAAGCAGTTGAAGAGAAGTCTCTGGCTTATGGATTGAGAGAGAATCCC
AAGAAAAGTTGCAGGCTTGCAGATCCTGAGTTCTCTTTTGCTGTTGATACTGGGTCT
GTTGTTGTGCAAGATAGGGAGAGTGAGACCGAGTCAAGAAACCCAACTCGAAGACG
ATCCAAGAGGATCCGTAAATCATGTGGTTTTGGAGAGAGTCAGAAGCAGGATTTG
ATGTCAAGAAAGTAGTAGACTTCAAGAATCCGAGTTGGGGCGAGTCATCATCACCA
GCTGAGCCGGAACCGGTGAGTTCTGTTTCTGATACCTCTCCTGAAGAAGATGTTGCT
AGGTGCCTTATGATGTTGTCAAGAGACGTTTGGATGAGAAATGATGAAGAAGAAGT
TCAAGAACAAGGCGGGAAAGATGGAGAAAAGTCGGTTCGATATGTTGGAAGAAGCA
GAGGAGATCAAAGTCAACAAGATTCGCGGGAAGTTTAGATGTGAGAAATGCATGAA
ACTGTTTCGATCTTCAAGAGCATTGAGCGGTCATAAGAGGATTTGCTCGTTAAATGC
AACTGAAGCAAGAAATATTGCCGCTGCAGGTGATGCTAATGACAGAATTTTTGAGT
GCCCCATTGTCTCAGAGTGTTTGGGTCTGGGCAAGCACTTGGTGGACACAAAAGAT
CGCATCTTATAGGTTCTTCAACTAGTACTAATGCTGTTGCTGAAGTATCAACTAACT
CGAGAACAATATGATAGATCTTAACTTGCTGCTCCAGTGGAAGATGATGAATTCAG
TGTGGTGTCTGATGCA**TAA**TCCATTAATAGTACTCAAGCACACCTCTG

Potri.001G235500.3 (MYB family)

GAAAATGATGCAAGACGAGATCCGAAAGGGTCCATGGACAGAAAAGGAGGACATA
CTACTGATCAACTTTGTGCACTTATTTGGAGATCGACGATGGGATTATATAGCAAAA
GTATCAGGTTTGAAGGTGGCGGGAGACACGTAA TAGGTATGAATGTATGGCGATGG
GTGGTTTTGTAAAGGAACTACCTTTAACAACCAAGTTTTGTTGTAGGTTTGAACAGG
ACAGGAAAAAGCTGCAGGTTGCGATGGGTTAATTATCTCCACCCTGGTCTTAAGAGA
GGGAAGATGACACCTCAGGAAGAAAGACTTGTGCTGGAACCTCACGCCAAATGGGG
AAATAGGTTTGAAGATATGATCAGAAGTTTGCTTCTTTTTTTCTTCTCTCTTAATTTAAT
CATAATCCAACCACTTATATAATTTACTGTTATTTCCCTCCATGATGATTCTTAGATAT
TACTGAGAATTTTCCAATTCTGATTTACAACTTCCCTTTAATTTACTATGCCTGTTT
TAGTATAAAGCTTATATAACCATCATCTCTTTTGCCTCATAATTTCTCAGATTGTGT
TGATCTTCACTGAGTATTTGGTGGTAAAAAATTTATC ATGTGCAGATGGTCAAGAAT
TGCTCGCAAATTACCTGGACGTACTGATAATGAAATAAAGAACTATTGGAGGACTC
ATATGCGGAAGAAGGCTCAAGAGAGGAAAGGGGCCATGTCCCCTTCACTGTCATCT
TCAAAGTGTTCCTTTCATCCAATACCACTACAGTGAATTCATCACCTCTTCCACGAA
CTGGAGAAACAAGTTTCTATGACACAGGAGGGCTCGAACAAGTTGCTTTAGCAGGG
AAAAATAGCGAGGCAGTTCAAGGAGGTGAGAAGGGATACTCGATGGATGACATATG
GAAAGACATTGAAAACACTATTGAACCAGTTTGTGATGGGTTTAGTGAAAAAGGTT
GCAATTTTTCTTGTCTTTCGTTGGCTTCGCCGTCATGGGACTATTTCCAGACACCCT
TTGGGGTTTCGGTGAAGAAGAGGGCAAGATATTTCTCCCTTACGACGATGGGACAA
CGATTTTGACTGGCT TAA

Potri.001G235800.1 (C2H2 family)

CAGCCACCTTCTTCTTTTGAAGCTTTATACTTTGTTGTTCTTGCTCATCGTATAAACA
CAAATCATACTATATATCTAATCTATAGATTTAATTACC ATGAAGAGAGATAGAGAA
CAGGCAGAGATAGACTTGGCCAAATGCTTGATGCTACTTTCTAAAGTTGGCCAAGCT
GATCACGAGATACTAATAATTATAGATCAGCAGCAGCAGCAGCAGCAGCAGCAAC
GGCAGGGGCCGGGGCCGGGGCCGGTTCGCTCATTTTCATGCAAAACATGCAACAAGA
ATTTCCCTTCATTTCAAGCATTAGGAGGCCA TCGTGCAAGTCACAAGAAACCAAAAC
TCAAGGAATCAACTGGGAACTTGTTGAAGCTGCCTAATTCGCCTTCAAAGCCAAAAA
CTCACCAGTGCTCCATTTGCGGCCTTGAATTTCTCTCGGGCAAGCACTTGGAGGTC
ACATGAGGAGACAT CGGGCGCCT CATAATGTTGATAACCACCAGTACTAGTAGTAAA
GATCATGAATTGGC AGC TGTGACTCA CCGCCTTTCTTACCCGCTGTCCCAGTTTTGA
AGAGATCCAATAGCAGCAAGAGAGTTCTGTGCTTGGATTTGAGCTTGGCCCTGCCTA
TGTATCAGAATGACTCGGAGTTGCAGTTAGAGAAGGTCGATCGTCCCATGTTGAGAT
GTTTTATC TAA CCTAATTTGGAGCTTGGACATAATTTTTTTCTCTCCTTATTACCAACTT
CTGCTACTATGTAGTTGGG

Potri.001G249900.1 (C2H2 family)

TGCTATGCTATACTTTCTCCCTTGCTTCTTCCATCATTCCCTTCTCACATGACTCCCCCT
CTCTCTAGGACAGGAATGCCGATGTCCTGAAGAATTACCAGAGCTCAAGCTGATTCC
AAAATTAACAATGCAACCAATAGAGGTTTAGTCTTCAACAAATTCCTCTCTTTCT
TTATCCTTCTTCTCCATCTTGGTTGCTTTATTTTCAAAGCCAAATTAGATGATCGCCA
TCCAGCCAAGAAACGCAAAAAAGTCTCTCCTCTTGCTCCCATTTCTTCTTCTCATTCT
CGCCTAAAACCCACAAAGCTCTCTCTTCCCTCTTGGTCCTACCTCAAAGCATTTTCT
CTGGTAAAACGTCCAAAACCCAAACTCAACCTGCAGCTCCGACCCTAACCTCAGCA
AGATCATCACAGCAATCCATTGTCTCCATGATCCTACCTGATCAAACCTCACTTGTCC
GAACTTCCACCAAGGAAAAAGTCAACTGGGTCTGCGAAGAACCCGACATCTCAAC
AGACCACCAATTCTTTCCTTTGAGAAATGATATTTTTCCATGCACAGCTTGCGGTGA
AGTTTTCCAGAAACCTCAGCTTCTTGAACAACATCAAGCTATCAAACATGCTGTCAC
ACAGCTTCTAGACGGTGATTGAGGCAAGAATATAGTCGATATCATATTTAAAACCTGG
ATGGTCTTGTAAGGAGAAGAGCCCAGAAATCCGTAGGATTTTGAAGATCCATAATA
GTCCAAAGATATTGTCAAGATTTGAGGAGTACAGAGAGTTTGTCAAACCAAAGCA
GCGAGAAACAGTCCTATCAAGAGACGAGATGAGAGGTGCATTGCTGATGGTAATGA
GCTCTTGAGGTTTTTCTGCTCAACTTTTATGTGTGATTTAGGACTGAATGGGGATTCT
AGTATTTGTAACCAGCAATATTGCAGTGTTTGTGGGATAATCAAGTCTGGTTTCTCA
CCAAAGATGGATGGAATCTCTACACTGTCTACTAGCTGGAGAGCACACATGGCGTTC
CCTGAGGAGATTGAAGAGGAGTTCAAGTTCATGAACGTGAAACGGGCTATGCTAGT
CTGCCGGGTCGTGGCGGGTCGGATCGGGTGTGACTTGGACGAGGATATAGACAAGC
AGGATAGTGGGTCTGATTCTGTCTGGGAAGAGGTGGCAGTGGGATCCACACGAGG
GTGGACGAGGAGGAGCTGTTGGTGTAAATCCAAGGGCTGTACTTCCCTGCTTTGTT
ATTGTATATACTGTGTGAGTGTGATCATGGTAATAGCGTCTGATCCCTTCTGCTTGTG
TTTTTAATTTTGATGGATTTGTTAAGCGTGATGTGTGGTGGTATCATGGCTTTTGAT
TTACTTTCTTACTTGATCCGTGACTGTGACCAAACATGGTCAGTTGGTCTCGACCC
CATTAC

Potri.001G257600.1 (NF-YA family)

TGAAGGCATGCGGTCAAAGCCTGAGAACACAAATGGTCTAGATGCTGATCTGAAGG
ACATTGAATACACCGTTAACTCTGAACCCTGGTGGCGCAATATCGGTTATAGTTCCA
TACCTCCTGCCATGACTGGGGGAAATGCATCCAACCTTAACCACACCAGAAGGACAT
AATGGTTCAGAATCAAATGATGATCAGTCTCTGTGCGAGTGGTAGATTGAACGAGGA
AGATGCTGATGCTAACAAAGATTCCCAAGCCACTGCATCGTCTCAATTAGGGAATGG
TTTACATTACCAAATCTTCAGAGTGTTGTGTCAAGTATGACTAGAACGCATGATGG
CCTCTCCCAGTCTCCACAGTTTGTGAGCTTGTAGTCACTCTATTGCATGTGCATCGAAT
CCATAACCAGGATGCGTATTACAGCGGAATGATGGCTTATGGACATCAGCCTCTGGGT
TACCCTCATTGTTGGAATGCCACATGCCAGAATGCTCTTGCCCCTTGAGGTGGCTC
AGGAACCGGTTTATGTGAATGCCAAACAATACCCGGGGATTATTAGGCGAAGACAG
CAACGTGCAAAGCTGAGGTTGAGAAGAAGCTGATAAAATCTAGAAAGCCATATCT
TCATGAATCTCGGCACCAGCATGCTATTAGAAGGGAAAGGAGCTCTGGAGGACGTT

TTGCGAAGAAAAGTGGTGATGATGCTTCCAAGAACACATCTGAAAGAAAGCTCAAT
GGTTCTGGTCCACTTCGTGCATCTCAGTCAGGGAGTTCATCAGGTTCTGAACCATTCT
CCTCTGACTCTGTTGAAACTTTGAAATCCTCTGATGGTCAAAAAGAAGCAAGGGCGT
CCCAAGTGCATGACACTTTTGAAGCTTATGGGTATGCAAATAGAGATGGCCATTATC
AGAACCACCATGGCTTGAATCCTCTACATATGGCCTGTACTTGGGTGAAAACAAGG
ACGGAGACCGTTCACGTGAAAACGAGGATGAAGATCATCCAGGCCGGCAGCTGAGG
AAGCAGGCCAAAACGTCTTCTGCCACCAGTGAACCGTGCATGCTAAGTGGATGCC
AGGACTGGAGGGTTGATTCA

Potri.001G266000.1 (NF-YA family)

CGTGAATGATGCCGGCAAATCTGAAAAAGAAGATCGACGTTTAGACCACAGTGGA
CAGAGCCTGTTCCAATCAAACGTTTACTCCAACCTTGGTGGCGTGAAGTGGGGAAC
AATCCCTCTTTGGGCGAAACTGCATCGAAGTTGTCTTCAGTGGAGAACCTGAACGGT
TCTCTTCTGAATGCAGTGACACAATCAAAGTTAATACTGGCTTACAGAAAGGAGCT
ATATTGAACAAAGATACGCAGACCGATGTAACATCACTATCTGATGAAGGTACTGG
GCAACACCATCTCAATCATGTCCCATCACCAACAACCTGTTACTATGGACGGACACCT
TGAACCAAATTCCCAGATGGAACCTTGTGGCCACTCAATTGTTTTGACTTCACATCC
ATATACAGATCCACAGTACGGTGGGATCTTTGCTTCGTACAGACCACAAGCTATGGT
GCCTCAATTTTATGGAATGACTCACGCCAGGATGCCTTTGCCCTTGAAATGGAAGA
GGAACCTGTTTATGTAAATGCAAACAGTTTAATGGTATTATGAGGCCGAAGACAGG
CACGTGCTAAGGCAGAGCTTAAAAAGAAAGCAGTAAAAGTTAGAAAGCCATATCTT
CATGAGTCTCGACACCAGCATGCTATGAGAAGGGCAAGGGGTTGTGGAGGCCGTTT
CCTTAATACAAAGAAGCTTGATCATAATGCTGCCAATCCAACGTCAGATAAAGGTAC
TGGAGATTTGGATTCCCTCCGGTGATCTGCAGGAAGGAAAAGAGTCCATGGTTCAAG
ACATGCAAACACACGCTTCCCTCCAATTGCCATGGTAATGGCAATGGACTCTCATCAA
GATATCATTATTATCAGATGATGGCAGCTTCTTGGGTGAGCAGAAGGAAACCACAC
ATGGGAATGGGGTGTCTAATGGGAACGTCTCCATTTATTAAATTTCCACCTTGAGTT
GCAAAGCT

Potri.001G268200.1 (C3H family)

GCAAATTCACATGATCGACGACACCCTTCTATTTTCGCTTCCGTTTCATCTCCTCCTCT
AGTTCTCGTTTTCTTTCTTTCCAGCTACTACTGGTAATCATTATATAATAATAATAA
CCATTTAAACAAATACAGGCACCAGACAGGCTAGGGTTTCAGTTATCCTTTCTTTTTC
TTTTCTTTTTTTTTTTAATAAAAATCGTTTTCTTTTCTTTCAAATTAATATCCTTCTC
CATGCTCTAAAAGGGTACTTTGCAAGTTTTTTGCTCATGGGGCATGCTTGAAAGGGGA
GCATTGTGAATTTTACATGATTGGAAAGATCCTCCAAATAATATTTGCACCTTTTAT
CAAAAAGGTATCTGCTCTTATGGTAGCGATGCCGATATGAACATGTTAAACCTTCT
AGGCCTGAATCTACTGCATCATCTTCATTGACAGTTCCTTGTCAACCTCTGGGCTCAA
ATTCCGTGTCCCTGGCCCTTCCCTGCAAGAAATGTATCGAATGGGGTGACAACAGTAC
CGGGTGTTCCTCCAGAGCTTTCAAGTAGACCCTTTATTGCTCCCCTGCACCAGAAT

GGAATTTGGAGTCTGCACAACATGACTTCTTAGAAGATGGTGAGGTTATAGAGCCTA
GGAATGTTAAACCAGCTGACCGATCTATCTGTTCAATTTGCTGCTGCTGGTAGTTGTCC
TCGTGGAGATAAATGCCCCATATTCACGGTGACTTGTGTGCCTATTGTGGAAAGCA
TTGCTTACACCCTTTCAGACCTGAAGAAAGAGATGAACATTTGAAAGCATGCGAGA
AGAAGCAAAAGAACCTTGATTTGTTAAAATATAGTCAAGAAATAGAATGCAGTGTA
TGCCTGGATCGTGTACTTTCAAAGCCCACGGCAGCTGAACGAAAGTTTGGTCTGCTA
TCAGAATGCGATCATCCATTCTGCATATCATGTATTAGGAACTGGCGTAGTAGTTCC
CCAACCTCTGGAATGGATGTCAATACTTCATTGAGGGCTTGCCCAATATGTGCGAAG
CTTTCATACTTTGTCATTCCAAGCGTTATTTGGTATTCTCTAAAGAGGAAAAACAG
GAAATTGTTGATACCTACAAGGCAAACTCAGGTCAATAGATTGTAAACACTTCGCAC
TTTGGGAATGGGAACTGCCATTTGGAACCAGCTGTTTTTACAAGCATGCATATCGA
GATGGCCGCCTGGAGGAAGTTGTTTTACGTCATCTTGGAAGCTGATGATGGACAGACT
GTGATAGCTAAAAATATCTGGCTGTCTGATTTCTCGGTAGCTTACAAATAAGGTGA
GCTGGTGGTGTTTGAATGTTTTTAAAGGATATCTATCAATGTCAAGACATGCACTCA
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GCTTCTGGAGGAGACTAATTTGTGGGAAGCTGAAAGATGTGCCGTTGTGTCATTAT
AAGCTGCATCTTAAGTTATTTTGAATAATAAAAACGAAGAACATGTCAAGGCATTGA
AAGGTTTTGAACAGCGTTGATAAATTATGTACTTGTGAAGGAAAATGATTTGAATAA
TGGATGTTTGCATTATAGTTTGCTTCCCTCACACCAGAAAGGACGGCGAAAACACTAC
AGGGTTTCGCCCTAATGGTTTGAATAATTTGAAGTTTTGAGGACAATGTCAGGATG
TTGTGGTGCATCACTGGTGTTCCTCTGTATAAAAAGTTTTGAACTTTGAGGTATAC
ATGAGATTTGATACAATGTAATTCATTTGTACCTAAGCCATGTACATCTTATGACG

Potri.001G273700.1 (HSF family)

GCAGAGGTCTAGCAGCAGTACATGTCATTTGCTCCCTCTGGTGTAAATTCATAGCTGG
TAATGGCTTTTACAGTGGATAGATGTGAAGAGATGGTGTTTACTGTGGAGTCTCAA
AGGCAGTTCCTGCACCATTCTTAACAAAAACATATCAGCTGGTTGATGATCCTCTTA
CTGACCACATTGTGTCTTGGGGTGATGATGAAACCAGCTTTGTTGTGTGGAGACCTC
CTGAGTTTTCAAGGGATCTTCTTCCCAACTATTTCAAGCACAACAACCTTCTCAAGCTT
CGTCAGGCAGCTCAATACCTATGGATTCAAGAAGGTAGTAGCTGACAGATGGGAGT
TTGCAAATGAGTACTTCAGAAAAGGAGCAAAGCACTTGTATCTGAGATCCACAGG
AGAAAAACATCCCAACACCATCACCAGCACTACCCTGAGCAACCACCCAATTTTTTC
CAACCAGAAGATGGTTTTAGTTGGATCGACCCTCCATTTCAATCTCCAAAATCAAGT
ACTGACATCCTAACTGCACTCTCAGAAGATAATCAGCGACTGAGAAGGAAAAACTG
CATGCTTTTATCAGAACTCTCCACATGAAGAACCTCTATAATGACATTATCTACTTC
ATCCAAAACCATGTAAAACCAATGCCCTATGAGCAAAAGGCTTATAATGCAGCACC
TAAGCTAATAGAAGTGGGCTTTCATGTCAGGATCAAACCATTTGTTCTAGCATTCA
AAGAGCTAAGAATGGTACTGTTTTGGGTCAGCATTCAATTGACATTAAGTACTGAGGA
ATCAACTAGTCCTGTGAAGCTCTTTGGAGTCCCTCTCAGTGGCAATAAAAAGGCTGCA
TCCAGAAGTGATCGATTAGCGGCAACAATATCGTAGGGTCTCCATTAATTAGCCTGT
ACCGCAGGTTGTAGTCGTTCTC

Potri.001G372100.8 (NF-YA family)

GCTTCTCTCTCGCCCTGCAAAACAAATACATAAGGAAGTTTGTGTATGAGATTTGAG
TTTGGGGACTCTGTGTGCATAACAGCCATGACTTCTTCCTTGCATGATCTTTCTGATA
ATAGTGAAGCTGATGAGCAGCAAAATGAATCAGAACCCAGATTCAGTCTTCATCTC
CTGCAATGGCACAGGCACACCCGGGCTTCTCAACTCCAAATGTTTCAGTATGCAACTC
CACAGCTTGGAGCAGGACATGCTATGGCACCAGCAACTTACCCATATCCAGATCCTT
ATTATAGAAGCATCTTTGCTCCATATGATCCTCAGCCATATCCTCCACAGCCCTATGG
TGCACAACCGATGTTGATGGGAATTCAGCAAGCTGGAGTTCCTTTGCCATCTGATGC
TGTTGAGGAACCTGTATTTGTTAATGCAAAACAGTATCATGGTATCTTGAGACGACG
ACAATCTCGTGCAAAAGCTGAATCAGAAAGCAAAGCAATCAAGTCTCGGAAGCCAT
ACTTGCATGAATCTCGGCATCAGCATGCACTGAAAAGAGCTAGAGGATGTGGGGGT
CGGTTTCTCAATTCGAAGAAACAAGAGAATCAAGAACATAATGGAGTGGCTTCAGG
TGACAAATCACAATCTAATATCAATCTTAATTCCGATAAAAATGATATTGTTTCCTC
AAATGAC TAGTAGGGATA

Potri.001G404400.1 (NAC family)

CAATCTCACTACTCCATCAATGGAAAGAAGTATTCCTCCACAGGAGGTGCGGGCG
GTGGTGGTGGCGGTGGCGGTGGCCGCGGCTCGCAACAACCAAACCTTCCACCGGGG
TTCCGGTTCCACCCCACTGATGAAGAGCTAGTGGTTCCTACCTCAAGAAAAAGACC
ACTTCTGCCCCTCTCCCTGTGGCGATTATCGCAGAAGTTGATCTTTACAAGTTTGATC
CATGGGAATTACCAGCTAAGGCCACTTTTGGTGAACAAGAGTGGTACTTTTTTAGTC
CGAGAGACCGGAAGTACCCGAATGGAGCTAGGCCAACAGGGCAGCAACTTCAGG
GTATTGGAAGGCTACAGGAACTGATAAGCCAGTATTATCTTCAGGAGGTACACAAA
AGGTTGGGGTTAAGAAAGCACTAGTCTTCTATGGTGGTAAACCTCCTAAAGGGATCA
AAACCAATTGGATCATGCATGAATACCGGTTAGCTGATAACAAAGTGAATAACAAG
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ATGATTCCATGGATGATGTGCTTGGATCAATACCGCCTTCGATATCAGTTGGAAGCC
ATCAGAATGGAACACTGCATCTTGCAAAAGGAACAACTTTGGGGCATTGCTTGAC
AATGACCACAATTTATTCGAAGGAATAATCAGCAGCAGTATGGTATCAGAAGCAG
CAGCTCTTCTTTGTCTCACATGGCCTCTTCAGTAACCAAGCGAGACCTACTTATGCTT
CCACCCAAAAGAACACTCCCATCACTATATTGGACCGGCGAGGACATGGTTGGCCC
TTCATCAAGTAAGAGATTTCAAGGGGGTATTAATGGTATGAAATTGTTGTGAGGAC
CGATGGGAATAGTTCCGTAGCTACCCTGCTCGGTGAACTTCCACAGACACCTCAATT
GCACCAACAGACAATGTTGGGATCTATGGCAGATGGGATTTTTAGGTCACCATATCA
AATCCAAGCATGAATTGGTACTCTTAA

Potri.002G042000.1 (bHLH family)

ATGGGTGAGAAATTTTGGGTGAAAGAAGAAAATCGTATGGTGGAAATCAGTGCTGGG
TGTTGAGGCCTGTGAATTCTTGATCACGTCGGCTTCTAAAAACATTTTGAATGATTTG
GTTTCGCCGCCTGCTAATTTGGGTGTGCAGCAGGGTCTTGGTAAGGTTGTAGAAGGT
TCTCATTGGAATTATGTGATTTTCTGGTATGCTTCTGGCTTCAAATCTGGTGGGTCTA
TATTGGTCTGGGGTGTGATGGGATTTGCCAGGACCCGAAGGGTGGAGGGGTTGTACAT
GGAAGCTCCAGTGGGGATGGCAAATTGGAGGGAGTAGAGAAAAGAAAAGTGAAGA
AGTGTGTGCTTCGAAAGCTTCATGCATGCTTTAATGGATCAGATGATGGTAGTTTTG
CGGCCAGTTTGGATGAGGTTTCGGATGTGGAGATGTTTTATCTAACCTCAATGTATTT
TACATTTCCGGTGTGATTCAGCATATGGCCCTGGAGAGGCATTCAAGTCTGGTAGGTC
CATTTGGGCGTCTAGCATGCCTAGCTGTTTGGATCATTACCAATTGAGATCAGTTTTA
GCCAGATCAGCTGGGTTTCAAACAGTGGTGTTTTTACCTGTTAAGTCTGGAGTTCTA
GAGCTCGGTTCTGTCAAATCAATTCGGAAGAGCATGATTTTGTGGAGAAGGCAAA
AGGTTTGTTTGGGGCTTCTAATAATGCACAGGCAAAGGCAGTTCCAAAAATTTTGG
CCGCGAACTGAGTCTGGGTGGCTCAAATCACGATCAATTAGCATTAACTTTTCCCC
AAAGGTTGAAGATGAACTGGTTTTCACTTCAGAATCTTATGCAATGAAAGCAACAA
GCACGAATCAAGTTTATGGAAGTACTTCCAATGGGCGCCCTAGTGACAAGAGTGAA
GCAAACTGTTTCCGCATCTGAACCAAGCAATTGTGGGTTTCAATACTGAAACAGTG
GTTGGTGGTTTGGAGCAGCCAAATGATGACTTGTCCCCTCAGGGTGTGAGAGGAA
ACCAAGGAAGAGGGGAAGAAAGCCTGCCAATGGAAGAGAAGAGCCACTGAATCAT
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AGCTGTTGTCCCAATATCTCTAAAATGGACAAGGCCTCTCTGCTTGGAGATGCCAT
TACCTATATCACTGATCTCCAGAAGAAGATTGGGGCTTTAGAAAACAGAAAGGGGGG
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AGGATGATGCAGTTGTGAGGGCAAGCTGCCCTCTGGATTCTCACCCAGTTTCTAGCA
TCATAGAAACATTCAGAGAACATCAAATTACAGCTCAAGAGTCAATGTGTCCATG
GAGGGTGATAAGATTGTTACACATTCTCTATCCGGACTCCAAGTGGTGTGCTGCTGAG
CAATTGAAGGAGAACTGGAGGCTGCACTTTCTAAAATGATCTCATCTCACTGTATAT
TTCTATTTACATCATCAGACTATCTCATGCATGTCCCAGTCTTGTCAAAAATGGGAT
TTGTATCGATAGATGATTAGCTTCTGTAGTCAAGTTTTAAAAGAGAGCAATCCGTG
TTCCGATCATTGCTGTATGGTCGTTTTAAAAGCTACCAAATAGACAGAACAGAATGT
ATGTAACAATACTAGGAGAAACTCTGAAATCACTCCTCAGGAAAGCTCCAAGTGG
GAAGTGGACACCATTATTGCAAAACAGTCTGAATCATCCACCTACGTTGTCTGTCT
ATTTTCTTGCTTCAATGTGTTTCTCATGTGTATCTCGAGGATGTCAACGTAGTGTATT
AGACCCTACTTTCAGAACATTGCGTG

Potri.002G058800.1 (Nin-like family)

ATGAATATCCAGCAGCAGCAGCAACCGAATCAATCAAAAACCGCCCTCCTGGGAAGC
CATCTCCAAGCACTTCTCTCTTCCCTCTCTCCGATGCCGCTAACAATCTCGGCGTCTGT
GTCAGTGTGCTTAAGAAAATCTGCCGTGACAATGGTCTTGATAGGTGGCCATATCGC
AAGTACTTAGCTGGAAAGAGTATAGAGGACATTAGAAGGTATGCTGCTAGAGAAAA

