

Supplementary Table S1. the sequences of all identified RMYB genes.

Part I. the nucleotide sequences of RMYB gene family.

>RMYB1

GACATTCTAACATCCTCAGTTTTTAGTACCAGGCAAGTGGCTCAAGTTTTGAACAGTGTT
CAATGAATAAAAAAGTTAAAAGCACACCCACCTTCACCTTGATGGTCAGCAAGAAAAACAA
AGCTATACAAAAACACGCATAAATTACATAATTTATGTATTATTACAGCTATAATGTAA
TCTATCTATCTAACGAATAATGAGTTTTCTTCAGCCCCATTCTATCAGATCAGGATCACA
ACCACTAGCATAATCAAACACAATTCTACTGATTCACAAGCTATCAGTTGTTACGTGTAA
TTCAAAAACATCAAATTATCTTGGCATGGGAAAGCTACAACCTTCAAACCCCCACGGCC
GTCATGACTAGGAAGGTTGGTTGGAGCAGGCATCGGCAAGCTATCCATGGCAGTTGTGAT
ATCATGAATGCTGGACCTCTTTCGCTCTTCTCCCTGAGGTGTGACGGAGAAAATATTT
TTGAGCATGGCTAGCCACTTGTGTTGGAGTTCTTGTGACCACTACATTCCTGAAATGCT
TCTCCAATCACCTTTGCCATATCTATCCAGTCCAATTA AAAACAACCTGTGCTCATCCTC
CGTCCAAGGTGTCCCCTTTTTCTCTCAGCATCGCGGCTCCGACTGCCGGCGTTGGGTGA
TCCGAATGAAATCTGACCCGAACACTGGAACCTCGTTCGCACTCAATTGATGTGCAACC
ATCCGAATAACTCGGCAGCTCAACCCGGCCCGAATCAATCTCGGTTATATCGTGAAGAAG
GGCTTCATAATGCGCTCTGACATCATCCGGCGATTTGCCAGGGAGAAATCCGGCGATTCT
CTGCCAGCGGTCGTC AATCCCCTCCGGGAATCAACCAAAGCCTTCTCGAAAATTTTGTC
CTCCTGACGGTCCATGGTGGGGCGGGGAATCAGGCATGTGCATCCACCGATTGCAGGC
GTAGATTTCCATTA AATTGGTGGGTTTTTGGACTTGGTTTCTTGAGGGGGTTTTGTTTGG
TGGAAGAGGTTTTGGAATTGGGGACTAGATTGTTGAGGGGAGGGTTTGTAAATAATCTGTG
TGTAGTGTGTGTAAGAACACACAAGGTTAGTGAGATGTTTAATTATGAGGGCCGAATGA
AGCACCAGCCCGTTATCCTTCCACTGCTG

>RMYB2

TCCACCACTATTTATTTTAGTTAAATTTACAGAGAGTCACCACATGTTTATCAAACTTTA
ACGATCAGGTTTGGGAACCAACATTTATGTCCATCGGATAACTGTTGTTTAGGATTAGG
GTTTAATTTCCATTCTGTCTCAATAGTTTTTCTTATTCCCAAACATGACATAAAGTCAAT
AACCATATTTGCCACAAAAATGTAACCCAAAAATTTGCAACACATCATATATAGTGAAT
GACATACATTCAATAATATAATAATAATAATAATAATCCAGTCTTTAACATTTACTCTCC
ATGCATGCAATCAACAAAAATAAAAATTA AAGGAAAAAAAAAAGAAAAAACAGAAGCACAA
TTAATTAATTACTATGCCCCCTTGACAATCCTTATTACCTTTTTTTTTCGGATTTTAATAA
TAAAGCTCTCTATTTACACCCTACCCCTCCCTATTATTTATTTTATTGTGCCAAAAT
AATAAATAATATAAAAATTAACCTTCGGTAAAAACGAAAACTAACCCTAGCTTCTGTAA
CTTTTTCACTTTTTTTGACATTTTTTTTACCGCCGAGCCGCTGTCGTCGGACCCATCT
CCGTTATATCCGCCCACTTGCTTCCCTGCAGAACATATCACGATTCCTGCGCGGCGTTGG
CCACCGATGAGTGCTGCTTGTTCGCGAGAATTTGAAACCCAATCCCTCGTCATCGTCGT
CATCGTCGTCCTCGTCGTTGATGTTGTGATCGTCGCTTTCGTTGTCGCGATTGTCCTGAT
CCTGCATTGCGGAATCGGGGAGTTGTTGTCTGTGTAGATTGGGAATTGGCCACTGCTGCT
CCGGCTGCGCCATTATTGGCACCATGGGGTTGTTATTGTTGACCTCCTTGGCTCTTTCTT
TGTATATGGCTTCCAGCTGGTGGAAGTAAGGGCACGTCTTGGCGTCATCCGGCCGCTTCT
TGTGCTTTCCTCACCTTCTTGAAGTACTTGTGATATTCTCCATTTCTCCTTGCAAC
GCTTCGAACCTCTGTTGTATCCAAGCTTCGCCATGGCGGACGAAATTTCTCCAGAGAG
GGCCTTTTGGCCCGTTATCTTGGTATTTAAATCCATGCTTGTTCGTAGATTAATTAGCG
CTTGAACCTTCGGCTTTTGGCCACCGTGATGAACTCGCGGCCGGGGAATATCCGGCCACTT
CTCCGCCGTTGTTGTCCGTTTTTGAATTGTTAAATACTTTCGCCGGTGGTGGCACTGTAA
TTGGAGCTGGCGCCGGTTGTGTCGTTGGAGCTGGCGGGGCTGGTGGAGGCTCTGTTGCT
GCGGTGGCGGAGGAGGCGGCTCCGCCGCCGCCACCGCGGGATCTGCAAATTGTGTT
GATCAGTTACTTTTTGTAAAAATGCAATCACGGCGGCGTCTTTAGCGGCGGCGATGGATC
TCTCCTGGACTAATAGATCATGTTTCGCGATTAACCTCTGGCGATTTCTGAACGCGCCAAG
CTTCTTCCCTCGCCATTCTTTCGCGCTCGCGTTTCTCCAGTGAATCCAGGAATTTCTTCT

GCAATTCCTCCTGTTTCTGAATAACGTCTCGCACCAGCCTGTGGAAACAATCCTTCCATT
TCCTCTTCCCTCCACGCCGTCTTTGGATATCCTCGTCGGACGAAGTCGACGACGACGTCG
AATCCGACATCAGCCCCGGGCGGATGCCTGAAAAGTTGAGCCCTTGC GGAGGAACCGAGC
TGTTCCCTCAGATGCTGCATTAGCGGCGGCTGCGGGCGGCGGCTGCGCGATTAATGGAGAAG
AATCGATAGGGATTGAGGCGGCTGCCTGGGGAGGGACCACGCTTAAAGGCGTCGGACTAA
TTGATGAAACAGTAACATGGGCTGGCATTGTTCGAAAGGGAAGCTGTGGCGGCGGGGCGCG
GCGGGGTGAAAGGATTAGGCGGCGGAGCGTTCTCCAAGGCTTCCAGTTGATCGAAGAATC
GGTAGGTTTTGCCGTCGGATTTTGC GGCGGCGGCGGCTCTTTGGTTTCGCTTGTGGTATTTGT
ACACGTTCTCGAATTTTTCCCGGCATT

>RMYB3

TGCTTGGCTATTGATGCTTTTGTGCTGTTGCTGTTGCTGTTGCTGCTGCTGCTCCCTTT
CTTCGAGTCGAGACTCATGATGTAGTCTGCAAAGCAGAAGTAGGTATCGGAGACTTATT
CTTGCATCTTCCATCTGTAAGTTTCCCTCCTCTTTGTTGTGTTCCAGTGATTCTTGATGGT
ATTCTCAGTCCCTCCCGTGAAGCCTTTTCGCAATTTCTGCCCATCTGTTCCCGAGCTCTGC
ATGAGCCTCGATGAGTTTCTTGTCTTCCCTCCTCCGTCCAATCATCTCTTTTTATATCAGG
CTGCAAATGATTTCTCCATCTCTCTCGGCATTGCTTGCCCGTCCCTCCCTTCAGCTTTTG
CCCCATGAACGTCCATCTTTTGTCTCATAAATCTTCACCAGATTGACCAACAATCTGTC
CTCTTCGAGGGTCCACAATCCTTTGACAGGTTTCGACACATTTGAGCCTCCGTCCGAATT
GTCAGCGTTACAACCTTTTTCTTGTATCTGTGCTATTTCTTTTTAAACAGCCAAAAGCATC
AGCACTCACAAAAGAACTTTCATCTGTGTTACATACTCAAGTCGCATAAAAATCAGGGTA
GTTCAATGCTGCCTCAATTCCATTCAATGAATCTACCTCATTTGGGAAACTCAAGAACC
ATCACCTTGAAATTTGTCATGTTTCATATCAGTGATCTGGTTCCCTCTCCTTGGATGTG
CTGCATGACCGCGCTAGAGTAGCCATTTCCCTCATAAGGCATGTACTTGTTTAGAAAGGG
ATCAAAAAGGATCAATGGGATTAGATTGCCTATCGATGATTGAACTTAAAGCCAATTCATC
AAGATGAAGGATGTCTTGATTAGATGACAAGGGATTGCTAGAGCAAATATTATGAATGGG
GAAGGATGCAGGGAGAGGGACATTTTGGTCATTTTCAAACGGTGTGTTGTAGGACTCCAT
TGGAGAGCGATAGAAGTAATGAGTGACAAGAAAGGGAATGGAGTAAATCCCTGACTTAGG
CCTTGGTTAAGTTCATATTTATTAAGAGAAAATATAAATGCACTAAATGTGTTTCGAGTA
CATCTTGGCCGTCGATTTGTGGGAGGTGATCCGAGGATCCGAAGTTCATGTTATAGGGAT
AAGATTAGGTAGGGAGACTTGAAAAAAAAGTCGTGTTACAGAAATCAAATTTCTTTAATC
ATTACTCTTACAATTCGTAATTTTATTTTCTTCGAGACACATGAAATCCAAGTAGTGAA
TTTTCTCAATAAGTCAATTTGTTTTCTGCTTTTAAAATATGGCCACAAGAAAAGAAAAGGT
GCACTTTGTTAACATGAGTAATCCTCACTCTTTTTTAAAGCCATTCTTCAACTTACTCATA
TTCGGGGGTATAACATTCTCACCCATTTGAGAACGCAATATTCTCGTTGTGCAAGAGGCC
TTGAATTTTGCCTTGTGCTTAATTGACTGGTATTTCCAGCATAGTGCATGTTGCGGG
TTTGCTTTGATATCATATGTATCCCGCCAAGGAGGGAGAAGTGATTATTAGCCTTTTGGG
ATTGAAAATTGGCCCCACAAATCAACACGAGTCGTTTTTTGTTACCTATCGCACAACTA
CTTGAAGGCCAACATGATTAACCACATAGT

>RMYB4

GCCAGGCCAAGAAATTCAAATTTGAACAAAACAGGAAAAAAAAAAAAAGTGCAATTTTCTA
CAGTATAATCTCATTCTCATTCCCATCTTCCAAATTTTTGATTTGGCAAACAAGATCAT
TCTACATAAAAAAGGAAAGGAAAAAAGAAACCACAATTTCAAGACAGAAAACCCAAATTT
TGGGGATTTAACTCACCAGCATTTTTCAAAAATTTGGATTTTCTGTCCAAAATCGTGTAC
CAAACCAAGAAAATTAAGTGCCGAGAATCGAGAATGAGCTTATACTTATACCCCCAAAAA
TTGCAAATATTTCTCAAACCTCATACCCATATCATATAATAATTCCCAATTTCCATACC
AAAATGGAAAAAACCCTAAATTTAAAATCCTAACAATTCAGGAATCAAACAAACCCTGGA
TGCCTTGATCATCAAACAACCACTTCTCCAGGGCCAGCACGCCCTCCGGGTGCGGTTTGG
GAGACCCAGATCTTGAGAAATCATCCGACGACAGGGAAGAATACGACTCAAAGGATTCAA
ATCCAAACAATCCCTCCCTAAATCAGCTCCACCAGCGACGACTTCTTCGGTGTGTCAGC
TGGAATAATTATAATTCGAAAATCCTCACATTTGGGGGTTTTGTTGGCCCAATCCTTGA
GTAATCTTGCATGTTCTCAGTGCTGGATGCGTACGACGTTGTCTGAATGGGGTTCGGGG

CGAAATTAGGGTTTGTTCATGACATCCTCATCGATGGATTCCGAGGTTGAAACTGAGAGAG
CATTGGCAAGGGCTTGTGGCTGTGTGGATATCCGTTTGCAGCTTCTCTCCCACTGGC
CACGCGAAATGGGTTTGGAGGAGCCGTTCTCCGTGGGCCGGTTGCCCGACCCGGGTTGGA
TCCGGTCCAGCTTCTTCTCAAGTGAGTGTCCAGAAGTTTTTGTATGTCGTTGTCCGGTTC
TTTCTGGGAGGTAAGAAGCTATGGCAGCCATTTGTTGCCTAGCAGGGCTTGAAGCTGGA
TAATCATTTTCTTTCATGATCAGTAAAGGTCCCTCTTTTGATTCCAGGCCTGAGGTAAT
TAGTCCATCTCAGTCTGCAACTTTTGCTGCATCTTTTCAACCCTGTATTGGGAGGAACAG
ACCTCCAATTTCCAGGACCATGCTCCTGAACATAGGACACCAACATGATGTCTTCTTCAG
GAGTCCAAGGGCCTTTCTTCAACCCAGTTTATCACAGCAAGGTGGCCTCCCCATCAGAA
TTCAATTTCAATTTCTTTCAATTTGGGAAATTAGGGTTTCTTGATTCTCACTCTTGGC
TGTATTTTTTTTATTTTTTCAAAAAACAGGAGTTCTTGGGAAGGGATGAGGATGAGACAA
TGGTCGTTTGGGATCTGGATATATATATATATATATTGTGGGGGGGAGGGGCTGACCTAA
TTAATTATTAATTAAGTGAAGGAGGTGAGGAGTAGAGAGAGGAGTCAAAATGCAAT
AAATTATGAATGAGAGTTGATGTTATTTCCCTTCCATTCCAGACTCCATGTCCCAATGGA
TGAGGATTGAGGAAGAAGGATTCTTGCTTGCTTTATGGTAGCTATCTCTCTCAGTCTCTC
AGGGCTACAAAAGTCAGCTCAGATCTCAGGACACATACAGCAGTGGAGTGTGTGTTGCTT
TGTTTGTCTTCG

>RMYB5

CTGGATAGAGAGGTAAGCCCTGTGCTGTCTTCTTTGATTCTAGTGTTC AATAGTTCT
TGATTTTCATTGTCCGTACGTCCAGGTA ACTCAGCAGCCATTCGAGCCATTTATTTCTTA
GCGTGGCGTGAAGTTCAATTATACGGCGCTCCTCCTCAGGAGTGAAGGCGCCTTTCTTAA
GATCTGGTCTAAGGTGATTTGCCACCTCAAACGGCAACTCTTTCCACATCGAGCAAGCC
CGGAGTGT TTTTGA ACTGCATTCCAGTTGCCCTCCCCGTGCTTGTTAACATATTCAATTA
AGATTGCATCTTCTGCTGAAGTCCACGGGCC TTTCTTAAAGTGGACCATTTGGGCCCGTTG
TTGTTGTTCCCTCCACTGTTGGCATCATCAACAGAAGGTGAATCGACACCGCTGCCTGCCA
TTCTTTTCATCACTTTCGCTTGTTATACTCATCTCCTTTATCGTGAATCTTCCCCTGAAAC
CTAACAAATCTGCCCTCAACAAAAGCAAAATAAAAAAATCGTTTGAACAAA AATTGGA
AAAAGAAAATAATGCTAATTCTCTCAGGGGAGAATCAGACAATGGAAATTTTAGAAACCA
TGGGCAAATTTTCTGTGGGCCAAAATTACACTCGCGAACACGACAAGAAACAGCAACACC
AGCCGAAATTTATCGAAGGCCACACAAGAAAAAATCTGGAACCAAAAAATGGATTCAAAA
CACTGAAAAACAGAAT

>RMYB6

GGCCGCGCCGAGGAGCGATCCTTGGCCGCCCGCCACAGTGGCCGCCCGCTTCTGGGT
GGGAGTGGGGTGGGTGGGTATGTGCACAATGATCATTTTTTAAGAATACGCATATAAATTG
AGGGTTAGGTACAGTACTTTAGATTTTCCAAACTATAGAAGCTGCAAATATTCATCATAG
ACTTTTTCCAGCATTTCTACATCGTCGGAGATGGATTCTGAGTGGGTGAGCACC GGAATC
AAAGCACATTCCCCGCCGTCGAGAAAATGGGCTTCTTACCCTGTCACCATTGTACTCCA
AAGGTAGCATCCTCTATTTCAAGCAGTGCCGGCCACTCCCTCCGTACATCCTCCGCTGCC
TTGTCACTGCCACAAGACGTGCCACTGGCCAAGCTGTTGTAGCTGCCGGTACAGGAGAGT
TCAGAGCTGACTCTTATCGGCTTCGGAAAATACACTCGAGTCTTGTTTGGAGTATCATTC
TCCTTTTCTTTCTGCGAGTCAATGCATCATTGTTGTGGCCTCCGGGGTCCAGTATCTTC
TTTTGCTTCTGCTTCCGATCTTGGTTTTGTTTTGTTCTATTGATTTCGAGTTTGGACAGC
TCCCTGGGGGGAATGGCGAGGGTTATCGCAGCGGCACCTTTCTTGTGGAGGTGCGTGTTC
CAGTAGTTCCTGATCTCATTATCTGTTCTACCCGGCAACCTGCCGGCGATTAGGGACCAT
CGATTTCCGAGGAGGCGGTGCAACCGTAGGATGAGATCTTCTTCATCTTCCGAGATGTTT
CCTCTTATGATTCCCGGACGGAGATAATTCATCCACCTCAATCTGCAGCTCCTCCCACAC
CTCAATAGTCCGGCTTTATTGGGGAGGGATCTCCATTGGCCCTCACCATGCTGTTGAATA
AAATTGGTGAAGAAAGAGTCTTCCATGGCAGACCATGCGCCTCTGTTCAATCCCACTTTG
GAGCAGCAAGGAGCCCTTCCATTTCTAGATTTCTAAGGAATTAGAGATGGGAGTGAAGG
CACTGCATACAGCCTC

>RMYB7

ACTAATTTTGTAAATGTAAATGTAAATTTTAAATTATTATTATTATTTTAAAGATCAAATTA
TTAAAAATAATATAGTATTATAATTATTAACCAGCTAATATGCATGTAAATGGAAAACA
AAAAATGAAGTACGTCCTAAATGAACAGAAATGTAATGTCACACTCCCATAGACAATGTA
CAGTGTACAGTCATAATATTAGTAATCTATAATTTGATATATCCACATATACTCTTTAAA
ATAAAATAAAATAAAATAATTCCTCATCAGTTAATAAAGTAACAATATTCAGGAATATCA
CAACGAACGCTACCACTACCATTCTCGTAAAATAATTTTATATATATAAAATATTGTTAT
TAATTATACATCATAAATTATTTATCTCTTTTTCTTTTTTTTTTTTTAAAAAAAAGGATC
TTGATCCCTCATCCCAGAATCCTCTTCGACATCATCACTTCATCTCCAAGCTTCTGTAAT
CCAACAGCCCAGTTTTCAACCCCATAAAATCATACCCTGAATTGCCCCACGGCCGCCGC
CGCCGTCTCCGCCGCCACATCTGCAATCCTTGCTGTTCCGAATTCCCAGCCTGCAGGCGA
AGCACGAATTCGCACTGTCAGTGTCCGATCCTCCAGGCGTGGCGAATCCGTCGGCGTCT
GGCAAGGCAAGCTGATTCTGAGCTCCAGGTTCAAATCAGGGCACCGCTGATCGGTAGCTC
CCGTCGATCCTCATCTTTTCTGATCACAATGATTTTCTGATCTTCCGATTCTCTCGAAC
ATCCACCGGAGAACGAAATAGTCGTCGTCGTTGTTGTTTTTAGGGTTTCCCTGTCCGCCG
CCGCTCATTTCATCGGCCGGTGAGTCGTCGGATCGATTCCCCGGCTCAACAATTTCTCTC
TGATGTGCGTGTCCAATAGTTCTTGATTTTATTATCCGTCCTCCCCGGCAGCCTCCCGG
CAATCAATGACCACTTGTTCGAAGGAGGCTGTGGAGTTTGATAATGACCTCATCTTCTC
CCTCCGTGAAGTTGCCGCGTTTGAGGTCCGGCGGAGGTAATTGATCCAGCGGAGGCGGC
AGCTCTTCCCGCAGCGGAGGAGGCCGGCGGCTTTGGGCAGGGAGCGCCAGCAGCCTTCG
CGTGGGCGCGTATATAAGCGACGAGACGGTCGTCCTTCTCCTTGGTCCAAGCCCCTTTGT
TTGTATGTGCCTTTTACAGCAAGGAGACCTTCCATTATACCCTTCTTTCTTCTTCTTC
TTCTTCACTGTAATACTACTCTAATGTAATTATAATTCCTGTCAAGACTACACCTTTACA
CACTCTTTATGTGTATATGTATACATGTACATAACAAGGATTTGACTGAGAGGAGGG
TGTGAGTTGGTAAGAGAGACGGAAATTTGGATCAGGATCTGATAAAGGGCCGCA

>RMYB8

GTTTTGATCATCATGTTTCGTCCCATTTCATCAAGAACGAACTCCCATTGTGACACCAACT
CCGTTATTACAGCTAATGAGCTCCTTAATTTCTCGACACTATAATCACTTGGCAGCCA
CTGCTACTGATCAAGAGCTTGTGATCTTCAGCACCATCCCCTTTAAAATTTCCAAAATTG
CAACCCTGGAAACACGATTTTTTCGGATGAACTGCAGCTGGGCTGATCCCCTCCATAGATG
AGAGAATTACAATTACAATTCGACGACGAATTGGAAATTGGGTGGAAGCTGGGAGACATG
GCCTCAAGCTCGACCCAGTGGACAAAGTCCTAATCTGGGAACATGGGTAAAATTAATA
TAACCACATTCATAGGATGATGGCATTGTTGGGATTATTATTATTACATGGCAATAATGGA
CAAGCAGCTGCAGCAGCCTGGTGAGTATTCACCATTCCCATCAGTTTCTTCTTCAGCTTT
GTGTTCCAGTAATTCTTGATATCATTGTCCGTCCTGCCTGGTAATTGTGCTGCTATTATT
GACCATCTGCTTCCAATTCTGGCAAATAAGCTACAAATTAATCTGTCTTCATCATCAGAG
AAATCTCCATGCTTGATGTCTGGCCTGAGGTAATTAAGCCATCTCAGCCTGCAGCTCTC
CCACATCTCTTCAAGCCAGCTTTTTGGGGGAAAGTGATCCAATTGCCACCAGTACCATT
TTGTGTATGTAATCTTTCAATTTGGCATCTTCTTCAGGGGACCAGGGGCCTTTCTTGACA
TTGGCCTTGTACAGCATGGAGCTTTCCTTCCATTTTGTGGAGAATTTGGTGAAGAGGCCAG
GGGACTTCCAGTAATTTGTCTTTTTATAGGGCTTAGGTTAGCTTCTTGGCTTCGGAG
TTCGGACAAGATGGTATGGTACTCTTGGGCAGACACACGCACATG

>RMYB9

TTTTGGGATTCTCATTTTTGAGTTGATGACTCAAGTAGATCACTCAAGTTGGAGTTGGAGT
TGGAGTCGGAGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT
TCCTGTAGCTCTCTTTCATCAGTGCACCTTTCTTCTTACTGGCTCACAGTTTTCTCTG
GAACTGCAGCTGCAACTCGTTCCAGCGTTGAGGAGTTTCTTTGGAAAGGTTTTCTCAGAG
CTTGGACTAAACCTTTTTCTTGTGCAACAGACCATGAGTCTTGATCTGAACACAAAGCAG
TTCCATTAACAGCATTGCTGCTGTCTGACAAATTGCCAGGAACAGAAGATTGCCCCATAG
CTGCACCGGCATTAGATAAGCCCAGCCATCCTCTAGTTGAGAGAGGTTGAAGCAATTG
CTTGTGCAGGTTTCTTTTCTCAAGGAAGGAGTCAAAGGCTTTAGCAGAATCAGGCTTTT
GCAAAGAAGTGTTTTTGTAGCCTTCAAATCTCCTCTACTGATCTCCAGAGCCAATAT