AATCAAAGCCATTGCCGACCTCGCCAAGGCTGCTAACAAAAGTGGTATCCAGCAGC
AAAACAATGAGAATTCCAAACCTCACAAATTGCAGCAACAAGGAATAAGGATGTT
CTAGTTGGGCGGCAACATATCACGCTCACTCCAGGGTTGGCAAAGGATTGATGGG
TTTGATGAGTTTAAATATGGATTTCCATCAGATGGTTTATCAACAGCTACGAATAA
ATGGTGGGGTAGCAGCCTGTCTGATACTCAAAGGGCCACTGATAGAGCTGGAATTG
AGACTGATGAAGATGACGGCCGTCAATCTGAAGAAAAGGTAGATGCTGGTACCAGT
GTGGTATTGTAGACGAAGAGAAAGGTGAGAATGGAAAGATGGAGAGTAATGAAA
TTGATCCACAAGGGACTGGTTTATTAACGTCTGTTAGGAAAAGAGCTGCTGAAGAA
GGGCGAGAAGCACTTAACTTGGTGTCTACCGCACTTATGGTGTAAACAAGTTAGGC
AGGAAACAAGAGCTTTGCTTCTTCGAATATTTGGATCTTCATTGCCAAAACAATGG
ATTCAGGACTTCAGTTCAAATAGAGGTGGATTGTAGACATGAATAAC

Potri.002G108400.1 (bHLH family)

ATGGAAATTAATGGACATGATTTCTTAGAGGAGTTAATAGCTCTAAGTAGGGAATCT
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AACCATGGTTGCTTTGAAGAAATCCCAGCTACACTCCCACAACTTCTTTCTGTCCTG
AAGGATTAATTTTCATCTCCTCTTAAACAAGACTTCAACA ACTACTTTAATGAAG
TCTTCTGCCCATTTGGTGTAGATTCTCAGCACCACAGTTCACAGATGAGTTCTCTTC
AGCCCCACAATTCACCGATTCTTCTATAACACGCTTGACACACCACCATTCTCTGTT
CAAGACGATACTCCAATGTCCATGATGGAAGATGAGGAGCTGGGTCTGCTTGCTAAT
GATCAACAGAATTTGCAGATGCAGGGTACTTGCAAAGTTGAGCCATTTCAGTCGCCG
GAGGTGTCGGCTTTCAATGCTGGTATCTGTCCAGAAAGAAAGATTAGAGGCAAGAA
GATGGAGGGGCAACCATCAAAGAACCTAATGGCCGAGAGAAGGCGAAGAAAGAGG
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AGAACATCAATACTTGGAGACACAATAGATTATATGAAGGAACTATTGGAGAGAAT
CAACAGCTTGCAACAAGAGATTGAAGTGGGTTTCAGAGGAGTTGAAGATGATTAGCA
TTTTCAAGGACACAAAACCTAATGAAATTGTTGTGAGAAATTCACCGAAGTTTGAAG
TGGAAGAAGAAATGAGGATACAAGGATTGATATTTGCTGTGCAACAAGCCAGGG
TTATTGCTATCATCAGTAACAACATTAGAAACATTAGGCCTTGAGATTCAGCAGTGT
GTGATTAGTTGTTTCAATGACTTTACAATGCAAGCTTCTTGCTCAGAGGAATTGGAG
CAGAGAACACTAATAAGTTCTGAACACATAAAACAGGCCTTGTTTAAAAATGCAGG
ATATGGAGGGAGATGCCTGTAGACAGTAAAGGAGTAGAAAAAGGAGGAAATTGCA
GTGAAGTCTTTTAAAGAGACATTTTCAAATCTTTTTATTTTGAAGAGGATTTCAAGTG
AGGGAGTTGTTAACTTCACTTTTTTAAATAAGTTGCGTCTGCTCATCAGAGCTATGC
ATTATCTACTTCAATGTGAGATCTTTATTAATCCAATTGCTTTAATATCATGAGATTG
TTATTTCTTTTCTCTCTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT

Potri.002G124100.1 (WOX family)

GCCATGGGAAGCATGAAGGTGCATCAGTTGGCACGTGGATTTTGGGAGCACGAACC
CTTTCTTACGCTGGGTTTCAAGCGTTTACGCCCTCTCGCTCCCAAGCTGGCCAACACA

GATCATAGTGCTGCCTCTTTCGATCTCAAGAGCTTCATTAGACCCGACAGTGGCCCT
AGAAATCTTGCCCTTTCTGACGAGAAGAAAGATTCCCCTCAGGGGGAGACGCACCC
GGGAGGGACACGTTGGAACCCAACGCAAGAGCAGATAGGTATACTAGAGATGTTGT
ATAGGGGAGGAATGAGAACTCCTAATGGGCAACAAATAGAAGATATCACTGCACAA
CTAAGCAGATACGGCAAGATTGAAGGGAAGAATGTTTTTTACTGGTTCCAAAATCAC
AAAGCCCGCGAGAGGCCAAAAACAGAAGAGGAACAGCCTTGGTTTAAGCCATAGTCC
GAGAACCCCATCTCCCGTTACCATTATATCTTTGGATACTAGGGGAGAGGTGGAGGG
AGAGGAGGATAGTCCATACAAAAGAAAGTGTAGGAGCTGGACCTTTGAGTGCTTGG
AATTAGAGGACAGCAGGTCATGTAGAGAGAAGGGAGATAGA ACTCTCGAGCTTTTC
CCATTGCACCCGGAAGGCAGATGAAGGG

Potri.002G124800.1 (HSF family)

ACCGCCATATCCATATTCACACTCTCTTCCTTATCCCTTACCTAGCTATCACATCCAA
AACCGTCACTGTTTCTCTCTTACACCTCTCCTGCAAATTAGCAGGGCGCTTTTGATCTC
CAATGCTCTCATGTTAGATAACTGTGAAGGCATATTACTCTCATTAGACTCCCACA
AATCAGTCCCAGCTCCTTTCCTTACCAAAAACCTACCAACTGGTAGATGATCCAGCCA
CTGACCACATAGTTTCTTGGGGTGAAGATGACACTACTTTCGTTGTTTGGAGGCCAC
CTGAGTTTGCTCGTGATCTCCTTCCTAACTATTTCAAGCATAACA ACTTCTCTAGCTT
TGTCAGGCAACTCAATACCTATGGGTTTAGGAAGATTGTACCTGACAGATGGGAGTT
CGCTAATGAGTTTTTCAAGAAGGGAGAAAAACATTTACTTTGTGAAATCCATAGAAG
AAAAACAGCTCAGCCACAAGTAGCCATTAATCAGCACCACCCACATTCTCCTTTTGG
TGTTAACGGGCCAGTTTCTTTCCTTTCCTCAAGCAGAACCAGCATCTCTCCATCTGAT
TCAGATGAGCAAGCCAACA ACTGGTGTGATTCACCTCCTCTCACTTCACCACCAAGA
GGAGGAGTTGCTACCGCCACAGTTATTGGTGGTGGGGGTGGATTTAATAGTTCAGTC
TCTGCGTTATCAGAAGATAATGAAAGACTAAGGAGAAGCAACAATATGCTAATGTC
CGAGCTTGCGCACATGAAAAAGCTTTACAATGATATTATTTACTTTGTCCAAAATCA
TGTC AAGCCTGTTGCTCCCAGCAATTCCTACTCTTCTTCTTTGCTTCTTTGTGGCCCAT
CACCTTATGCTACAACA AATCATGTTACTTCTAATGGTTCTCTAGTACAGAAGCCCTT
AAACCAGCTTCTTGGGTACTATCCTACA ACTGCTCCA ACTAACCCTAAGCAAATCCC
TCAAGTTCATGTTTTGATCAACTCACCACA ACTACTTCACAGAGCTCTTTGACCATT
CTTGAAGAAGCCAACAACAATGGTTGCAAGACAAAGTTGTTTGGTGTGTCATTACAA
ACAAAGAAAAGATTGCACCCAGAGTATGGTTCAAATCCAGGAAATATGGAAACTAG
CAAGGCTCGTTTGGTGTGGGACAAGGATGATTTAGGATTGAATCTTATGCCTCTTTC
AAGATGTAGTATCTTCAAATCAATTCTAAAGATCTGAGCTTTTTGGGTTTAATATTT
ATATCTTTTCTTAGATTTTATTTCTTGTGTTGATTTTCATTGTCTTCTTTGAGTCTTAAG
ATAGTCTGAGATGATAGTAGGCTACTAGCTCGTGTTAATGAAAGAAACATGCGTGTG
CGTGCGTGTGGTTTTTGTGACCTTGTATATAACTTTAGTGCCGGGTATTTTCTTTAC
CCCCACAGCCATGAATGCAGGTGGGGTTTTGGTTAGAATGAAGATCAAATCAAATC
AAGTTTAAAAATCACAAGTCCATTTCTAAAGAGATGTCCTTTC

Potri.002G138900.1 (WRKY family)

AGTACTGCTTGTGTTAGCTTGACACATGCACCAAATAAGCCAATAAGAGGAGGAGG
AGGAGGAGGAGGAGGAGCAAAGCTTCTTGATTAGAATGGATCAAGGAGGAAGAGA
AGTTCCAAATTACGGGCTACAAGTCTCTTTCTCTACACCACAAGCAATCCATGAGAT
GGGTTTTGTTCAATTTGAAGAAAACCAGGTCTTGAGCTTCTTGGCCCCCTCACAATCT
TCTCAGATATCTCAACCGCTCAATACTAATAACAACCACCAATAATTCACATGGGGTTT
AGTCATAATGATGAGCAGGTGGGGACAATGGATCCAAAGCCTTCCAGTGACGAGAA
CTGCACTGGTAATGCTAACAACGATGGCAACAATTCATGGTGGAGGAGCTCATCCTC
AGAGAAAACAGGTTGAAAGTGAGGAGAAAGCTTAGAGAACCAAGGTTTTGTTTTTC
AGACAAGGAGCGATGTGGATGTTCTTGATGATGGTTATAAGTGGAGAAAATATGGC
CAAAAAGTTGTCAAAAACAGCCTTCATCCAAGAAGCTACTATCGTTGTACTCACAAC
AACTGTCGAGTGAAGAAGAGGGTTGAAAGATTATCAGAGGATTGTCGAATGGTGAT
AACAACTATGAAGGCAGACACAATCACTCTCCATGCGAGGACTCAAATTCATCAG
AACATGAATGCTTTACCTCTTTCATAATGCTTTAGTTAAAGTATTAAGAAAGAC
AATGTTGTAATATTAGAATCATAATGTTTAAACGTGTCATCAGCTTGTGACAATATTTG
CTAGTACATGATTTTGAGGGGTTTTTCATCTTCCCAAGATCAACAAATTCTGACAATTC
TTGATATTCATTTATTTGGATATCAATCTGAG

Potri.002G159400.1 (bHLH family)

ATGGCTCATGTTGTCCAAAGCCAGCAGGCAATACTAGAGAAGCTGAGGAAACAGCT
TGCAATTGCTGTGAGGAGTGTACAGTGGAGCTACGCAATTTTCTGGTCACTGTCAAC
CAGACAGAAAGGGGTACTGGAATGGGGTGGTGGTACTACAATGGGGACATCAAG
ACTAGGAAAGTTCAAGCCACGGAACCTTAAAGCTGATAAAATAGGCTTACAGAGGAG
TGAGCAATTGCGAGAACTTTACAAGTCTCTCCTTGGAGGCGATGCTGGCCAGCAGGC
TAAGAGGTCTTCTCCTGCATTGTCTCCTGAGGATCTGTGATGAGGAGTGGTATTA
CTTGGTGTGCATGTCCTTTGTATTCAATCCTGGTGAAGGGTTGCCAGGAAGAGCATT
GGCCAATAAACAGACCATCTGGTTGTGCAATGCTCAATATGCAGATAGCAAAGTATT
CTCTCGCTCTTTGCTTGCAAAGAGTGCATCTATTCAGACCGTGGTGTGTTTTCCCTAT
CTTGAGGGAGTGATGGAGCTAGGTGTAAGTGCAGCTGGTCCAGAAAGACCCAGTCT
CATTCAACATATCAAAGCTTCTTATTAGATTTCTCAAAGCCTGATTGCTCTGAGAA
ATCTTCCTCTGCTGCTCATAATGGAGATGATGATGAAGACCAATGTCTACCAAGAT
CAGCCATGAGATAGTTGATTCATTAGTTTTGGAGAACCCTGTACACCCCAACAGACGA
TATAGAACTTGAGCAAGAGGGAATTAACGATTTACATGGAAATTTGCGTGAAGAAT
TCAAAAGGAATTCCTGATGATTGTTTCAGATGGCTGTGAGCACAATCACCAGACTG
AAGACTCCATGCATGAAGGTTTAAATGGAGGTGTTTCTCAAGTTCAAAGTTGGCATT
TCATGGATGATGAATTCAGCGATGATGTTCTAGATTCTATGAATTCGAGTGAGTGCA
TATCAGAGGCTGTAGTGAAACAAGGAAAGGCCGTA CTCTTCCAAGGAAAAAAT
GTAACCCGCCTTCAGTCGCAAGTATTTCAAGAAGGAAACCACAAAAGTTGAGCTC
CTTCGATCTTGGAGCTGATGATGACTTGC ACTACAGAAGAACTGTGTGTGTTATTAT
GAAAAGTTCAAGTCAATCAATTGAAAATCCATGTTTCCGAAGTGGAGATCACAAGT
CCAGTTTTTTTAGCTGGAAGAAAAGAGCAGTTGATGGCGTTATGCCACGGGTACAAC

AGAATATGTTGAAGAAGATTTTATTTGCAGTACCTTTGATATATGGTGGCCACTCTCT
TAGGTTTCGACAAGGAAAATGGAGGAACAGATTGCCTCAAGAAATTGGAAGGCTGTG
AAACGTGCAAGGAGCATTATAAATCAGATAAACAAAGAGTGAATGACAAATTTATA
GTACTCAGGTCGATGGTTCCTTCTATTAGTGAGATTGACAAAGAATCAATCCTCAGC
GACACCATTAACTACTTGAAACAGCTTGAATCAAGAGTAGCAGAACTAGAATCTTG
CAAAGGCTGGATAGATCACGAGGCAGGACACAGGAGGAGTTACATGGACATGGTA
GACCAGACATCAGATAACGACGACATCAAGAAGATTGACAATGGAAAGAGATCTTG
GGTAAACAAGAGGAAGGCCCTTGACATTGATGAAGCTGAACTAGAGCTTGATGGGG
TTTCTCCCAAAGATGGGATGCCCTTAGATTTGAAAGTATGCACGAAAGAGAAGGAG
GTTCTCATTGAGATTAGATGTCCTTACAGGGAGTACATGTTGCTTGATATCATGGAT
GAAATCAACAAACTGCAGTTGGATGTGCACTCAGTCCAGTCATCCACTCTTGATGGC
ATTTTCGCATTGACCCTGAAATCTAAGTTTAGAGGGGCAGCAGTTGCACCAGCAGGG
ATGATCGAACAAGCACTTTGGAAAATTGCCGGCAAGACTTGAATCGTCATATATCAA
CTGGTACTTGGATGGCTTATCCATTCAGTACAAATTAGTTCCTAGATTCTCATGTATC
ATGTAGCAGTAACTGCATGGCCTTGTAAGTGCATAACTTCAATTTCCCTCTTAACCTT
CTTTCCATTATCAAATGTTCAACCTTAGTGCTTGCCTAATTAGATCAAGTAGTGACTTG
TTAGAAGTGGTGGAGGAATCAAATCTTTCAGCGT

Potri.002G196200.1 (bZIP family)

CGCACCAAACGACCTCATTAACCTTCCTTTCTTTCGAATTAATTTGGGTCCTCCTATT
TTAGGGTTTCTGTTCCCTCAATAATCTCTCTCTCCTCCCCTCTCTGCGTTTTCGTCAGCT
AAGTATTCTTCTTTCAGTGTCTCTCTATTTTTGTTTTTAGATCTAGAGTCTCGGATCTA
ATTTTTGGGTGATTTCTTACTCTCGTGTTTTCTAAAAATCCGTGCTGTTTCGATTTGGG
GATCGAAAATTAGGGTTTTGTAAGAAGTACCAATGTTTTTAGAATTTCTATGAGTTA
CGCTATACTCATGCGTCGAATTCGGATTCTTCACTCTTCTCGGTTGTGTTTCTCTACT
GGTTTTATGTGTTCTCATGAATTAATCCAATTTATTTTCTAGATCTCGACCCCTAGGT
TCTTTTTACAATCTAATTATAACCGAATTGGATAGGTAGGTATTGAATTTATTTGATC
TTGTTAGCGAAGAATATAGAAATTGTAAAAAATGTCTGCAAGGCAAGCGGCGAGCT
CAGGATCGGATAGTGATCCGCGATATGCGAATGTGCGATGAGAGGAAAAGGAAGAG
GATGATATCCAACAGGGAATCTGCGAGGCGTTCCAGGATGAGGAAGCAGAAACAAA
TGGGGGATTTGGTCAATGAAGTGAGCAAATTGCAGAACGAGAACAATCAGTTGATG
CAGGGTATCAATGTTGGCCAACAACGCCGCATGGCGATGGAGTCAGCCAACAATGT
CCTGAGGGCTCAGGCTGTGGAATTGACTGAGAGGCTGCGGTCGTTGAACTCTGTGTT
GCAGATTGTGGAGGATGTTAGTGGGCTCTCTATGGAGATACCCGAAATACCCGATCC
TTGTTGAAGCCGTGGCAGCTCCCCTGTTTCAAGTAATGCCATCATGGCATCTGCTGAT
ATGTTTCAATATAGTGTGTTGTTGGCCTGTTCCGGTGCTTTGGTGGAAAGATGTTGTTG
TCTATCGTCCGGGGTTCATCTTTTGTGCTGCGTGGGTCTTTATAACAGCATGGTTTAA
GTCTTAGGTGGATGCTGGTATGGTGTGTTTGGATAGCAGTGTGGTTTTGTGCAAGTT
GTGATGTTATGGGTCCTGTTTGAATTTCAATCACTGTTTATAATGTAATCAATTTCCA
ATTTGTGTCATTTCCCTTACTGTTATGTTTCTCTGCAGCT

Potri.002G235400.1 (bHLH family)

GCTGTCAAGATAATTGCTTGTGTTTTCTTTCTCCTCTC**ATG**GAAAAAGACAAGTTGTTT
ATGAGCGAGGGAGCCAGCACAGCAGCTCCCATTTGGAATTCCTGCAGTTTTGGAATG
GAAATGCAAACCGATGAGCTGAATTGCAGTTCAGGGCAACTTGCCAATTGCTTTCTC
AATCCCAATTGGGACAACCTTATTGGATCAGAGCGATCCCTTTGAGTCTGCTTTGAGC
TCCATTGTCTCATCTCCAGTGGCATCCAGTGTCAATGCCAACGTTATTTCTAATGCTG
GCGTTGGTGGTGACAGTGTTTTGATCAGAGAACTTATTGGAAGACTAGGAAACATTT
GCAATTCCGGCGAGATGTCTCCACAATCCTACATTAACAACAATAACAACAGCACC
AACACTTCTTGTTATAGTACCCCATTTGAATTCCTCCAAAGCTGAGTATTTCAATGA
TGGATTCACAGATGAGAGGAAATCTGCCAATTCCTGGAAACAGCTTAGTAAACCATC
CAAGTTTAGCACCATTTCTGCTGACCCTGGATTTGTAGAGAGGGCTGCTCGATATT
CTTGCTTTGGAAGCAACAATCTTGGAGGCCTAAATGGACAATTCGGATTGAATGAAT
CAGAATTGATCAATAGGATGATGCCCCGAGTAGAACCTGGTAAGCTGTCGAGAGTT
TCGAGTAACAATTCATGAAGGTCGCTGGATCGCAAGCAAATGTTCAAGAAAGCAA
TAAGAGCTCACCCAGGATGGGAATTTGAATTCGTATAAGAAATTCAGTCGGTTGTC
AAGACCTTCAACACCAGAGAATGGAGATTCCAGGGAGGAATCTTCAGTGTCCGAGC
AGATCCCGGGTGGGGAATTGAGCATGAAATCCCAGACTGATGCCAATTCAGGAAA
AGAAAATCAATTCCCAGAGGAAAAGCCAAAGAAACTCCCTCTCCCTCTCCCTCTGCT
TCTGATGTCAAGGTTGCAGCAGAGAATGATGAATCGAG**G**GCAAAAAAAGCAAATC
AGAGGACACTAATGGGAGTGACAAGGATTCAGCAAAGGCCATGGAAGAAGAAAAT
GGAAATCACAAACAGAAAAAAGACAATTCAAACCCGCCAGAGCCACCAAAGGACT
ATATCCATGTCAGAGCCAGAAGGGGTCAGGCTACAGATAGCCACAGTCTTGCTGAA
AGAGTTAGGAGAGAAAAAATCAGCGAAAGAATGAAGTTTCTTCAGGATCTTGTTCC
TGGATGCAATAAGGTTACTGGGAAAGCAGTGATGCTTGATGAGATTATAAACTATGT
GCAGTCATTACAGCGCCAGGTTGAGTTTCTGTCAATGAAGATGGCAACTGTGAACCC
GAAGATGGAAATTAACATGGAAACTTTCTTGTTCAAGGATATTTTCCAATCCCGTGG
ATCCATGCCACATGGTCTTTATCCATTAGATTCCTCCACGCCGGCATTCCCTTATGGT
TACCAATCCCAGCAAGGGTTAGCCCTACAAGATGGCATGTCCAGGAATGCAGAATC
CCAGTTCTCTATGAACCCATTAATGCTGCATTGCGGCGAAGCTCGAGTATGCAGTT
GCCTGCCCTTGATGGCTTTGGTGATGCTTCTCATCAGGCCTCAGCAATGTGGCAAGA
TGATCTTCAAAGTGTTGTGCAGATGGGATATGGTCAGAATCAGCAGCAGGACTTTCA
AGGCTCAGTGCCACCAACTCAGATGAAAATTGAGCTA**TG**ATTTAACCAATAAACAG
TCATTGATTCCACTGAGGCCCCCC**C**TCCCCAGAGAGAGAGGCCTGCCTCAGAATG
TACAGCCAGGTTCCAGTTTGCATCATCACTCTTTAGCAAGGAGAAAGACAACCTACT
CATCATCTATATATT

Potri.002G248500.1 (bHLH family)

ATGGAGAGTGAGTACTTTTTCAATGCAGGAGTCCCTCCACAAGCATTGCTCTTTGAA
CCAACCTCAACCTCTTCATCGATGCCA**A**TTTGGCAATCCCTCTCATCTCCCATGGAA
ATGCAAGATAATTGCTCAGCCC GCCGCTTGTTCAATCCAACCTGGGAAAAGTCAACG
GATCACAGTCCTCACTTTGAGTCTTCCCTGAGCTCAATGGTGTCTCTCCAGGAGTAT

CAAACGTGTAACGTGTCCAGTGAGAGCTTTATGGTCAGAGAACTGATAGGAAATCTA
GGAAACATTGACAACAGCAACAACCCTGGTGAGATCTCACCGCATTCTCAGCCAAT
GTTGGCAGCTTCAATATATTACAGCTGCCAATAACAGTGCCAACACCTCATGCTATAC
TACTCCTTTGAATTCACCACCCAAGCTGAATATGCCTGTCATGGATCAATTTTCGAA
AGAGCATTGGAATATCCCCAGTTTGGGAAAACCAATGGGTTTGAATTCCAGTGTGGC
AGAATTCACAGCTGATCCGGGATTTGCCGAGAGAGCTGCAAAGTTCTCTTGCTTTGG
CAGCAGGAGTTTCAATGGCAGAATCAGCCAGTTGGGGCTAAACAATGCTGAAATGG
CTAATGGATGTAATCCATTGATGGGAAATGGCAAGTTGGCGCGTGTGCGAGTAGTC
CTGACTCAAGGCAGTGGGATCTCAAAGGGTAACAAGAGTACTCCATTGCAGGAT
CGATCCGAATTGACAAATTCTCAGGAGTCCTCTGTATCTGAACAAATTCCAAGTGGG
GAGGCAGGTGTAAAGGCCTCCAATGAGTTAAATTCCAGGAAAAGAAAAGCACTTTC
CAAGGGAAAAGCAAAAACAATCAGCATCAAACCCACCAGCCAGTGCTACGAAGGAT
GCAGAACTGATGATAATTCAAACACGAAAAGAATCAAGCCAAATGAAGGAGAAG
AGAATGAAAATAGTCCTGTAAAGCAGAGGAAGAGCCAAAGGGCAGCGGAGATGA
TATCCAAAACAAGGCCAATTCAAGGCCTCCTGAGCCTCCTAAGGACTACATTCATGT
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GAGAGAAAATCAGTGAACGAATGAAGCTTCTCCAAGATCTTGTGCCTGGTTGCAAT
AAGGTCACAGGAAAAGCCCTTATGCTTGATGAAATCATAAATTACGTGCAGTCATTG
CAACGGCAAGTTGAGTTCCTCTCTATGAAGTTGGCTTCTGTGAATACCAGGCTGGAT
TTTAACATGGACTCTCATTTCAAAAGATATTTTCCAATCAAGCCAACCATTGCC
CATCCAATATTTCCATTAGATTCCCTCGGCACCGGCAGCAATATTTAGCCACCAACAG
CAGCAAAATCCACCACTGCATAGCAATATTTCTAATGGGGCAGTGACCCACTGCTCT
GTGGACCCATTAGATACCACTGGACTGTGCCAAACCCTCAATGCTCAGTTACCCCCG
CTTGATGGATTTACCCAAAATGCTCATCAGTATCCAACATTCTGTGAAGATGACCTG
CAGACCATTGTTTCAAGTGGGTTATGGCCAGAATCCAAACCTGGAAACATTTCTGCCA
CAAAATTTCCATGGTTCAAATCAAGTATCCACATGAAAATCGAGCTCTAAATCACCA
TTCTTCAGTCCAAAATTAAGAAGGAGAGAAAGGGCGCTGTACATACAAGAAATCTT
ATATGGACCAACCCAGGAATCACTAAGCAATTTTATCATTAGGTTGATGAGGAAGA
ATTTTTTTTTTTTCCCCATGATTTTACATATTCCTGATTTTTTTTCCCCCTCAAGATCCT
TTTTTTCAAGTTTCTTGGAAGTATCCACTGTAAAATCCTAGCCTAGCTCTTATGTAT

Potri.003G048700.1 (Whirly family)

CTCACTCTCTGCATCAAAGATGAAACTATCGAGATTTCTGAACTTCAACAGGAA
TGCAGTTGGGAAACCTACTGATGTTAGAGATGGTTCAGCATTGCATGCTTTAACTTT
CCAGGCTAGCATTCTACTGGTGGGAAGAGTTCTATTCAAGATCGTGTATTTGCTCCT
TATTCTGTTTTCAAGGGTAAAGCTGCGCTCTCTGTTGAACCTGTTCTTCCAACCTTCT
CTAAGTTTGGTTCTGGGAATCTTAGAGTTGACCGACGTGGTTCTATGATGTTAACTTT
CTTGCCTGCTATAGGTGAGCGTAAGTATGACTATGAAAAGAGACAGAAGTTTGCTCT
ATCAGCAACAGAAGTGGGATCTTTGATAAGCACGGGTCCCAAAGATTCTTGTGAATT
CTCCATGATCCCTCAATGTTGTCAAGCAATGCTGGCCAAGTGAGAAAGAACTTATC
AATTAAGCCACACGCAGATGGTAGTGGCTATTTTCGTTTCATTAAGTGTGTCACAA

CATCCTGAAAACCTACCGAACGATTTACTGTTCCCTGTCACGACTGCTGAATTTACAGT
TCTGAAGACAGCTTGCAGTTTTGCATTGCCCCACATCATGGGTTGGGATCGGTTGAC
TACTCCACTGCCTGGAACCTTAGCATCAAAGCTGTCAAAGTGGATCCACAAATGCC
TGATTTAGAATGGGATAAA**TGA**

Potri.003G051600.4 (bHLH family)

ATGGCAGGAAACCCTAGCTGGTGGAGCATGCATCCACCTTCACAGCAACCTTCTGCT
TTGTTATCATCTTCTCCATCTAGCTACCCTTCCCAATATGTACTTGGATCTTCTCCATT
CCCTTTGAATTCTCTGCCTGATAACCAAGAGCTTCCACAGTCATGGAGCCAACACTACT
TTTGGGTGGTTCGTCAGGAGATGAAGATAGGTACGGTCTGAGTCAATTTACAGCCTAA
AAAGTTGGAAAATTGGGAAGACCAAATCTTAAATCCGTCTCCAAGTATTTCTTTAGA
TGCTGATGTAAAGCAAGAGGTTTCCCAACAATAGCAACTTATATGGTCATGGGGAAG
AAGACTTTCAGGCAGCTAGGCCACAGCTTGGCCACAAGCGATGCCGGTCTCTTCCC
CTAGGTCTTGCCTCACAAAGTTAAGTAGTAGTACTAGTATATTAGACTTCTCTTACAA
CAAGGCAGATGGGGCAAGTCAGCATCCAGATCAGTCATCTGAGTGTAACAGTACAG
CCACAGGTGGAGTGTGTAAGAAGGCTAGGGTTCAGCCCTCTTCAAGCCAACCTCTTA
AGGTGAGGAAGGAGAAGTTAGGTGATAGAATAACAGCTCTTCACCAAATGGTTTCC
CCTTTTGGAAAGACTGACACAGCTTCAGTCTTGTTAGAAGCTATTGGGTATATCAGA
TTCCTTCAGGGTCAAATTGAGGCTCTTAGCTCCCCTTACATGGGCACTGCCTCGCCA
AATATGAGGAACCAGCAACAATCTGTTCAAGAAGAAAGAAATAGTGCATTTTCTGA
AGACATGCGTCAGGATAATCAAGACCAGCCAAAGGACTTGAGGAGTAGAGGACTGT
GCTTGGTTCCCGTGTCTGTACTCAGCATGTTGGAAGTGACAATGGTGCCGATTACT
GGGCTCCCGCTATCGGAGGAGGGTTT**TGA**CCGATGTAATATGATTCGAAGGCCGTTT
CAAAGTTTC

Potri.003G081200.1 (ERF family)

ATGTACGGGCAGAGCTTACTTGATCAGCCCGATTATGCCTTTCTTGATCCCGTTCGCT
TGCATTTGCAAGGCGAAACTGTTTCTACTGCTCCCACCACTACTTGCAGCTACACTC
CAGCAATTACAACGACGACGGCTGCTCCAGCTGCTAATTATACTCCACCCCTTGTTT
ATTGCAGGAGCACAAAGCTTCAGCAGCTTGTATCCTTGCTTAACAGAAAACCTGGGGA
GACTTGCCACTCAAGGTCGACGATTCCGAGGATATGTTCCCTTATGCTGTCCTCCGC
GACGCCGTCACCGTTGGGTGGGTCCCATCACTCAAACCGATCAACTGGTGCAGCCC
AATTTCCCCTAGTGAAATTGGAACCCACAGAGAATCTGGCTGTCTCGCCGCCCTCC
ACGGCGGTTCCAGTGGCTGAGCCTGCGGTGCTTCCGTCCAAGGGGAAGCATTACCG
GGGTGTGAGGCAGCGGCCTTGGGGGAAGTTCGCAGCGGAGATTAGGGACCCAGCGA
AGAACGGGGCCCGGGTTTGGCTGGGGACGTTTCGAGACGGCGGAGGATGCGGCGTTG
GCTTACGACCGTGCTGCCTATAGAATGCGTGGGTTCGAGGGCGTTGTTGAATTTCCCG
TTGAGGGTGAATTCGGTGAGCCTGATCCGGTTAGAGTGACTTCGAAGAGGTCTTCT
CCGGAGCCATCATCGTCCGTGGACAGCGGGTCACCGAAGAGGAGGAAGAAGGTTGG

TGGCACGGCGGGTGCTGCTACAGTGGTGGCTAAAGCTGGGTTGGAAATTGGGAATG
GGGTTGGATGTCAAGTGGGTACCCATGGCGAGCAAATGTTGGTTATC**TAG**

Potri.003G087700.1 (ARR-B family)

CCTGTTTCCATTTAAAGAATTCCCAATTTTGGTTTGAAAGTTTGTTCCTTTTCCTCTTC
TTTTTTTTCCTGTCTATGCTTTGGATTTTCTTGTCTTTTTTCGGTGTATATTGCAGAGAT
CTTACATAGGTCTTTTAGTTTTTGTGTTGTCTTATAAACTGGCACAAGCAAATAAAG
ATCTTGAACCTTTGAGCAAGATCTTTCTCTTCTTACAGGTTTGATTTTGATGCTGATAA
GAAGTGATACCGGAAACTTGTCTGCGGCTTGAGAAACGATGCCAAGCAAGCT**ATG**G
TTTGTACCACTAATGATTTATCAGCATGGAAGGATTTTCCAAAGGGCCTCAGTGTCC
TTCTCCTTGATGAGGACAACAGTTCTGCTGCTGAGATAAAATCGAAACTGGAAGCAC
TGGACTATATCGTTTATACATTCTGCAATGAGAATGAAGCGCTCTTAGCAATTTCAA
ATGAACCTGGAAGCTTCCATGTTGCTATAGTGGAGGTGAGTACGAGCAATAGCAAT
GGGAGTTTCAAGTTTCTAGAACTGCAAAGGACTTGCCTACCATTATGACTTCAAAC
ATTCATTGCCTGAACACCATGATGAAGTGCATAGCGCTTGGTGCAGTTGAGTTCCTT
CGGAAACCACTCTCTGAAGATAAACTAAGGAATATATGGCAGCATGTGGTTCATAA
GGCATTTAATGCAGGTGGGAGTGTTCATCCGAATCACTAAAGCCTGTCAAAGATTC
TATAGTTTCTATGCTTGAGCTCAAAGTGGAACTTGAAGAAAACGAGGATGAGAACA
TGGAGAAAACAGAAAATGCGTCTTTGGCTCAGGAAAGCAATGAGCAGCAGTCACCA
GCTAGTGATAAGCATCCAGCTCCTTCAACTTGGCAATTTAAACAAGTAGGGCGGCTG
CTGGATGATGGAGATTGCCAAGACCATATTAAGTCTCAGTAGAAAAGGATAGTGG
GGAGCAAGAGGGGGAATCTAAATCTGTTCGAAACAACCTTGTGCCATGTCTCAAGAAA
CTCTAAAAGCAGGGCATCCTCCATGCTTTATAGAGACTGTGATCAAAGAGACAGGT
GACTTAACTGATGGTGCCAAGAGTGAGAATAACATACATCCCAATCCACAAAATAA
AGACAGTCTCAACCATTCTAATGATGTTGCTTCTGATCTTCATACTTCCAATGGGACT
AGAGCTAATCGAAAGAAGATGAAGGTAGACTGGACACCAGAGCTTCACAAAAAATT
TGTGCAAGTGGTGGAAAACTAGGTGTAGATCAAGCAATTCCTTCACGAGTATTAG
AGCTAATGAAAGTGGAAAGCTTGACTAGGCATAATGTAGCAAGTCATCTGCAGAAA
TATCGAATGCGCAGGAGGCCTATTTTGCCCAAGGAAGATGACCGGCGATGGCCACA
CCATAGAGAGCAAGTACAAAGGAG**C**TATTATCCATATAAACCTATCATGGCATAACC
CTCCATATCATTCTAACCATGATCTTCCAACCAACCCGGTCTATCCTATGTGGGGAG
CAACAGGTAGTCACACAGCTAGCATGCATACGTGGGGCACACCAGCTATCTCCA
TGGCCCCAACAGAAATTTGGCACAGGAAGCCTTATCTAGGGATGCATGCGGATGC
ATGGGGTTGCCCTGTGATGCCACCATTGCATAGTCTTTTTTCTTCTTTTCCTCAAAT
GCATCTGGGTTTCAAAGTGCCAGCATGGTCGATAACAGCTGTGGCATGCCACAAAA
ACCTTTTGACCTACAACCGGCCGAGGAGGTGATCAACAAGGTAGTGAAAGAGGTA
TCAACAA**A**CCTTGGCTACCGTTGCCCATAGGCCTCAAGCCCCCTTCTACAGATAGCG
TCCTAGCGGAGCTCTCCAGGCAAGGCATCTCATCAATTCCTCCCCTTTGCTCTAATTC
CTTC**TAA**TGTGGTGCCATTTAATCAGATTATGGTAGCTAACTCTAGTTCAGCTGGTCC
TTCATCAGTCGTCATCAAAGATTAGACT

Potri.003G155700.1 (MYB family)

CTAAATGGTGAGCTGTGATGATATGCAGGAGGGTTTGGGAAATAAGACGGGCCACC
AATGCTGCAGCAAACGGAAGGTCAAGAGAGGGTTATGGTCTCCAGATGAAGACGAG
AAGCTAATAAAATATATAACCACCCATGGCCATGGTTCTTGGAGTTCTGTTCCAAAG
CTAGCAGGGCTGCAAAGGTGTGGAAAGAGTTGTAGATTGAGATGGATAAACTACTT
GAGACCAGATCTCAAAGAGGGTTCGTTTACTGCACAAGAAGAAAGTATCATCGTTG
AGATTCACAGAATGCTAGGCAATAGATGGGCTCAAATAGCTAAGCATTTCCTGGT
AGAACTGACAATGAGGTCAAGAACTTCTGGAACTCGTGCATCAAAAAGAAGCTCAT
TGCACAAGGGTTAGATCCAAAACTCATAATCTCCTCTCTAACAATTACAAACATAA
CAATAACAATAATGCATGCGAACTGATCTCTTATCAATATCCCATCAACAAACCAC
CTCAACTTTCACAGTAGATTCACAAATCAATGATACTTCAATGGATATGAAAGCACC
CCTCATTCCATTCCCTACGATTCCCCAGTTCCTGATACCAATCCATATCCCCCCTTG
TTGCACAAATTCTCTTCCATATCAACATGTGAATACCAAAACCCTAATACTAGCT
TTCTTGGAGTCTGGAAGCAAGTCTTCAATCGGAAGTGTCCCTGTATCCTCTTCTACTT
CACATCCATCTGAGTTTGGCATGCTAGATGAGACCTGCATGTGGGCTGGTGGCTATG
AACTCATTCAATCCATAAAATCTGAAAAAGAGCAGCCAGAACAGCAAGTGGAATTA
ACGATTGAGAAGACCAATGAGTTAATAGGTGCTGGGCAGAATATGGTTGCTTCATTT
GAAACTTCCACCTTCGATTTTGATTTTGTGGAGTCTACTCTATTGCCTTGTGGGATGT
ACTATAACCCTAGTCCCATAGTTCAACCTGCATGGAATTCATGGGCCTTGCAAGAGA
AAAAGTGAATTGGTGCGGCGATGAGAGATTTCACTCTG

Potri.004G050200.1 (ARF family)

GAGTCTTGACTCCAATCTCCTTTTAAGTCATTACCAAAGTTGCACTATAATGCAGCC
ATGAAACCTCTCCTTATTCACAAAAGCACTTGTCTTTTGATAAATCTTCATTATTGTT
ATCAACAACCTCTCCTTATTATTATTAGTCTTCAAGAACTCTACACTATTCTTGTCTT
GTTGTCGTTGTTTTTGGCTTAGGTAGGCTACATAGCTAAGGCAAAAATGGTGGGTAT
GATAGATCTTAACACAACCTGAAGAAGACGAAACAACACCATCTTCTGGGTCTTTATC
TTCTCCATCATCGTCCTCTGCTGCTTCTGCTTTAAGTGCTTCTGGTTCTGGGTCTGGTA
CTTCTCCTGTTTGGTGGAGCTTTGGCATGCTTGTGCTGGCCACTAATATCTTTACC
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TTTGCCTCTTGGGATTTATGATCTCCCTCCTCATGTCTTCTGTAGGGTTGTTGATGTCA
AGCTCCATGCAGAGGCAGCAAGTGATGATGTTTATGCACAGGTTTCTCTGGTTCCTG
AGAGTGAGGAAATTGAGCAGAAGTTGAGGGAGGGGGTATTTGAGGGAGACGGTGA
AGAGGAGGATGTTGAAGCCACAGTGAAGACAACAACACCGCATATGTTCTGCAAGA
CACTAACTGCTTCTGATACCAGCACTCATGGAGGCTTCTCAGTCCCTCGTCGAGCTG
CCGAGGACTGCTTCCCTCCTCTGGATTATACTCAACAAAGGCCTTCGCAAGAGCTTG
TAGCAAAGGATCTGCATGGCTCTGAGTGGAAGTTTCGACATATCTACAGGGGTCAAC
CTCGGAGGCATTTGCTCACTACTGGATGGAGTGCGTTTGTCAATAAGAAAAAACTTG
TCTCTGGGGATGCTGTGCTCTTCTCAGGGGTGAGGATGGAGAATTGAGACTGGGAG
TTCGAAGAGCAGCACAAGTTAAATGTGGTCCACTTTTCCGGCTCTTTGGAATCAGC
AGTTGAATCAGAGCTCTCTTGC GGATGTAGCTAATGCTATTTCTATGAGAAGTGCTT

TCCGCATTTACTACAATCCAAGGGCCAGCTCATCAGAGTTCATTATACCTTTCAATA
AGTTCTTGAAGAGCCTTGACCAATCCTTTTCTGCTGGAATGAGGGTCAAATGCGTT
TTGAAACTGAAGATGCAGCAGAAAGAAGATATACTGGACTAATAACTGGAATCAGT
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GATGATACGGAGGCTAACAGACACAGCAGGGTTTCTCCTTGGGAAGTTGAGCCTTCT
GGTTCTGTTTCTGGTTCTGGTTCTAGTTCCAATAACTCTATGGCACC
TGGTTTGAAGAGAAGCAGGTCTGGATTGCCTTCATTGAAGGCAGAATTTCCAATCCC
TGATGGGATCGGAGCATCAGACTTTAGGGTATCTTCAAGGTTCCAGGAGGTCTTGCA
AGGTCAAGAAATTATGAGTTTTAATACTCTTTATGATGATGTTGATGGTCAAATCA
GCACCCATCTGAAATAAGGAGTCGGTTTCCTGGTTCACATGGATCTGGGATTGCTGC
AATAGGAAGTGGTATCAGAGGCTCAATCCCACCTCTGAAAATTCCTTTAAAGGCAT
AGGCTTTAATGAATCTTATAGATTCCATAAGGTCTTGCAAGGTCAAGAAATATTCC
TCGCTACCATATAGAAGAATTCCAAATGCTAACAAGGCTCGTGAAAATTGTGGTCT
TGGACTCTCTGATGGTGTTCAAAGGTCAAGCTCAAGAAATGGATGGTCTACCATGAT
GCAGGGCTATAAATACTCAAATGCGACCTCCTACACAAGTATCATCACCATCATCAGT
GTTGATGTTTCAGCATGCTAGCAATCAAGTTTCAAACCCAACCTCCATTTTAAATTCC
AATGATCACGAGGAGCAGACAATAACTCAAAGTTGGTTTTATCCTGAAACACA
TGGGGGGAAATTCAAGCTGTCCTCACATTCTGACCCTGGTCTAAGAGGAGACAGCC
AATGCAGCACGAATCCTTATGTTCTTTCCCACGAGCATCTTCAGCATGGCATTTCAC
AACCTGTTGTAGCTCAATCAGCCTTTAGGAGCAGTCAAGATATGGTGTGTGCAAAA
GCAGCTGCAGACTATTTGGTTTCTCATTGACTGAGGATAGACATGTTGTCAACAAGG
AAGACAATATTGCTTCAATAACATCTCCATTGAATCCTGAATCCTCTTTTCTGCCTCG
TGTTGGAGAACAGCTCCATCCAAAGCCTCCAGCAATAAACAATGCAGTTGGGAGCA
GTTGTACCAAATGGGTGCCTTTTTGCTACAGTTGCCTATGCTATTTGCTCTGTAGAG
CTTTGTGCACGAGTATAAAACCTCTGTGACTGCAAGCCTTGCCACTCAAATGGCAA
CTTCAGTATGATTGGTGCAAAAAGTTAAGGGTGGCATCGTGTGCTTTTAG

Sequence with Blue underline represents the premature termination codon.

Potri.004G071600.4 (GRAS family)

CAGCTAATTCCAGGAATGGACCCCTCTTGTCATAAAATTGATGGATTGTGCTAAGGCA
ATTGCAGATGGTGACCTGAAATTTGCAGATCAGCTTTTTAGCGATATGGAAGCCCTG
TCAGCTGCGGAAACCAACCGAGTGACGAAAAAAGTCGTGAGTATTTTGCTGAAGC
TCTAGCCCGGAGAGTCCATGGAGTGCATCCTCGAAATCCTGTCCCATTACTTCCTTC
CTCAAATTTAAAGAAGATCAGCTATGAACCTTCTCCTCTTGAATGGTTTGCTTGTATG
TCCACCGACTATGCCATTCGTGATGTCTTAAACGTTAAAAAAAATAAGCTCCACCTT
ATTGAGATTTCCAGCTTGGTAGACTTCTGGCAGCGGCGTAGTTTGGAGGAATTCCTC
TTACACGGGCACCATGGCATGCCCTTGTCATTCCAGTACACCAGTAGTAGACCAAAA
CTGTCAAAAATGATGATTATCTTCAAGAAAACCGACGGATGATCACTGAAGTAGT
CCAGAGGTTTCCGGTTGATTTCAAGTATAGAGCATTGTTTGTGCTGATAGTGTACCTGA
TATAGTAGAGTCTGTGTTGAGACTTGAAAGAACAAGCGAGGATGAAATAATAATTG
TGAGATGGGTGTTTCAACTGCACAAATTGCTTGCACCTTGAAGGAGCAGTTGATAAAG

TGTTGTCAAAACTGAAAGACCTAAAGCCAGATATCATGGTAATTGTTGAACAGGAA
GCTGACAATAACACTGACGATTTCTTTTACCGCTTTGCCTCATCATTCAAATACTACC
TCAGCCTTTTTGAATCTCTAGAGCTCTATGCAACCAACTTAAGTTCCTGATTTGGGA
AAGACATTTGAGGTGGCAGATATGCAATGTGGTTGCAAGTGAAGGCATTGAACGGA
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AAAATAGAAGAAAATAGCGGATTTCTGTGCTGTTGGCAGCAGGTCACCCACTAAT
CTTCGCGTCAGTTTGGAACCTGCTAATGCAGCTCATTTCAGTGGTAAAATATTGG
CAATACAGATGACACAATGAGAGGGACTGACCTTAATCATCCTATCACAAATAAAG
AAGAAAGTACATCTCCAGTAGTTGAGCCAGAGGCAGTAAGCTCTTCAGAGTTCGCT
GAGCCAGAGGTAGTAAGCTCTTCAGAGTCTGATGACGACAATGAGTATGTTTATAAT
AGAATAAGGGGATTGACGCACGGAAAGATATGGTCTGTAGAGGAGGTACGAGAAT
ATTTGGTTTCTCCTTTTACAGAGAAGGAATCAAAAAGACTCAGCAGGTGGAAGTCTC
GTCAACTTACCAGGAATGTTGCTGGACGGGATAAGCAATTGAATGTTCCCGATACAT
CACTAGCAAGTCTGCTTAGGATTCCTCCATCAAGCACCCCAATACGCGAGGAGAAA
CAATATTATGTTGATGATTCGGTTATAAATGCATTTTTTCGACTTGCTGAAGAAGAGA
CAGGAGAAGTTTCCAGACTGGTACAGGAGGAACCTCCTCATTGCCAACTTGGACAAT
GACCTTCCTGCTTTCTGGAAAATGGACCATGACAAAACACTACTATCTTGCATAAACAT
TGAAGAGATAGCAGGCACATCAAAGTTGTTTCATACCGTTGTGCTTGGAAAATCATTG
GATCCTCATTGTGTTGACATGGAGAAACGGGGATTGCTGTGGTTAGATTCATAAA
TTCTCCTCCTGATGCTCATCATACGGAAAAGGCTACAATTTTCAGAGTGGCTTGTA
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CAAGGATATTCCATACCAAACAAATCGAATAGATTGTGGCATATTTGTGATGAAGTA
TGCTGATTGTCTTGCACATTGCGATCACTCCCTTTTACACAACAAGACATGCCTCAC
TTTCGGCTTCGAGTCTTTCTTGACATATATCGTGGGAGACTACCTGTGCCACCCAGCC
ATGTTAGATTCTTAAGAGCCTTGTATAACATA TAG GATTCTCTGTTGATGGATGATCC
TTCCACTTGTTATGTGGAGAGAAATGCAGGAAGCTGTATTATAACTAAGGTACTAAC
GCAGGGCCTTTTTGCCATTGTTCCACTTGTGTGATAGAAGGTTGAGGGAGTGGGG

Potri.004G078800.1 (GRAS family)

ATGCGTTTCTCTCTGTGATCCTCCAAGAAAACAAGAAAGGGGTTCTTGGAAAACTC
AAATTCTC ATG GCCTCTGGGTTTTTCAGGCGGTGGCGGTGGCGGTGGCGTCC
AAGATTTCTACACCAATAGATCACCTATTATACCCACCATGAACCTAACAAATAACC
ACCACAACCCATCATCACTGCCTCCTTATAGAACCAACCAAATTTTTCTTGACCAA
ATTTGTCTTCTCATAATTACCAACAGATCGCTCAACATAGAGCAATCTTTCCACAA
CCACCGCTACCACCACCTTGATCGGCAAGCGAACACTTGCCGATTTTCAAGCATTT
ACAATCACCACCGCAACAAAACCTG T TAAACCAAGCAGCACTGAACAATCTTCTT
CTCCGGTCTGTAAAGCCGAGGATTAATAACAATATTTTCCAACAGAACACGTCTCCG
ATTTCCACCCTTGATTTCTCTGTTAGCAACCTGTCTCCTGAGCTCCCTTCTTAATGTC
TCAACGTTACGGGCTCCCTCTTCTTCAACAGCTTCGACCCCAACACCACCAACAACA
TCAGCAGCAGCAGCCCATGAATCTAATTAGTCCTATTGGTATCATCAACAACAACAG

AAGCAGCAACAACAGCATGATGCCGTATGTGAATATGTTACAGAATCAAAAACGGAG
GAGGAAATGGAATAGTTATGGGCCAAGATCGGGAGAAAAAGATGCTGAACCAGCTT
CAAGAACTGGAAAAACAGCTTCTTGACGACGACGACGATAACCAAGAAGGTGATGC
CGTCAGTGTTATAACGAACACTAACAGTGAATGGTCTGAAACAATACATAATCTCAT
CACTTCTTCTTCTTGTAAATAATCCGATTTCTCCATCACCCACTTCATCATCTTCATCCT
CATTTTCAACGGTCACAACCTCCGGTTTCGAAACAGACAGTAATCGAAGCAGCATCAG
CAATTTACGAAGGTAAAACCTGATGTTTACACTGAGATCTTGACTCGTGTGTCTCTGG
TTTCGAGCCCAGGAGGGAATTCTGAGCAGAGATTGATTGAGTACATGTTGATGGCTT
TAAAATCCCGGCTTAATTCTTCTGAAAACACAACCTTCTGTAATGGAGCTGTATAGCA
AGGAACATGTGGATGCAACCCAGTTGTTATACGACCTGTCTCCTTGTTTCAAACCTTG
GTTTCATGGCTGCCAATCTTGCCATCATTGACGCTACAAGAGAGCAAGAACAAGAG
GCCAACACTTCCAGCAATGGCTTCCATGTTGTTGATTTTGATATTGGTCATGGAGGG
CAATACAAGAACCTTCTACACGCGCTTTCTGGGCTTCAGAATTCGAAGCCAGCCATT
GTTAAGATCACAGCCGTTGCTGCTGATAGCAATGGCGTAGAGGAGGAGAGGCTGAG
GCTAGTTGGTGAAACGCTTACCCAACCTCGCTCGTCGAGTTGGTCTGAATTTGTGTTTC
AACGTTGTGAGCTGCAAACCTCAGTGAGTTGACTCGGGAGTCCCTCGGGTGGCAGCC
GGACGAGGCATTGGCTGTCAATTTTGCCTTCAAGCTGTATAGAATGCCGGACGAGA
GCGTGTCTTCCACCGAGAATCCCAGGGATGAGCTTTTGAGGCGCGTGAAGGGGCTG
GCGCCGCGCGTGGTACTGTAGTGGAGCAAGAAATGAATACCAACACGGCCCCATT
CATGGCGCGCGTGAACGAATCCTGTTTCATATTACGGAGCGCTATTGACTCGATTGA
GTCAACGGTTAAAGGGGATAACTCGGAGCGAGCCAAGGTCGAGGAGGGACTGGGG
CGGAGGATGGTAAACTCGGTTGCTTGTGAAGGGAGGGACCGTGTGAAAGATGCGA
GGTGTGTTGGAAAATGGCGGGCCCGGATGGGCATGGCAGGGTTCGAGTTGAAGCCTC
TGAGTCACAACATAGCCGAGTCGATGAAAACGAGATTGAGTTTAGCAAACAGAGTT
AACCCAGGATTTAGTGTTAAAGAAGAGAATGGTGGGGTATGTTTCGGTTGGATGGG
AAAAACTCTCACAGTCGCATCTGCTTGGCGTTAA

Potri.004G158200.1 (bZIP family)

TGCCGTTCTTGTGTTAAAAGTTGCAAACCTGTTTTGTGGGTCTCTCATGGCTTCTCTA
GTGGAACATCTTCGGGATCATCTTTGATTCAAAAACCTCAGGTTTCGGAGGAGGATTTGC
AGGCATTGATGGATCAGAGGAAGAGAAAGAGAATGATATCAAATCGCGAATCGGC
GAGGAGGTCTAGAATGAGAAAACAGAAGCATTGGATGATCTAATGGCTCAAGTGT
CTCAATTGAGGAAGGAGAATCACCCAGATTATTACAGGCATCAATATCACAACCTCAG
CGTTACTTGAGTGTGAGGCTGATAACTCAATCCTAAGAGTTCAAATAAGCGAGCTC
AGCAATAGATTGGAGTCTTTGAATGAGATAATCGGTTCTTGAATTCAAACAATGGT
GTTTTTGGAGACTCGATCACCTTCAATGAACCAGCAGCTGACAGCTTCTTGAACCCA
TGGAACATGGCCTACCTGAATCAGCCTATAATGGCGTCTGCAGAGATGTTTCATTAC
TGAATCTGTTCTCGAGCAGAAGAGAGATAGAGAGATCTGTTTAGTAATAATCAAGCTT
AAGAAATTACTCAAGAGCTGATTATAATTTAAGTAGTTTGAATAAAGGCAACAT
ATGTAGAAGTCACGGGGTGG

Potri.004G174400.1 (MYB family)

CATTGAGGTTACCATTCTACTTGTAAATCCTACTGAAATGGGAAGGTCTCCTTGCT
GTGAAAAAGCTCATACAAACAAAGGCGCATGGACTAAGGAAGAAGATGATCGCCTT
ATTGCTTACATTAGAACCCACGGTGAAGGTTGCTGGCGTTCACTTCCTAAAGCTGCT
GGCCTTCTAAGATGCGGCAAGAGCTGCAGACTTCGTTGGATCAACTATTTAAGACCT
GACCTTAAACGTGGCAATTTTACTGAAGAAGAAGATGAGCTCATTATCAAACCTCCAT
AGTCTCCTCGGCAACAAATGGTCACTTATAGCCGGAAGGTTACCAGGGAGAACAGA
TAATGAGATAAAGAATTATTGGAACACACATATAAGAAGGAAGCTCTTGAATAGAG
GCATAGATCCTGCGACTCATAGGCCACTCAATGAACCAGCCCAAGAAGCTTCAACA
ACAATATCTTTCAGCACTACTACCTCAGTTAAAGAAGAGTCGTTGAGTTCTGTAAA
GAGGAAAGTAATAAGGAGAAGATAATTAGCGCAGCTGCTTTTATATGCAAAGAAGA
GAAAACCCAGTTCAAGAAAGGTGTCCAGACTTGAATCTTGAACCTAGAATTAGCCT
TCCTTGCCAAAACCAGCCTGATCGTCACCAGGCATTCAAACCTGGAGGAAGTACAA
GTCTTTGTTTTGCTTGCAGCTTGGGGCTACAAAACAGCAAGGACTGCAGTTGCAGTG
TCATTGTGGGTACTATTGGAAGCAGCAGTAGTGCTGGCTCCAAAACCTGGCTATGACT
TCTTAGGGATGAAAAGTGGTGTGTTGGATTATAGAGGTTTGGAGATGAAAATGA