ACTCAGATATCACTTCCCACCGCCGGGAAGTTCCTTTAGGATATTTCTGCATGCCCTTTC
TCAAAAGCTCAATTTCTTCTTTACCCCAAGGCTTTTCAGCTTTGTTAGAAACCTGTCCAT
TCATATGAATGCTGGTGGAGCCATTTTGCAGTACATTCTTCTCATCTTCCTTCTTATCCT
TTGTTTTGTGATTGGATTCAAGTGTCTCTTTGAGAAGTTCAGCTCTCTCGAGACCCCTCCT
TTCTTTCCAATTTTTTCACACAACCTTACTAAGCTGGTCTTTATCAAGTGATGAGCACAGAC
TCTCCACATCGTCATCAGTGAGATCAAGCAAACGTTGAGACAAAATAGGCGTTGAAAGTG
TTCTTAGACGGGTCCGTTCCCTCCGGAGTAATTTTTCTCTTTTTCTTCAATTTCTTTT
GATTTAAAGCAGCTTCAGCTGCTCTTTTTCTCCTCTTCTTTCCGCTTCCTTTCTCCT
CGGCAATCCTAGCAGTTTCTTCTTCTGCAATCTTTTGGCCATAAGTTAGCTTCCTTCT
TTCTTTGTTTCTCAGCTTTCTCCTCCTCTTTCTTAAAATCCTAGGATCCCTTTTAT
AGGCATTATCAACAAGAGTACGTATGCGTGCACCTTTCATCTTTCCGTGCCTTCTCTGACA
GTTTTAAATTTTGCCTTTCCATCCATCTCCTGTGATCTCGACCTTCAGCTTGCTCAAGGT
CATACTCATCAGCATGTGGAAATTCTCTCCAACTTTTGAAGGAATACCAGAAATTATAAA
AGCTATCCACTTCTTTGATGGGCATTTTATCATCCCCAAAGTAGGAATAGGCTGGGTTA
CAGACCACCGCCCATTCCTCACAAATGCAGGGCCAAATACCTTGAAGAAATCCTGTGGTG
CACAATCATAAGGAATTTTCATCATCAAACCTCATCCGTGGAATCATAGATTCTTCTCTTCA
AAGGATCAATCAACACTTCATATGCTTCTTGAATTGCTTTAAAATGGCCCTCAATCTCAT
CCTTCTTGGCCTGCTTAGCAGTCTCAGTTTCTCCGCAAGCAAAGAGCAGCCTGCTTGT
CAGGATGATGCCTCAGAGCAGCCTCTCGGTAACCTTTTCTTATCTGATCTTCTGTTGCAA
GATACCTCAGATGGCTCAATCCTAGCAGGGCATAATGGTCTTGTGCTTCGCTCCCCAG
ATTTTTCTTTCCCTTACTTCCATACGAATCTGATGATTCTACATAAACATGTTCTTCT
CATTAGGAGCACCCCTTTCCATCATCATCATCGCCTGTATCTGCTTCCACACAGTGGCCTA
CCAACCTAAGAGCAGCAGCATTAAACGAATGCCAGCAGGCTCCAGGTTTAAACGCCTTGA
TCGGAAGGCTATTAGAGGATACATAGATTGGTTCACCATCCACAATTTCTCGTGGTAAG
TAATCAGCTGTATGCTTTTCCAGAGGCCATTGCAACTAATAAGCCAACCTAGGACAGGAT
CCAGAATCCAGCAAGCTTCCGATTAATGCGGAGAGTGGAGAATCTGATCGATATTAGTT
TGGCATGAATCAATCGCGATTCCGCCTCCGCCGACGATGATGGTGTGATGGTGAAGGATGGA
TTAGAGCTAGGGTTTTGGTTAGGTTTGGCTGAACGGCTTGTGCACAGGGCGAG

>RMYB10

GTTCTTGATCTCATTGTCAGTTCGCTTTGGTAAATATGCTGCCATTGCGGACCATCTATT
GCCTAACAGAGCATGTAGTCGAATAATGGTCTTCTTTCATGGGAACTGAACTTCCCCCT
CTTGATATCAGGTCTCAAGTAGTTTGTCCATCTCAGTCTGCAGCTCTTCCCAATCCTCTC
CAACCCTGCTTTAGCGGGGAGGGACCGCCAGCTTCCATGGCCATGTTCTGAATATAAGC
AAGCAGCTTTTGTATCTTCCCTCCCTTGTCCATAGCCCTTTCCTCAACCCCACTTTTCTATC
CCTACTTGGCCTCCCCATTTTCAAATTAGGGTTTCTTTCAATTAAGGGCACAGCTTTAG
TTTACTCCAAATTCAAATTTGTGGG

>RMYB11

TTAATTAATAGTCTCAAATTTCTCTAGAATTGACAATAATAATTATGAATGTCATTGAA
TTTAAAATCATTTCGCCTCTATTTTGTGCAATCTAAAAAAAATATCTTGCAATGGGTAT
AATAACATTGGTGGGCTAGTCATGAACTGAATGTGCCTCGGGTTCGTCAAATGCAGAAGC
ATCCCAAAGCCACGGCAACGGCGCCATGTTCTGGTTCGTGCAGCAATCCCAACCATCCATC
GTCGTCCAACCTCCCATGATCCCATATTTCTTCAAAGGGCGAGTTAAAGTTCCATGGAAT
TGGGGACTCAATCGACCTCAAGTTCCAAAAATCATCGTCTTCAATATTAATACTACTACT
AGGAGCCGAAGAAGAAGAATATTCATATCCGGATGAAGTGCTGCAGCAATGCTCGACGAG
ATTCTCAGTTGCATTGCCATTGCAGGCTCCTCTATTCTCATCCAAATCCCCGTTGCTCCC
CTTTATAGTTGTGTCATCCATGAAATGATTTTTGTACCCACTGCCTCATCAATTAACA
GGTTGCACTAGTCATCGTGTAGTATTCGTCTTCTTTTATCATCCAATTTTCCAGACTG
TAGTAGTGTGGTTCGTTGTTGCCTTGTGGCGATGATCATCGTGTGTAAGTATTGGTTT
GCTCGAGGATGATGCTATTACTTGTTCCTTTAAATCAGGGTTGGTTGTCTTTTCTTACA
TGGATCATCATCAACATCCACGTCATGGTTGACATTTGTTGCTATTACGGCGGGCGGGTGA
TTTGACCATGTTATTATCAATACCATGTATCTTGAGATGCTCAAGTGATGATAGCGATTG

CCGCCGCTTGCGGTGCATCGTGTGGCTTTGGAGGAGGCGGTGGTGGAAACAAAATGTCCG
AAAATAACTGTGTATTTTTCTACTCAAATGAGAGTTCCAGTAATTCTTGATCTCGTTATC
CATTCTCCAGGTAAATACCCCGCTATTAAGACCACCTGTTTCCCAACGAAGCATGGAG
ATTAACGATGGCGTCTTCTTCTTGAGGGTAAAATTGCCCTCTTCAGATCGGATCTCAA
ATAATTTATCCATCGCAGTCTGCAACTTTTTCCGCACCGTAACAACCCTGCATTCTTGGG
GAGTGATCTCCAGGCGCCTTCCCATTGGCCTCAATATACTTTGTAAGTATTTTCATCTTC
TTCTGCAGTCCACCTCCCTCTCTTCAAACCCACTTTCTCACAGCAAGGTGTTCTCCCAT
AAAATTATTATTTTTTATTTATATTTAATTATTATTTTAGTATTCAACAACCTCAATCAC
ATCACATATGTATAGAGATAAATCCTGATGTTAGAAACAGACACATAATTAGTTATATTG
CAAGAAATGCATAATGTACGAGGGCACACACATGTATATATATATACTGCACAAAA
AGAATAAAAATAAAGACGAGAGAGATGTATATGTTTTGATTATTAGTAATAAAGAAGAAA
TGAAATGTGAAATGGGT

>RMYB12

CTGGGTATTCCAATAGTTCTTTATCTCATTGTCTGTACGTCCAGGCAAATGTGCAGCCAT
CCGAGCCCATTATTTCCCATCCTAGAATGAAGTTCAATTATTAGCCGCTCTTCTTCTGA
GGTAAATGCTCCTTTCTTCAGGTTGGGCCTTAAATGGTTGGCCCATCGTAAACGACAGCT
TTTACCACACCGTAAAAGTCTGTGTGTTCTGGACAGCATTCCAATTGCCTTCTCCATG
TTTTTTCACGTATTCAACCAAGATTGCATCCTCAGCAGATGTCCATGGGCCTTTCTTAA
GATAATTCCGCCATTTGAAGTTCCACCAAAATTATCACCATCATTACTCACAGGTGAATC
AGCAGAGAGCACTCCATCATCACTGTCATTAGCAATGCTGTGGCCCATCATTCAATATGT
GCAGTGTGTGAGCGTGTGGATATCAGAAAGAGAAGAGGCAGGAACCTTATACT

>RMYB13

AGCCGCAGAGGAATACGGCTACGTAACACAAGTGTGGGTGGAAATTTGAGGTCAAGAAA
ATATTTAGAACTAATTAACATCCAGAATATGTGTTAAAGAAATTGCGTTCCAAGAATA
TACCGACGTTAATGCCGTTAACCTCCCGGCCGTCGAAAATATTTTTCCATCTCCTCCCTA
ACCGTCTCCTGAATATATGTACGAAGTTCACCCGAAGTAATTTCTTTTACCTCGCTGACC
CTACCCGGTAAATCCTTACTCTTGCCTGTTCCGTCGGAATATTCGATGAAGAATATGCC
TTTTACTGTGAGATAAACCGGTTCCCGGCAAACGAAGAGTCAACGCCGTCACCGCACGA
TCAGCCTCTTCGCTGTTGCCGTTGGCGGCGGCCTGCCTCCGCCTGATTTACCGCCGCC
GTAGGTTTTACAACCTGGTATCAACGGAAAAAGAAGTTCACATAATCGCCAGGCTCGGAT
TGACTCCACATCGCCAATGATACGTCTCCGATTTCCGATTGCCGCAAAACCTGCGGCGGC
CGCTCGCCAACCTCCGGCTCTGGCGGCGCTCCTCGCTCTTCGTACTTCCGCTTACAGATTG
GAATTCCAGTAATTTCTCACGGCGTTGTCGGTGCGTCCGTTGAGCATTCTCGGATAGTC
GCCATTTGTTGCCTAACTCAGCGTGCGCCCTCACAATAATCTCCTCTTCTCCGGCGTG
AACGGACGGCGCTCCACCTCCGGCGAGAGCTGGTTGCACCACCGCAACCGGCATGACTTC
CCGATCTCCCGGTGATCGACTTGCTAATCTGAGACCAATTCCTCGCGCCGTGTTTCTTC
ACGAGTTCACGGAGCAATATGTCCTCATCCTCACTCCACGGCCCCTTGATCTTGTGCGAA
ACCTCCTCGGTGTCGTCATCCGGCTCCGCCGCCATGAATCCTGGTAAAATCCCTAACCT
CGCCGGTCCCTAATTGGAAAAAATATCTCTCACGATATATATATGTCTCTGTGTTTTAT
GTGGTGTCTTAAAAGCGTTAAGGACTTAAGGTAACCTGAAAGAACGGTTAAAGAGGGAGG
CC

>RMYB14

GGCCCCCTATTTACAGATTAAGAATAAAAACCTCTATAGGAAGAAAAACACACATGACTT
TGCTGCACGAAAATGAATTCATCAGACCTTGAAGGAAGGAAGGAAGCAAGAAAGGATC
ATCAATTCATCATTAAATTCATCATATAATCCCAACTAAGAAAACCTGTCCGAAAGTGGGAG
CCGATTAATTGTATGCCAATTACCAATGCTCAAGGATCCGTCCGCTGCGAATTGTCCCT
GTGCTTTGGTTTTCCCGTACATATGATCTTGTCCAGTCCGATTGTGGATAGAATTTCCCA
TCAAAAACGGGGCTTGCAGATACTCATTCCACTTGATCATATCTTCCCAATTTCCCGCT
GGGTTGTTTTATATCAGTTTTCCACTCGAGTCTGCCGGCGTCCATGGGAACCCAGCGC
CGTTTTCAAATGTAAGTACTGTAGCCGCTTTGGAGCTCAGTGCTGCTTTTCGAATTTACGGTGA
AAGGCGTAAGCTGGGATTGTCCGCAGGAAAGTTCACAGGAGGCTTATTAATTTGGGGGA

CAATCGGGGGTGAAGGTTATTA AAAAGCGGTGAATTGGTGAGGAATGGTGGTGGTGCTGA
TATCTGGATTATTCATGGAAAGGCCGATGTTGGGGCCGTAATTGGGGTTCTGGAAGGAGA
GGAATCCGGACAGGTGACACAGGGCTTGGCAATGTGATTACAACCTGCGGCAACGAACC
TGTTGAGGAATAATCCTGGGTGGAGTTTTCCAGGAGCAATGGATGGTATCTTTCGACCT
GCAGGGGGACTACTGGTGATTCCAGGGCTGATCCTGATCCTGATACTGGTCCATGGACGC
TGTTGGAAATGTTGTTATCGGGGTCAACGAAGCTGAGGTCACAGCTGGAGCCTTCTGAGG
CCTTGTCATTGTTCTTGTCTGTTGCCTGCTGACGCCGAGGTTTCCA ACTGGTCGTTAATGC
TGTTATTAATATTCTCCTGGAGGGGTTTGTGGGTGTTGGGGTCTATCCCTTCTGCCTCA
GCTTTTTCTTGATGGAGGAATCCACAGGTTCTTGATTTTCGTTGTCGGTTCTTCCAGGGA
GTTGGGCAGCTATTTGAGACCACCTGTTTCCAAGA ACTGAGTGCAATCAATGATCAAAT
CCTCCTCCTCCTGTGAAAATGTCCCTCTTTCAAATCAGGCCTCAGGTAATTGATCCACC
TCAATCTGCAGC

>RMYB15

CTCCGCTCCGATGGGTACCTAGACTAGACAATGCAGGATCGCCTTACCGGCCATTAGG
CTCAGCTGCAGCTACCGATCTGCATCCCATCTGCTCGAGAACTTGGACAGTCGGATGTG
CTTGGCAGCCATTGCTCGGCCAGTTTCTGCTCTTTCGCCTCCGCTTCCCTCCTCAAGCC
TGCCAATTGTTCTCTGTACTCAGTTTCGATCCGTTCCAGTGTAGCCTTCTCCTCTCCCT
TAAAGCTTTCACTTTTGCTTCAATGTCTTCCATTTTCTCCCTCTTACGGTTTGCTTCTC
TGATTCCAGCTGCAGTTCGACCCTTTTCAATCTCCACGCGGCTTCTTCTTTTTCGAGGC
AAGTGCACGGTGCCTTCTTCCAATTCTTTACAGCACTCGACTAGTTCAGAAACGACTGT
GCTCTCCCAACCATAGGGGCAATCCCGAGTGAATGTATATTGTTTCATCATAACCGTGTGT
CGCGCTATCAGCTAATCGATCAGGAGGTTGTAGCCACGGGATTGGTGGTGTAGGTGGCAC
AGTCAGGGGAGAAAGGCTTAATGTCACGGATGGGGAAGGCGGCCTGACAGTTGCGGTCGT
GCTGGA ACTCGCTAGCCATGGAGGCAGCACGGAGGGCGCCGAGGGGGCAGCTTGTCTCC
GTGGAGATATCCGCCATTGGAAGCCGGCATTGTGATCCCCGGCACGATATGCTCCCTGAC
TAGCTTCTCGGCAAACGTCTCCAAAATATGATCGTACTTTCCTTCTTCAATCGGCTCAAT
TGTCTTGTTATTCTCCTTCTGCTCGCGCTGCTGCTTTTCTTTGAACACTTCCCACCACTT
CCCGAGCCTTTTGGCGGTTTCGACCAGGGACTTCAGCTGCAATTTTTTCCATTTGTTGCC
GTGCTTGGCCTGCAGACGGATGACAAGTCGCTGCTCCTCTTCAGTTAGTGATCCTTCTT
GATTCCGGGTTTGAGATAGTTCTTCCACCTCTCTAAACAGGATTTTCGCATCCCGGTTGAG
GGGTTGGTTCATGCGCTCCGACACAAGGTGCCAATCTCTCGGTCCATACTGCTTACATA
CGCACGCAACAAAGTGCCTCTTTCAGGTCGCCAACGCTGCCTTTCCTTCATTTGTCGACG
CGAGCTCTGCCATTGCCTCGAACTCTTCATAGCTATCTGATAACATAGTTAGAACAACA
AAATTGCAGAACATAAACTACATTGCAAGATCAGTTATTTACAGAATCCATTGAATATTT
ATGACCATTGCAAAACAGGACATATTCCCAAAGCATTTCAACTTGACGGAACAGGACAC
CATAAACTGATGATTAATTTCTTTCATTACAGGACATTCATTGACTGAATAAAAATAACAC
ATAAAAGAAAGTAATGGAAAAGGAGTAGAGTAGAGATCTGGGAAATCTTTAAGAAAAGCT
AAATTCATATCAATTTTTTCATAATTCAAGCAAACCCTAATGCTATATCAAAAATAGGAATA
TGTATATATAATAAAAACAATACGGTATGATTGTCACATCTCTGATGATGATGAAACCTCT
TCATTCTTTTCAATTATTTAATTATCATTATATAAGCCAATATGTCAACAAAGTTAAGA
TTTGCATTTAATATTCTTCTCAGAAACCAAGGTTACAAATATCCACACAATAAACTAATC
ACCTCAAGGAGACAAGACAGCAGTATATTAGCTTTCACATTTGTCTCCATATATGTTTGCA
ATAAATTATGCAAGAAAGAAGGGGGGATGAAACAGGGGCAGCTATCTGGAACAAGGCAA
GAATGAAAGGGGGGTGCTACTTTATCTTCTTAATAGAAAAACCAAAAAAAAAAATGAACACA
AAGGCACACCAAACAAAAGCTCAAATTGATTTACCAGAGAGAGATATCCACAAAAGATAC
CATAGTCTTGCTTAAATCCAAAACATTTACATCATTACGACCTCATTTAGTGCAAATCT
ATACAAAAACAACAGTGTATGTAAGGAAAACAGGCTTACAGTAATGTTCAAGAAATCCT
GGTCTCTCCACAGCCATTTCTTGATTTTCCAACAAGAGCTATCTTCACAAATTA AAAAA
AAAAAAAAAAAAAAAAAAAA

>RMYB16

TGACTTCAGTACGTCGAGACACCTCGGCGCGCCATTGGCTTGGTCCGGGCCGGCGGCCG

CTCGACACACTGATCCTGGAAAGAAGGAGAAGCCGAACAAGATCGAAGCTTGGACTGGCG
GGCCAACCTGGCTTCGGCTTCGAGACGAGCGCTCTCCCACTGGGCCATATGGCTGAGGTT
AGCGGCATTCTTGGACTGTCCATCGCAGGACAACAGGGGCATCATTTTTGGGCTTGTGGT
CACCGGGTCGATGCCCATTTTGGCCAATCGTTTCTTAAGGTGAGTATTCCAGTAATTCTT
GATCTCGTTGTCTGTTTCGTTTGGGCAAATGCGTGGCTATGGCCGACCACCTGTTTCCCAA
AAGGGCGTGAAGCTGAATGATTGTCTGCTCTTCTTGTAAAGCTGAATTTGCCTCTTTAAT
ATCAGGTCTCAGATAGTTCGTCCATCTTAATCTGCAGCTCTTCCACATCTCTGCAGCCC
TGGGAAAAAACCCCAAACAGGAGTTTCAGACATGAACTACACATAAAGAGAGAAAAAGAA
AATCTTACCAGCTTTTGCGGGCAAAGCACGCCAGCTACCATGGCCGTGCTCCTCAATATA
TGCCAAGAGTTTGTGTCTTCTTCGGGCGTCCATGGCCCTTCTTCAATCCTATTTTATC
ACAGCATGGAGACCTCCCCATTGGTGCAGAACTGAGAATCAGGCTTTAGGAGGTAGTTT
GGTTCTGCACAAGAGTATATAATTAATTTCTGTGTGAGAGAAGAAGGGAAATTAGGGTTT
GCCAATAGGTGAAGTGAAGTTAGGGAGTGTGATGATGTGGTAAATAAGGGGCGGAATGGC
CAACATGCCAAGCTAAGGGAGTGGGGAAGAAAGGGATGGAAAATTGGAAATGGAGGTAGT
AAATTAATGCACTTTCCTTCTTTATTTTCTTACATCTATTTTC

>RMYB17

GAATCCTGTTTAATTATTCAAATTGTTGAAAAAATTTGAAATTTCAAACATAAATAATT
AAGAGATGGAATTTAAATCATTAATTTGGACCTGGAAAGAAGGAGAAGCCGAACAAGATC
GAAGCTTGGACTGGCGGGCCAACCTGGCTTCGGCTTCGAGACGAGCGCTCTCCCACTGGG
CCATATGGCTGAGGTTAGCGGCATTCTTGGACTGTCCATCGCAGGACAACAGGGGCATCAT
TTTTGGGCTTGTGGGTCACCGGGTCGATGCCCATTTTGGCCAATCGTTTCTTAAGGTGAG
TATCCAGTAATTCTTGATCTCGTTGTCTGTTTCGTTTGGGCAAATGCGTGGCTATGGCCG
ACCACCTGTTTCCCAAAGGGCGTGAAGCTGAATGATTGTCTGCTCTTCTTGTAAAGCTGA
ATTTGCCTCTTTTAATATCAGGTCTCAGATAGTTCGTCCATCTTAATCTGCAGCTCTTCC
CACATCTCTGCAGCCCAGCTTTTGCGGGCAAAGCACGCCAGCTACCATGGCCGTGCTCCT
CAATATATGCCAAGAGTTTGTGTCTTCTTCGGGCGTCCATGGCCCTTCTTCAATCCTA
TTTTATCACAGCATGGAGACCTCCCCATTGGTGCAGAACTGAGAATCAGGCTTTAGGAG
GTAGTTTGGTTCTGCACAAGAGTATATAATTAATTTCTGTGTGAGAGAAGAAGGGAAATT
AGGGTTTGCCAAATGGTGAAGTGAATTAAGGGAGTGTGATGATGTGGTAAATAAGGGGAG
GAATGGCCAACAGGCCAAGCTAAGGGAGTGGGGAAGAAAGGGATGGAAAATTGGAAATGG
AGGT

>RMYB18

CAGAAGACGGCATAACGAGATCACTGTGTGACTGGAGTTCAGACGTTGCTCTTCCGATCTC
CCCTTATCTTTTTTGACAGATTATTCTGCAGATTTCCATCAAATACAACAATAACAAAGC
GCCATAAGATAACAACAATAACCCAGAGCTCCTGCCATAATTACATCTTCTAAGAAGAAAT
TATCTGAGCGCCAAAAAACAGATTGTTTCTGAAACTGTCAAACCTGCCCTATCTTTTGCT
GCTAAGCTGAACACAGGCAAATAACAAAAATTA AAAAGGAAAACAAGAATAAAAAACCT
ATAATACATCGTGCTGGAGGGCTTCGGTTGAAAGCCCTCTCACCGTTCACGCTACCTGCC
TACATCCCCATTACTTTTCCATGAGCCATCCTCCTCTCTGCTCATTACTTGCTGGTAC
ACTAATATTTTGTGCTTTAGCATAATGCATCTTGATGGCAGCCACAGGGTCCGAAACACC
AGAGCATTGCCCTCAACCACCATCCACCTCTGCCAATGCCAATCCCAATCATCCTTGG
TTCGTGTTGTATTTCTTGCACACTGGGTC AAACCCATTTCTCCTTTGCATCTCAGAGAATAT
GTCCTGCGGTTGCTGCTTCATCTCCTTTGTCAAAAACCTGCAAATCTTGGTTTTTTAATAC
CTCATAATCTGCATTGCTGCTGCTCAAATCTATGCTGCTTTGGAAGGCAGTGACACCATT
CAAGGGAGATTCACTACTCCTAACCCTTGTAAGACGGTAGCTCCAGTTTACCTGAGGG
TTTGGAATGGCTGCTGAATGCAGCAGGATATTTGGCCAATACGAGAGTGGAATCAGGCAT
CGATGGGAAGCCCATCAGTGTGTTGTTCCCATCCGAAAGCCGTAACCTCTAACAGAAAT
ATTCTCAGATCCAATAAATTTATTACCACACACAGAAGAATCGAAAGTGGATTTGTGATC
AGTGCTGCATCGGAGGCTCAGAGACTGGCAACTTGCTTTATGATGCTCCACTTTATCACT
GCAGGCTTCTTGTGCACAGGAGTTTGGTTTTTGGCTGGGAGGATATCAAAACTTTTCCAAA
CAATTCACATCACCATTCTAGCAGGCTTATCCAAATTAGACGGAGGTCTAGAGTTATC