Potri.004G211800.1 (GATA family)

GCAAGCAAGGAAGCAATGAAGGAAGGGATGAGTAAATCTTGGTTTTTCGACAAGGA
TTTCAGTGGGGTTCCGGATAATTTTTTCGAGGATACTTTGGGGTGCTTTGATTTCCCA
TTGGAAGATGTAGAACCAAATGGTGATGATGGAGAAGACTGGGAGTCTAAATTCCG
ACATCTCGAGCCCCCTTCCTCTAATCTTTTAACCACTTTTTCAACCGCTCTCTGTGGT
GAAGATGCCTCCTCCCTGGAACCAACTATAACTCTTGTTTCGGTTTTGCTTAATGGAT
CTTTACAGTTAAAACATTGGGCAAGCTCTGCTGAAGCATCTTCAAGCAGAAGCAAAC
CCATCCTTTGTTCGGTCTTCAGACAGCAAATATTCTCATCTGTTCCAGGCCACCAGCCC
AGTTTCTGTCTGGAAAGCAGTGGCAGTTCTTGTCCACCGAAAATGCGACAACATA
TTACCCCAAATTTGTCACACCAGTAAAGCGCCCTCGAAGCAAGCTGCCACGCCTCCG
GCGACAGACATTCCCTTTCATCCCCACTGCCTGTGCCTCTAAAAAGTTTTATTGTTTCG
GCTTCTTCAGATCCAGAATTAGAATACTATAATGATGAGGAAATATTGGATTCTTCC
AGGAAACAACAGAAGAAAAGGAATCTGATGCTGCTATCTTCTGCAGTAGAGATGGC
GCCGAAGATGAAGCAGCCAGTTGAAACCAGGAGATGCACACATTGTCAGGTGACAA
AGACTCCACAATGGAGAGAAGGACCATTGGGGCCAAAACCCTTTGCAATGCTTGT
GGGGTTCGGTACAGATCAGGCCGCCTCCTTCCAGAGTATCGACCAGCTGCCAGCCCT
ACCTTTGTTCTTTTTTGCACCTCCAACCTCTCACAGGAAGGTGTTAGAGATGAGAAAG
CAGACGTAGCAGGTGACCC

Potri.005G001600.1 (MYB family)

CATTGCAGGTTTTGTTGCACTCCACATGGGAGGCATTCTTGCTGTTACAAGCAGAA
GTAAAGAAAAGGCCTGTGGTCTCCTGAGGAAGATGAGAACTTCTGAATTATATTAC

TAAGCATGGACATGGCTGTTGGAGCTCTGTCCCTAAACAAGCAGATTTGCAGAGGTG
TGAAAGAGCTGCAGGTTAAGATGGATTA ACTACTTGAGGCCTGATTTGAAGAGAG
GAGCATTTTCACAGCAGGAAGAAA ACTTGATAATTGAACTCCATGCAGTTCTTGCA
ATAGATGGTCTCAGATTGCAGCACAGTTACCTGGAAGAACTGATAATGAGATAAAG
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CACTCACAAACCTCTCTCTGAAGTTGAGAATTGTAAAGAGAAGCAGCAGCCTACAG
CTGACAAGAGCAATGAGAAAAGTTTCTAATGTATCAAATGAACTGAACCTCATTGAG
GCAGCTACTTTACAACCACCTGCAATTTCTTCCAGCTCAAAGATCAACAACAGTAAG
GACAGGAATAGTAGTAGCAGCAACATGACAAATACACCACCGACAAAGGAATTCTT
CCTGGATAGGTTTGGTACCTCCCATGAAAGCTCCCCTGCCAGTTGCAGGCCTTCTGA
TTTGATGGGGTATTTTCTTTCCAGAAGTTGGATTACAAACCTAGTATAGGCCTCTCA
ATGAATCCAAATACC ACTCTCTGCTTCAATCCAAATTCCTCTTCTGAGATGATTTCTC
ATGAGTTCAATTCTTGTATGACACCACCGACTATTCTCCCATCTGTTTCAACCTCTAT
GTTCCAAACTCCAATACGTGTAAGCCTTCTGTTAGTCTTCCATCTGATCATAATCCT
TCTGTAGGCTCTTGTGATGTCAATGGGGTTCAGAACTGGGAAGCAAGTAGCTTCAGC
AACAAATGGAAGTGGAAGCAATGGAAGCAGTAGCAGTATTGAATTGCAAAGCAACAC
CAATTTCTACGAGAGCAGCGCTTTCTCATGGGGGTTAGCTAATTGTGGGAAATCCGG
CGAGGAATCTCACCTTCGGTCACTCGAAAACGACACAGCTGAAGACATCAAATGGT
CTGAATATCTTAACACCACATTCTTTCTTGGAAAGCACAATACAAAACCAAACATCTC
AACATGTGTACAGTGAAGTGAAACCAGAAACACACTTCATAGCAGAAGGGTCAAGT
GCTAGTTGGATACCGAACCAGCATCAACAAGCTTCACAGCCAGCAGACATCTATAC
CAAGGATCTGCAAAGACTTGCTGTGGCTTTTGGACAATCCCTT **TAGAC**

Potri.005G039800.1 (bHLH family)

ATGGCACTGGAGGCTGCAGTCTTTCAACAAGACTGGTTTGGCCACAGCAGCAAAGA
GCTCTACA ACTTGCTTGGTGGGAATTGGAGCTATGACTTTGGCCTAGACCAAATGA
AGAAGATCAAGACAACAGCTGCTCTTCTTATTTTCTCGAGAACCAAACAGAAACATT
TCTTCATGAGGATTGGA ACTCTTTCCAACCACCTAATTCCATGGTGCCTCACTTGAAT
GATTTGCACCTAACATGTAGCAACAATATTCCATCCTCATCAGATGCAAGCATTGAT
GCAGCAAATGGACTATTGAGTACTGCTCCTCCA ACTGGTGATCATCATCACC ACTTG
GGTGATTCATCAACAATGCCTGCTACTCGTGTTAAGAGAAGGAGATCGAGGAGTAA
GAAGAACAAGAAGAGATTGAGAATCAAAGAATGACTCACATTGCTGTAGAGAGA
AACAGAAGAAAGCAAATGAACGAGTATCTTTCAGTTCTGAGAGCTTTAATGCCTGA
GTCTTACGTTCAAAGGGGTGATCAAGCATCAATTATCGGAGGTGCTATTAATTTTGT
CAAGGAGCTTGAACAAAAGATGCAAGTACTTGGTGCCTGCAAAAAAATGAAGGAAA
ATTCTGATGGTGATAATCAGCAACATGTTTCTTCACTGCCTTTTCTCCGAGTTCTTTAC
ATTTCCACAGTACTCAACAAGCTCAATTCATTTGAAA ACTCTGTTGGCAAGAATGA
AAAGTTGCATAAGACTCAATCTACTATAGCTGACATAGAAGTGACCATGGTAGAGA
GTCATGCCAACCTCAAATAAGATCGAAAAGGGCGGCCGAAACAGCTCTTGAAGGTT
GTTTCTGGGCTGCATAGCATGCGCCTCACTGTTCTTCACTAAACGTCACAACGGTT
GATCAAATTGTGCTTTATTCTCTAAGTGTCAAGGTAGAAGATGATTGTAAGCTGACT

TCAGTGGATGAGATTGCTACAGCAGTGTATCAGATGCTAGGTAGGATTCAAGAAGA
GTGTGTGCTGAATTGT**TAG**AAAGTTTACTATTAATTTTCCTTTGTGGTTGGCCCTCTA
CACACCATATGAGGGCAATTTCTGCATTTTTAGGCAGTCTCTGAAAGGCTCATCGCG
ACTAATGTCTCTCCATTTTATTCCTAGTGTAGCTTAGTCTGGTTGGTCTAATTTGGA
TGTTTCTGTTCTCTATTTTGTAACTTTTTTCTCCACCTTTTTCTTTTTGTAGTTTTTCT
AGAGCATCTTGTGTATGAGCCACACATAGATGCTTGGTCAATTCAAACCATCTTTAA
TGCCTTGCCCAAGCATATTTTTTTGTTCTAGTTTGTACTAATACTCTCTCCTAACCTCT
ACGGCTCAACCTT

Potri.005G063200.1 (MYB family)

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TATCTTGCATATAAAGAAAAGTGACCTCTCATCTGTAGCCCTAAAACCAATTCCT
CCTGTTCCATCTCTCTGCTTATTCATCTTCTTATATTTATTGAAGATCTTCCCTCGTG
TGGGGTGATTTCTGCCATAATTTTGCAGTTGTGTTAGAATATTTATGTGAGTTTAAGC
TTCATGTGATGGAAGATTTTAGGGGTAGCTCAAGCAGTGATAGTGGGAGGACTAGTT
GTCATAGAGGGCACTGGAGGCCGGCTGAAGATGAGAACTTCGGCAACTTGTTGAT
CAATATGGTCCCTCATAATTGGAATTTCAATTGCTGAACATCTTCAAGGAAGATCAGGG
AAAAGTTGTAGATTGAGATGGTACAACCAACTTGATCCAAATATCAACAAAAGGCC
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GATGGGCTTCAATAGCTAGGCTCTTCCCTGGCAGAACCGACAACGCCGTGAAGAAT
CATTACCATGTTGTTATGGCAAGAAGGAAGCGTGAACGCTGCTTAACTGTCCATGGT
AAGAGAAGTAATTTCCAAATCCAATATCCTAGTGATCATCACCATAGAAATAGCAGT
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TCTAAATTAGGGTTTCAGAATAATATTATTGAAAGAGCGGGTAATAAGATACCCATG
TCCTCAACAAATTCATCTCCTTCTTGGACTAACATTAGTGCTTCAAC**C**ATCACAAATG
ACTCATTAAGTTTTGATGTCTTTGATGCAAAAAGAAAGGATTATATTCATTCAAGCT
CTTCTTCAATATATCCTAAAGGGGGGCCACTTGCTTTGAATGAATCTCTTCACTGTAC
TTACCATCCTAGTTCTACCATTGATGGTGGTGATAAGTACCTAAATGTTGTTGGACA
ACAGATCCCTAACGCTAAGAAAGTTGTCCCTAATAATCATTTTGCATTCAAGTTA
TGGTGATGGTTATGGAAGCAATAAAGAAAAGATTATCGAAAGCCAGCTAGTGAGAC
TCGATAGCGATCATCATGACTCAGCTGCATTGTGGAAATTGCCAATGGCTTCTCAGC
AAGAGCAAGGAGATCATGGAGGTCAAGTTAAGAACCAGGACGTTGCCTTTATAGAC
TTTCTTGGTGTGGGGATCTCT**TAG**

Potri.005G090300.1 (TCP family)

ATGTCAGACAACAGTGGTGCTGTCAATAACGGAGCTTTGATAGACCCACAAAGAAA
CCAGCCGCCGGGAGGTGGTGGAGGAGGAGGACTACTAATGGAGCTTTAGCTGTTA
AAAAACCACCTTCTAAAGACCGTCATAGCAAGGTTGATGGTCGTGGAAGGAGGATT
CGGATGCCGATCATTTGTGCTGCTAGAGTTTTTCAGTTGACTCGTGAATTGGGTCAC
AAGTCTGATGGACAAACTATCGAATGGCTTCTTCGTCAAGCTGAGCCTTCGATTATT

GCTGCTACTGGGACCGGAACTACTCCTGCTAGTTTTTCTACTGTTTCTGTTTCGGTTC
GTGCTGGTGGTAATTCTAATTCAATATCTTCGCTTTCAGCAATAATGTTTCATTCAGC
TGCTTCTTTGGACCATAAGCCTTTGTTAGGCCCTGCGCCCTTTATACTTGGAAAAAGG
ATGCGGCCAGAGGAGGATGGAAATGGTGGGAAGGATGATGGTGGGGTTTCTGTGGG
CCCCACTATCGGGTCTTTAATGGGGCCACAGCAACAGCCGCAGCGGGGTCTGGCG
GGTTCTGGGCTTTGCCTGCAAGGGCTGATTTTTGGGGGTTTGGCTGCTGCACCTCCGG
AAATGGTTGTGCAGCCACGGCGGTGCAGCAGTCGTCGCTGTTTATGCACCAGCAGC
ATGCTGCCGCCGCTGCTGCCATGGGAGAAGCGTCGGCGGCTAGATTGGGGAATTAT
CTTCTGGTCATTTGAATTTGTTGGCTTCATTGTCGGGTGGGTCTGGGAGTTCAGGAA
GGAGAGAGGAGGATCAGCGTTGA

Potri.005G094900.1 (NF-YC family)

ATGGACCAATCAGAACAACACTCAACAGCAACAGTCCCAGCAGCAGCAGCAGCAACC
AGTAATGGGAGTAGCAGCTAGTGCAGGTCAGGTGGCCTATGCCTCTACTCCCTACCA
AACTGCTCCAATGGTGGCTTCTGGGACTCCTTCCATAGCCATTCCTCCCAAACCTCA
GCCTCCAGCCACCTTCTCTAATTCACCCACCAGTTACCTACCAGCAAGCCCAACA
TTTCCACCACCAACAGCAGCAACAGCAGCTTCAGATGTTCTGGACTAACCAAATGCA
TGAAATTGAACAACAACACTGACTTCAAGAACCATAGCCTTCCACTTGCTCGGATTAA
GAAGATAATGAAAGCTGATGAAGATGTACGAATGATTCAGCAGAGGCTCCTGTTA
TTTTTGCCAAAGCATGTGAAATGTTTCATCTTGGAGCTCACTCTGCGCTCTTGGATCCA
CACAGAAGAGAACAAGGAGGACACTACAAAAGAATGATATTGCAGCTGCAATTT
CCAGGACTGATGTTTTTGATTTCTTGGTTGATATTATTCCAAGAGATGAGTTGAAAG
AGGAGGGTCTTGGGGTCACTAAATCAACTATTCCTGTTGTTGGCTCTCCAGCTGATC
TTCCTTACTATTATGTTCTCAACATCCTGTGGGACCTCCAGGGATGATCATGGGAA
ATCCAGTTGATCAAGCAGCTACCTATGGAGCCCAGCAGCCACGACCTCCAATGGCA
TTCATGCCATGGCCACAACCTCAACCACAACAACCTCAACAACGGCAAAGCGACAC
CTGATCAGAACATC

Potri.005G126400.1 (BES1 family)

AGAGGGAGAGGGAGAGCGTTAGTGGGGGAGGGTTTGCCGGGGAAAATGACAGCCG
GTGGATCCTCAGCGAGGTTACCAACGTGGAAAGAAAGAGAGAATAACATGAGAAG
AGAAAGAAGGAGACGAGCTATAGCTGCCAAGATCTATACAGGACTTAGGACTCAAG
GAAATTATAAGTTACCAAAAACATTGTGATAATAATGAAGTCTTGAAAGCTCTTTGTG
CTGAAGCTGGTTGGATTGTCGAAGAAGACGGTACCACTTATCGCAAGGGCTGCAAG
CCACCTCCATCTGAGATTGCTGGCATGCCAGCAAACATCAGTGCATGCTCCTCAATT
CAACCAAGCCCGCAATCCTCAAATTTTGCAAGCCCTGTGCCTTCTACCATGCTAGT
CCCTCATCCTCCTCATTCCCAAGTCTACTTGTTCGATGGAACTCCTCCACGTACC
TCCTCCCTTTCTCCGAAACATAGCTTCCATCCCCACAAACCTCCCGCCTCTTAGAAT
ATCCAATAGTGCTCCTGTAACCCACCACGTTCTTCCCCTACATGTAGAAGTTCAA
GCGGAAAGTTGACTGGGAATCCCTCTCAAATGGCTCCCTAAACTCGTTTCGCCATCC

CCTTTTTGCAGCTTCTGCTCCTTCAAGTCCTACACGGCGCCCCATCTAACACCTGCC
ACAATTCCAGAATGTGACGAGTCTGATGCCTCTACCGTGGACTCTGGCCGCTGGTTG
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AACCAGTGGATCAACAGTGTGCTTTTCAGATTGGAGTTGATAGGCATGAAGGTTTGA
GCTGGGGAGTAGCAGCAGAAAGGGGGAGAGGTGCTGAGTTTGAGTTTGAGAATTGT
AGGGTGAAGCCATGGGAGGGTGAGAGGATTCATGAGATTGGGGTGGATGATCTTGA
GCTCACACTTGGAAGTGGAAAGGTCCATGGTCAAGCCTCCATTGATGATCTAGCCTG
GGAACGTAGCAACAAGTAGCTTGAATTCATTGCTGATTCATGGCGTAGTTGTTTTT
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AAGACTGCGAGTTCACATTTGATGCCTCCTATCGTATTCAGATCGA

Potri.005G231300.1 (bZIP family)

CCTCTTGTGGGTTTGTCTCGTTTTTGAGTTTTGATTTCTAAAGTCAAGATCTCGAAGA
TCCCAAGATTTTCTTTTCTTGTTTTTTAAGGCTGCTACTCTGCCAAAATCCTGTCAA
ATCTTGATGCTGCTGGTTTGGATCTTAATGTTTGGAGTTCATGTCTCCAGTTGTCAGT
GAAATCATCCGGTCCGGGTTTATGATCAATCCTCTTTCAGACGCAGGACCCATCTT
GTTCAATCTTTCTCGTTGTGTTCCTTTACTGGTTCATGTTTTTTCAGAAATAATCTT
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CAATTTGAAATCTGTAAGGTTAGAACAATATTAAGATCTCATTTTTTATTGAGATCT
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ATGTCACAACACAGCACTACTTGAATGTTGAAGCCGAGAATTCTATTCTAAGGGCAC
AAATGATGGAACCTGAACCATAGACTTGATTCTCTTAACGAGATCCTCAACTATATCA
ACACGAGTAATGGGATTTTTGAAAATGATCATCACGAGGATCTCCCTGATCATAGCT
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CTTTTTTATGTTGAATATTAGTTAACTAGGACCTAGAATGAAGTAATATTATGATTA
ATGAGAGTGGTGCATTGAGCTAAAAAAAATGCACCTAGAACAGGGGAAATTGAT
TGGTATTTTCATATTCTGGCAATTTGGCTTGTAAAGTTGTAATTTGTGCTATAAATAT
GGTGTGCAAGGCCCTGGATGTGTGTCATAATGTCCTGTCTCTTCTGAACGGTAAATT
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Potri.006G016200.1 (GRAS family)

GACGAGTGAATTTAGACTTGGCAGCTGCCTCGCTGTTTATAAGTGTTTCAGTGATTAT
AGCATGTGGCATTCCAAAAGTCATTGCGTTGCCAAGTGAAGGTGACAGTTCTGATAG
AAAAGGCTAGTTATCAATTCCACGATCTCTTGTCTGAGCTAAGCCCACCAGTGAAC

AGTTCTAGATGCAAACCTCTCAGAAACACCGATCAGCTGGCATCCATGGGTTTTACC
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AGACTCTGTATTCAGATGCTGGAAGCCAAGGAACCAGTGTTTCCTTTGAGACATGTC
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GTCTCTGGAGAGCCAATCCAGCGGTTGGGTGCTTATATGTTGGAAGGGCTTAGGGCA
AGGTTGGAACTCTCAGGAAGTAAAATCTACAGAGCCTTGAAGTGTGAAGCACC
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CTCATTTAGAGAACGATCAGTAGTGATGTTATCATTCTCATAGAAATGGGATTAGCT
TTTTTTGGGAGAATACAGCTAGTGTTGAGACAACCTCAAATCATTGTACATGTCCAC
CATGGAATGAAACAAGAGTAGGTCTGTGTTATTTGCAGTCTCGGAGTTCAAAGTATG
CAC

Potri.006G037100.1 (bHLH family)

ATGCAGCCTGAAAACCTGTCAGGAGAATTCACAGTTGTACCGGTTTCTTACCGAGAAT
GGAATGATTAACGTTGGTCCATACGGTTTTCCGGCTGCGATGCAAACCTTGTGTACC
TCATCTTCCACTTCCCTACCATAACAGTAATTACCACTTTGAAAGGTCTGTGATAACTG
ACATGACACCAGAAGATAGAGCTCTTGCTGCCTTGAAGAATCACAAGGAAGCTGAG
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TGCAATTCCAAGACAGACAAAGCTTCACTTCTAGCAAAGGTTGTTCAAAGAGTTAGA
GAACTGAAACAACAGACCTCAGAGCTTCCTGGACTTGAATCTTTCCCATCAGAAACC
GATGAAGTCACTGTACTTTCTGGTGAATATTCAAGTGATGGACAATTAATATTCAAG
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TTACATGTAAGGGGATCATAGAGCAGAAGAATCTAAGAATCTGAACTGAAGATGAC
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Potri.006G049200.1 (HSF family)

GGTTTATTCTGACTAACATGACATGGTTTATTCTGACTATATATATATACATATAAGA
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AGAAAAGAGAAAGGAAAAGACCTTGCATTTCTCATGAACTGTGGAGTCGTCTTGCT
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CTCCTTAAAAATCTTGAATATCATCCAATAATCTCCTTTTCTCTTTGTTTTTTTTTCC
TTTCTTCTTTTTCTTTCGAATAAATTCATGGCAGATGACAAGGGTTTATTAGAATATGT
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GGCGACCGATGATGTGATATCATGGAACGGGGAGGGGACCGGATTTGTGGTGTGGC
AGCCGGCAGAGTTCTCTCGTGATCTCCTACCAACACTCTTCAAGCATAGCAATTTCT
CTAGCTTTGTCCGGCAACTCAATACTTATGGTTTTTCGAAAAGTTGCAACGAGCCGGT
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CGTCGAAGAAAAGCTTGGACTAACAAGCAACAACCTATTGCACCGTTAATTCAAGT
CGCACCACAAGAGTTTGAAGAAGATCAAAGATCATCATCCACTTTATCATCGTCCGA
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Potri.006G057600.2 (bHLH family)

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CGGAGTTCACTTCTTGCAAATTTCACTGATAATGGAGTCGACAATGATTCTGTTTTGA

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TATTCATGTTTGCCGCGGAGTTATCCAGGTTTGCCTCCTCATTATCCAAGGCAGAGTT
CAGCTACAAGTTCTTCAGCTATGGATAGTTCATATGGTTTGATTGGTTCAATATCAAT
TGGTCATCATGAGCAAGTTGAAAAGGTTGATTCAAATCCTGCTAGGCAGAATAGCTC
TCCCGCTGGACTTTTTGGGAACCTTACTGTTCAAATGGCTTGTTGTCACAGATTTCT
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AACTTGTTTTCTAATGCTCAGAACGGGAGAACTTGGAATCGGGCTCATGTATTATCC
CACCCTTGAGTTTGCCAAAGACTGCAATGGAAATGGTTGCCATGGAAAAGTTTCTC
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CCTCGAAGTATCGCGGAAAGAGTGAGAAGAACTCGGATCAGTGAAAGAATGAGGA
AACTACAAGAGCTTGTTCCAAACATGGACAAGCAAACGAACACAGCAGACATGTTA
GATTTGGCTGTAGTGTACATTAAGACCTTCAGAAACAGTACAAGACACTAAGTGA
CAACCGAGCCAACTGCAAGTGTTTAAGCAAGCAGAAGCCAGTGCAAAAACAGAATTG
TTTGA GGTGCTTCTGTACAGAAATCCAAGGGGCTGTTGACACCAGTTCCTTGTGATCTT
TAGCATCAGTAAGCG

Potri.006G130200.1 (S1Fa-like family)

CAGTCATGGAAGACGATTTGAGTTCTCTAATTCTCCTCCTTCCAAAACATGGG
GGATTTGATCAAGGATGCTGAGCCTAAAGGGTTAAACCCAGGATTGATAGTGCTGCT
GGTTATTGGCGGGTTACTTTTGACATTCTAATTGGAAATTATGTACTTTATTCGTAC
GCGCAGAAGACCCTTCTCCGAGGAAGAAGAAGCCCATCTCGAAGAAGAAGATGA
AGAAGGAGAGACTGAAGCAAGGTGTCTCAGCACCAGGAGAGTGA

Potri.006G184800.2 (WRKY family)

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AACGACAAGGAAATGAACAAAACAACGGTAATTTTGTAGAAGAAGAGGAATTAGA
AGGCGATTATATTGAGGAGGAGGAGGAGAGTCAACTCAGTGAGTTGCAGCAACTTG
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TCGAAGTTATTACAAGTGTACTTATTCTGACTGCTGTGCTAAAAAGATCGAATGTTT

TGATCACTCAGGCCGTGTGATAGAGATTGTTAATAAAGGAATGCACAGTCATCCACC
TCGGAAGAATAACAGCACTAGGGAAAGTAGGAGTGGATTATCTGTTGGGCCTATTTT
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CATTGTCAATAGAACCTGCACAAGAAACACCGACAGTTTCTGAAAGAAAACGACAG
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TGCTGCTGCTGCTGCTGCTCCTGCGTCCTTGAGCAGCTTGCCAATTAAGAAAACCGA
TACATTGCAAACCAAGTTGCTTCAACCCAGTGGTCGGTGGGCAAAGAAGGCGAAT
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CGGACGCTTCTGAGCATTGGGTTTGAAATCAAACCTTGC TGA AAAAGCTGAAAAGATC
CTTTCTGTCTAGGTTACAGTATAAAGATTACCAGTGGGCTGTCCTCATTTATATGAAA
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TCTTCTACTTCAGTATTTTCAGCT

Potri.006G201900.1 (NF-YA family)

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AGGCTGTTAATGGTGAATCGTGTGGCCTATTGAAGGCTTTACCCATAGAACAGCCTG
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GATAAAGGGAATATCACTCAATTCATATATTTCCCGGTGACTGCAAACCTTCAGGT
GGTGGACAGAAATCTGTTTCAGGGAGCCATTTCACTGCAAACAGCTCTGCCGGAATAT
TATGCTCATTTTGACCTGGGATTTGGTCAGCCTGTGATCTGCGCAAAGTATCCTGTCTG
TGGACCAATGTTATGGATTATTCTCAACTTTTGGACCTCAAATTTCTG (Deletion:GGCCG
GATTATGCTCCCAATGAGCACGACCACAGATGATGTACCCATATATGTAAATGCGAA
GCAATACCATGGAATCATAAGACGTAGGAAGTCCCGTGCAAAGCTGCACTGGAGA
ATAAATTGCCAGAAATCGTAAG) CCTTATATGCACCGTTCACGCCATCTCCACGCA
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TGAAAAGGCATAACAGAGGCTAAGAAAGCTGGTGATTTTCAACTTTCGCAGCCAA
CTGGTTCTCAGAGTTCTGAAGTCCTGGAATCAGGTGGTGCAACTTTGAACTCAATGG
AAGCAAATTGTGGTGGATCAAATCTCTCTGGGTCAGAAGTGAAGTACTAGTTTGTACAACA
GGGTAGATTTTCGATCGCTTCCCTTTCAATCATCATGGGCCAACTGTCCATGGTTTCTC
AGGGATGGACGGAGGGCATGGCATTGGCATTGGCATGCCAGTAAGTGGATTGCAG
CAGCTGACAACCTGCAGCAACCTCAAATAGCAAGGGAACGGATTGGGTTGGTGCTTG
C

Potri.006G221500.1 (MYB family)

ATGGGTAGAAAGTCCTACAGGGGGGATAATTAGAGGAACTTGGACTGCTACTGAAGACAAAATTCTTACAGCATATGTTAGAAATTATGGTGAAGGGAAGCTGGGCTAGGGTTCCAAAGGAAACAGGTCTGAAGAGATGTGGCAAGAGTTGCAGGCTTCGTTGGCTGAATTATCTAAAACCAGATGTTAAAAGAGGAAACATTAGCCCAGATGAAGAAGATCTCATTATTAGGCTTCACAAGCTCTTAGGCAACAGATGGGCTTTAATAGCTGGAAGGATTCCAGGTCGGACGGACAATGAGATCAAGAATTACTGGAATTCAACCTTGAAAAGAAAGGTACAAGCTAACGATCAAAAACAGCCTAGAAGAGGGAATAAAGACACAAAAAAACAAACCAGAAAGACCTCAACAGGATTGAATAAGGCGGCACCATGCACAAACAGTAGTCTTCCTTACCACCAGTCTTGGCTGAAAATATAGAGACTGATCAGATTCTCACAGCATCTCCATTGAAGAAGGAACCTTGGA AAAATATCTGATAGAAAATCCCAACTCAAATGATGAGCTCTTGCTATTTACTAACGATAATGATGTGCCTTGCAACTTCTTGATGGATCTTGATATGGGGCAGATGAGCTTCTCTGATTTTCTCCAAACTGATATCTTCTCAGATAGCAATAACATGCTTGTTAATGGGCCTGCACCTTCTTATCCAGATGAAGCTTCTTTGTCCCCGAGGCTATGCTGCAGAATTGGATATGTGAGGATGGCTTTGAACTTGAAGTGGCTATGGGTCCTTGA