ATAGCTGCTCTTTCCGTGAGATTGAAATGGCGTCTGGAATGATGCTGCTTCACTCAGATG
TCTGGTACACTTTTGAAGGGAGAAATCAGGATGTTGATTGAAATGCAAGCTTAGATCCCT
CTCGGGGAGATGTTGAACTGCATGCCTCTTGCAATTCACATCGCCATTGATCTCGTTCAC
TGACGGCCCGGAAACAGGGTAACCCCTGAGAATCTGGGGAGAATCTACAGCTTCTGACAG
CAAGTAACCTGAAAGATTCTGCTGATGGTCCCTTGCCCCAACTGCCTCCAGAGAATGTTT
TTCCTGATCCTGCTCGCACCAACATATGCTAGAGGATTACAATTTGAGTGTATTTGATA
CTTAATGGGAACAGAGAACATCATAGATGATGACTCTATTGACACCATGTGACCATTCTC
GGGGGATGAGATGATGCAAGATTTATCAGCATGAAAGTTATCGAGGTTTTGGCCACCAGA
TTCAACTTGCATAGAAGAAAATGCACCAACAGGTGAAACATTCCCAGCCAATTGCAGATC
AGATTTACCTCACTGATTGCACCGCTTATAGCAGTGATTTCACTAGAATTGAGATCTCT
ATCTTCCAGTTTCTTAGCATCAAAATTATCGTCAGATAACAGGGGTCTTTTCCATAATT
TTCTTCAAAAATGACCCGGCAGAATCAGGTGGAACCTCCTCCTTATCTGTCTCCTTTGT
TCCAACAGCTACAACAGAGCCACTACCCTCTTCTACCAGCAGAGATTCTGTGCGGGAGGA
TACAACCACAGTTGGACCTTCCAGCTCAGATCCACATGCACCTTCACTCTTTCCTTTGCC
AGCTGCACCAGCACCAGAGTCTGCAGCTTGTTTCTTGTTCCAACAGAGTATCACCAACTGA
CGAAGTTTCCAAAACAGGCTCTGCAGCCAGAGAGTGAACATCAGGCTTCAAATTGTGTGT
TGCTACTGCATCAGGCTCATGCTTTCCTTTGTATTGGGAGGCGGAAGATCCTCTTCCAT
CTTGCAATCAGAGTCACCATTGCAAACAGCGGAGCCAGCCTGCACAACACAACCATCTTC
TACATCACTACCACCTCCATTAGCATTGTTAAAACTGCATTGCCAGCTCCATGATGAAT
CTGATCCAGCCCAAGACACTTTCGAGCTTTGCTAAAGAATATCTTGCACTGCTCCTTGGA
TTTTGTTCTAACTATCTGTGCAATCATATCAAAATCCTTGCCATGTGATGACACAGCCTG
GACAAAAATGGATTTCTCCTCATCAGTCCAATCAGCTGAATCCATCTCCTCAAAGCTCTC
ATCCGAGCACTCATCGTCGACATTCTGAGTACAATCAGGGGTCAAAGGCCTCTTAGAGCC
AGAATTGACTCTTGACACTTCCAATCCTGATACCCATCGGCATGGTCAAAGAAGTCTCGT
GATGCAAGAATTCATGGCCTCAGATGACAAGGAACCACATATTCCAGCCAACACATCAGC
AGCTACAGTTTCATTGCTGTAAATTTCTGACTATTTGATCTCTGTAGCAAACCATTGTT
GCCCTTGTGGCTTCCCCAAGTACATTGAGAGATGCTGCATTACCTCTCGATTCCATCT
TTTCCCAGTGGCAACCAAGTATGTGGTAGCTTGTGACTTTCTTTGCTCCGAAAACCTCTGG
CTTCTTTCTGGCTCTTGCAAAGCATTGAGATTTCTGGTTCTTGTAAGTAAAACCTCAATGCA
GTCAGCAATTGTTTTGTGTTCCAGGAAAGATGCAATCTTACTGAAATCTTTCCAAAAAC
AGCAAGCTTATCAATGAAAATTTCTTTTCTCAGCAGTCCATGGGTTGATAATTGACCT
TTCTTTTTCAACAGCACAAAGGATCTTCCACTAGACCATTGTTTGAGATAAATCTTGACAT
CTTTACATCCTTGTCCAGTATTAAGGCTGGCATCTTCAGAGTATTCTGCAGGGTTTGAA
TGATGACTCAGAAAGTAATCCATGAATGAACTTAATTACTTCTTCGGCAGGCACTGTCCG
GTGGTTTGAAGCAAATAAGGAATTCGAGAACGACTGGAGGAACGATTCTTCTTATGCCC
ACAATGAGTCATATCTAACATCTTGTTAGACTTTCCTCGAAGCTTCTTACAGATATTAT
GCGACCCTCCCTCCAGAAATGCTGAAATACTCGAAACTTGAGAGTTATAACTTTCTCCTT
AAATTTAGGGACCGCTTCTCATTAAAAACTTCTCCTTAACTGACGAACTCCTTCTGAA
AGGGGGCATAATGGATGCAATTGATAAATCGAAGAAATAGTTTCTGGAAGGTAATAACT
ATTCAACACCTCTAAAGCTCTACCAGCAGATTCTTTATTGGAAGCCACAATTATGTCATA
GTTAGAGTCCCCACCACAATGAACATTGCCAACATTACCCTTTTGACAACCTGTCTGAAAT
AGGTTTAGCAGCATCGAGCTGACAAGAATTAATCTCATTGCTAAGACCATTCTCTAAACA
CAACATATTCAAGTTGCTGGAATTTTTCAAGTCAAATTGACAAAACCTTCACATTGAGC
TGTCACAGAAAGCACAGACATCTTCCCCAGAGGAGGGCTCAACTATTTGATACGTGGCACA
GCCTGGACTATTTATCTCCTCAGATTTCAATGCCTCAGATTCTTCTACAGAAGCAGGCAT
ATTCTCAACATTCATGCTTCCAGTCGAAGCAACCTGAAAAGTAGGATCAACAGTAGAAGC
AGAAGCAGCAACCAGCTCCATACAAGGTTTCAAACGGCACTCTCCTTGTAGCAAGCTTGA
AGTATCTGGACAAGGACAGCAACTTCCAGGTTGAGCTATCAGTGACTTGAGTTGCGGTATC
AAGTGAATCTATCTTAGATTCAGTCACCTCAAGAGCTTTTAATACGTCAACCTTCCATAC
CAAAAGCTTCTTCAATTGAGGTAGTTTGTACATAATCTGTTTCCGCAGAACTCGGATCCTC
TGATTGCAGCAATTCATTTAGGAAATTACTCAACTTGGAATAGATGCAAGGTCAATGCT

TTCTAAATTA AAAAGTTGGTCCCTCGCAGTGTCTTCTGGGACATAATACAGGGCAAACCAGA
TAAATTATTATTCTCTTGATCAACACTTGCTGGCCTCATGGATTCTTTCTCCTCGGTACC
TGGTGAAGAACTGAAAGCAACAGATGATGGTGTGGCAGGAGAAGCACAATCTGACATACT
TGCAATTCTAGGGCTCTTATCAGACAGGTTAACAGAAGGTGAATGGACATTTTCAGTTAT
ACAGACACTAAGCACCCGTCCATCTTTTACAACACCATCTTCAGGGCCTTCAACTTTCTT
TTTCTCATACTTCGCAAGACCCTCACCCAGCCAGACGTGGTTTCTTCTGCAACAGGT
CTCATCAGATGAAGCAGGAACAGAGGACCTGACATTAGAAGTACAAGGAGACTGAACAGG
CATTGCACTCTTCTGATGTGCCTCGGCCACTACCTCAATAGAGTCCACTCCTGTACTCTT
GGTGCCACTCAAATGGCTAAAACAAGGACCCCTTGAGGGCAAACCTTCTGATCGAGCCCA
TTTCAGGGGCTTCCAATCTACTGAATCTAGGCCATTTTCTTTCTCAGATTTCTGAGCCGA
GGTAGCCCTCCATCGGCAGTACCATCATTTTTCTCCTGCTCTTTAGTATGTGATAAAGA
TTGGTCTGATGTGGAATCAGGAAGAGGATTTGGAGAGCCATTGACCTTACTGTTGTTATG
GCATGTTTCAGAATTCTCTACAGACTTCTGGTTATTAACCTCAGTAGTGGTGAATCTCCC
AGGACCACTGGAAGTTGCAGCTGGTTCCCATGAAGTAGATCTCCAGTCTTTCTGGCTAAA
GGAACCTCTATTTTCCCTATTGGTCCCTAAAATACCTTGCATCATTGCGAGACCCTAAAGG
CTGAAAGTTGTCATCTTCTAGGTGCCTGTCACCATATCTCGACCCAAAAGGCATAAATCC
ATGACCAGCATCATCTGGGTAGCCATGCCATCCACCCTGCTTACCATGACCTCAGCAAA
AAATTGAAAATCCAAAAGAGAGCCGAAAAACAATTAACACAAGAACTACATGTAAAAA
AGGGCCATATCACATTAATATAATCCTCAAATAAATTATAATTTTACATTTACACACAAA
AAGGGAAAGGCCGGAACAGATCTATACAACACCATCCACAAGAAAACCTCTGGTTTAAA
TGGTAAACATCAGATCTGCACCACATATGCCACCAAACCCTCCACGGGATCACCTAATA
AAGA ACTGAGCCATAATCTTCCATGACTAATTTAAAGAATTCATATAAACAAACAGGTA
CCGAAAAAAGGCAGTCGACTTACAAATGACTGTGACCACAAGAAA ACTCGGAACCATCAT
CATCCTAATAATCCCACCATATCCAACACTTTGATTAACAACAATAATAATCTGAACTA
GAAGAAGCACCTAATATTTCCACAAAAGACTCCA ACTGGTAAA ACTCTGAAAAATAAAA
ATATATATAGGATTCTAAAACGGTACTCACCGGAAGGGATTGGGCGAGATGAGCGAAAAT
CAGAATACCAACGCTGCTGCTGCTGATGGTTGTGGTGGTGGTACGGCGGGCGGGTGTG
GCGGAGGCGGGCGGTGGCGCGTGGGTGTGATGGTGT

>RMYB19

GGA ACTTTCTCCTTAATCATTAATCCAACCATAGGGATTCAAGCATTACCAAATTCAA
GTAATTTGGTGACCCATAGATTCTCATCAGAGAGATTGAAAAAGTCAATTCACATCGAAC
AAAGATTCTGACCCCTCTGTTTCACTACTACTAACATTTCTATTTCTATTTCCATCT
CCATTTCCGTTTTGCTTCTTCTTCTCCAATTTCCCACTGCAGCCCTTTACCCCTGTG
GAAATTCCTGGTGCACCCAATGCCCCCTGCTTCAATACCTTCTTGCTCAAATGATAGTTC
CAGTAGTTCCTGATCTCATTGTCTGATCGACCAGGTAGTCTTGCTGCTATCATTGACCAC
CTGCTTCCCAGGAGTTTGTGCAGCCTGATGATCAAATCCTCTTCTTGATCAGAAATATTG
CCCCTCTTGATGTTTGGCCTCAAATAATTCATCCATCTCAGCCTACAGCTCTTTGCGCAA
CGGTT CAGCCCTGCTTTGGCAGCAATGGTTGGCCATTGTTTCGCGCCATGGGTCCAATG
GCTTGCACCAGTTTCCGGTCCCTCGTTAGCTGTCCAAGCACCCCTGTTGAGTTCCTTCTG
CCTGCCTGCTTCTTTGATTTTATGGGCCATTAAGGCCAACTATTTTCGCTATATCGCT
GCTGTTAATTTCTGACAATTCAGAACTGAGGGAAGCTTTTGTGGTCAAATGCCTCTGGCT
ATTTTAGACATATGGTTGGGGATTTTGTGGCTCAAATGCCCAA

>RMYB20

GTTGTTTAGGATTAGGGTTTCCATTCTGTCTCAATAGTTTTTATTATTCCCAAACATGAC
ATAAAGTCAATGACCATATTTGCCACAAAATATAACCCAAAATTTGGCAACACATCAT
ATATAGTGAATGACATACATTCAATAATATAATAATAAATTCCAGTCTTTAACATTTA
CACTCCATGCATGCAATCAATAAAAAATAAATTAAGAAAAAAAAGAAAAAACAGAAG
CACAATTAATTAATTAATAACCCCTTAACAATCCTTATTACTTTTTTTTCGGATTTTA
ATAATAAAGCTCTCTATTTACACCCTACCCTCCCTATTATATTTATTTTATTGTGCCA
AAATAATAAATAATAAATAAATTAACCTTCGGTAAAAACA AAAA ACTAACC ACTAGCTTCT
GTA ACTTTTTACTCTTTTTTGAAATTTTTTTCACCGCCACCGCCGTTGTCGCCGGACCC

ATCTCCGTTATATCCGCCCACTTGCTTCCTGCAGAACAATATCACGATTCTGCGCGGCA
TTCGCCACCGATGAGTGCTGCTTGTTCGCGATAATTTCGAAACCCAATCCCTCGTCGTCG
TCGTCATCGTCATCCTCGTCGTTGATGTTGTGATCGTCGCTTTCGTTGTCGCGATTGTCC
TGATCCTGCATTGCGGAATCCGGGAGTTGTTGTCTGTGTAGATTGGGAATTGGCCACTGC
TGCTCCGGCTGCGCCATTATTGGCACCATGGGGTTGTTATTGTTGATCTCCTTGCTCTT
TCTTTGTATATGGCTTCCAGCTGGTGAAGTAAGGGCACGTCTTAGCGTCCTCCGGCCGC
TTCTTGTTGCTTTCCTTACCTTCTTGAAGTACTTGTGATATTCTCCATTTCTCCTTG
CAACGCTTCGAACTTCTGTTGTATCCAAGCTTCGCCATAGCGGACGAAATTTCTCCAG
AGAGGGCCTTTTGGCCCGTTTTCTTGGTATTTTAAATCCATGCTTGTTCGTAGATTAATT
AGCGCTTGAACCTCCGCTTTTGGCCACCGTGATGAACTCGCGGCCGGGAATATCCGGCC
ACTTCTCCGCCGTTGTTGTCCGTTTTTGAATTGTTGAATACTTTCGCCGGTGGTGGCACT
GTAATTGGAGCTGGCACCGTTGTGTCGTTGGAGCTGGCGAGGCTGGTGGAGGCTCTGGT
TGCTGCGGTGGCGGAGGAGGAGGAGGAGGCCGCTCCTCCGCCGCCACCAGCGGGGATC
TGCAAATTGTGTTGATCAGTTACTTTTTGTAAAAATGCAATCACGGCGGCGTCTTTAGTG
GCGGCGATGGATCTCTCCTGGACTAATAGATCATGTTTCGCGATTAACCTTGCGGATTCC
TGAACGCGCCAAGCTTCTCCCTCGCCATTCTTTCGCGCTCGCGTTTCTCCAGTGTATCC
AGGAATTTCTTCTGCAATTCCTCCTGTTTCTGAATAACGTCCCACACCAGCCTGTGGAAG
CAATCCTTCCATTTCTCCTTCCACGCCGTCTTGGATATCCTCGTCGGACGAAGTC
GACGACGACGTGCAATCCGACATCAGCCCCGGGCGCGATGCCTGAAAGTTGAGTCCTTGC
GTAGGAACCGAGCTGTTCTCAGATGCTGCATTAGCGGCGGCGGCGGCGGCTGCGCGATT
AAAGGAGAAGAATCGATAGGGATTGAGGCAGCTGCCTGGGGAGGGACCACGCTTAAAGGC
GTCGGACTAATTGATGAAACAGTAACATGGGCTGGCATTGTCGGAAGGGAAGCTGTGGCG
GCGGGGCGCGGGGGTGAAGGGATTAGGCGGCGGAGCGTTCTCCAAGGCTTCCAGTTGA
TCGAAGAATCGGTAGGTTTTGCCGTCGGATTTTTCGCGGCGGCGGCTTTTGGTTTCGCTTG
TGGTATTTGTACACGTTCTCGAATTTCTCCCGGCATTTCTTGGCGCTTCGATGGAATCCG
AGGTTCGGCCATTTTCTGTAATTACAGTTGCAGAAGTGATGTCGGATTCATGATTTAAAA
AAACTCGAATTCAGACAAACACATAAAATAAAAGGAAGGAATTAACCTGCACTGATTAAG
>RMYB21

TAGACCGTTTTCTGGTTTTCTCCTAGCGGTACTCAAGCCAGTGAAGTATTTCTGAGCATGGC
TAGCCACTTTCGATTTTGTTTTAGTTGGCACACAATAGCTTCAAATGCTCTTCCAGTCGC
CTTTTCCAACTTCTCCAGGCCGCGTAAAAAAGATCTATGCTCCTTCTGTCCAACGAA
ATCTCTTCTGCTCATGAATTCAGTGGTTTTCTTTCTTAGCTTTATTCTTACTAAAAT
GATGAGGCAATGGTACCTTTCGAGACTCGACTATTAAGGCTTCATAGTGAAGTTTTAACT
CTTCAATAGATTTTCCAGGAAGTCCAAACACAACCTTATCCCATAGATCAGGATCACCAC
GGAAGAATGCCAAAGCATTGTCAAATGCCTTATCCTTCTCCTCAGTCCAACCTCGAACCAC
CATGTTCTTCATCCTTCCAATGTATCCGCTGTTTCCACCAATTCTCAATGGTATCTCTT
TCTTTTCGAAACCATAATATTGCTTGGATAATGAGGCAAAGGCACCTTACCTGACCCAA
TTGCCTCCACATCATATCTTAAGGCTTTATAGTGATGTTTTACATCTACAATTGTCTTTC
CAGGAAGTCAACTGGGAAGTCCATGGATCAGCATCATTGTGGCATAGTGCCACAG
CATTCTCAAATGCCTTATCCCTTCCCAAGTCCGAGATGAACCACTGTAAGCGTTCTTAA
ATGATGCTTTCACCTCCAATGCCCTGGAGCAGCTGCTGGATGACCCACTGGTGTCCATTC
TTCAGGTAAGTCCGAAGAGAGATGTAGCCATCCAAGTACAAAGGGAGCACGAGACACCT
AGTCTGAAGCCACTGCAGGTTTCTGAATTCAGACATGTTGCC
>RMYB22

CTTCAAGCTCATTACAGCACTTGAGAAAGCCATATCAACCAAATTAGCATCTCTGCATTC
AACCTTTTACTGTTTCATGTTTTCTTCCAGGTAATTTATGTCCTTCTGCTGATTGTCTCC
CTGCACATGGCCACCAGAAACCTTCACTGAAGCCTTGTATAAGCTTTGCTCAATCCATC
AGGCAGGCCACAATCAAACCCAGTTCAACTTGTGGTGAATTGCTATTGGAGACAAACAT
GGTTCTAACATCCAGCTCAGATCCATCTGCACCTATTTCTCTTTGCTGCCTGAATTTAA
GTCTAAAGCAGATTTATCATCCACTAGAGAGTTGCTCACTGACGAGTTTCTTAAACAGC
ACCAGCAGCCATAGAATCAAGAGGGCATGCTCTGCTACCCTACCATAGTCGCTAGCATC

AGGCTTCAATTTGTGCGATTCTGCAGTATCAGATGCCTGATCCATTTTCATCTCATGAAG
GGTAAGATTCTCTTCAATCTTATTTGCGGAATCATCACTGCAAATAACAGAGCCAATCTG
CACAGCACAACCATCTTCAATATCACTGCCACCTGCATTAACATGACCAGTGCCAGGATG
AATTCGATCCAACCAAGACACTTGCGGGCCTTGCTAAAGAATAACTGCATTGCTCCTT
AGTTTTTGTTCACACATTGCGGAGATCCTTGCAAATCTTTGCCATAAGATGACATGCT
CTTAATGAAGATGGACTTCTCCTCATCAGTCCAATCAACAGTCTCTATCTCCCCACAGCT
CTCGTCTGAGCATTTCGTCATCAACATTCTGTGTAACATCAGGGGTCAAAGGCCACCTAAT
GCTAGAACTGGCTCTAGGATCAAAAGAGCTTGTGATAACAAGAACTCATAGCTTCTGATGA
CAGCGAACCACAAATTCCAGCCAACACATCAGCTGCAGCAGTTTCATTACTGTCCAAATC
CAGACTGTTTGATCTCTGCAATGGACCATCATCGCCTCTGGGAATTTTATAGGAACTAGC
TGCACCAAAAAGGATCCTAGATGTACATTTTGGCTGCTGCTGAGTTCCTAATCCATCATT
GACAGCAGCCACAATTACCGAAGCATCACCAAGCATATCCAGATTCACACTGTTTGCCTC
ACGATTCAACCTTTTCTACTAGCCACCAAGTATGTTGAAGCTTTCGACTTGCTTTGTTT
AGCAAACCTCTGGCTTCTTTCTAGCTCTTTCAAAGCATTTCAGATTTGTGATTCTTGTAGTA
AACTCAATGCAATCAGCTATTGTTTTATGTTCCAGAAAAGCTGCTATCTTACTGAACT
TTTCCCAAAGATAGCAAGTTTATCAATGAAGATTTCCCTCTCTTCAGCCATCCAAGGGTT
TATGATGGATCTTTCTTCTCTGAAGCACAAGGATCGTCCACCAAACCATTATTTGAGAT
AAACCTTGACATCCTTTTCTCCTTCAAATAAAGCCTGGCATCCTCAAAAAGTTCCTACA
GGGTTTGATTGCCGATATTGAAAGCAACCCATTAATGAACTCCACTATTTCTTCTGCAGG
CACAATCTGATGACTTCCAGCAAATAAAGAAATCCGAGAGCGAATAAAGGAGCATTTCCT
TTTATAACCAGTCCGACTTAGATCAAACATCTTGTGAGACTTCCCCCAAGTTTCCTTGC
AGAAACTACACGACCTTCTTCCAGAAATGCTGAAATACCCTAAACTTGAGTGCAATGAT
CTTCTCCTTAAATTTGACGGACAGCATTTTTGCTAAAAACCTGTCCTTAAATTTCAAGAA
ATCCCTCTGAGAAGAGGAAACACTGGTCACAGTTGAAATATCAAATATACACTTTTTATC
AGGCAATAACTTATTCAACTCCTCTACAGCCCTATTCGCTGACTCCTTATTGGAAGCAAT
TATAGAGTCATAAATATGGTCACATTGGATATCGCCCACACCATCAAGATGCTGCCAGTT
ACTCATTGTAGAATTAGGAATATCGACAGGGCACACATTATCATCATCACACAAACCATT
CTTTAGCAAAGTCTCATTCAAGTAACTGGCATTGTCCAACCTCAAACCTTAAACAAAACCCTC
AGCAAATTCTGTAGTCTTAGAAGTACAAGTGTCTTCCCATGTGACAGTGCTCAACTAG
TTTAGAAGTTGCGGTACCCGGACTATCAATCTCCTCATCTTTCTGCTCCAGATTTTGGTC
TTTCAGCGCACCAAGGTGTGTCCCCACTGTTTCATGTTTCCAGACAAAGCAATGTGCAATAG
AGCAGGTACAACAGTAATACCAGAAGCAGCAGCATGGTCCTCAGAAGGATGACATCCATC
AGATTCAGCTGTGAGAGACTTGAGTTCAGTTTCAAGAGAATCTATCTCAGATTCAGTCAC
TTCAAGTGCTTTTAAATATGTCAAGTTTACATAGCAACAACCTGTTTCATCGAGGTGGTCCG
TATATAACCAGTTTTTCGCAGAACTTGGATCATTAGAGTTTTTGAATTCATTTATCAACGA
GCTCAAATTAGCAACAGATGTGAGCTGCAAGTTTTCTAAAATAAAAGCTGGTCCCCCATG
GTAAATCTGGGACGTAACATCAGGCGAACAGCTCATATTTGCTGTATTCTGATCTACATT
TGCTGCCTTTATGGATTCTTTATCATCAATACTTGTAATTCCTGGGGAAGAACTACAACC
AACAGAAGCTGGAGTAGCGGGTGAGACACATTCCATAAGATTTGCAAATCTAGGGCTCTT
ATCCGCTAGGCTGACAGAGGGTGACTGCATCGCTTCGGTACTAGTAACACTAACAACCAG
TCTATCCTTTGCTGCACCATCTTCACGGCCATCAACCTTCTTCATTTACACTTCGCAAG
GCCCTCACCCAGCCAAGGCGCGGCTTCTTCTGGAACCTGGTCTCATCAGATGGATCAGG
GGCATTGGGCATGGCACAAGCAGCACCTGGAGACTGAACGCGCATCACATCCTTCTGCTG
CACATCAGCCACAATCTCAGTTGAGTCAACTCCAGACTTTTGGAGCTACTTGAATGACT
GAAACCAGAGCCTCTTGACACCAAACCTCCAGACCGAGACCATTCAGGGACTTCCAATC
AATCGAGCCTAGGCCATTTTCTTTGTGAGAGTTCTGAGTCAAGCTCGTCAATGTGTGAGC
AGCTCCGACCTTTTCATGCTTTTCTTTGCGGCACGGTTGGGATGGAGATGATAAGGATTT
AGGAAGAGGAGAAGCAGAGCTCACAGTGTGTTCTCATGCCATGTTTGGAGTATTCCTAC
GGCCTTCTGATTACTCACCTTAGAGCACGTCCCGGATTTCTCTATGACTTGATTATTCAC
CTCGCCCCTTGACTCCACACTACCAGACCGAGAACAATTCAGGGGCTTCAAATCAATCGA
CCCTAGGCCATCTTCTTTGTGAGAGTTCTGACCCAAGGCCGTCAATGTATCTGCAGCTGC

AACCTTTTCATGCTTCTCTTTTCAGGCGAGGCTGGGACGGAGATGATAAAGATTCCGGAAGG
ATGAGCAGAACCCACACTGTTGTTCTCATGCAATGTTTGAGTAGTCCCATAGCCTTGTG
ATTATTCACCTTAGAGTATGTTTGGGTATTCTCCACC