Potri.006G237700.1 (GATA family)

GGAAGAGCCAGAATATTAGACCATGGAAGCACCGGAATTGTATGGGACAAGTGGGT TTTGCAGCTCACAATTCACAAGTAATGAAAAACACCACTCTCTGGACTCTAATAAGTCCATTGGTGGTGGTGACCATTTCAATTGTTGAAGACCTTTTGGACTTCTCCAATGAAGATGAGGATGCCATGGTAAGTACCCTAGTAATAACAATATCGTCACTCCCACCACCAACTCCACGGACTCTTCCACTGTGACTTTCGTTGATAGCTGCAATTCCTCCTCTTTCTCGGGCTGTGAGCCTTCTGGCTTTAACGGCGATATTGGGTCCCACTACACCAATAATTTCTCTCATCATGACGTTTCTTGGCAGCGAGCTTTGCGTGCCGTATGATGATTTGGCGGAGCTAGAATGGCTGTCGAATTTTGTGGAGGAATCCTTTTCCAGCGAAGACTTGCAAAGGCTTCAGCTTATTTCCGGCATGAAAGCTCGGCCTGACGAATCATCCGAGACTCGCACTTCCAAAGTGATGACAATAACAATGGCAATGTCTCCAATATTTGTAACAACAACAATGTTCAATCCTGAAATGGCAGTCCCAGCTAAGGCTCGGAGCAAACGGTCTCGGGCAGCACCAGGCAATTGGGCCTCACGGCTTCTCGTACTCTCGCTACGACTTCATCATCCGAGCCTGAGATTATTCCTGGCTCGACCCAACATCCCAATTCTGGGAAAAAGACAATTAAGGGTGCGGTGGGGCTGAAGAAAAGAGACGGTGATGTTGAAGGTGGTGACGGTCGCAAGTGCCTGCATTGTGCGACGGATAAGACGCCGCAGTGGCGGACTGGACCCATGGGGCCTAAGACGCTTTGCAATGCGTGTGGTGTAAAGGTACAAATCGGGGCGGCTTGACCTGAGTACCGGCCAGCAGCTAGCCCAACGTTTATGCTTACGAAACACTCAAA TTCGCACCGTAAGGTGCTTGAGCTAAGGCGACAGAAGGAGATGGTAAGGGCTCAGCAGCAACACCAGCACCACCAATATCTTCATCACCATCAGAATATGGTGTGTTGATGTATCCAACGGTGGTGACGATTACTTGATTCACCAACATGTGGGACCCGATTTTAGGCGGATGATCTAGCAGTAGGGGCGCA

Potri.006G267700.1 (Co-like family)

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CTTGCTTCTCGCCACGCGCGTGTCTGGGTCTGTGAAGTCTGTGAACAAGCCCCAGCT
CATGTCACCTGCAAGGCTGACGCTGCCGCTCTATGTGTCACCTGTGACCGTGACATC
CACTCGGCAAACCCTCTTGCCCAACGCCACGAACGTGTCCCTGTCACTCCCTTCTTTG
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TCGTGGCTGTTACCGAACCCTGGTGGGGGGAATACTAAAGGGGTGGACAGTTTGGGA
TCTGAATACGGGTCAATATGTGTTTGGGGCGGAAATGCACCCGTATTTGGATTTGGA
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TGGTGAATGACAATTGCTGCTTTGAGTTGGATTTCTCTGCTGGATCTAAAACCTTTTGC
TGGTGGCTATGGCTATAACTCCTTGAGCCACAGTGTTTCTTCTTCATCTCTTGATGTT
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GCGAAGCAAGGGTGTTAAGGTATAGAGAGAAGAGAAAAGAATCGAAAATTCGAGAA
GACAATTAGATATGCATCGCGAAAAGCCTATGCCGAAACAAGGCCTCGAATCAAAG
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GATTCGGCGTTGTTCCATCATTCTAA

Potri.007G023600.1 (bHLH family)

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CAATTCCATTGAATCCTGTTCAATGCCTCCTGATCTGTTTCATGGCTTCTTTGATCAT
GAGTCAATGAATGGAGATAGGATTGATTGGAAGGAGCAGCCCGAAATCTATCTGGG
GAACAATGATTTACCAAAAATATGGTGTTTTTTTCATTGAATGGCACAGAGTTCGTAGC
TAATAATAAGATGGATTTTGGAGAAGCAGAGGTAACGGCACGGTCTCTCGAGATTG
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GACAGTCACAGCTTAGCAGAAAGAGCCAGGAGGGAAAAGATTAGTAAGAAAATGA
AATGCCTGCAAGATCTAGTCCCTGGATGCAACAAGATAACAGGCAGGGGCCGGAATG
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GTCACCTGCTTACATCGCAAGTTTTCCAGCAGCCACTATGTCCTCAACAATTGCCAA
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TGATCAATGACCTATGCCTTGATCATTCACTAGCTCAAGTCCAACCTTTTTGGGATGC
TGA CTCACAAAACCTTCAA AATTTGGGATTCCAT **TAA**AGCTGATCAACTTTTCTTTTA
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GAGATATAATTTAGGGAACTAATCACCATCCAAGAATCCACTTTCAATAATTCAGC
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CTTGAGAATGTGTCTGTACGTAGCTGAGATTCTTGATGACCATTTGGTAGATGCTGTT
ATAATAAAGTCTTCTTTTGTGGCAAACATCACTATCGTACGTTAGATTCTTTTGT
ATACTGCTGGTACTATCATATTACAGTAATGGTCCTGAATGA

Potri.007G043800.1 (HSF family)

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GTAATCAAGAACATCCATGGAAGCAGATAGGCTGAAAC **T**GTTCAACAATCTTGTTA
GCTCTAAGTTCTTTCT **T**CTGGATTCTATTGCTGGGACTGGGAATTCTTGACTGCTCT
TTTGCTTTTTAGTTGCTCTGTCTAAAGTGA ACTACGCCCAACAAGGTAATATAGGA
TTTGTCTTTAATTTTTCTCT **CTC**TTTTTTTTTCCAGTACTTACTGCATAAGTGCACA
TAGGAAGGGGGATCTTCGCTCTTTTCTGGGGTAGATTAGATATAGGTTTTTGGAGAT
CTTCGTAGGGGTTTGGTGAGGGGTAGATTTGGAAGAA **ATG**GCGCAGAGGTCAGCTC
CGGCGCGTTTTTGGACGAAGACCTACCAGCTGGTGGATGATCCAAGCACTGATGATG
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GCTCAATACCTATGGCTTTAGAAAAATCGTGCCAGACAAATGGGAATTCGCCAACG
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GCGGCTGCGTCTCCGACAACCCAAACCTCGCCTGCCGGA AAAATCCGGAGGCGCATC
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GAAGAACCCGGGGTCCGTGCAA ACTGCGGCGACACAAGTCGCCGACTTATCGATCG
AGAACGAGCAGTTGAAGAAAGACAACGACGTCCTGAGCAGTGA ACTCGAGCAAGCT
AAGAAACAATGTGGGGAGTTGATTAATTTTTTGGACGGAGTATGTCAAGGTGAGCCCT
GATCAAATCAATCGCATCATTGGATGTGGTGGGTCCACGTGTAATGGTGAGGCCGAT
GTTGGCGATAATCAAAGTGAAGATGATGATGATGATGAAAATACTAGTGATGAAAC
TGACCATGATGATACCGATCATGATGGTGACGGTGGGGAAGGGGGGGGCTTGAAAT
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CTTTCAAGTTTGCCTGCGAAGATGGATTTTGTCTCTACATAACCTAATTCCTTTGT
GATTAAGTGTGCTGCATCAATGATTTGATTGTTAGTTTTATTGTTCTTCTGAGAAAT
TAATGTTATTGCTCCAATAAGGAGTTAGAAGAATAAGAAGAAGGAGATCAAATT
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ATGACAAG

Potri.007G070900.1 (NF-YC family)

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GCTGGTGCAGGTCAGATGGCCTATGCTTCTACCCCTACCAAATGCTCCAATGGTG
GCTTCTGGGACTCCTTCCATAGCCATCCCCTCCCCAACTCAGTCTCCAGCCACCTTCT
CTAATTCACCACCAACTTACATACCAGCAGGCCAACATTTCCACCACCAACAGC
AGCAGCAGCAACAACAGCAGCTTCAGATGTTTTGGACCATCCAAATGCAGGAAATT
GAACAAACAACACTGACTTCAAGAACCATAGCCTTCCACTTGCTCGGATTAAGAAGAT
AATGAAAGCTGATGAAGATGTTCCGATGATTTCCAGCAGAGGCTCCTGTTATTTTTGC
TAAAGCGTGTGAAATGTTTCATCTTGGAGCTCACCTTGGCGCTTGGATCCATACTGA
AGAGAACAAAAGAAGGACGCTACAGAAGAATGATATTGCAGCTGCAATTTCCAGGA
CCGATGTTTTGATTTCTTAGTTGATATTATCCAAGAGATGAGTTGAAAGAGGAGG
GTCTTGGGGTCACTAAGGCAACTATTCCTGTTGGCCCTCCAGCTGATCTTCCATACTA
TTATGTTCCCTCAGCATCCTGTAGGACCTCCAGGGATGATCATGGGAAAGCCAGTTGA
TCAAGCAGCTGCCTATGAAGCCCAGCAGCCACAACCTCCAGTGGCACTCATGCCAT
GGCTGCAGACTCAACCTCAACAGCAGCAAAGCGACCCTTGATGTCCAGGA

Potri.008G018400.2 (bZIP family)

GCGGGAAGATAGAATAATGGGAACCTTATGATTCTTATCGTTTTGGATTTTAGAAAAT
TTAAAAGAAAAATCTTTGTATTGCAGGATTTTAAAGGGTGATATGAGCCAAGAAAG
AATACAGAAAAAGAATAGGAATCAAACATTCGTAGTCAAATCCTATATTTAATGG
TGATGGTAATGAACTCATTTAAAGACAATTTACTCTTGATTTCTCACTGAAGGGAAT
CTGTACTGTAAGTTGTAACCCTCCCTTTGCTGCAAGCCACGATGTTTCATCACTTATGT
CTTCTGTTATTATTATTGCAATGGATTGGCATTAGGCAACAAAAGTTGGTGTTTGT
TTTGAACAATGAATGGGTTGCAAAAAGAAGAATTTATTTTTTTTGTCTTCCGGGACTT
TTATTTGAAATTTGTGGAGCAAAGGACTTTGCTTTTTGGCAGATCTTGGTTACTGCCT
ATCTTTTCCCTCTTTGTTTTGATTCTTTTACAAGCTCTATAAATCTTTTCTAATTATA
AAGTTTTCTACCAATAAGGTAGGTTAGGATGCTGTAAGAGACATGACACTAAAGTTG
CTGAATGGGGGACATGTTGTGTTGTTTTCTTTCCTTTAGAGGTGCATGCAATACAGG
CCTAAGAATGGATATCTGTGAGAGTTGAAGCTTGAAAAACCCTGTTATTGGTTTTC
ACCATGCAAGGCAATCCCTACTTCCTCCTCGCTGCCCATTTCCGGAAGCATGTCGTTT
CTCATCCAATTCACGAATCCAGTCCGCAACACCATAGATCTCCCTCCCAAGGTTCCAG
TTCTGGAGGAGAAGCCAGCATGGCTTGATGATTTGTTAAGTGATGAAGATGCAGATT
CAAAAGGAAAGTGTCTTCGCCGGTCCGCCAGTGATTCGGTCACCCTCTTGGATGGTA

TCGTGGATTCAATTTTCAGGTTTGAGTCCATATAATGATGAAGCTGCTTCAGGTGGCA
ATGAAACTTGTAGTGGACTGGAGTCAGCTTCTATGTATGGTCCTAATTCTCCTAGGA
GAAGAGGGAATGTGACCTTCTCGGAAAATGCCATAGCATCAGCACTATCGGAGTAT
GCATTTCAAATCCTTTGCAGTATGTAGATGGCAGCCTGTGCATTTTCGGGGATTAAA
CCCTTGGATCAAATGGGGAATGCATGTGGTTCAGCTGGGGAGCTCAATGGCGAGAC
AAACCCTGTGAAACGGCATTCTGGGCAACGCTCAAGAGTTCGTAAACTCCAGTATAT
TGCTGAACTTGAAAGAACTGTTAATGTTCTGCAGACTTTGGAGTCAGAGTTGGCTGT
CAAGTTGCTTCTATGCTTCAGAAACGTGCTACCTTGTCCCTGGAAAACAACACATT
AAAGCAACAGGAGGCCAGAATACGGCAGGAAAAATTGATCGCAGAGGCTCAACAT
AAGGCTTTGAAGAAGGAAGCTGAGAGAATGAAAAACAAGTTAGGTTTCACAAATTT
GAAGTTCAGAAATTATTCCAGATCAAGTCGCCCTCCGGAGGCAGCTAGATCAGAAG
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TTCAACAATACGTCTCAAACATGATTTTCTACTCATCAGTGTCAATTTTGTGAAAAAA
GTAGACAGCCTTGCTGCATCATGTCATAAACTGGTTAGGATACCTTGCCTCCAGG
GCACAAGTTGTTTATATCTTGCTGTACATGAACCGCCAGTGAAGTACTGACTTGTATAAC
AGGGAGTGGCATCATCTTTTCACCATAATTATCTTTGCATCCATGCACGGGTTACAA
TCTCGTG

Potri.008G064200.1 (MYB family)

GATTCCCTGTACATAATTCTTAGATTTATTTAAAAACCTCAATCTTCGCATATACTCT
CCGTTTCTTTCTTCTTCTCCCTGCTCTACATCTCTCGATTCCAATCATATTCCTTCT
CGATGCAGTACGAACCCGCAAGCAATCGCTGCATATTAAGTGATGATAGCTAGGT A
TG GAAACTCTATATTCATCTTGGAGCATGTCGAATCCAATTTGTGTTGCCCAAACCA
CAGAGTGGACCAAAGAGGAGAACAAGATGTTTGAGAGAGCTTTGGCGATATTTGAT
GAGCATGAGCCTGATAGATGGCTGAAGGTGGCAGCTATGATACCAGGAAAGACAGT
TAATGATGTGATCAAGCAATACAAGAAGCTGGAAGAGGATGTTTGTGATATAGAAG
CAGGGAGGGTTCCGGTTCCAGGTTATCTTAGCTCATCTTTCACGTCCGAGTTGGTTG
AT A ATAGCACTTTTGTATGCGTATAGGAAGAGGCCTTTGAATATCAAGAGTGCTGATC
AGCAGAGAAAGAAAGGTGTGCCATGGACAGAAGAGGAGCACAGGCGGTTCCCTGAT
GGGGCTTCTAAAGCATGGCAAAGGAGACTGGAGGAACATCTCTCGCAATTTTGTAG
GCTCCAAGACTCCAACTCAAGTGGCAAGCCATGCACAGAAGTATTTTATAAGGCAG
CAGCTTTCGGGAGTGAAGGATAAGAGAAGACCAAGCATCCATGACATCACAACCTCT
CAATCTCGCGGGTTCTACTTCTCCATCAGATGGTGACAAAGCTTCCCTCACTTGATCA
ATCTGACGTGCTATTACCACAGCAAAAGCCGGCAGGGATGCAGAAATTGTTG A TTG
ACTGGGACGAATCAAAGGATGGATCTGTTATGACCTTTGGTTCTACTCATGGAGACT
TGTTTGAGTCATCTCCATA C GAGATATCTTCAAATGGTCTAACATTTCAAGGGCAA
ATCTGTATGCTGGTGTCTCGTCACGGGGCTCGTATCAAGCCCCGTAAGTTGGTCTTTCA
ATTGTCACCCCAAGATTTCAAATTCAT TGA TAGGGCGGCGCTTTTGTGTATACAT

TGATGGAAAAACAAATCTGGTTTAGGGTCAATCGAATCTGGATAGCAGTGCTTTTGC
CATGGTCATGTGT

Potri.008G113400.1 (bZIP family)

GAAATTGGCCACCTCATTAGCCTTTTCTCAACTATAAAACCCCTCCAATCCTCATG
ATGTTCTCATTACCACAATATCCGATTACAAACCCTTGAAGTATCTTCTCAAGAATT
CTAGCCATGCTTCCAGGCGAGCTCACAGGAATTCATATATAGCACCTGATCAAAGC
CTGATTCCTTTCCCGGCTAATTTCCGGCATGATGCAACAAAGCAGCATACCAGCCTTC
CATTTCAACAGACTCTTGAACAACCTTGCAGAGCTCATCGTTCCCGCAACCGGTTTCGT
GAATTCACTCCACAGTCCTCAAGTCTCAGCAACAACCTCAACTTCAGATGAATCTGAG
GAGCACCAACTCAGCATCATCGACGAGAGGAAGCAACGGAGAATGATTTCCAATAG
AGAATCTGCTCGCAGGTCAAGGATGAGGAAACAGAAGCACCTAGATGAGCTATGGA
CTCAGGTAGTTCGGCTGCGAACTGAGAACCACAATCTGATAGACAAGCTGAATCAT
GTGTCTGAGTGTCATGACCGGGTTCTTCAAGAGAATGCACGGCTCAAAAAGAAGC
TTCTGATCTTCGCCAAATGATTACTGACCTGCAAATTGGCAGCCCTTACACTGCCACT
GCTTTAAGAGATCTTGAAGAGGTCCCCTGCAACACAGCCCATGTCAGAGCTGAATCC
TCAAACCAATCTGTCACTAGTTCTGTAGACTTGCTTCATTTGAACAAGAGATCTTTT
GCCATTATAATAGCTACTTCATGTTCCCTTCTGTTTGAGATGATTATCGATGTTAACTT
TAGCTTCCATCTGCAATAACAGCTTTCTAACCATTCCCCTCCTTGGCTTCATTATCAT
CCTGCACATTCCTTAAAACAATCAATTCCTTTTATATTACTTACAATCAATCTTCTTG
CCGCGTATGCATTAGTGCAACCAGCAAACA

Potri.009G004800.1 (C2H2 family)

CCCTTCTTTGTTAGGTACCTGTGCATATCACATCTCTCATGCTATATCTCACACAAG
GTCTTTGATGATGGATATGGAAGCTCAAGATGAGTTCATGGGGTCTAATGATCTTAC
TCAGATCGTTAAAGGCAAACGCACCAAGCGGCAAAGGTCATCTTCCCACACAAGG
TGGCGACCTCTTGCTCATCAAGTGGCTATGGTGGTGGTGGGGGAGAAAGAGGAGTG
CTTATAGAGGAGTATGGTTCAATTTCTCTCTCAACTTCTAGTGAGGTTTGTGAGA
GCACAGAAGAAGAAGATATGGCTAATTGCTTGATTCTGCTAGCACAAAGGTGAC
GTCCCTCCAAAGCAAATTCATGAAAATAAAGGCAGTAAAGTTGAGAAATTTAGTGC
TCGAAAATTCTCAGATATGTCCGCACCAACCATTAACAAGGCCGGTTTCTTTGTATA
CGAGTGCAAAACCTGTAACCGTTGTTTCCCATCATTCCAAGCATTAGGTGGGCACAG
AGCCAGTCACAAAAGGCCTAAGGCCACAGCACCGGAAGAGAAAAAGGTCTTGTG
GTGGCATCAATGGAGGATCTTGACGATCGTCAATTGAATAAAAGGAGTCCTTATCCT
TGTCTTTCTCTCCAAATACCAACAACAACGTTAACAAGGGTTTTTCAGGCTAAC
AAGGCTAAGATTCATGAGTGCTCAATTTGTGGCTCGGAGTTCATGTCAGGTCAAGCT
CTTGGAGGTCACATGAGAAGGCATAGGGCCAACACAGGCGCCAACCAAGTGAGCA
ATATCAGTACTGATTCATCAAGTGCCACCACTGAGTCTAAAATTCATGGTGATCACC
ATCATAAGATCAAGCCACGAAATATGTTGGCTTTGGATCTTAATCTACCAGCTCCTC
CTGAGGATGATCATCACCTCCGCGAATCCAAATTCCAATTATCGTCAACACAACAAC

CACTAGTGTTCTCCTCCCCAGCCTTAGTGGATTGCCATTAC**TAG**AAAAATACTAAAA
AAGATCCATATGGATCAATGTGAATTAATTTAATTGTATCATTGCTATAATTTACTA
GAATTCATTACTATCCAAATTCCTTTCTTGTTGGATTTTATGGCAACATAT

Potri.009G014800.1 (ARF family)

ATGAAAGAGACAGAGAAGAAGAGCTTGGATCCACA ACTATGGCAAGCCTGTGCAGG
AAGCATGGTTCATATCCCTCCACTCAACAGTACAGTCTTTTATTTTCCACAAGGTCAT
GCCGAGCACTCTCAATCCCCTGTCAATTTCCCTCAAAGAATCCCTTCACTCATCCTCT
GCCGTGTTGCCACTGTCAAATTCCTTGCCGACCCTGACACCGATGAGGTCTACGCCA
AGATCGGCTTCGTCCCTTTACCAAACACCGACCTTGATTTTCGCTCATGATAGGGGAC
TATGTGGTAATGGGAACGACGGTGACAGCTGCCAGACAAGCCGGCCTCTTTTGCA
AAGACACTAACTCAATCTGATGCTAACAAATGGTGGGGGTTTCTCTGTGCCTAGATAC
TGTGCAGAGACGATTTTTTCCAAGGCTGGATTACTCTTCGGATCCTCCCTTGCAGACT
GTGAT**C**GCTAAAGATGTGCACGGTGAGGTGTGGAAGTTCAGGCATATTTATAGAGG
GACACCAAGGAGGCATTTGTTGACTACTGGATGGAGCACTTTTGTTAACCAGAAGA
AATTGGTTGCTGGGGATTCAATTGTGTTCTTGAGGGCTGAAAATGGCGATCTTCGTG
TTGGAATTCGCCGCTCCAAGAGGGGGATTGGAATTGGAAGTAGACCTGAATCATCA
TAACTACTGGGTGGAATTCACAACAATGCTACCTGTGCTATACCATATGATGGATTT
TCACTTTTTGTCAAGGAAGATGAGATGCGAAATGGGGGAATGAAGGGAAGGGGGAG
GGTGAAGCCTGAAGAGGTTTTGGAGGCTGCTGGTCTAGCTGCTAATGGAAAGCCTTT
TCAAGTCGTTTATTATCCGCGATCAAGCACCCAGAGTTTTGTGTCAAGGCCTCTTCA
GTGAGGGCAGCAATGAGGATCGGTTGGTGTCTCTGGGATGAGGTTCAAGATGGCTTTT
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GTTGCTGATCCCGTCCGATGGCCTAATTCCTCATGGCGGCTACTCCAGGTGGCATGG
GATGAGCCAGATTTGCTACAAAATGTAAAGCGTGTGACCCCATGGCTGGTTGAATTG
GTGTCAAATATGCCAGTTATCCACCTGTCACCCTTCTCACCACCAAGAAAGAAGTCG
CGATTCCCACAACAGTTAGGCTTTCCACTTGACCTCCAATTTCAATTGCCATCATTTT
CAGGCAACCCCTTGGGCCAGCAGCCCATGTGTTGTCTATCCGATAAACTCCTG
CAGGCATACAGGGAGCCAGGCATGCTCAATTTGGAATTTCAATTATCTGATATCCAGT
TTAACAACAAACAGCAGTCAGGGATGTTTCTATCCAGTCTCCAGCGGTTCAATCCAC
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CTTGCTTGTTAACAATGGGGAACAGCAACCCAAATTTGGAGAAATCTGATAATGTAA
AGAAACACCAGTTTCTACTCTTTGGTCAACCAATACTTATTGAGCAGCATATATCTC
ATAGCTGTTCAACTGATGCAGTCTCTCAAGTTATTAATGAGAGAAATTCATCTGACG
AGTCTTCCAGCAAGGAAAAAATTTCTGATGTATTACTGTCTGCACCTGGGAAAAAGA
TTTACAAGTAAAGTCGTGCGGTAAGGTTTTTTCATGGCACCAGAGTCTTCATAATA
CCAGTGAAATTGGCAAAGATACTGGTCCCTGCAAGGATTTTTTGGAGTCAGAGGATG
TGGGATGGACCCTCGATCTCTCTGCTCTTTGTTCTTACGAGGAGCTACATGGAAAAC
TGGCCAACATGTTTGGTATAGAGAGATCAGAAATGTGCGAGCCATGTGCTCTACCGAG
ATGCGACAGGTTCTGTTAAACAGATTGGAGATGAACCATTCAAGTGTTTTTATGAAAA

CTGCAAAAAGATTGACAATTTTGATGAACCAACCTAGCACAGAAAGTTGGGAGGAG
ATGGATCACAGGGATGCGAAATGCTGA

Potri.009G018500.1 (bZIP family)

GGGGAGTTGTTTAGTGATATCGGGTTTTGCTTCCTTTTTATTTTTATTGTGGAGATGA
GCCCTGATATCTTGTTTCGTTTCTAAAGCAAACGTGGTTAGGGTTAAGAGTTTGGTG
GTGAATGGTGTTCAAACAATGGCATCTCAAAGAAATGGCCAGCAGTCTCATCTAC
AGCCGTATCGTTGACGAGGCAAACTCGTGGTATAACCTCACTCTCAATGAAGTTG
AAAACCAATTAGGAAATTTAGGGAAGCCCTTGTGTAGCATGAACCTTGACGAGCTTC
TAAAAATGTATGGAGCACTGAAGCTCATCAATCCGTGGGAATGGATAGTGAAAGT
ACCTCAATGTCTTCTCTCCAACATCAGGCTAGTCTCACATTGGCCAGGGCATTGAGT
GGGAAGACAGTGGATCAAGTCTGGAAAGAGATTCAACAAGGGCAGGAGAAGAGGT
TTGGTGAGGAGATGAAAGTTCAGGAAAGAGAGCAGACTCTTGGTGAAATGACTTTG
GAGGATTTCTTGGTACAAGCAGGACTTTTTGCCAAAGCAACTATAAGCCCTTCTTTG
GATTTAGTTACTGTTGATGCAGTGACCCACAAAGTTTTTCACAGAAAATGGTCCTT
TCCTCATCCCCGTCACAAGCACATTATCTGATACTACGACATCAGGACGGAAAAG
GGATACCCAGATGCATTTGAGAAGAGTATTGAGAGGAAGCTCAAGAGAAAAATCA
AGAACAGGGAATCTGCTGCCCGTTCACGAGCTAGAAAACAGGCCTATCATAACGAG
CTGGTGAGCAAGATTTACATTTAGGGGAGGAGAATATAAAGCTCAAGAAAGAGAA
GGAATTTGAGAAGAAGTTTCCAATTGAACCATCAGCTGAACAAAATATCAGCTTA
GAAGAACAAGTTCTACTTCTTCTGACATCACATCTCTGTGTGAGAGTTTTGTAGC
TCATCGAGTGTTCTGTGCTAGGCTCATCGAGTGTTCTGTGCTAGGCTCATCGAGTGTT
GTGCTAGGCTCATCGAGTGTTCTG

Potri.009G027300.3 (MYB family)

GTGGGTGGACTAAAGGTCGGAGAGAGACAGAGAGAAAAAGCAAAGGAGAGAAA
AATGAAAATGATGCAAGACGAAACCCGAAAGGGTCCATGGACAGAACAGGAGGAC
ATTCTACTGATCAACTTCGTGAACTTATTTGGTGATCGACGATGGGATTTTATAGCA
AAAGTATCAGGTTTGAAGGTGGCGGGAGACAAATATAGGTATGCATATATGGCGAT
GGGTGGTTTTGTAAAGGAACCACCTTTAACCACCTGGTTTTGTTGTAGGTTTGAACA
GAACAGGAAAAAGTTGCAGGTTGCGATGGGTTAATTATCTCCACCCTGGTCTTAAAA
GAGGAAAGATGACACCTCAAGAAGAAAGACTCGTCCTGGAACCTCACGCCAGATGG
GGAAATAGGTGGTCAAGAATTGCTCGCAAATTACCTGGGCGAACTGATAATGAAAT
AAAGAACTATTGGAGGACTCATAACGCGGAAGAAGGCTCAAGAAAGGAAAAGCGTC
GTGTCCCTTCACTGTCATCTTCAAACCTGTTCTTCTCATCAAATATCACTACAGTGA
ATTCATCATCTCCTCCAGGAACTGGAGAAGCAAGTTTTTACGACACAGGGGGGCTTG
ACAAGTTGCTTCAGCAGGAAAAACGGAGAGGCAGTGCAAGGGGGTGAAAAGGG
ATACTCGATGGATGACATATGGAGAGACATTGAAAACACTATTGAACCAGTTTGTG
ATGGGTTTAGTGAAGAAGGTTGCAATTTTTCTTATCCTTCGTTGGCTTCTCCATCGTG
GGAATATCGCCCGGACATACTTTGGAGCATTCTGGAGAAGAGAGCAAGATGTTTCT

CCCTTACGACGACGGCACAATGCTTTTGACAGGC**TAA**TCAGAAATTCTTTATTTAAA
TTTGTCCATATATGTGATATTTCTCCGAGGAAACTCTAACCTGTATAGTATGAGTTTT
CTCCAAGCTATCTTATGTATAACCTG

Potri.009G060600.3 (NF-YA family)

GGACCGAAATCAATGACTTTCCTATAGATTCTCCAAAATTCAAGCTCCTTTAGGGT
TTCCAATTTCA**CAG**AACGTTGTGA**ATG**ATGCCGGCAAATCTGAAAAAGAAGA
TCGACGTTTAGACCACAGTGGACCGAGCCCGTTCCAAACAAACATTTACTCGCAACC
TTGGTGGCGTGATGTGGGGAACAGT**T**CCTCTTTAGGTGACACTGCATCAAAATTGTC
TTCAGTAGAGCACCTAAATGGTTCTCTTGGCAATGCAGCAATACAATCACAAGTTAA
TACTGGCTTACAGAAAGGAGCTATGGTGAACAAAGACATGCAGACCGATGTAACAT
CGCAATCTGATGAAAGTAATGAACAAGAACACCATCTCAAACACATTCCATCACCA
ACAACTGTTACCATGGGCGGACACCTTGAACCAAATTCCCAGATGGAACTTGTGGC
CACTCAATTGTTTTGACTTCACATCCATATACAGATCCACAGTATGGCGGGATGTTT
GCTTCTTATGGAGCACAAGCTATGGTACCTCAATTATATGGAATGCCACACGCCAGA
ATGCCCTTGCCCTTCAAATGGAAGAGGAGCCTGTTTATGTAAATGCAAAACAGTTT
CATGGTATTATGAGGCGAAGACAGGCACGTGCTAAGGCAGAGCTTGAAAAAAGGC
AGTAAAAGTTAGAAAGCCATATCTACATGAGTCTCGACACCAACATGCTTTGAGAA
GGGCAAGAGGTTGTGGTGGCCGTTTTCTCAATACAAAGAAGCTTGATAACAGCGCT
ACCAATCCCACATCAGAAAAGGGTAGTGGAGATTTGAATTCCTCTGGCGATCTGGA
AGAAGGAAAAGGGTCACAGGCTTCCTCCAATGGTCATGGTAATGGCCATGCACTCT
CATCAAGATATCATTATCATCACATGATGGCAGCTTCTTGGGTCAGCAAAAGGAAA
CCACACACGGGAATAGGGTGTCTAATGGAGCTGTCTCCATTCAT**TAA**ACTTCCACCT
CGAGTTG(**Deletion:TACGGGGCCTTCAGCATTGCTACATTGG**)AAAAGCTGGAGGCAT
TAGCCATGTTCAACTTGGGAGGAAACCTTTCCTGTGCTGTGTTTCTCAGGCAATTCAT
TCTTGGCTTTAGGTCTTTGGTACTTGGTGCATTTCATGGTGGTGAGAGTGTAGTATAT
GTGATGGACTTCA**C**GCTGTCTTCAGACTTGAACAAATTCATCTCTCTTTTAGTC
GCTTCTGTA AAAAATGGCAAAAACCTTGTGTATCTACCTCGTAGAAATTA

Potri.009G068000.1 (HSF family)

AAACACATTGGACTTGCAGTTGTGAATATTGAGGGTAAAAATTGTACTTGTAGAAGT
GCATATCATCTGCTTCTCTAGTTTAATTCCCAGCTGATA**ATG**GCATTTACAGTGGAT
AGGTGTGAAGAGATGGTGTACTGTGGAGTCTCAAAGGCAGTTCCTGCACCCTTC
TTAACAAAACTTACCAGCTAGTTGATGACCCTCTTACAGACCACGTTGTCTCTTGG
GGTGTGATGAAACCACCTTTGTTGTGTGGAGACCTCCTGAGTTTGCTAGGGAACTC
CTCCCAATTACTTCAAGCACAACTTCTCAAGCTTTGTCAGGCAGCTCAACACC
TACGGATTCAAGAAGGTAGTAACCTGACAGGTGGGAGTTTGCAAATGAGTACTTCAG
AAAAGGAGCAAAGCAGTTGCTATCTGAGATTACAGGAGAAAAACAATATCCAGC
ACCATCACCAACTACCCTGACCAAGCAACCCAATTTCTCCAATCAGAAGATCATG

GTTTTGGTTGGATTGATCCTCCATTTCCATCTCCAAAACCAAATGTTGATCATATCCT
AACTGCCCTCTCAGAAGACAACCAGCAACTGAGAAGGAAAACTGTATGCTTTTAT
CAGAACTCTCCACATGAAGAATCTCTATAATGACATTATCTACTTCATCCAAAACC
ATGTAACCAGTGCCCAATGAGCAAAAAGCTTACAATACAGTACCCAAGCTTATA
GAGCCGGTTCTTCATGTCAAGATCAAACCATTTGTTTTGGCGTTCAAAGGGCTAAG
AATGGTGTTTTGGGTAAGCATTCAATTAACATTTAGTACTGAGGAATCATCTAGTCCA
GTGAAGCTTTTTGGAGTCCCTCTCATTGATAACAAAAGGCTGCATCCAGAAGCGATT
GAATAGCAGGAATGATATTGTAGTGTCTCCTTAATTAGCTTCTACAATAGGATCTA
GATGTTGTCAGTAAGAGTTATCAGAAGAGGAGCTACATATGTACACAAGTAGCTGA
AAGTTCAGTTGGATTTAAGCCACTTCATGTTAATTAGCAGCAAAATTAAGAAATTTCT
TCTTTTTCTTTCTTTTCTTTTTTCCCTCACAGATCTGAAGCAAATAT

Potri.009G134000.1 (MYB family)

GACCCACCAAAAATATCCTACTGAAATGGGAAGGTCTCCTTGCTGTGAAAAAGCCC
ATACAAACAAGGGTGCCTGGACCAAGGAGGAAGACGATCGCCTTGTTGCTTACATT
AGAGCTCACGGTGAAGGTTGCTGGCGCTCACTTCCCTAAAGCCGCTGGCCTTCTTAGA
TGTGGCAAGAGTTGCAGACTTCGTTGGATCAACTATTTAAGACCTGACCTTAAACGT
GGCAATTTACCGAAGCAGAAGATGAGCTCATTATCAAACCTCCATAGCCTCCTTGGAA
ACAAATGGTCACTCATAGCTGGAAGATTACCAGGGAGAACAGATAATGAGATAAA
GAATTATTGGAACACACATATAAGAAGGAAGCTTTTGAACAGAGGCATAGATCCCG
CAACTCATAGGCCACTCAACGAACCAGCAGTACAAGAAGCCACAACAATATCT
TTCACCACGACTACTTTCAGTACTTGAAGAAGAGTCTCTGGGTTCTATAATTTAAA
GAGGAAAATAAAGAGAAGATAATTAGCGCAACTGCTTTCGTATGCAAAGAAGAGAA
AACCCAAGTTCAAGAAAGGTGTCCAGACTTGAATCTCGAGCTTGGAATTAGCCTTCC
TTCCCAAACCAGCCTGATCATCACCAGCCATTCAAACCTGGAGGAAGTAGAAGTC
TTTGTTTTGCTTGCAGTTTGGGGCTACAAAACAGCAAGGATTGCAGCTGCAATGTTA
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Potri.010G004300.1 (MYB family)

GAAACACAAGCCTATTAAGATCCCAAGGCTTTGCTTCTTCTGAGTTCTGACAGACCA
TTCTTCAACTAGAAATTAAGCTTAATTTCTTCTTCAAATGGGAGGCAATCTTGCGGT
TACAAGCAGAACTAAGAAAAGGGTTGTGGTCCCCGGACGAAGATGAGAAGCTTTT
GAGGTACATTACCGAGCATGGACATGGATGCTGGAGCTCCGTCCCCAAGCTTGCAG
GTCTTGAAAGGTGCGGAAAGAGTTGCAGGCTGAGGTGGATCAATTAAGACCA
GACTTGAAGAGAACCAGATTCTCAAGCCAGGAAGAGAACCTCGTAATCCAACCTCA
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ACAATGAGATAAAGAATCTATGGAACCTTCCATTAAGAAGAACTCATGCAGAAA
GGTATTGACCCCAACACCCACAAGCCACTCTCTGAGGTTAAGCTTTCTACTAGCAAG
TGCCCTGAGAAGGCCTCAAGAGAACTGGATACAGCGATCTCACTCAATCTCAAGGC

AGATAGTTCAAAGCCATCACTCATTGATGTATCGAGCTGTAAGATTGAAAAAGGAG
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CTTTGCCATTCAATCGATACCCCAACATCCAGCACAGCCCTTTAGATTCAATTGCTTA
CCTGCAATTTCCAGTCCAGCAGTTGAATCATGAGCAATTAGAGCTTGACCAGAAGTG
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AAGGTCAATCTTATCTGCTCAAATGGACAATAAAATCCATGCAGGTCTTCCCTTTCA
CTCAATGGGCACATTCAATAACATCCATTGGGATTCAAGTAATTGCAGCAGCGAAA
GTAGTGAGTTTCAGAAGAAGTCCTTATTCGATAGCAACGTCTTCTCATGGGGGTTGG
CAGATGATGGTGGATCATCAGACAAGACCTTACAACCTCATTCCGCTGATGCTGAGA
CAACAGATATCAAGTGGTCCGAATATCACAACACATCATTCTAGCCGAACACAATC
AACAGACACTACACTCGTGAATGCAC

Potri.010G186700.1 (bHLH family)

ATGGAAGATCACTATTCTCCTTGCTGGCCTGCTGCTCCTGCAGAGGCCAAACTGGGAT
CAAACAAGTGCTGCAGTATATGATGAGTCCTTTTTAGTCCCATGCCATCTCATGCTT
CTGCCTCTGCCAACTTTCAAGTATACGGATTCCCTTCGTGGTCAGTACCGCTTCAGGA
GGCTTCAGAAGATAAAGCTGCTTCGAGTTCCAAGAGTCATAGCCAAGCTGAGAAGC
GGCGACGGGACAGGATTAATGCACAACCTGGGAATTCTTAGGAACTCGTTCCTAAA
TCAGAAAAGATGGACAAGGCAGCTCTCCTAGGAAGTGCGATTGATCATGTGAAGGA
TCTCAAACAAAAGCAACGGAAATCAGCAGAACTTTCACAATCCCAACTGAAGTTG
ATGAAGTGACGGTTGATTGTGATGTTTCTCAAGTTACAAGCCCTCCAGCACCAACA
AAGACAAGGACAACACATTTATCAGGGCATCTGTTTGCTGCGATGATCGGCCAGAA
CTGTTTTCGGAGCTTATTACGGTGCTCAAAGGCCTTAGACTAACCATAGTTAGAGCT
GATATTGCTAGTGTAGGTGGAAGAGTTAAGAGCATATTAGTACTTTGCAGTGAGTGC
AGTGAAGAGGGGAGTGTTTCAATTAGCACTATTAACAGTCGCTTAATCTAGTTTTG
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Potri.010G188700.1 (NF-X1 family)

ATGTCCTCCGCCCTTGGCTACCACCATCACCACCACCTACAACAAGAACAACAACAA
CAACAACAGAAACCCTTCTCCGACTCCGATTCTACTCCGACTCCGACTCCGACACC
ACCAACAGCCAAAACCAACACTCCGCAGATCTCACAACTCAATCTTCAAATCCTAC
TTCGAACACGCCAACCACCAATCCTTACAACCAACGCAACACGACCTAACCAAAAT
CAAATCCTTCCTAACCTCCTCCTCCTCTGGCGCTCTATCATGTCTCATCTGTCTCGAA
CGCATCAAAACCTCCGATCCGACCTGGTCTTGCACCTTCTCTCTGCTACGCCGTTTTCC
ACCTTATCTGTATCCAATCCTGGGCTCGCCAAGCCTCCGATCTCTCCGCTCTTCGAGC
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CCCTAAATGCCGCTCTGATTATTCTAGATCTAAAATCCCCAGAAATTACCTCTGTTTC
TGTGGCAAAGTCGAAAATCCACCAAATGATCCTTGGATTTTATCCCATTCTTGCGGT
GAAATCTGTAACCGTCAGTTGAAGAATAACTGCGGTCATTGCTGTTTGTACTTTGC

CATCCCGGTCCCTGCCCATCTTGCCCGAAACTTGTCAAAGCGACATGTTTTTGCGGC
AAAACGACGGATGTTAAGCGTTGCGGTTACAAATTATTTTCTTGTAACAATATTTGT
AAAAAATCATTAGATTGCGGGATTCATAGCTGTAAACAAATTTGTCACGATGGACCC
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AGCCTGCGGAAAACATGTGTGTGAGAGGGGGTGCCATTTTGGGGAGTGTGGAGATT
GTCCTCTTCAAGGGAAGAGAGCATGTCCATGCGGGAAGAGACTCTATGAAGGAATG
GCTTGTGATATTGTTGTGCCGCTTTGTGGTGGTACCTGTGATAAAATGTTGAGTTGTG
GTTTCCATAGGTGCCACGAGAGATGTCATCGAGGGCCTTGCAATTGAGACTTGTGCGAA
TTGTTGTCACCAAGTTGTGTAGGTGTGGGGGGATGAAGAAAGAGGTTCCCTTGCTATC
AAGATTTGGCATGTGAGAGGAAGTGTCAAAGAATGAGAGATTGTGGACGACATGCT
TGTAACGTCGCTGCTGTGATGGGGACTGTCCGCCATGTGGAGAGATTTGCGGCAAG
AGGCTTCGGTGTAAGAATCACAAGTGTCTGCCCGTGTTCATCGAGGTGCCTGTTCT
CCTTGTCCCTGTAATGTTTACAATTTTCATGTGCTTGTGGAGAGACTCATTTTGAGGTTT
CCTGTGGCACTGAGAAAGACCAAAGCCTCCAAAATGTCGTAATCATGTGGAATA
TCTCCTTTATGCCGACATGGATCAGATTCTAAGCCACACAAATGCCATTATGGGGCA
TGCCCTCCTTGTGCGATTGCTTTGTGATGAAGAATACCCATGCAGCCATAAGTGCAA
TTAAGGTGCCACGGCCCCAGACCACCTCCTAATCCAGATTTTCACATTGAGGCCAAAG
AAAAAGAAACCAAATCATCAGAGTGAAAGTACACCAGGAACCCCATGCCCTCCTTG
CCCTGAACCTGTTTGGAGGCCATGTCTTGGCCAGCACATTGGAGCAGAGAGAATGAT
GGTCTGCTCAAACAGAACCCAATTTTCTGTGAAAATCTGTGTGGGAGCCCTCTTTC
TTGTGGCAATCATTATTGTACAAAACTTGCCATGCACTGAAGAGCCAGTCTTCAAC
TTCATTGGTTCAACATAAAAGAAGCGAGTCTTGTGAAGAGTGTTCATCTTCCTTGTGA
AAAGGAACGGAAACCTGCTTGTGCGACATTCTTGCCCTCTACCATGTCATCCTGGGGA
CTGCCCTCCTTGCAAAGTTCTTGTGAAACGATCTTGTATTGTGGTTCTATGGTCCAC
GTTTTTGAGTGCATATATTACAATAACTTGTGAGAAAAGGAGCAAATGGCTGCTCGT
TCATGTGGTGGATCTTGCCATAGGAAATTGCCTAATTGTACACATTTATGTCCCAAG
ACATGTCATCCAGGTCAATGCCCATCACCTGACAAGTGCGCCAAAAAGGTCACCTGTT
CGTTGTCAATGCCAAACCTTGAAAAAGGAGATGCCATGTCAAGAGGTTCAAGCAGC
CTATCACAAGCAGGTTCCGATCCCAAAGATATATCTAAAAGTCATTTTGGACTTGG
ACTTCTTCCTTGCAATTCTGGTTGCAAGAGTAAAGCACAGGTTGTGGATCAGGAATT
GCATTTGCGTAAATCCAAAGACCTGGAGGAGAAGGTTCCAGCCACTGAAATTCATC
CACCGAAGCGCCGAAAACGGCGTGAACATTTACAAGAAACAAAGAAGACCTCACA
ACTGCAGAAAATTGCTGCCACCATGAAGTGGCTTCTTGTAAATAGTCACCCTTATGGT
GACTATGGTGGCAGCTGCATATTTTCGGTTACAAAGGTCTCATTTGGCTCTCCGATTG
GATGAATGAAGTTGAAGAGCAACAAAGACACAGAAGAAGACATCCACGAATC **TAA**

Potri.010G209400.1 (C2H2 family)

AGGATAGGCGTACCACTTACACAATTTACACAAACCATACAACTTATAAATACCACA
CCGATATGACTCCTACATGATTCCATCTTCTAAGCAAATCCAACATCCTTTTACATT
TGAAACCAAAGGATAACAAAACCTTATTGTTTCATATTCTTATACC **ATG**AAGAGAGG

TCTGCACGAGAGAGAGATTGATAGCATAACCATGGCTAATTGCTTGATGTTTCTATC
TAAAGGAAGGGAATCATATTCTTTTCCTTCATTTGATCATGCCATGAGCAATATTTCT
CCTGCTCGTGTTTTTGGAGTGCAAACATGCAATAGGCAATTCCCATCGTTTTCAAGCC
CTAGGTGGTCACCGTGCAAGTCACAAGAAGCCAAGGTTGATGGGAGGAGAAGGGA
GCTTCGAGACTCAATCGCCAGCAAAGCCTAAAACGCACGAGTGCTCTATTTGCGGA
CTAGAGTTTGCTATTGGACAAGCTTTGGGTGGTCACATGAGGAGACATAGAGCTGCC
TTGAATGATCGAAACCAGGTGGATCCTCTGAACCCTCCTAGCACTGATGATCAAAAA
GCAGTTCCTGTGCGTGAAGAGATCTAATAGCAGGAGGGTTTTGTGTTTGGATTTGAAT
TTGACTCCTTATGAGAATGATATGGAGTTGTTTAAGCTCGGAACGACAGCTCCTATG
GTCAATTGTTTCTTTTAGATCTTACATGTGTAATCGCATGAAACTATACCT

Potri.010G223200.1 (ARF family)

TCCAAGATTCACAGTTCTGATCTCTACCCTTTGAAAAGCTTACGACTTTTTTGTGGC
TTATGAAGCTCAAGTTTGTATGTTGAGGCAAAGCTAAGAGACTGTTCTTCCCAGATT
CTACAAATCCCAAAACTACAGAGTGGTCCAATGATTAGGGAATTTGCAGTTATGAAT
TCCCAGAAGGAAAAAATGAGAGTGGCAGAAAAATGTTTAGATTACAATTATGGCA
TGCTTGTGCAGGTAGCATGGTTCAAATGCCAGCAGTAACTCAAAGTTTTCTACTT
TCCACAGGGTCATGCAGAACATGCTCAAGGGAGTGTAGAATTTGGTCACTTCCAGAT
TCCTGCACTAATCCCTTGTAAGGTATCTGCTATTAAGTACATGGCAGATCCTGAAAC
CGATGAGGTTTATGCCAAAATTAGGCTAATCCCCTGAATAATAGCGATTTAATGCT
TGGACATGGTTGTGGTGAAGATAATGATGATAGGTTGCACAGTGGGAATGAGTCTC
AAGAGAAGCCTGCTTCTTTTGCTAAGACATTGACTCAATCTGATGCTAATAACGGTG
GTGGTTTTCTCTGTGCCACGTTATTGCGCCGAGACTATATTCCAAGATTGGATTACAC
TGCTGAGCCTCCTGTGCAGACCATTCTTGCTAAGGATGTGCACGGAGAGACCTGGAA
GTTTAGGCATATCTATAGAGGGACGCCTCGTCGCCATTTGTTGACTACTGGATGGAG
TAATTTTGTGAACCAAAAGAACTTGTGGCTGGGGACTCTATTGTGTTTTTGGAGAGC
AGAGAACGGGGACCTTTGTGTTGGAATTAGACGTGCTAAGAGAGGGATTGGTGGAA
ATGAATGCTCATCAGGGTGGAAATTCATTTGCGGGCTATTCTGGGTTTTTGGGAAG
ATGAGAGTAAATTGATGAGGAGGAATGGCAATGGGGATATGAAGGGGAAAGTGAA
GGCTGAGTCTGTTATTGAAGCTGCATCTCTTGACGCCAATGGGCAGCCTTTTGAAGC
TGTCTATTATCCAAGAGCGAGTACTCCAGAATTTTGTGTAAGGCCTCAGCTGTGAG
GAGTGCAATACAGATTCAGTGGTGTCCAGGGATGAGGTTCAAATGGCTTTTGGAGA
CTGAGGATTCGTCTCGGATTAGCTGGTTCATGGGAATATATCTTCTGTTTCAAGTTG
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GCCAGATCTACTCCATAATGTAAAGCGTGTGAGCCCATGGTTGGTTGAATTGGTATC
AAACATGCCAGCCATCCACCTATCACCTTCTCACCCCAAGAAAGAAGTTGAGACT
TCCACAGCCCCCGGATTTTCCCTTACTTGGTCAAATCCCAATGCCGTCATTTACTGGC
AACCTCTTAGATCGAACAGTCCCTTATGCTGTGTCTCAGATAACATTCCTGCAGGC
ATACAGGGAGCCAGGCATGCTCAATTTGGACTATCTTCTTCGGATCTCCAATTCAAC
AAACTGCAGGCGGGACTGTTCCCGGTTGATTTTTCAGCGGCTTGATCGTGCTGCCCT
CCTTCTAGAATCTCCAATAGTAACTTCGTTGGCAATACTCAAACAGCGAGAGTATT

TCTTGCTTGCTGACAATGGGAAATTCCTCACAGGGTATGAAGGGCAGTGACACAAA
GACACCCACATTTTATTGTTTGGTCAGCTTATTGTCACCGATCAGCAGAGTTCTCAA
AGCTGCTCGGGTGATACAAATGCAAACAGTTCATCAGATGGACATCCAGGGAAGGC
AATTCAGATGGTTCTGGTTCTGCATCACAAACAGAATGGTCCGCTGGAAAATTCTTC
AGGTGGGAGGTGTCCTTGGTACAAAGATTACCAAAAACTGATCCTGGCCTGGAGA
CCGGTCATTGCAAGGTGTTTCATGGAATCAGAGGATGTGGGTGCGAACCTTGACCTAT
CAGTCCTTGGTTCATATGAAGAGCTGCACAGAAAGTTGGTTAATATGTTTGGCATTG
AGAGCTCAGAGATGCTGAGCAATGTGCTTTACCGGAATGCAGCTGGCGCCACCAAG
CACGCTGGAGATGAACCCTTTAGTGAGTTTTTGAAGACAGCTAGAAGGTTAACGATT
CTTTCAGATGCAAGTAGCGACAACGTAGGAAGATAGACAACGAGGAACTTCCATCA
AAATGTACAGTTCGCAAGTCTTTTGTGTTTGAAGAACATTTCACTTATTTTTGTCTAT
TGGGAGCTGTGGGATAAGTCCCCTTCATCCACATTTAGGACATGTTTTCCCCTGTCT
GTAGCACAAAT

Potri.010G223300.2 (GATA family)

CTAGCTAGCAATGAAGGAGGAGGCTCAACTACCATATAGCGCCCTTTCCTTTCCTTC
TTCAATCACTTGCTACTAACACTATTAGTACTACCCACCCACCTCTTCCCTCCCTGTTT
CAAACTCAAACACATATCACACATTCCCCTCTCCTCTCTTTCACCTCACTTCACTCCT
ACCGCCCTCTTACCTCTCTCTATAAG(Deletion:AGCCAAACTGGGTTCCCTTCTCTGC
TTTCTCAAATTTGTTGGCAATCAAATTAAGCATAAACTAAGATATTTCTCTCGAAC
AAATTCCAAGAATTCGA)GAATTTGAAAGCACAACTTCCAAAATTCGAATAACCAA
GAACCCCTTCCCTCCCTCCTCAAGGAAAAAGAAGTTTGAGAGAAAGTGAAGAGAA
AATGATTGGACAAACAAATACTTCTAGTGGTTTCATGGACGAGATAGATTGTGGAA
GCTTCTTCGACCACATCGACGACCTCCTAGACTTCCCGTCTGATGATGTCGACGCTA
GTTTGCCTGACTGCACCACCACAAACAACCATGCTAGTTGTTTCATTGACAACGATG
ATAACTCGTTTCCTGGTATTTGGTCGTCTCAGTCCGACTCACTCCCCGGTTCTGCCTC
TGACCTCTCCGCCGAGTTGTCCGTTCCGTACGAAGATATTGTTTCAGCTGGAATGGCT
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AGTCTGCGTCTGTGACAAAAAGGACTCGACGCCACACCACAGTTCCAGACTTCCA
GCCAGTTTCTGTCCCTTGAGAGCAGTAGCGACTGCTCAGGAGAGAAAAATGCACCTC
GCAGCCCTGAAATTGTTGCTTCTGGAAAATGTGGGCGTGCTCGCAGCAAGCGTCCCTC
GCCCTGCTGCGTTCCTCCTCGCCCTGCAATGCAACTCGTTTCGCCAACATCGTTCGAT
CACTGAGGTGCCCCAGCAATTTGTTTCTCCTAGAGTCCCTTCAGATTCTGAGAGCTTT
GCCGAGTCAAGACTTGTGATCAAGATACCAGAGCATGTTGACCCAGAACACAAGAA
GAAGAAGAAAATTAAGTTTATTGTTCCGTCAGGTACTGTGGAGATGAATCAAACTC
ACAGCCACAGCAAGCAGTTAGGAAATGCATGCATTGTGAGATAACCAAGACCCAC
AATGGAGAGCAGGACCAATGGGTCCAAAACCCTTTGCAATGCCTGCGGTGTTTCGA
TACAAGTCGGGCCGGCTTTTCCCCGAGTACCGGCCTGCAGCCAGTCCAACCTTTGTT
CCTTCCCTGCACTCTAATTCGCATAAGAAAGTTGTTGAGATGAGAGCAAAGGCTGGG
GAGAAAATTACTACCAGCAGACCTGCTACAATGATGGTCAACTCGCCAGAGTTTATT
CCAAATGAGAGCAACCCTGCAATGGATTACATGTGAGGGAGGATGTAGGGAACAGT
GTTCTGTTGGATCATTTCACTTTGCCGGCCCCCTATTTTCACTGTCATGCTGCTCGCT
CAC

Potri.010G240800.1 (MYB family)