>RMYB23

GATCTCCCCTGGCAAACTAAATAAGTTCATCCAACTGACCTTATAATAAATGAAAAC
GAAAACCTCATCGTTTCAAGCAAACCTCAAACAATCAATAGCTACTAGTAACTAAGAGAAAG
GACCGAACCGATATCCAAAGACGAAAGAGTAGTATCATATATTTTCTTGGGCGTGTAAGT
ATTCCTCGGATACCTTCCCGTTATATATGTATGTCATTAGTAGCTTCAGTGTCACTTGG
AGTGCTCTGCTTTCATGTATCGTGCAAAATGCTCATGTACATGTAGATTACATCCATTT
CTTAAGAAAGCTCAAGTATGGGCTTCCAAAATTGGCAAAAATCTACTACCCCAAGGTAG
TCACCGAAGACAGGTTATTAGCAACAACCTGATAACCGTCTCCACTTTCACGATCCTCTT
CGTCATCCATGCCCTCTCCTTGGTTTTGATGATCATTGTGCGCGTATTCCCAATTGTCT
GTTCAGGTTGTTGCTGGTGTGCTCTTGGCCCATCATCTGCATCAAGATTTGTTCCGGGCT
TCAAGCTGCTTGTGCCATTCTCTGAGTTGTGGTCAGATTTCTTGGCCCTCTTAGCATAGA
GAGATTCGAGCATATTAATAATATGGGCATGTTTTGGAATCATCTGGCCTCTTCCTGTTGC
TGTCTTTTACTCGTTGTAGTATTTATTTATGTTCTCCATTTCTCTTTGCACCTCTTGG
CGTTCTGTGCTAGCCAATCTTCTTCATACGAGCTGAGATCTCCTCCCACAACGGCCCTT
TCGGCCCACTGTCTGGTATTGCATATCAAGATCTGTTTTAAGCATAATCAGAGCTTCAA
CTTCAGCTTTAGGCCATCGTGAAGAAGTCTTGGACAACATTCTCGCCGGCACTATTAT
CCTGCTTCTCGTTGTGTGCAGAAGCTTACCAATGCCATTGTCCTGCACAAAAGCACGTT
TCTCTGCAACACTCTCTTGATTCTCGGAACGCTTGTCAAACAACGAAGCAAGAAGTTCAG
GCATCTGCAGCGGAAGCGCCTGCTGTGTGATTTTTTGCAGGAAAGCAAGCAACTGCCGCT
CCTTTTCTGCTGCTATTGCCCGCTCTTGGGCCAAATACTCTTGTCTCCCTCTTAATCCTAG
CCATTTCTGAGCCTTCCACGCCTCTTCCCGAGCCATCCTTTCTTCTCGCACTTTTCCA
AAGCTTCCAGGAACTTGTCTGCAAATCCTCCTGCTTACCAACACATCCTTCATCAACC
TCTCCAGATAATCCACAAGCTTCTCTTTTCTTAATGCTCCCCTCCGAATCCCGTCCAG
AGGAGGAGGCAGTCGATGTGGATGCAGATGTGAACTCAGCAATTGGATAGTTTGAACAAG
GAATGGGAAAATCCTGACTACAACCACCTGCTTCGCCATGGCTGCTTCTGCTGCTGCAG
GGTCCGATGCAGGCCTGGTGTAGGAGGGAAGTGGATTTCGAGGGGGTCGATGGGACCGAGA
ATTGGGCATCCAAAAGCTCTAACTGCTCAAAGAACCTATAAGCTTTCCCATCTGCCGAC
TGGATCTCCCATCTTTGGTTCTCTTGTGATATTTATAGATGTTTTCGAATTTCTCTTTGC
ATTTCTTGGCACTTCGATTGTAACCAAGCTCGCCTAATTTCTTGGAGACTTTATCCCAA

>RMYB24

ATTGCTATTCAGTGATTCAATCATTTCAAATTTTCAATTACCGAATAGTAAAAGCGTTAT
TTACTTACTCATTAAAGTCGCTAATCGCAATCCGCTTGCCGCTTAAAATTCATCCCCGC
CGTTCATCTCCCGTGAAAAGTAATTTCTCACTTCCGATCTGATCATCTCTTGAATAATCT
GCAGTAGCTTCGGATCAAACGCCGGACCCGGCGGCGGAAACGCGCCGTTTCCGCCCCGCC
GCGGTGGAGTATCCGACGACGGCGAATCCTTTTCGCTAATCTCCTTCGCCGACGACGAAA
CGCTCCCTGGCAAACCTTAGAGTCAACAGAGTCAATTCAATATTGGAATTATCCTCATTCT
CAGCCGCCCCATACTGCGGCGATTCCACCCCCGGCGAGCTCCTCGCCACCGGAAAATAGA
AATTTACGTTGTCTTCGCTGGAATCATTGGTTTCAGAATTTGATAGATTATGCTCTCTG
GACTTACTCTCAACGCCGACACACATCTCCATTCTCCGCTCGCCTCCAAACCTTCGCCG
ACCGCTCATCGCCACCGGAGGCGGCGGCGGCGGCGGAGCCTTCCGCTTCAGCTTTGAGTTC
AGTGATTTTTGACAGCATTATCCGTGCGTCCATTGAGCAGCCTCGCAATCTTCGCCCACT
TGTCCCAAATTCCTATGCGCCTGCAGGATTCTCTCATCCTCCTCCGCCGTAAACGGAC
GGTGCTCCACCTCCGGCGATAGCTGATTACACCACCGCAGCCGGCACGACTTCCCCGACC
TCCCTGGAATCGACCTGCTCACCAGCGTCCAATTCGTCGCCCGTGCCGCTCCACGAGCT
TTCGCAGCAGCTCGTCTCCTCCTGACTCCACGGCCCTTAATACGGTCCAAACCTCCGC
TCGCCTCCGCCGACCCATAACTACAGGTACCGAGTTCCCAACCCAATCAACCAAATCC
CTCCCTAATTTCCCAACCTAATCCGTAACAATCATCGATGGGAAAATCACTATATATAAA
GGAGTTAAATTTGGGGATTAGGTTAGGGGTTAGCGATCGAGTCAA

>RMYB25

GCCTAGAATCAGTCATGAACTCAAGTTGTATGTGACATCTCTTAGAATTATCGGACAATC
CTTTTATCTAAAAGGTTAAGTTGTTATTGGCCTATGTTCACTTTTGTCTAATTCTCCGA
CATTAAAGAGTTTTGTCCTGCATGTAGATCAAAAAGTTAGAAATTCTTACACTCTCTGAAAA
TTTGGGGCTAGGAATTGCGGCTGCCAATGTCCTGAATAATGGAGTCACATGAACAGGCGA
ACCAAATTCTGTATTTGAATAATCACACACTTCTTACAGTTCTCTTCTATGTGGCCACA
TGTAAGCATGTTCACTTCGTTGGTGCTTGCAGTAGTATTGCAGATTTCGACTTTCTTCAAC
AAATTCATTTCCAAGCTCTTGATGCAGCACACTGATATCAGTTTTGTGCTCTTCCATTTT
ATCAGCTGGAATGTTTGGCAGGAGAGTCGATCCTGTACTGTACTCAGAGCTTGCTGGGGA
TGATGCATACACATCAGGTTCCCTCCAAGACAGTCGGCTCCCTTCGTTGCTGCTTCTTAA
ATCTTCCACCAATTCTCTCAACTTCTCAAGATGAAAATCGTGATCAGGATTTTCAAAGGC
TGGCAGATTGTTTTCTGTTTTGCTTTAGAAAATTCTTGGATTGCAATCCAGGCGCTTTC
AAGGCTCTGGTTTGTCTTCTCCGAGTTAACCTTGATCGCAAGCGAACTAAGCAACTCAGC
TTGTTGCATCAACGCAAGTACCTTCGGATCATCCTTCCCTAAGGAAGGTTCCCTTCTATTTT
GCAATCTTCAAGCCCATCCATCAATGCTTCCCTTATTTGGTTTCGAGTGCAGCTCACTGGG
GATGCTAACCGCAGACGAATGAGCATTTTGTGCTAATACTTGAAATGGATGTCTCAGCAG
ATGATCTACGGCATCACATTCGCTGGATGGTCTCCCTTCTTGGCTTCTACTGCATTTCGT
AACATCGTTCCCTCATCTTTTTAAGGGGAGCGCCACTTTTGTACCCTCCTGAATTGAGCCC
ATTTGGGAATATAACCCTTTTGTGTTTAAAGTTGATGTAAGAAGTAAAGTTGTTCTCCTT
TGCCAGCGCTTCGTGCTTTGCTTTTCTTGCATAGAGTGGCAAACCGGTTCTTACAGC
ATTATCAGTTCTCCCCGAGACAACCTTTGCAATCTCGGTCCATCTGTTCCCAAATATCTT
TTGTGCCTCACATAGAAGCATGTCTTCTCGGGCGACCATCCCCCTTTCTTGAAATCAGA
ATTCAAGTAAAGTAAACCATCTCCTACGACATTGCCTCGCGTTTTATCCTTGAATTTTGA
TGCAATAACAGCCCAATTTTCAATCCCATGTAACCTGATTTGCTCCCTCAAATATCATC
CTCCTCTTGTGACCAAGAAACAATATGCCATTCCTTCCCTCTTGGAAAATCACCCTATT
TGCACCACCCTCTTATTATTCCTTCTTTCATATTTTCTCAACTTGCAACAAATTCCT
TTCATGACCCTTCTTTTCCAATAGATGTGTATTATATAACCAAAAAAACCAAGGGCAAA
AACAAAAAAGAAATGCAAAAAGAAAAGATCAAGTCTTTTACCCCTTTTCTTCTTACA
CAAAAGAACACTCACTCAGCTTAGCTCCCAAATCCAAAATCAAAGTGTGGTCTTTTAC
CCATCCCCTCAAGCTCAACACAAAATTTTTTGCCTAGGATTCCCACTTTTTTTCCCCAA
GGCTAAATCCCTTTCTGAAACCAACAAGTAAAAAAGAACACTTGAAAACAAGGGGTCA
CTGCAGGCTTCTTAATTTGGATTCCACTTAGAGAAATTGGATGACAAAACCAGCCTCTCA
GCCCTCTCAACCTCGAAA

>RMYB26

TGGGGGCGGGGCAAGACCCAATGACCAGTTTGAGTTTGGAGTGAAGGGAGCTCAAGCTT
CGTTGCCTGGGCAGGCTCCGAAGCCGGGTGCCATATAAAACAGCATGGTTGACGCTGCC
ATCGAGTAAACTTGAGGACATTATGCGATTGCAGGTTGGGTAACAATCATGTCCCGATGA
GAATACCAAAGGTTGACCAATCTGCAGGGGATCATCAAATGGACTCCCCTGGCTAATGC
ATTGCCTGTGGCAGTATTGAAACCTTGTAGCGGTGGCTCGGACGGTCGGAGGCGTTTGA
AGGATAAACTGTTGATTGATGAGGCTTGTTTATGTTGGAAGAGTTCAAGTTCCTACCTTG
TGCAACTAGGCTACGCGCTGAAATATCGAGCAAGCTACCAGGAAGAATATTGGGCATTGG
TGCCGGATGAGTAGAATATATCGGACTGTTGAGCTCCAAAGCCTTGAAGTTGGGAATTC
AGGGTTGCTGGCAAATTTGAAGCCCTGTTGGGGCACCGTGTGTAACAAAAGGTATTCTT
GCTGCTGTTGTTTAGTTGGTTCTCCTTGGCCATTCGCAACCGGACATCAGGTGGATACGG
CGGCAAGCCAGAGCGTTCTAGTCTTTTCGTCTAGTGTTCCAGAAGTTCTTGATTTTATT
ATCCGTTTCGGCCAGGTAACCTCAGCAGCCATTCGAGCCATTTGTTTCCAAGCCTGGAATG
AAGTTCAATAACCTTGCCTCCTTCTTCTTGTAGTGAATGAGCCTTTCTTAGATCTGGTCT
GAGGTGATTAACCCACCTTAAACGGCAACTTTTTCCACAGCGAGCCAGCCCTGAGTGGT
CTGCACTGCATTCCAGTTTCCCTCTCCGTGCCTGGTACATAGTCGATTAATATTGCATC
TTCTGCAGAAGTCCAGGGACCCTTCTTGTAGCAGAATGTTAGCTTCTCCTGTAGTAGCACC
TCTTCCACTGCTAGCATTATCCCTAGATGGCGGAAGAACTTCACTGCTAACCATCCTTTT

GTTGCTTCCGCTTGGCATACTCATACCCTGATTCGTCAAACCTGAATTTTGAACCAATCT
TCCGCTGAAAACAAAATCAATCACTCCCCAAAAGCTCCAGATATCTCAAAGCCCGGAGT
TTTTCTTTATCTTTATTTACTTATCTGGGAAAAAAGTAACACAAAAAGCAAAAACAAGAA
ACCAAAAAGAACTCCAAAATCCGGCCTAAACTAAAAAGGGGAAGGAAGGACAACCAATGG
GCAATCAAAGAAGCTTTGGTAAATCATGTTCCCTCCTTTTCAATTTAGAAAAGTGAAG
GAAATAGCAAAGAAAATCCAGGGAACCCCTTTTGTGTGATCACAGGACACCACGATCCATT
TTTTCCACATCCCATTAATCAATGCAACGAAAAAAGGGGAAAAAACATAAATAGATTTA
GATGGATAAACCACGGAATTGGAAATTTCTCAGATAAAATTAATCATTTCCTTTTCA
AAACAAAAAAGGGGAAAAAGGAAAAACCTAATGTGGAGAATTAGATAGCAGGAAAAGAGG
AGAAATTCAGGGATGAACAGCACCCCACTTCTGAATTCATTTACAGATTAGCAGCTCAGA
AAACACACGCAGAAGCCGCAATTCACCCCAATTCATTCACCGCCATTACACACACCAAC
ACCCACCCACACGCACACATATACCTATGTATACATAGAGAGAATTTGATAAAAAAAA
ATGAGTAGATTGAAGTGAATCTGCAAGGGTCTTGACCTCCACTGAGTTTTGTCTCTCTG
TGAAGAAGAGTGTGTGCGGTGTGTGAGATAGAGAAAGAACACTGAAAACCAGCTAGCAGA
GTGCCTAAATTTAGGTGTTTATATAAACATATAGGGAGAGAGGAGAGACACGCATTA
T

>RMYB27

TCTTGCTGCTCCTCGTTGAATATATCATCATTAATCAATGAATCAAGAAAGAATCGTCA
ATGCAGCAATTGAGCAAATCATCATCATCTTCATCCTCGTCTCCACGGATAATGATC
CGTTTGTGTCAGTTTCTCAGTTCCTCGTCATTGCTAATTGGATAATCCATATTGTGCCA
CCCTCAAGTTGGTCACTGTTTGTGATCACATTTTCAAAGGGATTAATGTTGTGCTATTG
TTTGGGATAGGGCTGGAACTGATGATTTGTGTTCAAGTGCTTCTGATGATGAATCTCTG
TTGACGTTGACCGACGATTTATTTGGGTTGAATGGTTTGTGGGTTTTTGGATCTAAGCCT
TGCCTGATCAGTTCCTTGCACAGGTGAGTGTCCAGTAGTTCCTTATCTCGTTGTCTGTC
CGCCCTGGAATTCTTCCTGCTATTAAGACCATCTGTTTCCAAGCAGACGGTGGAGGCGG
AGAATGAGATCTTCTTCATCAGGGGTGATGTGTCCACGCTTCACAGAGGGGCGGAGGTAG
TTCATCCAGCGGAGGCGGCAGCTTTTCCCACAGCGGAGCAGCCCTGCCTTCTTCGGCAGT
GTTCTCCACCTTCCCTCACCTTCCCTCTTTATGTACTGCGCTAGAAGCTCATCCTCCTCA
GCCGTCCATGGACCCCTCTTCAGCCCTACATTGCTGCAATATGGAGTCACTGCCGCTGT
TTCCCGAGCTGCAACCATCACCATTGGCTGATGAGGTTTTCTTGGAGGAAGATGATGAT
GGGCTTCTCATTGTTGAAGTGTCACTCTCAATTATGCCTATCCTCTCTTTATTCTTGT
AAATTTTAGTTCTCACCACCCTATTAATTAGGATGGGGCTTAATCTTCTGCCTTTGGTAT
AGGTTTAATTAAGATGAAATGATAGTGTAGAGAATTTCTTGTGACTTCATTTGAATTA
TTGTGGATTTGGAAAGCTTACTACAACCAAAGAAAGCAAAAAGTGGAGATTATTTGAATG
AATTTTACATGAGAAATATGTTTCTAAATTTGGCCTTGCATGGGGTTAAGAGAAGTGTG
GTAAAGAGAAAAGGCATGACTGTGAAAGTTGTTCTCTACCACAATCAGTTACTTGACGTT
CTTATTTTCACTAATAAGTAACAAACATGTGTAGTAAGACTTTTTTTCAATTTTTGT
GGCTAATTTATATAGCTAGAGCCTAGAGATTAAGTTTCAAGAGGAGAGATG

>RMYB28

GCATGGGTAGAGAGCAAGACAACCTTTACAATTTCTACCATAAAGTAGTCTCACCAATAAA
TACTTCCCTAATTCTGCAACACAACAGCTCTATACAAATGGATTAGATTATTAAGTTTT
ACTCCTGCGGATTGATTATTCCCAAATTTTCATACCAAAAATTACAAACAATTTAATTTCT
ACCAACATGTTATTGCCAACATTAATTCCTGTGAAGGTCTAATCACCTGAGCTAGAACCA
AGACCAGGACCAGGAACAAAACCAGAACCGGCGTCTTGTGCTTCCTTGGATCACCGATGG
GCGGAGGGGTGTGGTCCCAGGTAAGTCATAGGAGGCATGCTCAACCCGACCCCGGAACC
ACGGATCCATGGACTGGAGCCCCAACTCCATACGCCATGTGCATGGGTGACGGGAGATTT
ACTGGTGTCCCCTGCTGAGACAAGTGGTCCCTCCTATGGGTTGCCCAATGGTTGGTGGT
GGCATGTACATGCTCACCCCGGCGGTAGCTACGGGTGCTTGAAGGAGGGGTTTGCTTGT
TTCCCGGATGGACCGCCTGCTGATGAGCCGTTTGTGCTTACCAGGTGATGGGGCCTTGGGGC
AATGAGATATCTCCACTCGCGACACTGGTGTGTCATGGATGCTTACCAGTCTCCTGTCT
TTGTTTCATCGAATTGAGACGGATGAAGTACTTTTGGGCATGGCTGGCCACTTGGGTTGGA

GTCCGTGTTACACATAGTTCGGGAAATACTCCTCCAGTCACCTTTTCCGTACTTGTCC
AAACCGAGAAGGAACAGCCTGTGTTTCATCCTCTGTCCAAGCAATTCCTTGCCTGCTTCT
TGATCTGATTTTGAAGACTTGCCCCCGTGGTTGGATTCCCCATTGGACTGGCCCGAATTG
GCCCTTTTCTGCTGGGTGTTCCATCACCAGCATGACTAGTTGAGCCATCTGAGGCAGAA
TTGTAACATGGAACCTCTACAAAACCGGATTCTATCCGTTGGACATCGTCGACTAGCACC
TCATAGTGTGCTTGACCTCCTCCACTGATTTTCCGGGACGTCAGCTGCAATTTTTTCC
CATCTATCCAAAGTGTCTTCGGGATAAGTAGCAATCGCCTTCTCGAACTGCTTGTCTGC
TCCCTGCTCCAGACAGAGCTGCTCAATTCCTGGCAGACGGCATCTAGTCTGTGAGAAA
TTCGACAAATTGTCCGAAATACAACTGAATCCTAATGAGGTTAAAAATTCAGGGAGGAT
CTAGAAAGGAACCAAACAAGAGCAGCTCAGATAGATATGTATAATGCTGTCCTGATTGA
ATTCGCCGCGAATGGGCACACAATGTCAAGACTTTGAACAGTTGAAAAAATGTCGAAAA
CACACAAACAAGTATGGTTAATAATTAGAGGATGAGTAACATCTGAAAAGCACAGCACAG
CACAGAAAAACCCCTCTCGGGACCTCAAGAAATTCACAAATTCTCAACAGTGTGCGCC
GGAGAAAGGGAATCTAAGGACAGAGATGGACAACGGCGATTGGCAAAGGCGAACGGGCAC
GAATCGGGACAGCAATAAGGGGCAGTACTGTGTGGGAATGAATGTGAAATGTGAAAAGGA
CCACCATGATAACAAACAAGAAGAAAGCACCAGAAGTCCAAAATGGGGCAATAATACCA
ATTCAAATTGCCACACATCCATCACTACTCCTATCCCCACACAAAAAAACTTCCCCT
TTTTTACCAGCCAAAA

>RMYB29

CTGCTCCTCGTCTTCATCAATTCTGCCGGCAAATGAGGATTATGATCAAGGGTGGAGTA
TGGAAGAACACGGAGGACGAGATCTTGAAGGCGCGGTTATGAAGTATGGGAAAAATCAG
TGGGCCAGAATTTCTTCGCTCTTGGTTGCAAAATCTGCGAAGCAATGCAAGGCGCGGTGG
TACGAGTGGCTTGACCCCTCCATTAAGAAGACTGAGTGGACTCGAGAAGAAGATGAGAAA
TTATTGCATCTTGCAAACTTATGCCTACTCAATGGAGAACTATTGCCCAATTGTTGGG
CGAACTCCATCTCAATGCCTGGAGAGGTATGAGAACTCCTAGATGCAGCATGAACTAA

>RMYB30

CAACCAGTAAGTGTGTTTTCAGTCGTATCATTTAGTCTGAGTGCTTTCAGATTATGTT
TTCAAAGCCCCTTAAATGTCTTTGCTTTGACAAAGGATCAGATAAGGAAGAGAGCTTAT
ATGCACACCAATAATATTTTTATATCTCCACTCCAATAAGTTTAAATCAAAAAAGTATT
CCAAACACCATGGAAAATTTATTGCACATTACACTGCACACTGGAACACAGCAAAATATA
TATTGCTCGGATCCGCTTTTGTCTCTAATCACTTTCATCTATTCTATTCTAGTTATAA
TATCTGTAAGGGGTAATCATGGCGAGGTGCCACTGTATAGTTACTCATAATGACTAAAGG
GTTTGTGTTTGTGGGTTGTCTGTACATAGGCTTTTCTAGCCAAAAGGTTTGGGAACACTG
GATAGCCGTATCCAAGTTCATGATGAAACAACATAAAGAATGGCACACCAAGGAAACC
ACATAGGGAAAAAGGGGACTAATACGATGAGAAGACCACAGCTAAGATCGCAGCAGTTGA
TCTTCAGAAGAAACATTTGGGTGCTCCTTACCACCATAGATTCCAAAGCAGATCATAGCA
AGCGAATTCAGAAAACTCAGGGCGAGAAAGCTGCAATCCAAGGGTAACAACTCCAAGA
AGAATCGAAAATGGTCTATACTGATGAGAACACCAGATATATATTTGTAATTATTCGAAG
GACTGCAGGAGATTGGTCATAGACAATGGAGGAGTGACCTCTTGCAGGGTGGAGGTTGGG
AAGGATTGGTCATTGTGCTAGGAGCAGCTGATTCCATTCTAGTGTCTTCATCAAGAAGT
GCTTTTCACTTTCTGAAAATTTTGGGCTTGGAAATTGCTGCTGCCAATGCTCTGAACAAGG
GAGTCACATGGAGTGGGGAACCTGAATTCCTGTGTTAGAATATCCACATGCGGCTTCATTAT
TTTCTTTAGTATCATTGCCTGATACCATGTTAACTTCATTTGCAGTTGCAGTATGGCACA
TTTCACTTTCCACGGAAAGACAACACTGATCATCTACTGGATTTGATTGCAATTCTTTTC
CAGTTTCCAGTGTAGCACACTGATTTCCAGATTGACATGCTTCTATCTTATCGCCAGGCA
CACTAGACAATAGAGTGGAACTTGTGCTATAGTCAGAGCTGCCCCGGGATGACTCACACA
TATGAGGTTCCCTCCAGGAGGACTCGCTGCCTTCACTGCTCCTTAAATCCTCCACCA
ATTCATTGCAGTTTTCAAATTGAAGATCAATATCAGGATGAGTGAACATGATCAAGTCAC
TTTCTTTGTTTTGCTTCTGAAAGTTTTGAAGGACCATCCACGCACTTTCAAGACTCTGAT
CTGTCTTCTGTGAGTTAACTTTGATTGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
ATGCAATCACCTTTGGATCATCTTTCTTTAGAAATGTTCCGGCACTTTTGTGTTTTTCTT

CAGATCCATCTGTTGATGCCCCCTTTATGTGATTAACATTCATCTGAGCCGGAAAGTCAA
ACTCATGCACACGGGCAATTTGGCGGACTGTTGCAAATGGATGTCTATGTAAATCATCTG
TAGCATCACACTCACCAGCTACTTTCTCTTCTTGATTTTCAGCTGCTGTATTTGAGATGT
ATGTCCTAATTTTTTTAACAGGCACAGCGGTTTCAGATCCTCCTGAGAATATAACCCTTT
TGTTGTTTGAATGATGTAGGAAGCAGTGTGTTTTCTTCTGCTAATGCTTCGTGTTTTG
CTCTCCTCTTGCACAGTGTGTGAATCGATTCTTCACAGCATTATCGGTTCTGCCCCGAGA
CCACCTTTGCAATTTAGTCCATCTGTTCCCGAATATCTTCTGTGCCTCACATAAGAGCA
TGCCTCCTCAGGTGACCATCCTCCTTTTTTGAATCAGAATTCAAATAAGTAAACCATC
TTCTTCGGCATTGTCTTGTCTGTTTTATCATTGAAGTTTGATGCAATAATTGCCAATTTT
CAATCCCATGTACCCTGATTTGCTCCCTCAATATATCATCCTCCTCCTGAGACCAAGAAA
CAATATGCCTTTCCTTCTGCTTTGGCACTCCACTATTACTAGCTTTAGTGCTGTTATTCA
CCTTCTTCTTCACTCTCTGTAGCCTATAAATGTCTTCCCCTTTGGCATGCTCAAGGAA
AACACTTTTGTCTTTTGAAGAGTGCTTATTATATAACAAAGAAAATTTAAAAATAAAAGAA
AAGAAAAGAACTATGCCCTAGAAAAAAGATGAATCCTTTTCCCTTTACAGAAAAATGCG
TAGCTCCAAAACGGAAACAGAATAAAGAAGGGCATCAAGAATAACACCAAACCTGCTGTTG
GCCTTTTACCCTCCCCTCAACCCAAAAACTTGCCTAGGATTCTGACCTTTTCCCTCCACTT
AGACAAAACATCGAACACTTTGCAAGCAAGAATCAACCCTCAAATGCTCGAGATTTG
AGAACAAAGGCACAGAACTTGCATCCAAGAATAAATGGGCTATTATCAAACAAAAATA
AAATAGTAATCTCTCATTACGGGATTCAAAGATGGGGGAGATGCTTTCTTGGTGTCTGA
AAAGTGGGAGGCTTTCAGAAAGAAAAGATGCAAATGTGAAATGTGGGGGGTGGTGGCGTT
GATTTAAACATATTTAATGTGGTATATGTAGACTAATAAATTCCCACAAATTCAGAAG
CAGCAAACGGCAACGGATTCTTGTCTTTGGGCGCGGGTAAGAAGGGAAAGTTTGA AAAAT
TATAACAAATGGTAAGAAGAATAATGATGAAAAAGGAAAATTTGAAAAAAAAAAAAAATG
AAAGGGTAAAAATTGCTGAAACCCATGGGAGCATAATTAATGAATGCAGCGCTGAGTGCA
GGAGAAGGGAGCATAGAGTAACCCACACACCCACGACGCGCAGTGTACACACCCACT
>RMYB31

CCCTAGTTAAAAATTGGGATTTTTATCCCTTTTGTACTCTTGATTGTTAGATGGAAGGAG
GAACTTGACAAATCACGCCCAAGTGCCCCAAAATACTAATAGTATCTTTGAATTTGCAC
TAGTTACGTTGCAACATACTTTGGTTTTAAAAGTATAGAGTTGATTTGTATTAGTATATCA
CTGTATTGAAATATTCATAAGGACTAAAGTGCAAATGTGCAGTGAAGAAGATCCTCTTC
CGTAGTAAGATGAAACCTGCACTGGCCGACTACATATATATATATATATATATATATATC
TACATATATGAAGCACTAATTAAGACGTGTTACCTATTAGTAATGCTCATTTTGCAATA
TGAGGTGCAATGCAAGGTGAGAGGATTACCATACTAATTCATGAGTGATATGGATGAATT
AAGATTTAATTGGGAAGAGGCTTCAATTCCCTGCACGCCCCACTGATAAGAAATCTATAA
ATGGCAATGCCACAACCTCCTGCTGCTGCTGTGTTTTTAGTTTCCCAATTGACCCCT
TCTGATCCACTTCTTCTTCTTCTTCTTGTATGCTCCTCCTCTTCAATATTTCTCTTTGCAT
GCTTATGATTATTGATCACTTCACTTCTGTTTGGAGAGTCGGTGTTCACCTGCAGAAAGT
TGTAGAACTCTACTTCCCTGCTTCCATTTTCTTGTAGCTATCTTGACATGCTGACGATCAT
TCCACAGTGGCAGCATTAAACGCCGATGGTAAATTATACATGGAAAGAGGATTGCTGATCT
GCTGATGAGCAAATCCATCCAGAAACGTGTGCCCCAGGCCAAGGGTAGTGTAATTATTAT
TAATGCCTAAATCCTTCCCTTGCAGTACTTGTGCAATTAGTTGGTGTGCTAAGACCCTGC
TATTGTTATCACATTTGGATGAAGACGATGATGATGATAATGTTAATGAGAGTGCTTCTCCT
TCTCATGAGCATTGATTCCCTGATCTCCCAATGATGGGCTGATTCTTTTGTGACGACGAT
GGTAATGATGAGATAAAGTTCTTCTTGGCATAGAATTTGACCTCTCTCTGCATTTTCTAG
CCATGATAACATGCCAGTGGTTCTTACAGCATTATCAGTGCGCCCCGGGAAGAATCTTG
CAATTACAGCCCACCTGTTACCATGAATGCGGTGGCAGGCGAGCAGACGCTCTTCTTCTCCT
CCTCGCTGAAAGGGCTGCGGTTGATTCTCGGGTCTAATTGATTAAACCATCTCAGCCTAC
AGCTCTTCCCTGATCGGCCCTGGAGCTTTTTCAGCTATGGCGTTCCAGTTATGAGGTCCAT
ATCTTT

>RMYB32

GTGGATGATTGATCGTTTTCCGTGTAAGGTTTATGCTGATGCGTTATATCTGTAAAATAT

TTTTTGTTTCAGTCTTCATCGGTTTTAAATCCATGTGAAAGAAAACATCATGTATACAAATA
AGCTGAGGATTTATTACTACAAATTTCCATGTCTTCCCCTATTCACCCCTTAATCCTTCC
ATTCAAACACAGCTTTTTATTAAAGAGATGCTAAGCAAGTTCAATCCAAAACCTCGTAGA
TTGCAAACGTTGAACTGCACATTTGACTCCTTGTGGCTTGTCTTAGGTAAACAGATTT
CACTATTTACACAAAATAAAAATAGAATAAAAATAAAAATAAGATCCTGTGCGCATTGGTAT
CTCGCCCGGAAATACCAGTGAATATCCCATGACCAAGTGACACAGAATGCTCTAAACCAC
CATAGTCCTATACACATGGATGCGGTAGTGTTCCTGTTTTGTTTATTAAATTTAATAA
GAATTATCATTCCAACACTGCAAAGGACAATGCATTGCTACAAAAGCACAGCACCATCCA
TGTAGTTTTCCATCTTTGTAGCATCTTATTCAGAATCACCTGTGAGCAGATGTATGTGGC
ATTGGATAAGTTGTTGGTGCACCGGGAACGACGGGAGCTCCGACACCATAGGTGGCCAAG
TGAGGGGGCGGCGGAAGACTCACCGGTGTTCCAAGTGCAGAAACAAGGGGTCCACCGATA
GGCTGTCCAATAGTTGGTGTCCCGTACATGTTGACACCAACGGGGACTTGAAGAGACTGC
TTGTTGACTTTGGAGATGGGCCTCCTCCAACAGCCATACTATTTGTTTGGCCAGTGATT
GGGCCTTGGGGCACGGAAACATCTCCATTGTTGACACTTGTGATGTCATGAATGCTCGAC
CGCCTTCTGTCTTTGTTTCATCGAGTTCAATCGAATAAAGTACTTTTGAGCATGACTTGCT
ACTTGCAGTAGGAGTCCTTGTACGACAAAATTCAGAGAAATGCTTCTCCAATCACCTTTT
CCATATTTCTCCAAACCAAGAAGAAATAACCTGTGTTTCATCTTCTGTCCAAGCAATCCCC
TTGCGACGCTCCTGTTCTGACCTGGAAGATTTGCCTCCATGGTTAGAGTCATTGTTCAAG
AGCCCGAATTGCCACTTTTCTTACCAGCTCCTTCATCATCAGCATGGCTTGTGCAACCA
TCTGAAGAAGAATTATAACAAGGAACCTGTATAAATCCAGATTCAATCTGGTTGACATCA
TCAACCAAAAAGTTGGTAATGATATTTAATATCTTCCACAGACTTCCCGGGGACTTGAGCC
GCAATTTTCTCCATCTATCAGAAGAATCCTCAGGATAAGTAGCTACTGCTTTCTCAAAAT
TTCTTATCCTGCTCCCTACTCCACACAGAGCTGCTTGATTTCATCAGCCGGCATCTAGAGT
CACTTTCAACCAAAATACGGATTCAATACTATCCTCAACCAAGAACCAAAACAAGAACAC
TCCACCCTTCAAAGCTATTAATCAATTGTTCAAATCCTAAAATTCGTTTGGGATCTG
GTTTATTTACTTTGAAAGACACCATAAAAAGCTCAGTTTAGCACACCAATTGCAATAAATA
TCCCAAGCTTCACAAATTCAAGAATTGGAATGGGGTGAAGTACTGCTTACCCTATTGAT
GATGAAAGGGAAATATGCCTGGTTAGAGCATGAGAAATATCTGAAAATCATAAAAATCCA
GGCTTTACAATAAATTTAAAAAGGGGTGAAACAAATGGCCATAAATGAGAGTGAGGAGCA
GAAAAAGATGGCCGGGGGTGGGGGACGAGAATAGACAGATTTTAAATTGGTGACGGTGAAT
TCAATATGAATATGATGAGAGCAGTAAGGGCAGGCAGCGTGAAGGCGAGGAGGATGTGAG
ATGTGAAAAGGACGGCCTTGGTACCAAAACAAGGAAGATAATCCCAGAGAGCTGAAGCAAG
AATGGATAAAAACAAGATTGAAATCGCCATCACTCATCCCAACAATTTTACCCATTGGG
CAGAGGCATAGAGAGTAGAGACCCATGTTTTGATGGCAGCCGCAGTTTTGACGACAGCAC
AGACAGACAGGCCACCGCCACAAGAAAGATGAGAGTATATGAATTTCCGCCCTCTAGAG
TCCAGCCT

>RMYB33

ACAGGGTTGTGCGAGATGCAGCAAGAGCTGCCGGCTCCGGTGGACCAACTATCTCCGGCCA
GGCATCAAGCGCGGCAACTTCTCCGAACACGAGGAGAAGATGATCATCCATCTCCAAGCC
CTTCTAGGCAATCGATGGGCTGCAATAGCTTCCTATCTTCCCCACAGGACCGACAACGAC
GTCAAGAACTATTGGAACACTCACTTGAGGAAGAAGCTAGGGAAGCAGCAGCAGCAACCC
CAAGGCCATGTTTATGTGGATGGAATAATAATTCTTCCCGTTCAAACCCGTTTCCGTT
ACCAAAGGACAGTGGGAGAGGAGGCTGCAAACCGATATTCAAACGGCCAAACAGGCCCTC
TCCGAGGCTCTCTCCTTGGATAAATCCGATTCTGCAGCCGTTGTTGATCAGCACCCAAGT
CCAACGACCCAACTAGGCCAATTCAGACATCTATGTATGCAGTAAACGCGGACAACATC
GCCCGTTGCTGGAAAACCTGGAAGAGCAATGACTCCCCAAAACCTGCACCAGGGCGCC

>RMYB34

CGGACGGTCGGAGACGTTTGAAGGATAAACTGTTGATTGATGAGGCTTGTATGTTGG
AAGAGTTCAAGTTCTACCTTGTGCAACTAGGCTACGCGCTGAAATATCAAGCAAGCTAC
CAGGATGAATATTGGGCATTGGTGTGATGAGTAGAATATATCGGACTGTTGAGCTCCA
AAGCCTTGAAGTTGGGAATTCAGGGTTGCAAGCAAAATTAAGCCCTGTTGGGCCACCG

TGTTGAACAAAAAGGTATTCTTGCTGCTGCTGTTTAGTTGGTTCTCCTTGGCCATTGCA
AACGGACATCAGGTGGATACGGCGGTAAGCCAGAGCGTTCTAGTCTTTTCGTCCTAGTGT
TCCAGAAGTTCTTGATTTTCAATTATCCGTTTCGGCCAGGTAACACAGCAGCCATTCGAGCCC
ATTTGTTTCCAAGCCTGGAATGAAGTTCAATAACCTTGCGCTCCTCTTCTTGAGTGAATG
AGCCTTTCTTTAGATCCGGTCTGAGGTGATTAACCCACCTTAAACGGCAACTTTTTCCAC
AGCGAGCCAGCCCTGAGTGTCTGAACTGCATTCCAGTTTCCCTCTCCGTGCCTGGTCA
CATAGTCGATTAATATTGCATCTTCTGCAGAAGTCCAGGGACCTTTCTTCAGCAGAATGT
TAGCTTCTCCTGTAGTAGCAACTCCTCCGCTGCTAGCAATATCCCTAGATGGCGGAAGAA
CTCCACTGTAAACCATTCTTTTGTGCTTCCGCTTGGCATACTCATACCCTTGAATTTG
AACCAATCTTCCGCTGAAAACAAAACCAATCACTCCCACAAAAGCTCCAGATATCTCACA
GCCAGAGTTTTTCTTTATCTTTATTTACTCATATGGGAAAAAAGTAACACAAAAAGCAA
AAACAAGAAACCAAAAAGAACTCCAAAATCCGGCCTAAACTAAAAAGGGGAAGGAAGGGC
AGACCTATGGGCAATCAAAGAAGCTTTGGTAAATCATGTTCCCTCTTTTCAAGATTTAG
AAAAGTAAAAGGAAATAGCAAAGAAAATCCAGGGAAACCCTTTTGTGTGATCACAGGACA
CTTGGATCCATTTTTTTCCAAATCCCATTAATCAATGCAACAAAAAAGGGGAAAAACAT
AAATAGAGTTAGATGGAGAAACCACGGAATTGGAAATTTCTCAAATAAAATTAATCATT
TTTTCCAAAACAAAAAAGGGGGC

>RMYB35

TTTCCCGAACTTATTTGACCGTATCATCCATAATCAGCTTCAGGATATAGCATCAGCGTT
GGGTAAGATACTAATAGTCTCGGTAGTTGATTAATGAGCACAACATGCTTTTATACAGTT
AGTCTCCCTGCATTTCGGGTGTGCTTCTTGACACTTTTGTGCATAAATTGGCATGCGGTG
TCTTTAAAGTATCCGCTAGTGTCTCTATGTTTGTACATCTTGTGTGTGGGGGGAAAA
AACTAGATACGGGAAATGTTACAGAATGAACTTATATAAACCTCCTTTTCATAAATATTG
AATAGATTGTTGTATAGATTTGGGCGCTACTCAAGTTAATTTTCGTTAATTAATATTAA
TAGCTTTAATATATCAAACACACATTGATATAATCCCCACAATAACACTCCCTCAAATA
CAATTTCAATCACAACACCAATCTCTCAATATAACCAAACCAAACCATCACTCTTAGAAA
ACCAATCAAATATTGAAAACCAATAAATCATGATGAAGACTTGGCCTAACCTAACCAAG
ACAATACCAAATCATCAATCAAGGTTAATCTATGCATCCTCCTCAAGCTCAAGAAAGCTC
TTCACCCATTCCAATCCACACGTCCCCTGTCTCGAGAAATCGAAGAGCTCATCTCCCTCA
ACATCGGAAGAACCCATTCCATCCCCACACTCATCCGCTTCGTCACCATCTCACTCCCA
CTTGCAATCTCCATTGATGAGGATGCTTTCTCACGTTCTTGATCATCGTCATCGTCATCG
TCATCATCGTCATTGTCCTCATCCATTTCTTGATCAGTGCCACCGTTGATGTGGACGGC
AGCTTCTCCATCAGCTTGGCCTTCTTCCCTCAGATGCGCATTCCAGTAGTTCTTTATCTCG
TTGTCCGTTCTCCCCGGAAGCCTCCGGGCTATCAACGACCACCTGTTTCCAGAAGCCTG
TGAAGCCTGAGTATCAAATCATCCTCCGCTTCGGAGATGTTGCCTCTTTTATGTCTGGC
CTCAGATAATTCAACCATCTCAGTCTACAACCTTTCCACACCTATTCAAGCCTGACTTC
ATGGCAACGGATTTCCACCTCCGGGGGCCGTGAATCTCTATGAATTTGGCGAGTGTGGCG
TCTTCTTCGGGAGTCCAAGCTCCCCTGTTTCAGTGAAGATGATGATGATGGTGTGATCTC
TTCTGGGAAGAGCCCCATCATCGTCGTCGTCATTATCATCATCATCGCCGCCATTA
CCATCGTGATCATGAGGAAGATGGTGGCGATTCTTGTCAGCCATGGGATTGGGATTGGGT
GGGCCTA

>RMYB36

TGGGTCGATGCCATCCGTAGAAAGGCGTTTCCCTGATGTGTGTGTTCCAGTAGTTCTTGAT
CTCGTTGTCCGTCCTCCCGGCAGCCTAGCTGCTATGGCTGACCACTTGTTACCAAGGAT
GCTGTGGAGTTGAATAATTGTTTCTTCTTCCCTCGAACGAAAATCTGCCCTTTTGTGTC
CGGCCGAGATAATTTCGTCCACCGTAGACGGCAGCTTTCCTCCGACCGCTGCAGCCCAGC
ATTCTTGGGAAGGGTTCTCCAGTTTCCATATCCATGTTTCTGAATATAATCAATGAGCTT
CTGGTCTTCTTCTGTGTCATGGCCCTTTCTTGAGTCCATTTTTGGCACAGCAAGGTGT
TCTTCCCATGGCATCCAAATTAATAATTTTACCAATTAAGCTGCTAATGATAGATGTTT
TCTTCTACTTACAATTAATTTTGGAGGCACATGCAAATGGCAAAGTGACAGGCTAGAAAT
GTCCGTATATATATAGGTGC

>RMYB37

TCCACTTTGGCCTGATTCTCATGACCCTTTTCTAGCTTCTTCTTCAAGTGCCTGTTCCA
ATAGTTCTTGATATCGTTGTCGGTCTCTGAGGCAGGTACGACGCTATGGCAGCCATCG
GTTGCCGAGAAGCGCTTGAAGGTGGATGATCATCTTCTCCTCATGGTCAGTGAAGTTTCC
CCGCTTAATTCCCGGCCGAAGATAATTAGTCCACCGGAGCCTGCAACTCTTGCTGCATCG
AAGCAACCCTGTATTGGCCGGAACAGCTCTCCAGTCCCAGGACCATGTTCTGAATGTA
AGAAACCAAGACGATGTCTTCTTCCGGCGTCCACGGCCCTTTCTTCACCCCTATTTTGT
ACAGCAAGGTGGCCTTCCCATGTCCCAAATCTCTCAGTTTTTCTTAAAGAGAAAGGAAA
GGGCTTCAAGATTGATTGTTTTCCCTTGGCTTGTAGTATTGTTGATATATATGATGAGA
AAAATGAAGGGAGACAAGAGTCTAAGTGAGAAGAGAAGGGAATGGTGTAAGGGAATTATA
TAGAGAAGAGACCAAAAAGGAGTTAT

>RMYB38

TTTCTCCTCTTGAGCCTTTTTTCTCATGTGAGTCTTCCAGTAGTTCTTAAATCTCGTTGTC
CGTACGACCAGGTAATTTCTGAGCAATCTTGACCACCTATTTCCCATTTGGCGTGGAG
TTGAAGAACAAGGCGTCTTTCGTGAGGGGTCACTTGCCCTCCTGAGGCCCGGGTGAAG
GTAATTCACCCAACGCAGCCTGCAACTCTTCCCTGATCTTCTCAAACCTGAACTTTGGC
GATGAAATCCCATCGCCGGTGCCAAACAAGTTCACGTACAACACCAGCTGAGCATCTTC
TTGTTCTGTCCAGGGACCTTTTCTCAACTCATCCTTCTCCATATCCATGTCCTTGGGTTA
ATTCTCTCTGCTTCTTCTTCTGTGGCCTTAGCTACTAGCTTCTTGTCTTCTTGAAT
GATCACTTTATGGTTGCCCTGGCCTTTTTATATATATGTGTGCATAAAGATTCCTTTAAA
CATTTGGCAATATGTTTGTGGGGGAATTTGTGTAATAATGTAATGAGCATATGATTGGGG
AATCGTGGCCGTACATTTGTTATTTGCGCGTGGATTCATCTTCTTTCTTG

>RMYB39

CTATGGCACCTGTATGAAAAATATAAGTGTGTTCAACTAAATAGTATATGCATACCCAAA
TATAAAGAGTGCTAACAAATTAAGGATACAGTACACCATACTCGAGCAAAGTAGTTCAA
CCAAATACATAGAGATTAGAGAACCATCCAGCCACAAGGGCTTCTGCAGATTTGAAGGT
TCAGTTTCTACATAATCAAAGCCATTATTGAATCCTCCAGAAAGCATAACAGTTTTTCAG
TATATAGTCGAGGATACAAGGCAGCACGACCACCAGTTCGATGGGGTACCTAGACTAG
ACAATGCAGGATCGCCTTTACCGGCCATTAGGTTGAGCTGCAGCAACCGATCTGCATCCC
ATCTGCTCGAGAACTTGGTTCAGTCGGATGTGCTTGGCTGCCATTGCTCAGCCAGTTT
TGCTCTTTTGCCTCCGCTTCCCTCCTCAAGCTTGCCAATTGTTCTCTGTACTCAGTTTCA
ATCCGTTCCAGTGTAGCCTTCTCCTTCTCCCTTAAAGCTTTCATTTTGTCTCAATGTCT
TCCATTTTCTCCCTCCTACGGTTCGCTTCTCTGATTCCAGCTGCAGTTCGACCCTTTT
AATCTCCACGCAGCTTCTTTCTTTTGTGCGGCCAGTGCAGCGGTGCCCTTCTTCCAATTCT
TTACAGCACTCAACTAGTTCAGAAGCGACTGTGCTCTCCCAACCATAGGGGTGATCCCA
AGTGAATGTATATTGTTTCATCATCCCGTGTGTTGCGCTATCAGCTAATCGATCGGGAGGT
TGTAGCCACGGGATTGGTGGTGTAGGTGGCACAGTCAGGGGAGAAAGGCTTAATGTCACC
GATGGGGAAGGCGGCCCTGACAGTCGCGGTCTGTGCTGGAACCTCGCTAGCCATGGAGGCAGC
ACGGAGGGTGCCGAGGGGGCAGTTTGTCTCCGTGGAGATATCCACCATTGGAAGCCGGC
ATTGTGATCCCCGGCACAATATGCTCCCTGACAAGCTTCTCGCAAACGTCTCCAAAATA
TGATCGTACTTCCCTTCTTCAATCGGCTCAATTGTCTTGTATTCTCCTTCTGCTCGCGC
TGCTGCTTTTCTTTGAACACTTCCCACCCTTCCCAGCCTTTTGGCGGTTTCGACCAGGG
ACTTCAGCCGCAATTTTTTTCCATTTGTTGCCGTGCTTGGCCTGCAGACGGATGACAAGT
CGCTGCTCCTCTTCAAGTATGATCCTTTCTTATTCCGGGTTTGGAGATAGTTCTTCCAC
CTCTCTAAACAGGATTTGCATCCCGGTTGAGGGGTTGGTTCATGCGCTCTGACACAAGG
TGCCAATCTCTCGGTCCATACTGCTTACATACGCACGCAACAAAGTGTCTCTTCCAGT
CGCCAACGCTGCCTTTCCTTCAATTTGTGCGACGCGAGCTCTGCCATTGCCTCGAACTCT
CATAGCTATCTGATAACATAGTTAGAACAACAAAATTGCAGAACATAAACTACATTGCAA
GATCAGTTATTCACAGGATCCATTGAATACTTATGACCATTGCTAAACAGGACATATTCC
CAAAGCATTTCAACTTGACGGAACCGGACTGTATAAACTGATGATTAATTATTTTATTA
CAGGACATTCAATTGACTGAATAAAAATATCCATAAAAGAAAGTAATGGATAAGGAGAAG

AGTAGAGATCTGGGAAATCTTTAAGAAAAGATAAAATTCATATCAATTTTTTCATAATTCAA
GCAAACCCTAATGCTATATCAAAATAGGAATATGTATATATAATAAAAACAATACGGTATG
ATTGTCACATCTCTGGTGATGATGAAACCTCTTCATTCTTTTCAATTATTTAATTATCAT
TCATATAAGCCAACATGCCAACAAAGTTAACATTTGCATTTAATATTCTTCTCAGAAACC
AAGGTTACAAACATCCACACAATAAACTAATCACCTCAAGGAGACAAGACAGCAGTATAT
TAGCTTCACATTTGTCTCCATATATGTTTGCAATAAATTATGCAAGAAAGAAGGGGGGAT
GAAACAGGGGCAGCTATCTGGAACAAGGCAAGAATGAAAGGGGGTGTCACTTTATCTTC
TTAATAGAAAAACCAAAAAAAAAAAGAACACAAAGGCACACCAAAACAAAAGCTCAAATTGAT
TTACCAGAGAGATATCCCACAAAGA

>RMYB40

TTCTTCTTTTGCCTCCTCTCTCTTGTGCGGGCATTTTGTTCCTTTTCGTTTTAGACCC
TTGTTTGCCAGATCTTTCATATGCTGAGGGGGGAAAAGGAAAAGAAAAGGAAAAGGGGT
TTCTTTTTTATTTGTGAAGACAGCTCTTGTTCGAAAATCAAGAAATGGGCTGTGGAGAGA
CCAGGATTTCTTGAACATTAATAGCTATGAAGAGTTCGAGGCAATGGGCAGAGCTCGC
GTCGACAAATGAAGGAAAGGCAGCGTTGGCGACCTGAAGAGGACACTTTGTTGCGTGCCT
ATGTGAAGCAGTATGGACCGAGAGATTGGCACCTGTGTGAGAGCGCATGAACCAACCC
TCAACCGGGATGCGAAATCCTGTTTAGAGAGGTGGAAGAATCTCAAACCCGGAATCA
AGAAAGGATCACTAACTGAAGAGGAGCAGCGACTTGTGATCCGTCTGCAGGCCAAGCAG
GCAACAAATGGAAAAAATTGCGGCTGAAGTCCCTGGTGAACCGCCAAAAGGCTCGGGA
AGTGGTGGGAAGTGTTCAAAGAAAAGCAGCAGCGGAGCAGAAGGAGAATAACAAGACAA
TTGAGCCGATTGAAGAAGGGAAGTACGATCATATATTGGAGACGTTTGCCGAGGAGCTG