AATGCATCAAGACTTTAACTTCCAACTCGGTGCTTGACTCAGCCGCCTCATGCCAC
AGCCGCCACTCGCTGGACTCGCGAGGAAGACAAGATTTTTGAACAGGCTCTAACTAT
TTCCCTGAGAACTTGCCAGATCGGTGGCAGAGCATTGCAAACCATATCAGAAAATC
AGCGTGGGAAGTGAAAGAACATTATGATATCTTGGTTCACGACGTTCTTGCAATAGA
TTCGGGCCGTGTTGAATTGCCAACTTATAGGGACGATGAATCTGTGAGTTGGGAATC
CAGCGGCGGCGACGACGGCGGGATGGTCGCTGCGGGTGCGCCGCCGTCTGGTCAGA
TTTGT TTTGGTGGCAAAGGAAAGCAAGATACGGAACGGAAGAAAGGCACACCATGG
ACTGAGGATGAACACAAGCTGTTTTTGGTTGGATTGAATAAATTTGGCAAGGGTGAT
TGGAGGAGCATCTCAAGGAATGTGGTCATTACCAGAACACCAACACAAGTAGCTAG
CCATGCACAGAAGTACTTCCTCCGCCAGAATTCGGTGAAGAAAGAGAGGAAGAGAT
CTAGCATTGATGACAT AACCTCAGTGGATAACAACACTGTTGGTCCTTCAGCTGATG
ATTATTGGAAGCTCTCCGCCTGGCCCTCCAGCTAATCAAGACGGGCCACCGGGTTTGG
GTTATCAAACCTTTAGATTTCAAATGTAA AAATGGTTAATTAGTGTAACATCATTG
TACTACCCGCGTCTC

Potri.011G098400.1 (NF-YA family)

GCTTAGGGACTGTGGACATAACAGCCTCATGACTTCTTCGGTGCATGATCTTTCTGA
TAATAGTGAAGCTGGTGAGCAGCAAAAACACTCAGAACCCAGGTGCAGACTTCTT
CTCCTGCAAATGCACTGGCACACCCAGGCATCTCACCTCCAAATTTTCAGTATGCAA
CTCCACAGCTTGGAGCAGGACATGCTATGGCACCGGCAGCTTACCCATATCCAGATC
CTTATTATAGAAGCATCTTTGCTCCATGTGATGCCAGCCATATGCTCCACAGCCCTA
TGGTGCACAACCGATGGTCCATCTTCAATTGATGGGAATTCAGCAAGCTGGAGTTC
TTTGCCATCTGATGCTGTGGAGGAACCTGTGTTTGTAAATGCAAACAGTATCATGG
TATCTTGAGACGACGGCAATCTCGTGCAAAAGCTGAATCAGAGAACAAAGCAATCA
AGTCTCGGAAGCCATACTTGCATGAATCTCGACATCAGCATGCACTTAAAAGAGCTA
GAGGATGTGGGGGTCGGTTTCTCAATTCAAAGAAAAAGAGAATCAACAACAGAAT
GGCATGGCCCCAGGTGACAAATCACAATCTAATGTCAATCTTAATGCCAATAAAAAT
GATATTGCTTCCTTGGATGACAAGTCTTGA TACTGGAAGTGAT

Potri.011G123500.1 (NAC family)

CCCATCAGAAGTGGTAACTGTCCTTATAAAAAGAAGGATCATGCCACTCAATGCAAC
ATTTGAACCACCTCTCTAAATTGTAGCATGTTCTCAGATAATAAACCTCTAAATCAT
CTCAGGACTCCTCAATTTCTCAAATTCGCCACTCCAGCAATTAATGGAAAGCACTGA
TTCATCCACAGGAGGTGCCGGAGGCGGCGGCGGCTCTCAACAACCAAACCTTC
CACCAGGGTTCCGGTTCCACCCACAGATGAAGAGCTAGTTGTTCACTACCTCAAGA
AAAAGACCACTTCTGCTCCTCTCCCTATGGCGATTATTGCAGAAGTTGATCTTTACA
AGTTTGATCCATGGGAATTACCAGCTAAGGCCACGTTTGGTGAACAAGAATGGTACT
TTTTTAGTCCGAGGGACCGGAAGTACCCAAATGGAAGTGGCCAAACAGGGCAGCA

ACTTCAGGGTATTGGAAGGCTACGGGAACTGATAAGCCAATATTAACCTTTAGGTGGT
ACACAGAAAGTTGGGGTAAAAAAGCCCTGGTCTTCTATGGTGGTAAGCCTCCTAA
AGGGATCAAACCAATTGGATCATGCACGAATACCGGTTAGCTGATAACAAAGTCA
AAAACAAGCCACCAGGATGTGACTTGGGAAACAAGAAAACTCCTTGAGGCTTGAT
GATTGGGTGTTATGTCTGAATATACAAGAAAAACAACACACATAGACCAATAGATCA
CGATAAAGATGATTATATGGATGATATTCTTGGATCAATACCGCCTTCGATACTGGT
TGGTAACCATCAGAATGGAACACTTCATCTTGCTAAAGGCACAACTATGAGACATT
GCTTGACAATGACCATAATTTATTCGAAGGAATAATAAGCAGCAATGATGGCATCA
GAAGCAGCAGTTCTATGTCTCACGTGGCTTCTTCAGTATCCAAGCCAGATCACCTAC
CCATGCTTCCACTCAAAGAACACTCCCATCACTGTATTGGACCGACGAGGACATGG
CTGTCCCTTCATCAAGTAAGAGATTTCAAGGGGATATTAATGGAGATGAAAGTGTTG
TGGGGAATGATGGGAATAGTTCCATAGTTACTCTTCTCAGTCAACTTCCACAGACAT
CTCAATTGCACCAACACACAATGCTGGGGTCTATGGGAAATGGAATTTTTAGGCCAC
CATATCAAATTCCAGGCATGAACTGGTACTCTTAAACTAATCTT

Potri.011G129500.2 (bHLH family)

CACTCACACACACAGAGAGAAAGGTCAACCGCCAACATTCCGGTTAGTTCTTTCGTT
AGCACACCACAGGACCCAAATGGTCACTTTGGCTACCCTCCTATATACTCGAGT
TTTGCCTGAACGGTTTTCTATCATTTTTATGTAACCATAGAAGCTTAGTAAAAGCATC
CAAGAAATCAAGAAACAAAGCACAAGAATCTTGCGCACAACAACCACACAGAGAC
CAGGCAGCAGTCGCTATAGTTAAGCCATGGCAGACGAGTACACAAGCACAACTGG
TGGGATTCATCTTCATCAAGCAGGAACAGGTTTTGATAGTACTGGATCATCATCTACA
ACTTCGGGACATACTAGTTTAGGAAGCTTTGCTTGGCCAACAGAAATGGTTGATGTC
AAAGGAAGGTCTTCTATGGAACTGTTTCAGTCTCGGATAGTTCTGTTGTTTTCCATG
ATTCCAGAAGCTGCAACAAGGCCATGATTCTTCTGCTGACTTGCATATGATGGGTT
TAGGCCTCTCTTACCAGCCATTGATTGGAACCAGGCCTTACTTCGCGGAGATAAGT
CTGAGAACAGTTTTTCGATCGATGCTACAAGATAATTTGAGTTCAAGCACAAATTATC
AGCAAGAACTGGGATTGGATCTTCTCAAGCTCAGTGGAGATCATCAGAGAGAGTG
TTCGCTGGGGTCAGTGGAGACTCCTCTATGAATGAGTTTAAGCAAATGAATCGGGGC
TTTTCTTTAGATCAACCACAGTTTAGTCCTCACGGGAGCTCCAGTGATAGTACTGTG
ACAGGTCAAGGCTTGCAGTCTAGTTTCCAATGGATTCATCAGGTATATATGGAAGC
CCTTCAACTATGTTGCAAGGACTATTGGGATCAGATAATCAAGTACAGCAGTCTTCG
TTCGACAACCGATCGATGGGTTATGCATATGGGGCAAATTATGGTGTTAGCACTAAT
GAATTGTTGCCTTCTTGGTCTAAAATACCTCAATTCTTGAGAAATTCACCACCCAAA
CAGCCTCCTCATAACCAGTTGCACCTCTCCAATAATGCTCCCTTTTGGAATGCATCTT
CAAGTGCCATGAGTGATGTCCGTCCGAGCTTTTTCCCGTCGATGCAACCGCAGTTTA
CCACATCCAATTTTCGATGAAAAACCTAAGAATATATCTGAAGTACGGGATTTCGAATA
CAGCAGTAAAGAAAAGTGGGGGTGAAGCAGGAGCAAAAAGGCCAAGAAATGAAAC
ACCATCACCTTCGCCAGCTTTTAAGGCGAGGAAAGAGAAGATGGGGGACAGAATCA
CTGCACTCCAACAATTGGTTTCACCTTTCGGAAAGACTGATACAGCCTCGGTTCTCTC
TGAAGCTATTGAATACATCAAATTCCTCCATGAGCAAGTCACTGTCTTGTGCACCCC

ATACATGAAAAATGGAGCTCCCATACACCACCAGCAGAGTTCTGAGAAGTCCAGGG
ACTCTGAAGGACAAAAACAAGATCTTAGAAGCCTAGGGCTATGTTTAGTACCGGTA
TCGAGCACTTTTCCGGTTACTCATGAGACCACAGTTGATTTTTGGACCCCCACATTTG
GAGGGACTTTCAGAT**TAA**AAGGAAAGGACGATGGTAAAAAATTCGGGCATGGGAAC
AGATTCTATGCAACTAGTGTATATGATCTTATCAAACCCTAGCCAAGTTGGGAATGA
TAAGATTAACGATAGAAAAAATAAGGAACAGAAAACAAAGAAGCCCCATATTA
GTAGTTCTGGATGGAAAAGAACA
ACTATGTAGAGAAACTGTGAAAGAGAAAGAAAA
GGAAATGACTCTCCAAGGGTACACGCGGCCAGCTACAAGCAAATGATATTTTTGTT
TCGACGGCTAGAAGTATGTTAGCGCCAGTTTCTGTGTTGATCGAGATTAATCCTCT
CTTCAGATAATCTTAAAGGCAGGCAGGCTCACTTACCATATCAGCTAGTACATTC
AAAGAGATTTAATGCATTTCTCGGAAAGTCAAAGGATGCATATGGCCAATGTTTGGAA
GTATCTTATTTGCT

Potri.012G127700.1 (MYB family)

GGCGTGTGAGACATGTTTCATCTCCAAATTATCATTGTTGATTTGCCCTTAAGCAAGAG
AAATCACTAGTATATAAAGGTGGGTGAGTGGGGCTTTGTTCTCTGGGAGTAATTTGG
TGGGAGTGATATAGCAACTAGTGACTTGCTATAGTG**ATG**GGCAGACAACCTTGTTGC
GACAACTCGGTGTGAAGAAGGGCCCTTGGACAGCTGAGGAAGACAAGAAGTTGGT
CAATTTTATTCTCACACATGGCCAATGTTGCTGGCGTGCTGTACCCAAGCTCGCCGG
ACTCCGCCGGTGTGGCAAGAGCTGCCGTCTTCGCTGGACTAATTACCTCCGGCCTGA
CTTGAAGAGAGGCCTTCTTAACGAGGATGAGGAGCAACTTGTCATTGACCTCCATGC
TTGCCCTTGGCAACAGGTGGTCCAAAATCGCAGCAAGATTGCCGGGAAGAACAGATA
ATGAGATCAAGAATCACTGGAATACCCACATTAAGAAAAAGCTAATAAAGATGGGA
ATTGATCCTGTTACGCACGAGCCTCTCAATAAGCTAGAGAGTCCTCAAGAAAGTACA
GTACCTTGTCACACTAATTATGATCAACCCAATTTTAACGCTGATGGCCAGCAGGTC
CTCCCCAAAATTGTGGCCATGCCTCCTCTAGCACCCTGATAATTCAAGCACGACC
ACCCCGACTGAAAATTCTTCAGTGGATGAATGCATAGGGTCATCAGAACCTAACAGT
ACTCCTGACAGTGATCCACTAATGAGTTGCATATGGTCGGAGGTATTTCTTGATGAT
TCATCTTGGAACCTTCAAGCCAGTAGAGGAGGAGATTTTAGTGAATTCGGGCTATCT
AAATCTTCATCAGAGGATAGTAACTCTCCATGGGTTTTAGACTCTAAGGATCTTGGA
GATGAATCTTTGGACTTAGTTGTTTCAGTGACATGGACTTGAGTATCCTAGACATG
GGTGGCAAGCAT**TAA**

Potri.013G008600.2 (TALE family)

GATCAGTGAAGCTAGTATTCTTGCTGTTACAATTCTAGATTGATAAATATCTTGACA
ATCTTTTTTTTGTATTGATAGACAATTT**ATG**GAGGGATTTTATAGGTTAATCCTAC
AATTTCTTGTTACCAAATGATATTGCTAGACTTGAAA
ACTTGCCTGTTGTTAACTTT
ACTGATGCTACTACCAGTAACAACGAATTTACAGTCAAGTTGGTAATTTACTTCAA
GCTGGTCATGGTTATACACCAGTCACTGAATCAGATATGCATGATGTAATCAAGACC
CAGATCGCCAATCACCTCGTTATCCAGACCTAGTTTCTGCATACGTAGAGTGCCGA

AAGGTTGGTGCACCTCCAGAAATGGTTTCTCTTCTTGAAGACATAGGCAGATGTAGC
TACCAAATCAATACTTGCTATGAGATAGGAGCTGATCCAGAACTTGATGAGTTCATG
GAATCATACTGTGAGGTTCTTCATAGATACAAGGAGGAATTATCCAAGCCGTTTGAC
GAGGCTACTACTTTCTTGAGCAGCATAGAATCACAACCTAAGTAGTCTTTGCAAAGGA
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GAGTTAAGCTGTGGGGAAGTTGAAGCATCTGAAATTCAGGGTTCATTAGGTTTTTAC
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CAGTTTGAGAAAGGAATTCCTAAAGCAAAGAAAGAAAGGCAAACCTACCAAAGGAT
GCAAAGACATTGCTTTTGGACTGGTGAACCACCATTATAGATGGCCATATCCTACG
GAAGAGGAGAAGGCGAAGTTATCAGAGATTACAGGGCTAGATCAAAGCAGATTA
ATAATTGGTTTATCAACCAGCGGAAGCGGCACTGGAAACCATCAAAGATATGAGG
TTTGCTCTCATGGAAAGTGTCCGGTGGTGACACAGCTGGACCAACATGCTATGGTATT
GTTGGTGATGACATTGGGACA**TGA**GGAAACTCATGTTTGGTATCCATTCGTCATCT
TCTACC

Potri.013G025000.1 (NF-YC family)

ATGGATCAGCAAGGGTATGGGACAAATCCATATCAGCCAAACCAAATGCCTGCTGC
CTCAAATCCTGGATCAGTTCCTGGTCAGCCTGCAGGAGCTCAGCTTGAACAGCATCA
ACTTGCCTATCAGCAGATCCACCAGCAACAGCAACAGCAACTCCAGCAACAACGCC
AGTCTTTTTGGACAAATCAGTATAAAGAAATAGACAAAGTTACTGATTTCAAAAATC
ACAGTCTTCCCTTGGCAAGGATCAAGAAGATCATGAAGGCTGATGAGGATGTCAAG
ATGATATCAGCTGAGGCACCAGTTATATTCGCCAGGGCTTGTGAAATGTTTATTTA
GAGTTGACCTTGCAGTCTTGAATCACACGGAGGAGAACAAGAGGAGGACACTACA
GAAGAATGATATTGCTGCAGCTATCACTAGGACTGATATCTTTGATTTCTGGTTGA
CATTGTACCTAGGGAGGATATGAAAGATGAAGTGCTTGCATCAATCCCAAGAGGAA
CAATGCCTGTTGGAGGGCCTGTTGATGCACTCCCTTACTGCTATATGCCACATCCAC
ATGCACCTCAGGTCGGGACTCCTGGGATGATAATGGGCAAGCCTGTGACAGACCCA
GCCATGTATGCCAGCAATCTCATCCCTATATGGCACA**A**CATATGTGGCCACAGGGA
CCAGAGCAGCAGCAGTCACCCTCAGATCAG**TAG**

Potri.013G107600.1 (M-type family)

CA**ATG**GGCCGCAGGAAGGTAAAACATGAATTGATTTCCAATGAATCTGCCAGGAAA
GTGACCTTCAGGAAGAGGAAGGCTGGCCTACTGAAGAAGCTTGATGAACTCGCAAC
TCTTTGTGGGGTTATTGCTTGCCTATTATTTTCAGTGCCTATGATGATCAACCAGAG
ATCTGGCCTTCCCCCGCAGAAGCATTGTTTGCCTTGAAGAGTTGAAGAGATTACCA
TCAAGAAAGCCAGGAAAATACATGGTGGACCAAGAAGCTTTTCTCAGCACAAACGT
ATCCAAGCTGAATCAGCAACTGGAGAAACAAAGGCGGAAAAATCTAGGGCTTGAGT
TGGAGTTAATGATGGCCGGCTGCAAAGAAGGTATGGATTTACATGATTTAAAACGC
ATAAAAAACCCGTCTGAATCAATTCAGTTTCTGGAGGAAATGATTGCGTCTGTCACC
TCTGAGATCGAGCATGCTGAGAATGAGAATAATGCT**TAA**

Potri.013G126800.1 (bHLH family)

GAGCTCCTCTGGCAATGCTGTCTCTGGTTTCTTGGGAGAATAAAGAATAGAAGTGCT
AAAG**ATG**ATGGAAAACAAAAGAAGCCCTTGCTCAGTTGACCATGCCAGTCTCACTT
CTCTTGCTACCAAAAAGGCACAAAGCTGATTTTTCCATCTCCACAAAGGAACGAAAAG
AGAAGCTCGGGGAACGAATTGTAGCTCTGCAGCAGCTTGTTTCACCATATGGGAAG
ACTGATACTGCATCGGTCCTTATGGAGGCAATGGAGTACATACGGTTCCTTCATGAA
CAAGTTCAGGTGTTGAGTGCTCCATACCTCCAAGGCACATCAACAGCTCAAATGCAG
GAGTTAGGTCAATACAGTCTAAGAAACAAAGGTTTGTGTCTCGTTCCGACCTCGTGC
ACTGCTGGCATTGCTCGCAGCAATGGAGCAGATATCTGGGCCCCCATCAAGAGCCCT
TCTCCAAATTCAATAAGGACGTTTCACCATTTCAT**TGA**CACAATTTACCTCAGCAA
CTTGTTAAGGTTGTTTTAAGTTTCTAGATAAGGTGGCGTTAAGGGTAATCACCTTTCT
GGAGGCGCAACAAAGTTTTGTCAGGCAGATGCAACTTTGTAACAGAATTTAACGTG
GGAAAAATGGATTTTCGCTTGTTATATTAGTCAAGCTCTCAATGATGTAAAATGTCT
GATGTAAAATGTCTAAGTCACCATTCTAGTATTATCTATGT

Potri.014G050000.1 (WRKY family)

CAGCTTGCGCTCGACACTT**ATG**CACCAAATAAGCCAACAAGAAGAAGAAGAAG
CACAAGAAGGACAGAGAAGCTTTTTGATCAGAATGGATCATGGAGAAAGAGATGTT
CCAAATTACGAGCTACATGTCTCTTTCTCAACACCACAAGCAATCCATGAGATGGGT
TTTGTTCAATTTGAAGAAAACCAGGTCTTGAGCTTCCTGGCCCCTTCACAATCTTCTC
AGATATCTCAGCCTCTAAATGCTAATACTACCACAACCAACAATACTCACATGGGGT
TTAGTCATAATGACCAGCAGGTGGGAGCATTGGATCCAAAGGCTTCTAGTGATGAG
AACTGCACTGGTAATGCTAACAACGATGGCAACAATTCATGGTGGAGGAGCTCATC
CGCAGACAAGAACAAGTTGAAAGTGAGGAGAAAGCTTAGAGAACCAAGATTTTGT
TTCAAACAAGGAGTGAAGTGGATGTTCTTGATGATGGTTATAAATGGAGGAAATAT
GGCCAGAAAGTTGTCAAAAACAGCCTTCATCCAAGAAGCTACTATCGTTGTAATCAC
AACAACTGTCGAGTCAAGAAGAGGGTTGAAAGATTATCAGAGGATTGTCGAATGGT
GATAACAACCTTATGAAGGTAGACACAATCACTCTCCATGTGATGATTCCAATTCATC
AGAACATGAATGTTTTTCTCTTTC**TAA**TTAATACATACTTTAGTTAAATTATTAAGA
AAGACTGTTGTAATATTATTAGAATAAGAATATATAACGTATCATCAGCTTATGACA
GTATTTGCTAGTAAATGGTTTTGAGGGGTTTTTCATCTTCCCAAGATCAGCCATTTCTG
ACAATTAATACGTACCTGTTGATATATGACA

Potri.014G100100.1 (ARF family)

ATGAGCCAAGCAACGCCTACTCAGGAACTGGCTGCCAGAGATCTTCATGGCTATGA
GTGGCGGTTCAAGCATATATTTAGAGGTCAACCACGGAGGCATTTGCTTACAACAGG
ATGGAGCACATTTGTCCTTCCAAAAGACTGGTTGCAGGAGATTCTTTTGTGTTTCTT
AGAGGTGATAATGGGGAATTGCGAGTTGGGCTTCGGCGTGTTGCTCGTCAGCAATGC
TCCATTCGTCATCTGTGATATCCAGCCAAGCATGCATTTAGGAGTGCTTGCGACT

GCCTCTCATGCTGTTTTGACACACACTCTCTTTGTTGTGTACTACAAGCCAAGGACGA
ACCAGTATATCATTGGGCTGAACAAATATCTGGAGGCTGTTAAGAATGGATTTTCTG
TTGGTATGCGCTTCAAGATGAGATTTGAGGGAGAGGATACTCCTGAGAGAAGGTTT
ACAGGCACCATAGTTGGAGTTGGAGATATTTCTCCAGAGTGGTCTGGTTCTATATGG
CGGTCGTTGAAGATTCAATGGGATGAACCAGCAACAATTCAAAGGCCAGAGAGAGT
TTCTCCATGGGACATAGAGCCTTTTGCAGCTCCTGCTTCCCCAAATCTTACTCAACAG
GTGGTGAAGAGCAAAAGGCCCCGATCCGTGGATATTCCTACATCTGAGATTACAAC
AAATCCAGCTGCTTCAGCTTTCTGGTACCATGGACCAACCCAATCTCGTGAGTTAGT
CCAACGAGGGAGTATTACTGAAGTCCAAAGCTCTGAAAGCCATGTCTGGTCTATGA
GGCAGAAGGAAATTGATAGCAATCTCAATAATAACGGTAGCTGTAACCTCAAGGGCA
CGACCAGAAGGAATCTGGCCTTCTTCATCTCACATGAACGTCTCTCTCAACTTTTTTC
CAGATTCAGCAGCGGACAACAAATGTGCTAAAACACAGTCTATTATCTCTGGTTTTG
CCTCTTCTATATCAAGGCAAAGCAATGGCCTGATAAATGAGCAGGTGGAGAGGGGG
AGAAAGTTCGAGAACTCTGTAGGTTGCCGGTTGTTTGGAAATTGATCTGACAAGTAAC
TCTGGCATTGCTGCTGTTCCAGAGAAGGAACCTGCATATCCAATTGTTGATTATAAT
GGAACCAAGGACTTGTTCAGCTTCAAGTGAGGCTGAGAAGGCTCAAACCATGGA
TGTTTCAATGTCCTCAAAGAAGCAGAAGCAAGTTGTACCAGACACATTGGCAAAGG
AGTCACAAAGCAAGCAAGGCTCCACAACCTCCACGAGAACTCGTACCAAGGTGCAA
ATGCAAGGGGTTGCTGTTGGCCGCGCTCTTGATTTAACTGTGTTGAAGGGGTACAAG
GATCTTATAAATGAGCTGGAGAAAATGTTTCGAAACTGGAGGAGAACTTTCCACGCG
TGAAAATGGGCTGTTGTGTTTACAGATAATGAGGGCGATATGATGCTTGTGGGCGA
TGATCCATGGCCTGAGTTCTGTAAGATGGTGAAGAAGATATTCATATATTCAAGTGA
GGAAGTAAAGAAGATGAGCACACGATGCAAGCTTCCCTGCATCTTCTTTTGGAGGGTG
AAGGGACTGTTGTAAGCATGGAGTCGGAGCACAAAGTCTGATGCA**TGA**

Potri.014G120800.1 (bZIP family)

TCAAATCAAATATCTCTGCTAATCCTGTTTGTTTTTTAGATCCTGATCCCTGATTCTTC
ATCTAATCTAATTACAACCGAAGGTATTGAATTTATTTGATTAACTAGTGATTATTT
TATCGAAGAATCTAGAAATTGTAAAAATAAA**ATG**TCTGCAAGGCAAGCAGCGAGC
TCAGGATCGGACAGCGATCCACGATATGCGAACGTGATGAGAGGAAAAGGAAGA
GGATGATATCCAACAGGGATTCTGCCAGGCGGTCCAGGATGAGGAAGCAGAAACAA
ATGGAGGATTTGGTTAATGAAGTGAGCAAATTGCAGAACGAGAATAATCAATTGAT
GCAGGGTATCAATGTTGCCCAACAACGCTACATGGAGATGGAATCAGCCAACAATG
TTCTGAGGGCTCAAGCTGTGGAATTGACTGAGAGGCTGCGGTCGTTGAACTCTGTGC
TGCAGATTGTGGAGGATGTTAGCGGACTCTCCGTGGAGATACCTGAAATACCTGATC
CTTTGTTCAAGCCGTGGGCAGCTCCCGTGTTTCAAGTACAGCCTATTATGACATCTGC**TG**
ATTTTTTTTCAGCATTGATGAATGTGAGCTTGTTCGGTGCCTTGTCTGGGAGATTGTGTT
TCTTGTTCCGGTCTTTTTTTTTTGTCTATCTGGGTCTTTATATTATGTAGTTTATTAGGT
CGTAGGTGGATGCTGGTATCGCGTGAATGTGTTTTGATGGGGGTGTGGTTTGTATCGG
AGTTGTGATGTTACGTGTCCTGTTTTAATTTCTATCTGCGTTTATGATGAGTCAGTTT
CCAATCTGTGGCATTTCCTTCACTGC

Potri.014G167000.1 (FAR1 family)