>RMYB41

ATTTTCTTCATTTTTTTAGTTTATTACGGCCGAAAAATAAACAATTACCATAAAATGAATG
ACTCAGATCACCTAATCCTTGTGAAACTGAGAACCACATTGTCATCAAATATGTCTTGT
AATGGTGTCTGGTCTCCAATTTGGTGCCCCATTTTCGGTTTGGGATACTTACAGTGTAAGT
TATTTTAGTGGACTGTTTCTATTCCGGACCATTCTCAATGTGTTACACAAAACAAGTAAA
ATCAAGAAATTGGAATTAAGCTGAGAGCCCCATAACGATTATATTGCTGCAAACAATGAC
AATAGTTGATAGCCCGAGTGATCTATCCATAGACAAGAGTGGAGTGATAGAAAATGTCTT
ACCATTTGAACTCCTTTGCAATTTTGAACAGATTTGGTTTTGCCAATTAATGTAGTTAA
AAAATGTGAAAGGAAGAAGTGAACACTGAAAAGCGAAGAAACAAATTATACTTAGGGGAC
TGACCTCAGTCCAAAATTCAGATTTGTAACCATTGACCATATTTAGATATTCATTGT
GTAGATTGACTGCTGCTTTAGTTTTCAGAAGATGAGAAAAATGATTGTCGAGTAAATCAG
GCAAGCAGTTAATGAGAAAGTGCAAAATGGTGATCTCTATATTTAATTTTTATTTGGCAT
CTCCTAAGTTCGTTTGTGAAATGAAAATTTTTCAAGTGAACATCGATTCCCCACTGG
ATTGGTGGTTGGGCTGAGTGGTCAGTGATCACCCTTTCCTCTCATCTATTTACAGTAGC
CAAATTTATCCTCTCTGGGACTCTTCCATGGCCATCTACCATTCAATTTTCTAAATTG
GATCATCAGCTCACACACAGACTTCACTCTACACTCCATTTCACTTCAACACCGCATCAT
TCCGAATCGCGTCATTCTGCACTCCGAATCCATTCTGCTCAATGCCCTCCATGTAATTCC
TCACCTCCTTCTCACCATCTCCATCATCACCGCCAGGAAATCCGGGCTGAAGAAGTAT
TGCTCACCGCCGAATCGAACTGCATCATCGCCGGCGACGTCATCCCAACAGCCACAGCAG
GATCCACCGCGTTCGGATTTCGGGTTGAACCTTGGCGGGGACTGATTTAGCTGCTCCGTCA
CCGTATTCGTATTCGGGTTTCGGATTTCAGATCCGACCCGGGTGGCGAAAGGCTGAGCGACG
TAACCGGGTTCGGGTAATTGCAAATCGGGTGGAGAAAACCCGCCGCTCTCGCAATAGGCC
GAAAACCAGGTGACCCGAATGGCTCACCCCGCTCACATCCGAACCGGACGACGGCGGGC
TACCCGGATTGAAGCAGAAAACCTCCGTCCCCGGGCCGACGCTGGCGGATCGCTTACGCG
GCGGCTGGGCGTCGGGATCAAACGCCGCGTTTCAATCCTCCTCCGACATCGACACGCACT
TCCGCTTACGCGTCGAATTCAGTGATTCTTAATCGCGTTGTGCGTCCGACCCGACAGCA
GCCGCGCTATGGTCGCCCACTTGTTCCAAATTTGGCGTGCGCCCGGATGATGGTCTCAT
CCTCCTCCGGCGTAAAGGCCCGGTGCTCCACCTGAGGCGAGAGCTGGTTGCACCAGCGCA
GGCGGCAGGACTTGCCGGAGCGGCCGGGGATGGATTTGCAGATAAGCGACCAATTCCTGG
GGCCGTGCTTCTCCACCAATTTCTGGAGCAGTTGATCCTCCTCAGGGCTCCAGGGACCTT

TGATCCGCTCCATATTGGACATGGCAAAGGCCAAAGGGGACTGAATAATAACAAGAATAA
GGGTTTGGGGGAATTTATACAAAAGGGGGGAGAAGGGATAGAGACGAAGCAGGGGTGGGAG
GCAGTTGGGAATAGCTGGCAAGGGACACGCGTCAGCCGGTGAGGGGGAAGGACGGACT
AGG

>RMYB42

CATCACTTTTTAGAACAAGAATGCCATTTGGCATTGGTCACAATCCAAGTCAAACCTAG
TCACAGTTTCTAAAGCTAATTTTGATTTTAAAACATACAATTGTCACATAACAAAAACAA
TGGAGATTACATAAGTGGGAGAAAAAATTATGAAGCAAAGAAATTGGTGTAAAAGAAAAAC
AAGAGCATAAAGATGGTTGTTATTTATTTTGAATGAAAGAAAAAGGTCTATAATGCCAAA
GAGTGCATTTTGTAGTGAATGCTGGGACATATAATTTTCGCACTTCTCCTAATTATTTGT
TGTACCATGGTAGCTAACTCCGGGCTAAACAAGGAAGTTTTGGACGCCCTACCTTGCTCG
AAATTGGGAATGTTTCGACAAATTTATTTCAAGGGGAGCTGAATTTCTAGCAAATCCCGGC
AAACTAAGACTTAATTCAGTCAAATCAACATTATCCTTAACCGGCGGAGTCGGAGGATCC
GCCGGTATATTCTTCTTATGATCACTATCTCTGGAATCAGAATCCATCAAACATGAACTC
TCCGATTCATAAATTATGGCAGCAGAGACATCTCTGTTATCCAATCGCCTCAAGGCTTGA
GGCAATCGGGCACTGCCGCCGTCGCTCCTCCCGAGTACGACTTCCGTTTCAGCGTCGAA
TTCCAATGATTTTTTACGGCGTTATCCGTACGTCCGGTGAGCATCTTCGCAATCGTCGCC
CACTTATTTCCCGTGCACCGCGTGCGCCTGAACAATGATCTCATCCTCCTCCTCCGTGAAC
GGCCGGTGCTCCACCTCCGGCGCCAGCTGATTGCACCACCGGAGCCTGCACGATTTGCC
GATCTCCCCGGAATCGACTGGCTTATCAGAGTCCAATTCTCGCGCCGTGCTGCTGCACA
AGTTTCGTCAGCAATTCATCCTCCTCCGGACTCCACGGCCCCTTCACCCGCTCGGGAACC
GCCTCCGGAGCCACCTTCTTGGCCTTCGCCGCCATGAAATACAATAACAAATTTGAAAAA
CCCTAATTATAACTGAATTTGTGTATATATATATATATATATTGAATTTTGTAAAAT
TGTTAT

>RMYB43

GCAGCTATCAGTAGTCATAGGATTGCCTGTGTTGGAATTGGGGGAAGAATTAACAGCAGC
ATGTTGTTGTTGTTGATGTTGTTGCTCATGACTGGCGTCATTACATGAGTAAACATGATG
TCCACCTGGTCTTGATTGGATACTTGTTTCATGGTAATAAGCAGTGGTGCAGCCTTTTGA
ATTCTCCTTTCTTTCTTGTGCACTTGAGTAGATAATTATTGACACTATCCCACTTGTC
TTTGCACAGCACACCAGTCTGTATGTCCATAACAAGCCATTTTGGTTGCTATTTCTC
CCACAGAACTTCTCTGATGATACCCCTCTTTGCTGAAACTTTGCTTCCATTCTGACCG
CAGCTGAATCAGCCTACTAATCTCACTCTCCGGCCAGATCATATCGCCTCCCTTTGCTGA
ATTAGTCATCGTTTCGCTCCCAATATCCTCATTGTTGTTCTGGATTTGATTCTCCGCCCC
TAGGAGATGATTATCCTTTCCAGTGAGCTTGTGAAGTGCTTCCATTAGGGCAGCGTCGCG
TGCTTCGATCCAGGCTCGTTCACTAGCCCAGAATTTTGTTCCTTCTCCATTCTAACGAT
GTCTTGTGCGCTCCATTCTCCTCTCTTACCATTCTTTTCGTGCTCCTTTTGTCCATTGT
CTTCATCATTTTCTCCATCCAGACCTCCTGTTTGTCCATCAATTTCTTCATTTGTAAATC
GATGAAATCCCGGATTTTAACTTTCCACCCCTCTTCCCCCTCTTCTTGTGCTCGGATC
ATCAGCCTTATCGTTGCCTTCGTTGAGATCAGTGTGCTGACGAACTACTATCCACTTC
GTCAGAATAATTTCGAGAGACTAAGACTAGTGTCCGAGAGCTTCTGCCCTTGTAATGATTC
CTGATTGGCTCCTAAAGAAGTGCTCTTATTACCATAATTGTAGTGAAAATTACCTCCCAC
AAGATTGGCCTGATCCGAAGCCGAAGCTGCACCGTTGGAGTACCATAAAGGGCTTCAAG
CTGCCTAAAGAACCTGTAATGTTTCCCATCTTGCCTCCAGCTTTGCCCTCTTAGTCTT
CTTGTAATATTTGTACAAATTTTCAAACCTCTCTCTGCACTTCTTACCCTTCTCTGATA
ACCGTGCTCCTCAGACATTATCCTTGAGACTTCATCCCACAAGGGGCCCTTTTGGTTTCG
CTCTTTGAATTTGTGGTCAAGCCTCGATCTGATCTCAAGGAGAGTGAGCGTTTCTGCCG
CGGCCATCTCCCGGCGCCGCCATCTCCACCTCCGATGTTTAAAGCCG

>RMYB44

TCTATGAGCTGAAATAGATGATGTTCCAAAATCATATTTATAATTTTAAAAAATTAATTA
CAACAAAAAAGAAATAGTAATTAACATCTAATTAATCCTAAAAATTCTAAGAATAACAAT
ACTGAAAATAATACTCCTATATAACCGATCCTTGAAAGCTCAACGGCCACCGGAAGCACA

TGGGCTCTGCCGCGTCGATGGTTTACCCGCCCGCAAGAACTCGGAGAAAGGCTTGG
ACTCAACAGACGAGGAGGAATTGAAAGAGCCACTTTTTGCATACTTCGTTTTCGACGGAG
AAGGCAGGCCCAACGACAGCTCCAAATCCACTGCGTACGGATCGTTTTCCACCTCCATCT
TCACCGGCGCGCGGTTGGGACTCCTCCGTTGTGGTGTCTGCTGCATTTAGTATTATCCC
CAGAGGATGAATTATCAATTGCTGGACTGCTGCGAATATTGTTTGTGGCCTCATTATTG
ACGTGGCTGCTTGTGGTGGAGTTGAGCGCCGAAAGTCCAGGCAGGCCTTAGCCGGAAGAG
CGGGGGCGCCGCTGTGGAAGCGGCGGGGGCGGTGGAGTTGAAGGGGCGGTGAGTTTGA
GGTCAATGCCACGGCTAATAAGCTTGCCTTGTGAGTATTCCAATAATTTTTGATCT
CGTTATCTGTTCTTCCAGGCAATCTTCCAGCAATCAGGGACCATTGTTCGAAGAAGGC
TATGAAGCTTGATGATGATTTTCTTCTTTCAGTGAAATTGCCCTCTTGAGATCAG
GCCTGAGGTAATTTATCCACCTCAACCTGCAGCTCTTCCACACCTAAGCAAACCAGCAG
CTTTAGGAAGGGAACGCCAGCAGCCTTACCATGGGCGCGGATGTAATTGATGAGGCGCT
GGTCTTCTTCTTGGTCCAAGCACCTTTGTTGGTGTGGGCTTTTTTCACAGCAAGGGGACC
TTCCCATGTTCAAATCAAAATATGGACTTTGAACAAATCAAAAAGTTGCTCTTTTTCCG
TCTATCTGTAGCTGTATCTGATGA

>RMYB45

ACGGCACAAACTAACAAGGTCTCCTAAAGAACATTGTATGTAAGTTTGTAAGAACTAGA
GGTAACAATTGGCGAATGGACATTTGGAACAGAAGGGGGAAAATCAACAATCCATCATA
AGCTAAGCCGGGAAACTTTGCAAGTCATCTGATGCAGTTACAGCTAATTAATACACATTT
TCGATATCATAAGCTTTTTTGGCAAACACACATATCATTATACTATTTGACGAACTTA
ACTAATGCAGATACACAGATGGGTTTCAGAAAATCGTTTCAATCAAGCAATTTAAAGGATC
CAACACAAAGTACATCACATTACATATTGACTCCTCAAGAGGCGATTAAATTCGGAAATG
TGGATGAGACGCACCGGTCTTGACATTATGCCAAGTTTGTGCAGCAACATTGCAGGGATA
TGCAACGAGCAAGTCACCATGAGCTGAGTCAAGATCCATTAAGTTTGTGCTTGATGTG
ACTCCGGTCCACGAATACTTTTGGCGCGTATGTGGGCTTTTGCACAGATGTATGCTGAAC
ACTAGTTTTCTCGAGAAGGGGAGGTTTGTGTTTTCTGAGGAGGAAGTGTGGTGAGATG
TATGGTCGTTATGTCATGGATGCTTGGCCTCCGTTTGTCTTGGCTCCGGAAAGCTGCCT
TAGATAGTACTTTTGCATGGCTCGCTACTTGTGTGGGCGTTTTGGATATTACAAAGTT
TCGTGAGATATCCTCCAGTCCCCTTTTCCGTGCTTTTGAAGCCCCAGGAGAAATCGCCT
ATGCTCATCCTCAGTCCACGGCACGCCTTTTCTGCGTCTTGATCGCAGGTTCCGGACCCT
CTTTTCGACACACATCAAACTGCGAAGATCCGCCAATTCATAGGTAAAGGAAGAAGCCAA
GTATGCAGGAATGGGGAATAAACCTGCCTCTATGTCAGAAACATCTGCCACTAATCCCT
ATACTGATTTATTACATCATAACAGATTTCCCTGGGATCATTGCTGCAACCTTAAACCA
TCTGTTGGGTGTTTTCTCGTCGAAAATCGCCAGGGCACTCTCGAACTGCTTGTTTTCTC
TTTTGTCCAACTGTGGTCAATCCCTGGTGTATGAACCAGTTTGAATCTGATGCCAGGGA
TGTTTGGCACAAGGTCTCCATTTTCACTCAAAAATCAATCCTTTTTTGGAGGGGTGAACTGA
AGTGCACCTCAAATTTTGTCTCGGCCAGTTGAGAATTGGTGAATAAGGAAAAACCCTGGT
GGCAAAATTCCTGAAAAAGATTATGAGGCAAAGGAAAGGGGTGAAAAAAGGAGTTTTATA
GAAGCCATGAAAAAGGCAGTAGCAATAATCTGAGTGTGAGTTTATGATCAAGACTGTGGA
GAT

>RMYB46

TGTTCGAATGACAACGTGCCATAAAAAATTATGCTTTTGGCGCATCCACATAAAGATTT
TACTGCATTGTATAGATTATAGATAATAAAGGCTAGAACAATGGTAAAGAAAGCTATGGC
CATTAGCCACATAATTAGTTATTTTACAACATCTAGTTTCTCATAAGGGTCTATCCTT
GAGACTCAGTAGCCTCACTTTACCACAAATTCTAGAAACGCTTCTACAACACCACATATG
CTGTCTTACAGATTAAGGATGCAGTTTTATCCTATCCTATAGCTTATTTTATTTATT
ACGAAAAACAAGAACATGTGCGCATTATCCGAAGCCATTTTATGAACATTCGACGGCA
CTATTGCCACATGGGTTTATCAACATCTGACATCATTATCACAACCTTAGGCAGCAGAAAC
ATACCTGTCAAGGTCAAGTAAGCACAAATCTTTATTGTTTACTTGTGTGGCACTGGGTAA
GTAATGGGAGCCATGGTCAATGGGGTGGCCGGGAACCACGGGAGGTCCAGGAATTGGGGCT
CCAACGCTATAGGCCAAGTGGGGAGGTGGAAGGTTACCGGTGTCCCAACTGCTGAAACG

AGTGGGCCTCCTATTGGTTGTCCAATGGTCGGTGGACCGTACATGCCAATGCCTGGGGTG
CCAACAGCAGTTTGAGGGAGTGGTTTGGTGGATTTCATGGGTGGGCCTCCTGCAGCAGCA
CTATTTGTCTGGCCAGTGATGGGAGTTTGGGGCACCGAAACATCTCCATTGTTGACGCTG
GTGATGTCGTGAATGCTCGATCGTCTCCTGTCTTGTGATAGAGTTCAACCGAATGAAG
TACTTCTGGGCGTGGCTGGCAACTTGGGTAGGAGTCCTTGTACCACGTAGTTTCGGGAT
ATGCTTCTCCAGTCGCCTTTCCCGTACTTGTCCAAGCCAAGAAGAAACAATCTGTGCTCA
TCTTCTGTCCAAGCAATGCCTTTGCGACGCTCTTGATCTGACTTAGAAGACTTGCCTCCA
TGGCTGGAATCACCGTTCAGGCGTCCAGAATTGCTACTTTTCTTGCCACTGGCTTCATCA
CCACCGTTACTAGTTGAACCATCTGAGGAAGAACTGTAACAGGGCACCTCTACCACACCA
GATTCTATTCGGTTGACGTCATCCACTAAAAGTTTCATAGTGGTGTTTAACCTCTACAACA
GATTTGCCAGGAACATCAGCTGCAATTTTTTCCCATCTGTCTAATCCATCCTCTGGATAA
GTGGCTATTGCTTTCTCAAAGTGTATCCTGCTCCCTACTCCACACAGAGCTGCTCGAT
TCATCCGATGGCATCTATACTTGTTTAATTTAATACCAGGTGTAC

>RMYB47

GGACGGCAGCTTCTCCATCAGCCTGGCCTTCTTCCTCAGATGCGCATTCCAGTAGTTCTT
GATCTCGTTGTCGGTTCTCCCCGGAAGCCTCCGGGCTATCAACGACCACCTGTTTCCAG
AAGCCTGTGAAGCCTGAGTATCAAATCATCCTCCGCTTCGGAGATGTTGCCTCTTTTTAT
GTCTGGCCTCAGATAATTCAACCATCTCAGTCTACAACCTTCCCACACCTATTCAACCC
TGACTTCATGGCAACGGATTTCCACCTCCGGGGGCCGTGAATCTCTATGAATTTGGCGAG
TGTGGCGTCTTCTTCGGGAGTCCAAGCTCCCTTGTAAAGTGAAGATGATGATGATGGTGA
TGATCTCTTCTGGAAAGAGCCCCATCGCCGTCGTCGTCGTCGTTATCATCATCATC
GCCGCCATTACCATCGTGATCATGAGGAAGATGGTGGCGATTCTTGTACGCCATGGGATT
GGGATTGGGTGGGCATGATGGAAATGGATAAGTTTAAAGTTAAAAGGGGAAGGGATTGGAT
CACTGGATGGTAGTAGCCGTGGGGTTGAACTTTGAAAGGAATATAACCGCCGGGTTAG
TGAAGCCCCGACTGCCCCAGCTGGCCAAATCTCCAGAACACGACAGGTAATTGTAGCG

>RMYB48

GATGCACATTTATAATTTAATAAGTAAAACCTAGTGAAATAAAAACAAAACCCATGTTTTT
TACATATACTCCGATTCATACGTAAACAAAACCAAGCAGAAGTAAAGAACCAAGAAAA
GAAGAACAAATAAAGTTCTCATTACAATCACTATACCCCCAAATTAATCCCAATTTATTC
CCTTGGATCTAACGCCCTTAACATTATCACCCCAATCCCTCATTTTATTCCCACCCAA
ATCAAATAAATAAATCAAAAATTTCAAACCACATATAAAAACCTCCCCTATGACCTTACA
AAATCTTCAAATTTCACTTGCTTCCCAGTTGCTTATTTTGTCTGCCCTATTCTCATT
CCATCCTTCAAATATTCGAGTATGCTTTAACACGCTCTTTCCTCTATCCGCTCAAACAAG
TTTTACCTGTTCAATTCGACCACAACAAGCCAACAGCAATGTGCAAACACCTCACCCCA
TCGTGGATGATTGTTTGTGCAATTAGCTCGTACTCCCCTCCATTCTCGTCCATCTCAT
CCTCCTCCTCATCAAATTCATCTTCTCATGCTCGTTGTTCTCGCTCTCATTCTCATTGT
GATTCTGATCGCGAAATGTAGAATCCTTTTGTGTTGTTGTTGTTGATTGTTGTTAGGAA
GAGGCCATTGCTGCTCGGGCCGACTAGGATGGGTTCCATATTCGGGTTGTTTGGATATG
AGGGGTTTCATCGATGAGACAATGCCATGCTTTGCCCTCTCTTTGTATATGGCTTCCAAC
GGTAGAAGTATGGGCATGTCTTGGAATCTTCGGGCCTCTTCTTATTACTCTCCTTTACTT
TCTTATAGTACTTATTGATGTTCTCCATTTCTCCTTGCACCTCTTGGCGTTCCGGTTGT
ACCCGAGCTTCGCCATGGCAGCTGATACCTCCTCCCATAATGGACCCTTGGGCGCGTTAT
CTTGGTACTTGAAATCCAAGCTTGTGCGGATGTCAATCAGGGCCTGGATTTCCGGCTTTCG
GCCACCTGGAGGAACCTCCCCGGCAAGACACTCTCCCCACCGCCGCAATTGTCCGTTTTTG
AAGTCTCTACAGCTTTTGTGTTAGGAGGATTCGATTGCTGAGGTTGTTGCGGTGGCGGTG
GAGGAGGAGGTTTTGCAGGCGCTGGCGTAACCGGCGGGATTTGGGGATTATTTGGTCCG
TGACCTTCTGCAAGAATGCTATCAATGCAGCATCCTTAGCAGCGGCCATGGATCTCTCCC
GAACTAGGATTTCTGTGCTCCCGATTATCCTGGCCGTCCTCTGCACCCGCCAGGCTTCT
CCCTGGCCGTCCGATCCTTCTCTATTCTCCAGAGTTTCTAGAAACTTGATCTGCAGCG
CCTCCTGCTTCTCCACAACCTCCTTCATTAACCTCTCGAAATAATCCTTCCATTTCTTT
TCTTCCCCCGCCGCGCTGGATATCCTCATCGGAAGACGTCGACGACGACGAAGTCTGTCG

ATTCCGATCGGAAGATGCGAGCTTGC GGCGTAATCTGAGAATTTGTTGCCGCAATTGTGT
GCTGGTGCTGGATGAATTGCGGCGGCTGAGATTGCTGAAATTGAGGAGAATTC AATTGGG
GATTTGTGATTGGGTGAATTACACTCAAAGGGGTTGGACTGATTGATGAAACAGTAACAT
GTGATGGCATTGTAGATTAGGAGGAGGGGCCGGAGCCGCTGGAGCCGCCGAGCGCGGGC
GCGCCGGGGAGTTTTCCAGGGCTTCCAATTGCTCAAAAAACCGGTAGCTTTTTGCCGTCCG
ATTTGGCGGCCCGGCCGCTCCTTTGTACGCTTGTGGTATTTGTACACGTTCTCGAACTTCT
CCTTGCATTTTTTGGAGCTTCTTTGGAATCCAAGACTCGCCATTTCTCGAAACTTCT
CCCAGAATGGGCCTTA

>RMYB49

AATATGGCTAAAGACATCAGCAAATCGCCCTCAGAATAAACGTTATTCAAACCATCAACT
AAGTTGAAAAAATCGCGAGTTTTCTTGCAAACCAAACCTAAGTAAAAAGCATCAATGAG
AAGACAGGGCACCATCCAAGTTAATCTGATCGACAGATAGGTAGAACAGAATTACACTGT
CGATGCTCAAAC TATTGTTTTGTTCATCGATACAATATGCTCAAAC TATACGTGTAATA
GCAAATGCTACTAAAACTATAACCCTTATTGATACATATGTATGAATTACAAGGATATT
TCAGACAATGGCAGTTCATTTTTTTGGGTTTTTTTGGCAATTGGTGACTAATGATAATGA
TATCTACATACTATGGATGAAGCATTCTTATGAAATGCCTTCCTTGGAGTGGAAGTACGT
TCGATTCTTCTACCTGGGAAGCATAATGTTCTTGGATGATGCTACTTCTGATAGCACGCG
ATTGATTTCCGTTGTTTCCAGAAACCTGTCATGAAAAAAAATGGTATTGAAGTACACAAT
CTTCATCTGCAAAACGTTATCGATGATCAATCAAAAAGGCCCAACAAACTGTAGAAGTT
TTAAGGATTTTGTGATTCCAATTACAGAATAACTAATAGTTTCTGCAGCTAACTTTACAG
CTCTTTTCTTAACCATAGCCACAGAATGGAGGGGTTGGCGGATTCAACTATGCCGAGTGG
GATGCATCTGGAAAATCGTACCAGGATGTCCTAACCAGAGGCCACGCTGGTCGAACCCCT
GCATATGATGCTCATT CAGGTTAACTCCAAAAGAAGAAGTTCCTTGAAGGCCAGTGATCA
TTAAGCCGCCGTCCTGTGGGGTGAAGCCCATATTGCACCCGGGTTGGTCAGGTTGGAAT
CATACGTTGCCCTGACCACAACATTACCACCCAAATTGGGGTGAGACTGCAGAATCATAT
TCGATTTCTGTGGCGAATGCGAGGCGTCCTTATCCTCCGGTGAAGGAGACTTGTTAGTTT
CATCAAGATTGACAGTGGTGATATCATGTATGCTGGACCTCCTCTTATCCTTCCCGCCCG
AAAGCTGCCGATAAAATATTTCTGAGCATGACTGGCCACCTGAGTCGGCGTCTCTCGTGG
TCACGAAATTGCGGGAGATGTTTCGCCAGTCCCCTTTTCCGTA CTCTTCAGTCCCAACA
GAAATTGTCTGTGTTCTTCTCAGTCCAGGGCACTCCCTTCTTCTCTCATGGTCCGAAC
ACCGCGTCGACGAGCCGCGTTTGCCGCCTGGACAGTAAATTTGTTTCAAACCATCATAGC
CATGATTGGTCACCCACTCCAAAGTGAAGGAATTATTGGAGTAGCCCGGAATTGGGATCA
GCCCTGCTTCGATATCGCTCACATCTTCGACCAATTCCCTGTA CTGTTTCATCACATCGT
TGACAGTCTTCCCCGGAATCATCGAAGCCACATTCTGCCACCCGGTCGGGAGTGTCTTAT
CAAATAATGCCAGAGCATTTCGAACCTCTTATTCTCCTCAGGAGTCCATTTTCGCGACAG
TACTCCCTTCGAACAACCAATTTCGAATTGGTGAAGTATGAGGCAGGAGAGACCTGCCCGA
TTTCCCTATTCATCGCCAAAAGTTTGGGGGGCAAAAAATAACACCTGAGGAGGCAGAAA
TATAGGGAGAAAGAAGCAGAGAAGAGATTTGATATATGAATATAATCAGATGAGCATTTT
AAGTCATTTTGGGGGAATTGAAGAATCTGAATACTTTTTGACACATGGTGAGGAATCTCA
GAAAGGCTCCCAACTTTCCTAACCCCAAGGAAAATTCAATTCTTCAAGTATTCAACCAA
CTGAAGAAACAAGGAAAAAGGGCAGATCTTGCTGCAGAGAAATAACAAACCCCAAAAATT
CTATTACCTCCTCAGTCTCAACTCACCACCCAACTCAAATAAAGAAAAACCCCTTCAA
TTAAACATTACAAGAAGCATCGGGAAAGGGCTTAAAAAGACTACAATGATAGAAACCCAG
ACCTCTGTCTCTGTTTCAATAATTACATACCTGAACCAGAAAACAGAGTAAATAACGCAAT
ACAACAAGGCCCTCAATTCTGAATGGCTCCAACAAATCAAAGGTGTTTCTGAATGATTGG
TTGGGAGGTGTCTGTGGGGGCTTCAGCTCAGGGCTT