ATGAAGCCATCAAATAACATATGGATTTCGGCGCCAGCAGTGCCCATGTGGAGATTG
GAAGTGTTATATTAAGTATGAGGGAGATGATCAGACTTCAGCAAGCTCTCAGCTAG
GAAGGAGTGAGACAACATCAACAGAATTAGTCTTCACTCCTTACGTGGGTCAAATTT
TCAAAAGTGATGATGATGCTTTTTGAATACTACTCCAATTTTGCTCGGAAGAATGGGT
TTTCAATTAGGAAAGCACGGTTCGACTGAAAGCCAACATTTAGGGATTTACAGACGA
GATTTTGTGTTATCGTTCTGGATTTAATCAACCACGGAAAAAGGCAAATGTGGAG
CATCCCCGAGATCGGAAATCAATACGATGTGGATGTGATGCAAAATTGTATTTGACA
AAGGAAATTGTTGATGGTCTTGCCCAATGGTATGTCTCACAGTTTAGCAATGTTTCAT
AACCATGAACTGCTGGAAGATGACCAAGTGCCTTTGCTACCTGCATATCGGAAAAT
ACAGGAGGCTGATCAAGAGAGGATTCTTTTGCTATCCAAAGCAGGGTTTCTTATTA
TCGGATAGTGAAGGTGTTGGAGTTGGAAAAAGGAGTTCAACCTGGACATTTTCCCTT
TATAGAGAAGGATGTTAGGAACTTTGTTTCGGACTTGTAAAAAGACTGTTCAAGAAA
ATGATGCTTTGCTCACTGAGAAGAGAGAGAATGATACATTGGAACCTCTTGAGGCCT
GCAAGTCTGTGGCTGAAAGGGATCCAGATTTTGCTTATGATTATACCACAGATGAAA
ATCAAAGGTTGAAAATATAGCATGGTTGTATGGGGATTCTGTTCGTGCATATACGT
TGTATGGCGATGTAGTTACTTTTCGACACCACATATCGTTCTATTACCTACGGCTTGCT
CCTAGGAGTTTGGTTTGGCATGGATAACCATGGAAAAGCAATTTTGTATGGATGTGT
TTTGCTGCAAGATGAAAGTTCTCATTCTTTACATGGGCTTTACAGACTTTTGTCCGC
TTTATAAAAGGAAGACATCCACAGACAATTATAACAGATATGGAGTTGGCCCTTAG
GGATGCCATAGCAAGGGAGTTGCCAAATACAAAACATGTTGTATGTATATGGCACA
TTCTATCTAAGTTATCCAGCTGGTTATCTTTTCCCCTTGGATCGCGGTTTGAAGATTT
TAAAGCTGAGTTTGACCTCTTGTGTCATGAGGAAAATGTAGAAGACTTCGAACATCA
ATGGAATCTTTTGGTTGCCAGATTTGAACTTGTTACAGATAAGCATATGGCTCTACTC
TTTTCATATCGAGGATTTTGGTCAATTTCCCTACATTAGAGGTTTCATTTCTGGCTCGCA
CAATGGCACCTGAGTTTTCACAGTCTCTGCACACATTCCTGAAAAGAATCTTGGGTG
GACAAACATGTCTGCAAGCATCTTTTGGAGCAGATTGGTCTTGCTGCAACTGTTGGAA
ATCAAACCAGAGATGGGACGCCGTATATGCATATCAAGACATGCTTGCCAATTGAA
GAACATGCACGCAGTGTGCTTACACCTTATGCCTTTAATGTGTTGCAGCATGAAATT
GTATTGTCGTTGCAATATGCTATACAAGAAATGGCAGATGGATCATATCTTGTCCAA
CACATCAAGAAAATGGATGGCGAACGTTTTGTAAATTGGATGCCAGAAGATGAGCA
AATTCAGTCTTCTTGCAAGGAATTTGAACATTCGGGGATATTATGTAGGCACTCTCTT
AGACTGCTTGAGGTGAAAACTACTTTTCAGCTCCCAGAAAGATATTTTCCCCTTCGC
TGGCGACGGGACCAATCACTGGTTCCCTATGGATGATCAAAATGCTCAAAGCAACAA
CGATGAGTGTGCTCAAGCCTTCCATGCTCTTGCTGAAGCTCTATTGACAGAGTCCTT
GATATCGAAGGAACGTTTTAACCATGTACAAAGAGAAATTACGGGGCTCCTTGCTG
AAGTTAGAAGTATGCCAGTGGCTGAAGAATTATCTCTGAATATACCCCCTAACAATG
TCAGTGAAACGTAG

Potri.015G082700.1 (MYB family)

TCACCTGAACAAACTCTTGACTTTTTCACTCATACTAGGCATAAATGTATAACC
AACTCCTCGTTTATACCTTTCCATCTTGTTATATAGCGGCTGCTGCAGCTGCTTAGAG
TTTTATTGATAACATACTGTCATATCGCTGTAATCTTTTGAGCAGAAATGGACGA
CATTCTTGTTGTTTAAAGCAAAAATTAAGGAAAGGTTTGTGGTCACCTGAAGAAGAT
GAGAACTACTCAATTATATACTAGATTTGGTGTGGTTGCTGGAGTTCTGTTCTTA
AGCTAGCTGGTCTGCAAAGGTGTGGAAAGAGTTGCAGGTTGAGATGGATAAACTAC
CTGAGACCTGATCTTAAAAGAGGAATGTTCTCTCAGCAAGAGGAGGATCTAATAAT
CAGTCTTCATGAAGTTTTGGGTAAACAGGTGGGCTCAAATTGCTGCACAGTTACCAGG
AAGAACAGATAATGAGATTAAGAACTTATGGAATTCCTATCTGAAGAAGAAGCTTA
TGAAGCAAGGTATTGACCCAACAACCCACAAGCCTCTATGTCAAGTGGGGGTGAAA
GAGGAGAAGGATTGTACAGAGAAGGCATCTTTCCAAATACCACAGTCTAAAGGGTT
GCCATCGTATCAAACCTTCACTGCACAAGAGCCAGCATTCTCATTAAATGATACTAC
TTACAATAGCAGTGGATTACCAGAAGTTTCAAGAGAGCAATTTCTCAACAAGCAAG
CCTATGATCCTTTATCCTACTTTGAATTCCCTGCCGGTATTGATCTTACTGGGTATAA
TCCAAGCCTTTCAAGTGTGTATCATCCAAGTGTAGATCTCTTGATCAAAACCAATTT
GAAACAAGTTCAACTTTGGATTCACTTCAATGCCAAGTTTAAACAAGTTTTGACCAT
GGAAGTATGAGTGGGACGGATTTCTCCGATAACTCGGCTTCAAGAATGAGTTCAATG
TTCTTGAACGAGGCAAAGGAAAGTTCCAGTAACAGTTCAAACATCAGCAATTATGC
AGGATACCAGATGAACAATATGGTGGAGAATGCAGCAGCTTTCTCATCATGGGATT
CTGATGATCATAAGTTAGAGTCGGTGTTCATATCAACAAGTCAATGGGGTCAAGA
CAGAAGAATTGAAGCCTAGCCCATGGCATGAAGCTGGACGGCTCCATACTCATCAG
AATTCAGTAGATTTCAATAGCTATCCGTTAACGTCGCTGTCAGAAGATATAACAGGA
GCAAATTTTGATGTCTTCCACCAGATACTGTAATTCATTAATTTACCCCCCCC
CTCTTCTCTCCAAAC

Potri.015G097400.1 (NF-YC family)

ATGGACAACACCACCACCAATCACCAGCCTCAGCCCACGGCATAACCAACGCAATC
CATCACCACCCTCCACCCTACCTCCAGCAGGTGGAGCACCATCCTCAACCCATT
CCACCACCTCCTCCAACAACAACAGCAACAACCTTCAAATGTTTTGGTCTTACCAACG
TCAAGAAATTGAACAAGTTAATGATTTCAAGAACCATCAACTCCCTTTAGCAAGAAT
CAAGAAAATCATGAAAGCTGACGAGGATGTGCGCATGATCTCTGCTGAAGCACCTA
TTCTCTTTGCTAAAGCATGTGAGCTTTTCATTTTAGAAGTCAATTCGTTCTTGGCT
TCACGCTGAGGAAAACAAGAGAAGGACTTTACAGAAGAATGACATTGCTGCTGCTA
TTACAAGAAGTCAATTTTGGATTCTTGGTTGATATTGTACCTAGAGATGAGATCA
AAGAGGAAGCTGCTGGTCTTGGTGAATTGTCGGTGTACGGCTAGTGGGGTGCCAT
ATTATTACCCTCCGATGGGACAGCCTGCCGCTGCCACTGGAGGGATGATGATCGGAA
GGCCAGCCATGGATCCTGCCACTGGGGTGTATGTTCAACCACCTTCTCAGGCTTGGC
AGTCTGTTTGGCAGACAGCTGCCACCGAAGATGGTTCTTATGGGAGTGGTGGTGC
GTGGTGGACAAGGGAATCTTGATGGACAAGA(Deletion:GTAT)TTAAGCTTCTCGGAT
GCAGAGGTGCGACAGAGGCTAACAAGGGCCTTGGCTAA

Sequence with Blue underline represents the premature termination codon.

Potri.015G129100.1 (MYB family)

GTGATGGGTAGACAACCTTGTTCGACAACTTGGTGTGAAGAAGGGGCCTTGGAC
AGCTGAGGAAGACAAGAAGCTGGTCAGTTTTATTCTCTCACACGGCCAATGTTGTTG
GCGTGCTGTACCAAAGCTCGCCGACTCCGCCGATGTGGCAAGAGCTGCCGTCTTCG
CTGGACTAATTACCTCCGGCCTGACTTGAAGAGAGGCCTTCTTAATGATGATGAGGA
AAAACCTTGTCATTGATCTCCATGCCCCGCCTTGGCAATAGGTGGTCCAAAATCGCTGC
AAGATTGCCGGGAAGAACAGATAATGAGATCAAGAATCATTGGAATACTCACATTA
AGAAAAAGCTTATTAAGATGGGAATTGATCCTGTTACACATGGGTCTCTCAGTAAAC
AAGTGAGCCACAAGAAAGTACAGTATCTTGTCACACTAATTATGATCAACCCATTA
TTAATGCTGATAATCAGCAGGTTCTTCCCAAATTTGCGCCCATGCCTCCTCTCGTAC
TGATAATTCAAGCACTACGACTACACCGACAGAAAATTCCTCAGTGGATGAATGCGT
AGGGTCATCAGAACCTAATAATGACAATGATCCAACAATGAGTTTCATATGGTCAG
AGGCATTCCTTGATGACTCATCTTGGAACTTCCAAGCCACGAGAGAAGATTACAGTG
AATTTGGGGTATCTAATTCTTCATCAGATCAGGATAGTTACTCTACATGGTTTTTAGA
CTGTAAGGATCTTGGAGATGAATTCTTTGGGCTTAGTTGCTTCAGTGACATGGACTT
GAGTATCCTAGACATGGGTGGCAAGCATTAATGCACTGCCTCGTAGAGTGATCA
CAAGGTATATTAAGTAACAAGAATGGAAGCACAAGGATTATTGAAGGCTCAAGCT
TCCTGAATTTTAGTTTCTATATAGTCTTGCACCTAGTTTTTTTTTTTTTCCATCCCAC
CATTCAAATATTGAAAAGAACAAGGGAAAGGAAGATATTGAAAGTGTTAATAAT
GATTTTCCTTTCCTTATCCAATATTCCAATAAGAGTTTCAAGACCCTTATAACATT
AG

Potri.016G035400.1 (bHLH family)

CCTTCCCTCCGTTTCATTTTCTTCTTCTTAGAGCAATCCAAAAACACAACATGCAGC
CTGAAAACCTGCTCAGAGAATTCACAGTTGTACCGCTTCTTGCAGAGAATGGAATGA
TTAACGTTGGTGCATATGGTTTCCAGGCGCCGCGATGCAAACCTTGTGTACCTCAT
CATCCACCTCCTACCATAACAATAATTACCAATTTGAAAGTTCTGTAATCACTGATA
TGACACCACAAGATAGAGCTCTTGCTGCTTTGAAGAATCATAAGGAAGCTGAGAAG
AGAAGGAGAGAGAGGATTA ACTCTCATCTTGATAAGCTTAGAGGCCTCCTTCTTGC
AATCCAAGACAGACAAAGCTTCACTTCTAGCAAAGGTTGTCAAAGAGTTAGAGA
GCTGAAACAACAGACCTCAGAGCTTCTGGACTTGAACTTTCCCATCAGAAACAGA
TGAAGTCACTGTACTCTCTGGTGAATATTCAAGCGATGGACAGCTAATATTTAAGGC
ATCTCTTTGTTGTGAAGACCGGTTGGATCTCATGCCAGAACTAAATGAGATACTGAA
ATCTCTACATTTGAAGACATTGAAAGCTGAGATGGTAACACTTGGAGGAAGAATTA
GGAATGTTCTTATCATTGCGGCCGATAAAGATCATAGTGTTGAGTCGGTCCATTTCTT
GCAAAATGCATTGAAATCTTTGCTAGAACGCTCGAATTCTAGCGAGAAATCGAAAA
GGCGAAGGATATTAGACCGAAAATTAGTAATCCAAATGATGATTAGTATTATTGTTTG
TCGTAGTTAATTTCTT

Potri.016G087400.1 (S1Fa-like family)

GCTGATCTCTAGCAGCCATGCTGACGATTTTCGAGTTCTCTGATCAATCTCCTCCTTC
CTTCCAGAATATGGGGAATGTGATCAAGGATGCTGAGCCTAAAGGGTTAAACCCGG
GGTTGATAGTGCTGCTGGTTATTGGGGGGTTACTCATGTCATTCTAGTTGGAAACTT
TGTACTTTACACATATGCGCAGAAGACCCTTCTCCGAAAAAGAAGAAGCCAGTCTC
AAAGAAGAAGATGAAGAAGGAGAGACTGAAGCAAGGTGTATCTGCACCAGGAGAG
TGA

Potri.016G112300.1 (MYB family)

CAACTAATCGGGGCATTGGAATCTGTCTCCGGCCTCGTATTTACAGAATTCAA
ACTGGTTTTTTCACGAAAGCAGGGGAACAAAATGGACCCCTGAAGAGAACAAGCAG
TTTGAGAATGCTTTGGCTTTGTATGACAAGGATACGCCTGATCGGTGGCTGAAGGTG
GCAGCCATGATTCCAGGCAAGACTGTAGGTGATGTCATCAAACAGTACAGGGGAATT
GGAGGAAGATGTTAGTGATATAGAGGCAGGACTCATCCCAATTCCTGGATATAATA
GTGATTGTTTCACATTAGAGTGGGTGAGTAATCATGGGTATGAAGGGTTGAAGCAAT
TTTATAGTCCTGGAGGTAAGAGGGGCACAGCGACTCGGCCTTCTGAGCAGGAAAGG
AAGAAAGGTGTGCCGTGGACTGAGGAGGAGCACAGGCAGTTTCTTTTAGGTCTTCA
AAAGTATGGTAAGGGGGATTGGAGAAATATCTCCCGCAATTATGTGACTACTAGGA
CGCCAACTCAGGTGGCTAGCCATGCACAAAAGTATTTTATTAGGCAAAGTACTGGA
GGGAAGGACAAGAGGAGATCTAGTATCCATGATATCACTACTGTCAATCTTCCAGAT
GCCAGATCTCCATCACCAGAAAACAGAAAGCCATCATCTCCAGATCATTCAACCAC
AACCAAGCAATCTCAGGCATCACCAATAACGACTGGCATGGTTAAAGGGCTATTTG
ACTGGAAACCCCAAAATGAAGGAACAGCCACAGTTTTCAATCCAGCAAATGGCAAT
TTGTTGATGGCACCTTCTGTGGGATATCCTCATATGGATCCAAGCTGCAGGAGCAA
AATCTGCTTGGAGGAACACTCCAGGATATCAGTTCGGTCCTTACAATTTGATTTTC
AGATGCAATCAATGCAACATCAC

Potri.017G130300.1 (MYB family)

ATCTTGGTGTTCGTGAAAGGGAAGGCAACCATGTTGTGACAAAGTTGGGTTGA
AGAAAGGGCCATGGACTTCTGATGAGGATAAGAACTCATTACCTTCATCCTCGCTA
ATGGTCAATGTTGCTGGAGAGCTGTTCTAAGCTTGCAGGATTGTTAAGGTGTGGGA
AGAGTTGCAGGCTGAGATGGACAACTATCTCAGGCCAGATTTGAAGAGAGGTCTT
TTATCAGAATACGAAGAGAAGATGGTGATTGATCTCCACGCTCAACTTGGCAACAG
ATGGTCTAAGATTGCATCACATCTACCCGGCAGAACTGATAATGAAATCAAGAACC
ATTGGAATACTCACATCAAGAAAAAGTTAAGGAAAATGGGAATTGATCCTCTCACT
CACAAGCCACTCTCTACCATTGAAACACCGCCGTCACCACCACCACAGCAAGAAGT
TCAAGTGCAGGAGAAATACAAGAAATAGAGCAGCAAGCTGTACAACAGTCTTGT
CCACTAATATCGTATCTGAACTGGACCAAAATAAGGAACTGAGACATCATTCCGAT
CAACAGTAACTCAAGAGGAAGAGATCAATAACATGGCCGCAAGCACATATGGCACA

ATGGAGCAAACGGATGGTTTTTGCATAGATGAAGTTCCGCTAATTGAACCCCATGAA
ATCTTAGTCCCTTGTGGACTTTCTCCTTCATCAACCCCAACCTCTTCATCAT
CGTCATCGACATCATCTTCTTCTTTCATATGGTTCAAACAATATCCTTGAAGACTT
GCTACTGCCAGATTTTGAATGGCCTATTAATAATGTCGACATTGGCTTGTGGGGTGA
TTACCTGAACAGTTGGGATGTGCTAATCAGTGATGCTGTCGGTGATTGGAAGCAAAC
ACAATGTTTGATCCTCCTCTCAATCAGTGCTCAAGAATGATATTGGATCAAGATTC
TTGGACAAATGGGCTCTTG**TGA**

Potri.018G083700.1 (bHLH family)

AAGAGATCATCATATACCAAGGGGGAAAAATATATATTCTGTAGGAAGGCA**ATGAA**
TAGAGGGGTTTTGCAGAGTTCACCGGTGCAGCAAATGATGGCTGGCAACCCCAACT
GGTGGAGCATCAACAATATGAGGCCACCAATAACTCATCATCAACAACCTCTCCTT
TTCTGCCTCCTCCTAGTCTCTTCCCTCAATTCCTACCTTCCATTTCTTCTTTCATCAT
CTTCTCTTCTCCTTCTTCTTGGAAATTATGATAACCCAGATCAGCTTCCAGAGTCATG
GAGCCAACTACTTCTGGGTGGATTGGTGTGTGATGAAGACAAGAGCAATATAAGCA
ATTTTCAAGCAAAGAAGATGGAGAATTGGGAGGAGCAAGTGTTACATCAAGCATCA
AGTGCTTCGGTTATGGATGTCAAGCAAGAAAACCTCTGCAAGCAACTACGTGTACGGT
GCAAATGAAGATTTCCAGGCAGCTGCAAAACCTACAGCTTGTCTCAAGTGATACCT
GCTTCATCCCCAAGTCCTGTGTTACCAGTTTCAGCAGTAACATGTTGGATTTCTCTA
CCAGCAAAGGAGATGGAAGGCATCCACCACCAGATCGATCTTCTGATTGTAACAGC
ACCGCTAATGGTGGGGCAGTAAAGAAAGCTAGGGTTCAATCTTCTTCCGCCAACCT
ACCTTTAAGGTGAGGAAGGAGAAATTAGGTGATAGGATTACCGCTCTTACCAGCTT
GTTTCTCATTGTTGGGAAGACTGACACGGCCTCTGTCTTGTAGAAAGCTATTGGGTAC
ATCAGATTCCCTCAGAGCCAAATTGAGGCTCTCAGCTTACCGTACTTGGGCAGTGGA
TCCACAAATATGAGGCAGCAACAATCTGTTCAAGGAGAAAGCAACTGTATATTTCTT
GAGGACCCCGGTCAGCTGTTGAATGATAGCTGCATAAAGAGGAAAGGAGCTTCTCA
GCAGGACTCTCACGGGGAGCCAAAGGACCTGAGGAGTAGAGGATTGTGTCTTGTTT
CAGTGTCATGCACACTGCAAGTTGGCAGCGATAATGGAGCAGACTACTGGGCTCCC
GCTCTTGGAGGGGGGTTCCGA**TAG**GCGGAACAATCTTCTGGTGG

Supplementary Table 5.

Sequence of 7 DNA-baits

PtrCCoAOMT1 (Potri.009G099800)

CGTGCTGAGTTGGTGGTTGTTATGGATGGAAGAAAATTACCTCCAATTTGGATTAAT
TTTTTTTGGGTACTTCATTGTTCAATATATTTATTTGATTCATATGATAATAATTTTGT
GTTGTAGCCTACTTAGTTAGCATAACGTTTCTAAATCTAGAGTTCGTGGTTTATTTTAA
TATTTTAAAGTATTTAAAAAAAATAATTTTTTTAATTTTTTATTTGGTTTAAATTA
ATTTTTTTTTGTATTTTTATATTATTTTGTGATGTGATGATATAAAAAATAAAATTTTAA
AAGTAACCTTATCTAAATACAAAATAGGCTCTATATATAAGCCAGAGGAGGTGAT

ATTTTGATTATTTTCTTTAAGACTATAGATGACCCGATAACATGAAACAAAAATATA
AAAACAAGGTCAACCGTGTGACTTGTTCGCTCCCGTCCCGGGTTCGACCCTCTATG
TGCACGCTGTACCCCCGCGGTGCCTTACCTGCTCCTGGGCTTGCAGGATGTCCAG
TGGGCCGTGGGGAATAGTCGTGGTGC GCGTAAGCTGGCCCCGACACCCACGTA
TCAAAAAAAAAAAAAAAAAAAGGTCACGCGGGCATTCTAGCTTCTCTATAGGCATTT
GCTTTGAGCCTCCGACCATTCCCCCTGCTCTTTTCTTATTCACGATAGAAGTCTGTT
CAGTTAAAGAAAACATGGCCTGTTTTCTAGAAATTTATCTATAAAAAAGGAAATTC
TTGTTAAAATAAAGAAAAAATTCAATTGAAATACACTTCCCAGCTTTCGAATGTTT
CTATTATATTTTGGAAAACATGTGAAAAATATTTTATTAATGTTCACTTGAAAAAT
GGTTATGGTTGCTTTTCAAAGTGTTTTTACTTGGAATGCTTTAAAATAATATTTTT
TTATTTTTTAAAAATCATTGTGATATCAGCGCATCAAAATGATTTGAAAACATTAA
AAAATATTAATTTAAAACAAAAAATAAAAATAAAAATAATTTAAATTTTTTTAAATAC
TTTTAAAACATAAAAAAAAAAAAAACAGAATAGAATTTAGACATAAAAAGTGTTATTCT
CGTCGTTTAATAGCGGGAGGTGGTAAGAAACATGCTAAGCATTACAGTTTTGGATA
TTGATTATCCATGTGTTACCCTAAAAATGCCTTTTTCCATTTTCATGAAATCCTCATT
TAATAGCAATTCTTTAAAGGAGGAGACTAGAGACAGAGGTGGCTGCTGTCAACCTA
GTCGGTGAATTTAACTTCAACCGGCACATATATGCATACCAAGTATACCCTTTACA
TCTGCCCTAATTAAGACTGTAAAACGGATTTGGATTTTTGCCGACAAAGGCTAGTTT
GTGGAGAAAAACAACGAAGATAAATTTTTAGATGACAAAGTCAACAATAGTTCTGA
GAGATTCTTTAAAGGACTCATCCGTTGACGGAGGTGGCCATATGCTACCAACTCTTG
GACGTGGAGTCCCTTTGGTAATTTACCTATCCCTCACCCAATTTCTATTAGCAGTTA
GCACATGTAATTTATGATTGGTGAGCCAGCACAAATCTTTTCCAGTTAAACACATA
TATTAATTTATGATTAATTATTTAATTCTCTCCACTCTTAACAAATTAATCATAATG
GCATAACATTTTAGCTTTTGATCTCGAGAATCTCTACCTAACCATTGACTTCTTTACT
GTTCAGGAATCTTAGAAAAAGGAGGACAAAAAAAATATGCCCAATAAATTATTT
AAGAATTTGAACCGAGATTTGGTGT CATAGATCCCAAAAATGACGTCAGCGATGCCT
CAGGGAAGGAGTACCACTAGCCCACAGCACGATACGATCACCAACAAGGTGGGTCC
CATATTTGGTGGGCCAAAAACCCACATTATCCTTCGTCCTAACTACAGGAACCTCAC
CAACCCCTCCCGGTTGGTAGCCGGTCCAGCCTCCCCGCTACTCCAATTCAAACCGG
GCTCTCATTTCCAATAAATACCACCCGCCCTTTACCATTTTCGATCAGGTTAGGCATC
ACTACCATCATCAACAACAAAAATAAAAATTCCAAGGCCAAGAAAGAGATCGTAGT
TTAATTAGAAGATATACACAATA

PtrCCoAOMT2 (Potri.001G304800)

CGACCTGATAGCTAGACTGATCAGGTAATTTGATGGTCTTAGACTCGCCCGCCAG
AGTTAGTTCACTCCAGAGAGGGGAGGTTGCTGATTTTCTTAGACTTTGATGGTCTC
ATCATCAATGGCAATTATCTTATCTTATGGGCTACTGCATAAAGCCCATCTAACTCAT
TTCCCTTCTCAGCTTTTGCTATTTTTATTTCTTCTCTAAAGAAAGAAAGAAAAA
CCATCGATGTTCATAATGGACCAAAAACAAAAGGAAATCTTTTATTATTATTATCTG
GACTTTAATTGGTGGTTGGTAGCCCTAAGGCTTGA ACTCAAAAAGAAGCAAGCCTCT
CCTCACCAACTTTGACCTAGTTTTTAATCTTTTTTATTTTTTAAAGTTTTGATGGGG

AACACTTCTTTCACGACCTTGATTTTTCTAATGATTGTTTGGTTATTGAATTATTACA
AACCTAATCTCATGCGGTTTATAACAAGGAGCTCCCGTTAATTATTAGGAGTTAGTT
AGTTAGTATGGTAGCGGTGATAATTTAAAATATTATTTTATAGAGATATATTA
ATTTTTATTTTTTAAAAATTATTTTTAACATCAACACATCAAAACAATCTGAAAAA
AAATTAATTTTTAAATAAAAAAATTTAAATTTTTAAAAAACACGGTTTCAACCGCGTT
TCCAAACACGATTTAATACACAGTATATTTTTGCATTTCAATAGGGTTTTGAAAA
GAAATGAATTTTTATTTATTTATTTTGCTTTAAATTATTTTTTAGTATTTTTAGATCGTT
TTAACATGTCAATGTCAAAAAAAATTTAAAAATTTTAAAAAATATTATTTCAATTT
ATTTATAAGAAAAAAACCTTAAAAATCAATCATTACCAAAAATCAA
ACTGGCTCTGAAAGTATCTCATAGCAGAATGCACTAACCAATTATTTAAATTTTCCATCCTGTCAT
GGAGAAAGATTCCATGGTTGAAGACTGTATGATAAGGAAAAATGTCATGA
ACTCATGGTATAAGTAATTTCCATCCAATAACAGCAAGCTTGATGTTAGGTTAGGGTTGATG
GTTGTCTTCTTTCATTGAAATGTTTTGCTATGCCACACGAAACAAGGCAAGAAAAC
CAGACAAGATCACGAAATCGTTTTAATGTGTTGGTATTA
AAAAATAAATTTTTAAAAA
TAAAAAATATTATTTAATATATTTATAAATAAAAAAATTTTTAAAAAACATCTAT
TACTTAAAAAAAACATTAATTAATTACTGCCTAGCTTTACTAGAAAATCCACAC
ACTAACTGGGCGATTGAAACTCCAGCCATTTTTATATATTTGTCCTGTGATTATCAGA
GACGGTAAAACGAAATTGGAATTTATTTTTTTTTTGTGGAGAAAAACAAAGAAA
TAAATATTGTCAGCAGTAAGACGGAGAGATTCTTAAAAGGAGTCATCCATTGTCAAT
GAGGTGGCTACAAGCCACCAACTCCCCTGGAGTCAAATTCCTTGAGGACACCTCACC
AACCCCTTACCCACTTTCTATTAGCAGCACATGTAGCCATCCCCAACAACA
AATTGGTGAGCCCACCACAATTTTCTACTCTCTACGATTTAAATCAATTACACGTGGCATAAA
ATGTCGAGCCTTTTATTTCAAGAAACCAAACCTAACACCGTGA
ACTTAATTTCTTTTCGCAAATATCTAAAATAAGGGGACATGAATTA
AATGTATAGAAATTGAATTAGTGTCCGAAACCTAAAATGACCACTGGACAAACACCGATAAGTGGGTCCC
AAAATACCCACGGTGTCTAAGA
ACTCACCAACCCCCACCCGGTTGGCAGCCGGTCCAACCACCCCACTACTCCGGCTCAAACCGGACTCTCATCTCCAATAAATACCACCTGCCCTTGCCATTTTC
AATCAGGT
CAGACATCCTTACCATCGTCGCCCCAGAAAAACCTTCCAACGCCAGGAAAGAGAGTATAGTTTTGTTATAAGATATACAAAATA

PtrHCT1 (Potri.003G183900)

GTGATCTTCAATGTGGATGGCAAATTAATTAAGCTACGTGAGCGGAAAGACTTGCTG
CTGCCGCTTAATCAGGTGGCTGATGTCTCTTGTAGAGACAAACACTACTGCTCTCTC
CTTGAAAGTTGAAATATTTGCTTAAAGTCACCTCCACCTTGTA
AAATCAAACAACAA TAATTT
CGGCTTCAATCACTATTTCTTTTCTGTTTTTCCCGAATACTTGCGCGTTGAAA
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Supplementary Table 6.

See Supplementary Spread Sheet