>RMYB50

GCGGAAGAGCTGCCGCCTCCGCTGGATCAATTACCTCCGCCCGGACCTCAAACGCGGCA
ACTTCACGGAGGAGGAAGATGAGGTCATTATCAAAC TCCACAGCCTCCTTGAAACAAGT
GGTCATTGATTGCCGGGAGGCTGCCGGGGAGGACGGATAATGAAATCAAGA ACTATTGGA
ACACGCACATCAGGAGGAAATTGTTGAGCCGGGGAATCGATCCGACGACTCACCGGCCGA

TGAATGAGGCGGCGGCGGACAGGGAAACCCTAAAAACAACAACGACGACGACTATTTTCGT
TCTCCGGTGGATGTTTCGAGAGAATCGGAAGATCAGAAAATCATTGTGATCAGAAAAGATG
AGGATCGACGGGG

>RMYB51

GAGGGGAAGGATTAATATTGCTGTTGTTTTCAAGCTTTTTCTTGAGATGGGTATGCCAAA
TGTTTTTGATTTTCATTGTCTGTTCTTCCTGGCACTCTTGCTGCAATGGCAGACCACCTGT
TTCCAAGCAATTGATGCAAAGTGAAAATGGTCTCTTCTTCCTCTTTGGTGAAATTTCCCC
TTTTGATATCAGGCCTCAAATAATTAGTCCACCTCAGCCTGCAACTCTTCCCACACCTCA
ACAAACCTGCTTGTGGGAAGAGCTCTCCAATTGCCATGGCCATGTTGCTGAATATAAG
TGACCAAAATCTGGTCTTCTTCAGGGCTCCATGGCCCTTCTTCAGCCCCATTTTTTTCAC
AGCAAGGTGCCCTCACCATTCTCCTTACTTAATTATGATAATTTGGTATAATATTTCTTA
TTTTCTATATGGGTTTTAGAGTGAGAAAACTGTAAGGAAGAGGAGAGAGAGAGAGAGGTG
GTAAGGTGTA

>RMYB52

TTCTCGTTTTGAGTTGATGACTCAAGTGGATCGCTCAAGTTGGAGTTGGAGTTGGAGTCG
GAGTTTGAGTTTGAGGGGGTTTTCTCCGCCGTGCTGCTGCTTGTATTCTGTAGCTCTCT
TTCATCAGTCCAACCTTCTTCTTACACTGGCTCACAGTTTTCTGGAAGTGCAGCTGCA
ACTCGTTCCCAGCGTTGAGGAGTTTCTTTGGAAAGGTTTTTCAGAGCTTGGACTAAACCT
TTTTCTTGAGCAACAGACCATGAGTCTTGATCTGAACACAAAGCAGTTCATTAACAGCA
TTGCTGCTGTCTGACAAATTGCCAGGAACAGAAGATTGCCCATAGCTGCACCGGTATTA
GATAATCCCAGCCATCCTCTCTAGTTGAGAGAGGTGAAGCAATTGCTTGTGCAGGTTTC
CTTTTCTCAAGGAAGGAGTCAAAGGCTTAGCAGAATCAGGCTTTTGCAAAAGAAGTGT
TTTGTAGCCTTCAAATCTCCTCTACTGATCTCCCAGAGCCAATATACTCAGATATCACT
TCCCACCGCCGGGAAGTTCCTTTAGGATATTTCTGCATGCCCTTCTCAAAGCTCAATT
TCTTCTTTACCCCAAGGCTTTTCAGCTTTGTTAGAAACCTGTCCATTCATATGAATGCTG
GTGGAGCCATTTTGCAGTACATTCTTCTCATCTTCTTCTTATCCTTTGTTTTGTGATTG
GATTCAAGTGTCTCTTTGAGAAGTTCAGCTCTCTCGAGACCCTCCTTTCTTTCCAATTT
TCACACAACCTACTAAGCTGGTCTTATCAAGTGATGAGCACAGACTCTCCACATCGTCA
TCAGTGAGATCAAGCAAACGTTGAGACAAAATAGGCGTTGAAAGTGTCTTAGACGAGTC
CGTTCCTTCCGGAGTAATTTTTCTCTTTTCTTCAATTTCTTTTGATTTAAAGCAGCT
TCAGCTGCTCTTTTTTCTCCTCTTCTTTCCGCTTCTTCTCCTCGGCAATCCTAGCA
GTTTCTTCTCCTGCAATCTTTGGCCATAAGTTTAGCTTCTTCTTTGTTTCTCA
GCTTCTCCTCCTTCTTCTTAAATCCTAGGATCCCTTTTATAGGCATTATCAACA
AGAGTACGTATGCGTGCACCTTTCATCTTCCGTGCCTTCTCTGACAGTTTTAAATTTTGC
CTTCCATCCATCTCCTGTGATCTCGACCTCAGCTTGCTCAAGGTCATACTCATCAGCA
TGTTGAAATTCTCTCCAACCTTTGAAGGAATACCAGAAATTATAAAAGCTATCCACTTCT
TTGATGGGCGTTTTATCATCCCCCAAAGTAGGAATAGGCTGGGTTACAGACCACCGCCG
TTCTCACAATGCAGGGCCAAATACCTTGAAGAAATCCTGTGGTGCACAATCACAAGGA
ATTTTCATCATCAAACCTCATCCGTGGAATCATAGATTCTTCTCTTCAAAGGATCAATCAAC
ACTTCATATGCTTCTTGAATTGCTTTAAATGGCCCTCAATCTCATCCTTCTTGGCCTGC
TTAGCAGTCTCAGTTTCTCCGCAAGCAAAAGAGCAGCCTGCTTGTGAGGATGATGCCTC
AGAGCAGCCTCCCGGTAACCTTCTTATCTGATCTTCTGTTGCAAGATACCTCAGATGG
CTCAATCCTAGCAGGGCATAATGGTCTTGTGTTTCGCTTCCCAGACTTCTTCTTTCCC
TTATTTCCATACGAATCTGATGATTCTACATAAACATGTTCCCTTCTCATTGGGAGCACCC
TTTCATCATCATCACCACATGTATCTGCTTCCACACAGTGGCCTACCAACCTAAGAGCA
GCAGCATTAAACGAATGCCAGCAGGCTCAAGTTTCAACGCCTTGACCGGAAGGCTATTG
GAGGATACATAGATTGGTTTACCATCCACAATTTCTCGTGGTAAGTAATCAGCTGTATG
CTTTTCCCAGAGGCCATAGCAACTAACAAGCCAAGTGGACAGGATCCCAGAATCCAGCA
AGCTGCCGATTAATGCGGAGAGTGGAGAATTTGATCGATATTAGTTTGGCATGAATCAAT
CGCGATTCCGCTCCGCCGACGATGATGGTGAAGGATGGATTAGACGATGATGGTGAAGG
ATGGATTAGAGCTAGGGTTTTGGTTTAGGTTGGGTGAACGGCTTGTGCAAGGAAGAGA

GAAAAAACAGGGATTAAGGAAGGCGTCCGGCAATTTACCC

>RMYB53

TTTTGGGATTCTCATTGAGTTGATGACTCAAGTAGATCACTCAAGTTGGAGTTGGAGT
TGGAGTCGGAGTTTGGAGTTGAGTTTGGAGTTTGGAGGGGTTTTCTCCACCGTGCTGCTGC
TTGTATTCTGTAGCTCTCTTTCATCAGTGCAACTTCTTCTTACACTGGCTCACAGTTT
TTCCTGGAAGTGCAGCTGCAACTCGTTCCAGCGTTGAGGAGTTTCCCTTGGGAAGGTTT
TCAGAGCTTGGACTAAACCTTTTTCTTGGAGCAACAGACCATGAGTCTTGATCTGAACACA
AAGCAGTTCCATTAACAGCATTGCTGCTGTCTGACAAATTGCCAGGAACAGAAGATTGCC
CCATAGCTGCACTGGCATTAGATAAGCCCAGCCATCCTCTCTAGTTGAGAGAGGTGAAG
CAATCGCTTGTGCAGGTTTCTTTTTCTCAAGGAAGGAGTCAAAGGCTTAGCAGAATCAG
GCTTTTGCAAAAGAACTGTTTTGTAGCCTTCAAATCTCCTCTACTGATCTCCAGAGC
CAATATACTCAGATATCACTTCCACCGTCGGGAAGTTCCCTTAGGATATTTCTGCATGC
CCTTTCTCAAAGCTCAATTTCTTTTACCCCAAGGCTTTTCTAGCTTTGTTAGAAACCT
GTCCATTTCATATGAATGCCGGTGGAGCCATTTGCGGTACATTCTTCTCATCTTCTTCT
TATCCTTTGTTTTGTGATTGGATTCAAGTGTCTCTTTGAGAAGTTCAGCTCTCTCGAGAC
CCTCCTTTCTTTCCAATTTTTCACACAACCTACTAAGCTGGTCTTTGTCAAGGGATGAGC
ACAGACTCTCCACATCGTCATCAGTGAGATTAAGCAAATGTTGAGACAAAATAGGCGTTG
AAAGTGTCTTAGACGGGTCCGTTCCCTTCCGGAGTAATTTTTCTCTTTTCCCTCAATT
TCTTTTGATTTAAAGCAGCTTCAAGTGTCTTTTTTCTCCTCTTCTTTCCGCTTCTTT
CCTCCTCAGCCATCCTAGCAGTAGCTTCTTCTGCAATCTTTTGGCCATAAGTTTAGCTT
CCTTCTTTCTTTGTTTCTCAGCTTTCTCCTCCTTTTTCTTCTTAAATCCTAGGATCCC
TTTTATAGGCATTATCAACAAGAGTACGTATGCGTGCCTTTCATCTTTCCGTGCCTTCT
CTGACAGTTTTAAATTTGCCTTTCCATCCATCTCCTGTGATCTCGACCTTCAGCTTGCT
CAAGGTCATACTCATCAGCATGTGGAAATTCTCTCCAACCTTTGAAGGAATACCAGAAAT
TATAAAAGCTATCCACTTCTTTGATGGGCGTTTTCTCATCTCCCAAAGTAGGAATAGGCT
GGGTTACAGACCACCGCCATCCTCACAAATGCAGGGCCAAATACCTTGAAGAAATCCT
GTGGTGCACAATCATAAGGAATTTATCATCAAATCATCCGTGGAATCATAGATTCTTC
TCTTCAAAGGATCAATCAACACTTCATATGCTTCTTGAATTGCTTTAAATGGCCCTCAA
TCTCATCTTCTTGGCCTGCTTAGCAGTCTCAGTTTCTCCTCCGCAAGCAAAGAGCAGCCT
GCTTGTGAGGATGATGCCTCAGAGCAGCCTCTCGGTAACCTTTCTTATCTGATCTTCTG
TTGCAAGATACCTCAGATGGCTCAATCCTAGCAGGGCATAATGGTCTTGTGCTTCGCTT
CCCCAGATTTCTTCTTTCCCTTACTTCCATACGAATCTGATGATTCTACATAAACATGTT
CCTTCTCATTAGGAGCACCTTTCCATCATCATCATCGCCTGTATCTGCTTCCACACAGT
GGCCTACCAACCTAAGAGCAGCAGCATTAAACGAATGCCAGCAGGCTCCAGGTTTAAAGC
CCTTGATCGGAAGGCTATTAGAGGATACATAGATTGGTTCACCATCCACAATTTCTCGT
GGTAAGTAATCAGCTGTATGCTTTTCCAGAGGCCATAGCAACTAATAAGCCAACCTAGGA
CAGGATCCCAGAATCCAGCAAGCTTCCGATTAATGCGGAGAGTGGAGAATCTGATCGATA
TTAGTTTGGCATGAATCAATCGCGATTCCGCCTCCGCCGACGATGATGGTGTGAGGAAG
GATGGATTAGAGCTAGGGTTTTGGTTTAGGTTGGCTGAACGGCTTGTGCACAGGGCGAG
AGAAAGACAGGGATTAAGGAAGGCGTCCAGCAATTTACCAAAGGGCC

>RMYB54

CCCGTTGTGAAATGGAATGAACCAGGATGTAGTATTGCATCGTCTTGCCAGAATGGATCA
AGGTATGTTGGCCTTCTTTTTGCTGAAATGCCCTGTTTGGAGATCAACTGTGTTGAGAAT
GGAGTATCAGGGGTAATAACCAAGAGGTTTAGGAGACAGTGGATGTTTCCAGCACTAATT
GGGTTCCAGGCATGATACCGGTAGGAAAAGATGGCATGCTACCAAGATGCGCAGTTGGT
GTATCTTTGATGTTGGACTGTTTTTGGTTTTCTCCTAGCGGTACTCAATCCAGTGAAGTAT
TTCTGAGCATGGCTAGCCACTTGCATTTTGTTTTAGTCGGTACACAATAGCTTGAAGT
CTCTTCCAGTCGCCTTTTCAAACATCTCCAGGCCGCATAAAAAAGACCTATGCTCCTCT
TCTGTCCAACGAAATCTTCTGCTTATGAATTTCCAGTGGTTTCTTCTTTCTTAGCTTTA
TTCTTACTAAAATGATGAGGCAATGGTACCTTTTCGAGACTTGAATTAAGGCTTCATAG
TGAAGTTTTAACTCTTCAATGGATTTTCCAGGAAGTCCAAACAAACCTTATCCCATAGA

TCAGGATCACCATGGAAGAATGCCAAAGCATTGTCAAATGCCTCATCCTCTTCCTCAGTC
CAATTCCAACCACCATGTTCTTCATCCTTCCAATGTATTCCCTGTTTCCCACCAATTCTC
AATGGCATCCCTTTCTTTTCGCAAACCATAATATTGCTTGGATAATGAGGCAAAGGCACC
TTACCTGACCCAATTGCCTCCACATCATATCTTAAGGCTTTATAGTGATGTTTTACATCT
TCAATTGTCTTTCCAGGAACTACAACCTGTGAAATTCTTCCATGGATCAGCATCATTGTGG
CATAGTGCCACAGCATTCTCAAATGCCTTATCCCTCCCCAAGTCTGAGATGAACCACTG
CAGGCGTTCTTAAATGATGCTTCCACCTCCAATGCCCTGGAGCAGCTGCTGGATGACCCA
CTGGTGTCCATTCTTCAGGTAACCTGGTTAGGGGAGACTTATTGCTCAGATTAATGGCAAG
AACTAGTCTGGTTGGCAAATACTTTCAAGAAAAAGGTGCTTGTCTTCAACACCTCATAG
AAAATTCTTCTATGCTGATTTTCTTCTTAGTCGGTAATTTATTTAGAAGAACCAAACCT
GTGGGTGAGCGTTGTGTGTAACCTTTGTCCTTTGTCAGCAACAGATCAGACTTGCATACAA
GTTTGGTGAATCTGGCGCATATAAGTGATTCCAACAGTTCTTTGCTGTGGGCATAGATAA
TGGACAAAGCAACTTTCTACCCGGAACAAGCTGACATATAATATTGCTCAGCAGCCACAT
CGAAGTCTGACTACATTGCTCTTGTAACTCTGTAATGAAAGGTAGATGACCCATAATA
TACACAGATATATACATATAATATGTCTACACTTGGGTGTGTGTGCGCGTGTCTCATCAC
ACATTGAGTATAATGAGCACCATAATGTCTTGTAAAGTTTGTAGTGAAGAGGGGTGCCCGT
GCAGTTGATTTGGTTCACCAACTAGTATCACCATATGAATTAATTAATAATGAGAATCCCG
AATAAATGCCATGCGCCGTTGTTGGCAAGC

>RMYB55

CATGAAGAAAGGAAGAACCCTAAATTGAAATTGGGAATTTGATAAAAACGGGAAGGATGAA
GAAAACGGCCTTTTGAATAATACCGTTAGAGTGAAAACCTAGAAAAGTTGCTGAATAAACT
TACAAAGTCGTGTTACTTATATAATAAAAATAGAAGGCACAAATTACAGAAATGCCACT
GACTGAATATTACAAAACAGCCCCTGCATGCTTTAACCAATTCCTGCAAGGTCTTCATTC
TCTTCTCTTGCTGTATAACTGTATCATGACAATTAGATTTTGTCTTTTCTACACCGAC
TAGTTATTTAGATTAGATGTAAATAAGAAAGTAAAGCAGGCTTTACCAGCCCCTTTATAA
TCCCATTACATTATTGTCCAAATCTATTGACCCACACACACACTTAGTATATAAACTGC
AGTGATCAACAGCAAATCAAGGTTCAATTTCTCGACCCCCTCCAGCTGCAGCTTCTTTCC
CAGATGGAGCTGCAAAGCAATTGAGAGGTCGAGGTTACCTGAGGAGGCGGCAACGACG
ACGTGGTGGAAAGTCTCAGAGACAGCTTTCAAGCAGGCTTGGACGACGACAACATTTTGT
TGTCGGATGACGGGTTGGCTGTGTCAACGTTGGAACAGGCAGCTGCAGGTCGGGTGGTGG
CAAACATAGTTTGGTGGATGCGGTGGTTATTGGGATCGATCCCCATTGCAATAAGCTCTC
TCTTGAGGTGGGAGTTCCAGTAGTTCTTGATCTCGTTGTCTGTCCGCCCGGGCAACCGCC
TGGCTATTAGAGACCACCGATTGCCAAGGAGGGCATGGAGCTTGATGATGAGGTCGTCTT
CATCGTGGCCAAAGTTGCCGCGTTTGATGTCTGGTCTTAGGTAGTTCACCCATCGCAGCC
TGCAACTCTTCCCCTTCGCTGCAACCCTGCAGCGTTGGGTAGGGAGGTCCAGCAGCCTT
CACCGTGAAGTTTGTATATAATCAATAAGCATCTGATCTTCTCTTTAGTCCAGGCCTCTC
TGCCTCCGCTCCTCCTCTTCTCCTCCGCTGCTTTCTTCTTCTTCTTACCCTAGATT
TCCTCATCCTTGACCTCGTACACAATTGCAAGAAGGGAAATCCACCTTATATATACCTAA
AAAACCAAATTCGGACAAGTAGCTTCTAAGCAAGTCTGGTTGATGGGAAGAAGATATATA
TATATATATATATATATATATA

>RMYB56

GATACGTAAACAAAACCAAGCAGAAGTAAAGAACCAAGAAAAGAACAATAAAGTTC
TCATTACAATCACTATACCCCCAAATTAATCCCAATTTATTCCCTTGGATCTAACGCCCC
TTAACATTATTCACCCCAATCCCTCATTTTATTCCACCCAAATCAAATAAATAAATCAA
AAATTTCAAACCACATATAAAAACCTCCCCTATGACCTTACAAAATCTTCAAATTTCA
CTTGCTTCCCAGTTGCTTATTTTGTCTGCCCATTCTCATTCCATCCTTCAAATATTG
AGTATGCTTTAACACGCTCTTCTCTATCCGCTCAAACAAGTTTTACCTGTTCAATTCG
GACCGCAACAAGCCAACAGCAATGTGCAAACACCTACCCCATCGTGGATGATTGTTTGT
TTGCAATTAGCTCGTACTCCCCTCCATTCTCGTCCATCTCATCCTCCTCCTCATCAAAT
CATCTTCTCATGCTCGTTGTTCTCGCTCTCATTCTCATTGTGATTCTGATCGCGAAATG
TAGAATCCTTTTGTGTTGTTGTTGATTGTTGTTAGGAAGAGGCCATTGCTGCTCGG

GCCGGACTAGGATGGGGCCCATATTCGGGTTGTTTGGATATGAGGGGTTTCATCGATGAGA
CAATGCCATGCTTTGCCCTCTCTTTGTATATGGCTTCCAACCTGGTAGAAGTATGGGCATG
TCTTGGAATCTTCGGGCCTCTTCTTATTACTCTCCTTTACTTTCTTATAGTACTTATTGA
TGTTCTCCCATTTCTCCTTGCACCTCTTGGCGTTCCGGTGTACCCGAGCTTCGCCATGG
CAGCTGATACCTCCTCCCATAATGGACCCTTGGGCGCGTTATCTTGGTACTTGAAATCCA
AGCTTGTGCGGATGTCAATCAGGGCCTGGATTTTCGGCTTTCGGCCACCTGGAGGAACTCC
CCGGCAAGACACTATCCCCACCGCCGCAATTGTCCGTTTTTGAAGTCTCTACAGCTTTTG
TTGTAGGAGGATTCGATTGCTGAGGTTGTTGCGGTGGCGGTGGAGGAGGAGGTTTTGCAG
GCGCTGGCGTAACCGGCGGGATTTGGGGATTATTTGGTCCGTGACCTTCTGCAAGAATG
CGATCAATGCAGCATCCTTAGCAGCGGCCATGGATCTGTCCCGAACTAGGATTTTCGTGCT
CCCGATTATCCTGGCCGTCTCCTGCACCCGCCAGGCTTCTCCTGGCCGTCCGATCCT
TCTCTCGATTCTCCAGAGTTTCTAGAACTTGATCTGCAGCGCCTCCTGCTTCTCCACAA
CCTCCTTCATTAACCTCTCGAAATAATCCTTCCATTTCTTTTTCTCCCCCGCCGCCGCT
GGATATCCTCATCGGAAGACGTCGACGACGACGAAGTCGTCGATTCCGATCGGAAGATGC
GAGCTTGC GGCGTAATCTGAGAATTTGTTGCCGCAATTGTGTGCTGGTGCTGGATGAATT
GCGGCGGCTGAGATTGCTGAAATTGAGGAGAATTCAATTGGGGATTTGTGATTGGGTGAA
TTACTACTCAAAGGGGTTGGACTGATTGATGAAACAGTAACATGTGATGGCATTGTAGAT
TAGGAGGAGGGGCCGGAGCCGCTGGAGCCGCCGAGCGCGGCGCCGGGTAGTTTTCCA
GGGCATCCAATTGCTCAAAAAACCGGTAGCTTTTGCCGTCGGATTTGGCGGCCCGGCCGT
CCTTTGTACGCTTGTGGTATTTGTACACGTTCTCGAACTTCTCCTTGCATTTTTTTGGAGC
TTCTTTGGAATCCAAGACTCGCCATTTTCTGATTATTATTATTGTTATTATTGCAACAC
GGGCGGCGGAGTAAATATAGTTCTTAAAAATTAATAATCTTGC GGAGTTTAAAAGTGTC
TGAATGCATAAAATAAGGGTTGAGGAATTAAGTGCAGTGGTGGTAAGAAAACAAAATACA
AAGAGATAAAAACAAAGGGGAATTTCTTCAAAGTGGAGGCGAAATCCAGCTGAAAAACG
CTTTCCCTATGGTCCCAGAAGGGACAGAACCACGTCCGATTCAAATCGTGAGTGTGAGAA
TCAGAATTCAATTCAGTTAATTATTCTGATATCCATAATTTAGTTTTCTGCAATTCTA
AATTTCTAATCAATTGAAAAGAAGAAGAAAGATTGTTAAACTGAATCCTATATTCTACT
CATCAAATCAAACTGGTATGCATAATTGAAACCCTTTTTCTTCAAATCCCAAACAAA
ACCCCGATCAAGATCAATTTTTTCCCATGAAATCTCGAATCAACATCCCAGAGAAAGC
AAAAACCAAGAAATGATTCCTCCTTGTTTTATTTTTTCTAAAATAAAGATATAAGATCA
ATGATTACACAATTAATTCATACCTGGAACTTCTTCCATAATGGGCCTTTAAGACTG
GAGTCTCTAAAAGCAGCATCCATCTCGGATCGAATTCTTATCAAAGCCAATGTTTCTCC
CTCGGCCACCTGTTTCCCCCTCCTCCTCCTCCTCCTCCGCCGCCGCCGCACTTCC
TCCACCGCCACGGAGCTGGTGCCGCCGACCTCGCTGCTCCCCCGCCGCTCTCGTGGGTC
TCCGCCG

>RMYB57

TGTGGGTGTTGGGATCGATCCCTTCGTTCAATTAGCTTCTTCTTGGAGGATGAGTTCAGT
AGTTCTTGATCTCATTGTCTGTCTCCCGGGCAATCGGGTTCGCAATTTGGGCCACCTGT
TGCCAAGAGATTCGTGTAATGAAAGGATAAGATCCTCCTCCTGTGAAAACATCCCTC
TCTTCAAATCAGGCCTCAGGTAATTAATCCATCTCAGCCTACAACCTTCCACATCTCT
GCAGACCTGCCAATTTAGGCACAGAGCTCCAGCAGCCGACGCCGTGCCGCGTAATGTGGT
TGAAAAGCTTCTCATCCTCCTCAGGAGACCACAGGCCTTTCCTCAGCTTCTGCTTCACAC
AGCAAGACTGGTGCCCCATTCTTAATATTTTCTCTGTCTATGTGGAGACAGTGAAGTTC
ACTGAATTATGACAGCAATGTTTTGGTCCTAATCTCCTGTTATTATATTTTTTTCTTTT
AAACATAAGCCAAAAAAGATGCTTAAAAAGACATCTGATCAGCCCTTGTGGGGGCTTT
TAACTAAAAGGATGCTTAGAAACGAAGTGATATTATATCAGAGAGGGGGAGGGGGCAGT
G

>RMYB58

CTCCATGTGGTAAAAAAAAGTACAAATTAATTAATACTGAGTTATTGACCACTCCCTC
AATTCATTTATTTATTTCCAAAACGATTAATAAATTTTCAACAGTAACTTTACAAAAAT
TGAATAAACTAATTTACAATTCACAGTTTTACTTTTACTGCTCCACAACGGTTCGATTC

GACCCCTTTCCAGGACCGGGGCCGGGCGGGCCCTCCATGTGTTTCCCTGTCTTCCAAA
TTTATACTGTCTGATTACCAGCAAGCCCGACCCGACCCGCCAGCCCAAATCTCTCATT
TTTACCCCTTTCCGCCGGCTGCTTGTCTCCGACCATCTCGTATCCCTGATCTTCTTCAT
CATCATCGCCGTCATCGTCGTCGTCGTCATCATCGTCATCGCGATCGAGATCCATGG
CGGCATCATCCTGTGGCGGCGGCGGTTGCACGGCGGGGAGCGGCCATTGCTGCTCCGGCC
GCGTCATCATCGGCGGATTCTCCGGCTTAGTATCCGATTTCCCCCTCACTTTGTAAATGG
CGTCAAGCTGATGGAAATAGGGACAGGTTTTGGAATCCTCCGATCTCTTCTTGCTGCTCT
CCTTCACTTTCTTGAAGTACTTGTTAATATTCTCCATTTCTCCTTGCACCGCTTCGAGC
TCCGATTGTAGCCTAATTTCCGATCGCCGCGGAGATTTCTCCACAGTGGCCCTTCG
GCCCGTCTCTTGGTACTTGAGATCCAGATTCGTTCTCAGCTTAATTAGGGCTTCGATTT
CCGCCTTCGGCCATCGGGATGAGCTTCCCGGCATTGAATTATCCCAATTTTATCGAAGC
TTTTAATCGGGGGCGGCGGCGGGCGGAGGTTGTGGAATTTTCTGAGTTATTGGGAGGC
TGATCGGAATTTGCAGATTCTGCTGATCGGTGACCTTTTGCAGGAAGGCGATGACGGCGG
CGTCTTGGCGGCGGCCATGGATCTTTCCTGGACGAGGAGTTCGTGCTCCCGATTCAATC
GTGCCCGTTTCTGCATTCCGACGGCTTCATCTCTGGCCGTCCGATCGCGTTTCGCTTTCT
CGAGAGTTTCTATACACATCTTCTGCAATTCCTCCTGCTTCTGGATCACGTCCTTCATTA
GCCTCTGGAAGAACACCTTCCATTTCCGCTTCTCCTCCCGACCCGCTACGCCGCTGCTGGA
TATCTTCGTCGGAGGAGGTCGACGACGACGACGTCATCGTATTGGAGAACAGGTTCCGGCG
GCGGCGGCGGACGTCTCAGTGCCTGTGTGTCCGCCGATTTGAAATATTCACCGGCGCTA
GCGGTGGCGGGGGAGGCTGCAATGCCGAGGGTGGCGCCATACTTACTGGATTGGGGCTAA
TCGACGATGGAACAGTTGATTTAGGCAAAAGTGTGCGCAATGGCGGTGCAGCCATTGATG
CTGGCGGCGGCGGAGGAGGTGGAGGAGTGTTTTCCAGGGCTTTTAATTGATCAAAAAAGC
GGTAGGTTTTGCCGTCGGATTTTGGAGAACGGCCGTCTTTGGTTCGCTTGTGGTATTTAT
AAACGTTCTCGAATTTCTCTTTGCATTTCTTGGCGTTTCTTTGGAAACCAAGCTCCGCCA
TTTTCTGACAAGGGTCGCTGTGTTATTATTGCATTCTTACATTCTTGAAGAAATTAACC
GATCACTGATCCAGGCAAAACAATAATGTACATAACCGTACAGATGAGAAATTGATCC
AATTGATCCAAGAAATATTTCTTGATGAATTTGGTTAAATTTAAAAATTCAATCTTTTTG
CTTTTACATTCGAGTCTAGTTTTTTTTGCTATAATTAGCAACAACGTGGTGAAGCCAAAAC
TGAACCAAAAAGGGCCAAAGCCTGGAATTTACATAACAATACATGATACATAAACA
CCTATACTTATATGACAGAAATGTGTCTCTGTGTGTGTAAGATTTACTTGAACCTGTGA
AAAAGCTAGTGAATTTATCTTTTGAATGAAAGTGGAAAGACAGAAACCCTTTCAATCAAAA
AGTAATAATTCAATGGAATGGGATCAAAGATCAGTCAAGATCCACAAACACCTTTTATGC
CAAATTCAAGAAAACCCTGACTGCAACTTGAATTTCTTTAAATCTGACATACTATACTT
ATATATATACATGTAATGTTTATACCTGGAAACTTGTGCGCCATAATGGACCTTTTCG
GACTCGAGTCTCTAAAAACCGCA

>RMYB59

ATCTGTCCTTGGTTTTCTGAAGTATTTGTTTATGTTCTCCATTTCTCCTTGCACCTCT
TTGCACTTCTCTTGTACCCCAATTCCATCATCCCTTGTGAGATTCTTTCCCAAAGTGGAC
CCTTCATCTGCCCTTCTTACTGTTGTAGCTCACCTTGCACCTCATGTTTATGAGGGCCA
ACACTTCTCCCTTGGCCAGCGGCTGGATATCGGGTTTGTCTTAAACTAGGGATCAATA
ACCTCGACGGTGTGAGCCTGTTGGATAACCTTGTTTGCATTAATGTGTTGATCTTGG
ATATTTTGGAGGAATTGGATTATGGTGGCCTGTCTTTCCTCAGCATTGGCTTGATCTTTGG
CCCTCATTGTCATCGCCGTTTTGCTTCTTTAATCTCTTGGATCTTCCATTCTTCTTCTC
TGGCCATCCTCTCTTCGTCCCTCTTGATAATACTTGCAGATTAGCTCGTTGTGTAGCTCCT
CCTGTCGCGCCATGACCTTATCCACAATGGCCTCAAATAGCCCCTCAACGCGCCACCT
CGCCTTCTTCTCTTCTTTTCGACTTCCCTTCTCTCGTCAATTGCTGGCTAGCCTTTT
TTGCTGCTTCAATATTCTCAGACACTTTAGCCACATCTTTATCTGCCCTCTCCTGATCAT
ATACTACAGGGACATCCTTTGTTTCCGACCCGGACCGCATTCCGGCTGAAACCTGAATTT
CTTCTGGATGATCATGAAGATAGGATTCATCAAGCTCATTGCAAACCCTGCTGTCTTGC
AGCTTATTACATTGTTGAAGTTCTTGCCTTCAAATTTTTCCCTCACTCTACTGCGCTTC
TCTTGAACCAATCTCAGCAAGCCTCCTTGAACATGTCCCAGCTGATCAATTCTGGCA

GGGATGTACAGCTCTCCATGCTAGATCTGAACTTAAACAGCTCAACAACCTTCTTCATTGG
ACCAAGGCACCACAGATCTCTCCCCTTGGGTGATACTATTATCAAGAGAAGAAGAAATTA
GGGAAGGGTCGAAACAAGGGTTGCAGTGAATGTGATCATCAAGAAGTGATGATGTTCTTG
AAGCATTAATGAATTGGCTCAAGTAGTCATGATGATCACTGCTGCACATTATTCCAATTC
CATCAAACATGGTTCAGATTTTCCCTTCTCTTAGCATCTTACTAATAATCTCTGCTGCA
CTAAAAACCTCTGAAACCAAACCTCGCTAGCTGCCTACCTACCTGTGTTACATCAAGA
TATTATTTTAGATATGACAGCAAATTA AAAACAAAACCCCATTTTTATTTCACAAGAA
AATAAAAAATCAGCGCCGAATACATCCCATCCACCACGAATTAGTGG

>RMYB60

TTTTTGTTGAAATTAATTAATTTTTTTTCTTTTTCTGGGTACTCTTTTTCTTTTTCT
GTTTACAATTTTCCCATTTTTTCCCTCTGCCTGAGATTGATGGATTCAAATCTCCAAA
AACAAACAAAAGATGCAACCTTTGAGCTCTTCTCATCATCCCTTCTTCCACCCTGT
ACAAACACCAAATTATTCTTCCCTCCATTCTCTTTTTATATTAACCTAATAAAGAAAA
CCCTCTCTGGATTACCCAAGAAACAGGGATCATAGTTTCTTGACACTCTTCTGTCATCA
TCTTCGTCAACTTCGCTGATTTCTTCCAGTTTTTCCCAATTAATTCATTAATTCATTCA
ATCCTGTTGATGCCAATTCGCTTCATCGCGGCATTCTGAATTGCTCGTTGATATTAGCT
TGCTGCATACACATGTACTGTTGTTGCTGCTGCTGCTGATTGTAGTGCTGCTGCTGAATC
TGTAGCTGAATGTATTGTTGCTGATGCTGCTGATTCTGTTGGTGTTGATGCTGGTGCTGA
AACCTTTGCTGTTCTAATCCCATCATGTAATTCCGCACCTCCGTCCGTATCATCTCCTGC
ATCACAGCCATCATTTCCGCGCTGAACGGCGCAAAGACCTTGTCTTGAACCGGCGGCGGA
CTCGGCACCTTGCTAACCGGACTCTGCGGCTGTATCGCGATGGGAATCGCCGCCGGGGT
GTCACCGGCGGCGGAGGAGGCGGTGGCGGAATATTAGGCTTTGCTTGAACGGCCTCAATT
TTGAGATTGGGAGATTCAATCGTCTCCGCTCCGGGAAGCGAAAGGCTGAGGCTCGTCGGC
GGATCATTACCACCGGTTCAATCTGAACCGGCAAAGCGCGCCGCTTCTCGCCACCGGT
TTATACACAAACGAACCGGACATAACCGGGAGGCTCGAATCGCTCGGTCCGACCCGGAC
GGGCTGCCGGGTGCCAAGTACAGGCCCGACCCGGGCACGCCGGAGCCGGCGCTAACGGAC
CTCTTCAGAGGCCGATCCGGCGGCTGGTCCGGCGCTGTCAAAAAAGCCTCGTCGGAGCTG
AAGGAGGAGCACTTGCCTTGAGGGTGAATTCCAATGATTCTTGATAGCGTTGTCCGGTC
CGGCCCGAGAGGAGTCCGGGCTATGGTAGCCATTTATTCCCGAACTTGGCGTGGGCCCCG
ATGATGGTTTTATCCTCCTCCGGCGTAAACGCCCGGTGCTCCACCTGCGGCGACAGCTGG
TTGACCACCGCAGGCGGCAGCTCTTCCCGGATCTCCCGGGATCGATTTGCTTATGAGG
GACCAATTCCTCGGGCCATGCTTCTGCACCAGTTGTTGTAATAACTCGTCTTCTCGGGG
CTCCAGGGACCCTTGATCCGATCCAAATCCATTTTCTTACAAAACCTACCCTACCACCA
CCGCCGCTCCGCTTGTAATCGCCGCTGCCATAAATCTATTCAATCTTGTCTAGTCTCT
ACTCTAAAAGACCATGAAATTTGGGAGGAAATTTTGAGGTGGTGGAGAGATTTTACATG
AGGGTGTAAGGAATGGGGGATTGGTATATATATGGCCATATTGGTTGGGG

>RMYB61

TAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAGTAATAT
TTTTTATATATTCAATAATCGAAATAAATCAATCTCCATGGAGCAAGTGCATGGACCAA
AGGTCTTCCATGCTCCAAAGGTTTTTCATTTCGAGTCCGGAGTGGGGAAGGCTGGGGCCTGG
AAATGTTCCATGGTCCCAGGAGTGAAAGAACATGCCGGTGAAGAGTAGGACATTTGATCA
ACAACATGATCCACGGGGCCGTAACCCAAAGAACTTGACTTGTGTTACCGTGATTAGCC
ATATTACTATTGTTTGTGTTGTTGTTGCTGCTGCTGATAATCAGATGAACTTTCGTTTGT
GGTTGTTTTATGTGTTTCTGAATTCGAGTTCTCCAAAATCTTGATCTCATTATCTGTT
CTTCCAGGGAGATATTTTGCAATCTTTGACCACCTGTCCCCACTTAGCATGAAGATCC
ATGATCAGAAGCTGCTCCTCCGGCGTAATATCCCTCTCTTACGTCGGGCCTCAGGTAA
TTCAGCCACCGCAGCCTACAGCTCTTCCCGTCCGCTTCAGCCAGCAGATCGAGCAAGT
GTGTTCCAGACGCCTTCGCCATGATTGGCAATGTAGTTCATGAGTATGAGGTCTTCTTCC
ATCGTCCACGGGCCTTTCCTCACTTCCACCTCTTCCAGATCTGCGGCATGCCTTCTTATTA
TCCATTGATTGATCTCACAAGCTATGGCTACCTTGGATATCGAAGATATATATGTGTGTG
TGATATGTATGGATGAATGTGTGGATAGTTGTGTAGAGAAATTGTTGAATTAATGGGTG

TTTTAGTTATTTGTGTATGTGTGGTGTGAA

>RMYB62

CCGAAAATCATGTAATGGGCAAAACAATAAATATGAAGTACTTAAATTCCTCATCCCTTT
TCAACCAGAGTCACCAAATACAGTATGTTCAAGTTGAGTAACACCACTATGGTCCATCGA
GTTTAAAGATTGAAAGTAGAGCCTCGAAATACGTCAAAGTACAACAGCTCCCACCATCC
ACCCCTTTGCATCATTTAACAAGGCAGCAAAACAACAGAGTAGGAGCGTAGCAGCAGTGA
ATGGCCAAAAAACA AAAA ACTCTCAAGATAGCTGCATTTCCACCTTTTCTCAAATCCTT
GATCTTGCCAACAAAACTAACCATCCATGGCACTGTCCAATTCGAATGAATCACCTGTG
ACACTTGCTCCGCCATCTCTCCATGTTCCGTAATTGGCTGGATGTGCACATCAGCAACA
TCCAGTTGTTGGCTTCTCGTTTCATCAATGTTGTCCACTTCCATTGAGGTTCTCTCATCC
GAAATGACAGCAGGCTCAGGTTTCCAGCATCGGAAGAACTGATTGATCCAAAGCAGCT
TCAGGCTCGACCGGTACCACATCATTGTTTTCTGCAGCAACTTCATGATTGGAAGTTTCA
AGATCTGGTGCAATAGATTGATTGGTCGCAGCATTAGCAGCTTCGTCCAATACAAGGACT
TCATCATTGGGAGTTCCGTCATTTGGTGCAACAGACTCATCAAGAGTGTTAATCTCATTG
ACTTGAGGGTCATCATCTTTCTTCGCAGCATTTTCTGCTTCCTTTTCTGCTTGCAGTCTG
TATGCACCTACCAAATTCTGAACCCTTTCTAGTTCGGACATTAGATCACCATATCGCTTC
TGTAAGTGTCTCGAGGTCCTTCTGCTTCTGAACCTCTTCCCAAAGATTTCCAATCCTG
TGTGTCGCTGCGAGCTGCTCTTGCTTGTGCAGAACTTGAAGCACTCAAGTTCAGTCCCT
GCAGTGTCCATTTGCTTGAAAGTTGCCTCAATTTGAGTCGAGAGTTTCCCGGCTCGCATT
TGATAGCCGTTGGTAAGA ACTTTTATCCTCTGCTCTAGCTTTTGTGCTTTTTTTGTCTCA
TTGTCCATCTCCTTCTTCACTTTATCAAATTCATTCTGCAAAGCAGCAATTTTCTCCATG
TTGTTGGCAACACTTGATAGACCATAGCCGTCACGGGTAGGGAAGTACATCATGTCAATT
AAGCATGTCTCATGTGCTTCAACATACTCATCGAGAGATTCATCCTCATGGCCCATTGCG
ACACGAAGAACATCAGATTCATTCTTAATTA ACTCATCAGCCTCTTTCAGTTCATTTTCT
TCAAAGTCGTCAATTGAGGGCACAGGAGCAGATTTTGCTTTGGCACTGCGCTTGCTACCT
TTCTTCTTCTCCTTGCGACTTTCTCATCCAAGGGATATTTTGTATTGTCATGCTCTAGC
AAGGATAGTAGCTCCTTTCTTATTAATTCATCAGCTTGCTCAATTAATGTGCGAGGGACA
AAGGAGCTCTTGTCTTCATCAGCTCTGATCAAAGAGTTTCTAATAAGGTCCAATGAAGCA
GTAGGTGGTCTTGGTAGCTCCCTCTGCAGAACTTTTGATCTTTTCTTGAGTAATGCTTGT
AGCCTTGCCTCTCCTCTGTTTTCTCTTAGCAGTTCTATCAGACATATCTTCTCAATT
TTCTTCTTGTTCTTCTTCGTCTT CAGCAAAGGGCTGGATAACTATTTGGTATTCATT
TTAGGCTGTGGAAGATTTTCAATCCAGAAAGCAGTTCTTTTTTTGAATCAGCTTGCCTT
AATTTGTCGCTGTCAATGCACATCCATGTCTTCATTAATGTGCAGCTCATCCCTCATTGGA
GTTCTTTTGGAGTCATACTGAGTGAATATGCATCACGTGAAGGGGTCGTCCCAATTCTA
GGAGTAAGTCCTTGGCCTCCAGGAGTTGCTGAAGGCGTCAACAGAGGATTAGGTGTTGCA
ATATCCTTTTTCTTAGGTGTA ACTCCAGAAAAATCTGAAGGGTGCAACATTGGATTATCT
CCACCAAGCAAGGGAGTCTGAGATAGAGTCAGCCTGCGTTGATTTTCTGCTTCCATCATA
ATGGCATCCTGCTTGCCGGCAGGAGTTCTCTGAGGGGTTCTCATCGGGGTCATACCCTGC
CTTGGAGTCTGAGCATAGCTAGCAAGAAGAGCACGTGTTGCTGCATTCCCTTCTGTTAGC
TCTTCAATTTCCAACAAGATCGCTAGCAATGCCATCTTGGCAATAGCATCCAGCTCATGG
TCTGGAATCTGCGGAGCAGGGAGATTTAGTTTAGACCGTTTGCGA ACTGTTTCAGGATCA
TTAAGTTTGTAGCTTGCATGATTGCTGCTGGAGTATCCTGCCTCTGAGCTATTTTATTT
TTTGCAATATCCTGCTTTCTTAGGCGTGCTTCTCTATCTACTCTCCTTTCACCTTCAAGT
TCTTCTATTGTGGTCGAAACTTGACTAATTCAGTAGGTCGGTCTTCTTCAGTAACATCA
TAAAACCCTGGAGGCGGCCTCTTTTCAAAGGGGATTT CAGCATTATAATCAATTCCTCTT
CTCTTTCTTCTCCTGTGCCGAACATCAATGCCAGCTGCTTTTAGTTCTCTACGTTTCTGC
AATGAAGCAAGCCTCCGAGCCTCTTCAAGCTGTTTCTCTCTCGCTTTTCTTTTTGCTTTC
TTTCTCTAGTATTAGCCAATCTTGCCCGTGCTT CAGAAAGCATTCTTTCTCATCTTCA
TCCATATCCACAGGATCAGGACGTGCTGGCTTAGATTCTGGGTGGGGTCAATCTCTCCA
GGACGCAATTTTCGTGGATCATCTCCAGGTT CATAGTTCTCATCTTTAGCACATGCTGCA
TCTAGGAGTTTCTCATACCTCTCCAGGCATTGAGATGGAGTTCGCCCAACAATTGGGGCA

ATAGTTCTCCATTGAGTAGGCATAAGTTTTGCAAGATGCAATAATTTCTCATCTTCTTCT
CGAGTCCACTCAGTCTTCTTAATGGAGGGGTCAAGCCACTCGTACCACCGCGCCTTGCAT
TGCTTCGCAGATTTTCGAACCAAGAGCGAAGAAATTCTGGCCCACTGATTTTTCCCATAC
TTCATAACCGCCGCTTCAAGATCTCGTCCTCCGTGTTCTTCCATACTCCACCCTTGATC
ATAATCCTCATTTTGCCGGCAGAATTGATGAAGACGAGGAGCAGAGAATGGATTGAATTT
GATTCGAAAAAGGGGTTCTTTTCAGGTTTCTCCGTTCCCAGTCGCAATGGCTATTGGCTAG
GGCTGCTGCAGGTTTACCATGGTGGATAGGTGGGTCTTTCCGAATTACTACTACATGACT
AGTACTACTGCGTTT

>RMYB63

CACCCGCAGTTTTCATTTTACCAATACTTCAACCAGCTTTTGCAAAATATGTAATGAATG
CATGATGAAATGAATCAAGCATAATTTTAGCTATGGAATAACTTCCAGTACTCTAATACA
TTAAAATCAACAAGGCGACAATACCATCAGTTACATGAGAAGTGCATCTGAGCACTAAAA
TTATTGAAAACAAAGAACCACCAGAAACCAGAGACATTGACACGGACGGATCCATAAACA
ACGACTTGACCATAACAGAAACCAGACCACAACGCAAATCTAAACAACCATGACAACCTG
AATCCAGGCACAAATCTGGAACACAGAAAGCGCTTCACATTACACCTAATTTGAAAATGC
TAAATAAGCATTATACTTCAACAATAACAGAAACAACATTTTTCACTCAGAAGTCCCAAC
GCCATAAAGTCGAAGAAGTGGGCTCTTTGTGGCCGGCTCCTTGCTGGGGCTGAGCAAC
CGGAAGACAGATCCCATGGGAAACAACAGAGTTGGCATCAGACATTATGGGATTTCCATG
ACTAGTCATGTGACAGTAATAGATGTTCAACCGATTAGCGCCAATAGGACGAGAAAGTTT
GTTCACTGTTCCACCCTTGCCATGGCCTGAACCAGAGCCACCAGATATTAAGGACTTGC
TTGTGCATTTCATGGGTGTGCTAGTGTAGGGCGTGAATCCAGGGTAGTAATTTCTGTGGG
CCCACCCTTGAGAGGGACATGAGAGTCAGAGCCGGAAGATGTGCCCATGGTTCTCTTGCG
ACTTCGCATCAGCACATTGAATTTATTCTTCAATTGATTATCAGTTCGGCCACGGAAGTG
TTTGACAATTAAGGACCATCTGTTACCAACTTCTTTTTGCAAAATGTAAGAGCCTTAGCTG
CTCTTCTTCAGTAAAGGGTGCCTTACAGACATTGGGACTCAAATGATTAACCCAACGCAG
GCGACAGCTTTTTGCTGTTCTTCTTCCTTCGATACGGTGCGCAATGAAATCCCAACCTCCAGC
ACCAAACGCTTGGACAAATGTAGTAAGGAGCGCATCTTCTCGGCTGTCCAATGGCATT
GCAGTAAGGCTTCATCCTTTTCTTCTCAGCATATGTTTTATTTCTGGAGGTCATCAC
TCCAGAACTGACTACCACAAGATGCTCTGTGGCTTCAATGAAAATTTCCATCCAATATA
TAGAGGACGGAGAAATAACTACATAATAATGTTTATATGTAATAAAATAAATTGCCTG
ACAATGAGGCCTGATTACAAAAATCAGCATGAAAATTCATAAATTCACCCTCAAGTCAA
ATATGAAACGGAAGAATAAAGCCCTCAATGTCCTTGAGAACTCTTCCATGTGTCTCCA
TAATTTCAGAATAGATATACCTCACATTTACTCGAAAAACTCTAGACGTGAAGAATGAA
TCCTTGGTTAAATTATTTTAAAAATAATTATTGCGAGGGTTTAATTAAGGTCATATCTAA
TATACAATCTAGCGCAATTTCTTCAAATAACACTAGGAATCTAATTATTGTTAACTCGA
AATAATGTTTAGGCGAGCACTGCTAATATTTCTTCAAATACAATTCAATCAAAGGAATA
AGAGGGAAACCACCAGCCACTTTATGGGGCAGTCTAAAGGCGACTTGGGTGACATGAATA
ATCATTTTTGGGTGTTGCAAGTGCAGGCAAATTTTGATGTGCACTTAAATCTTATTAATA
TAAAAGTTTCATGTGAATGTATTTTTACATCCTAAGAAATTATTAACATAAACTACCACA
GGCAACTTTTTAAGAATAACATTCATCCATACATGAACATACAAAAATTTAACAATTCA
ATCATTATTCAGATTTAAATTCAAATTATAATTTATTTATACAAAAAACTTATACGTA
AGACAATTCATAACAACCTGATATGATATATATATATATAAAAATATTTTTATGATGA
AACTCCAAATTTGATTAGTCTCAT

>RMYB64

TGTGGTTTTGTCCTCATTAAAGTTTTGGTACTGATCATCCGCTAATTCTGTTGGCTGCGG
CGGCAACTGGTCGGTGGTAGTAGGTGGCGGAAGAGGCTTGTGGGTGAGAGGGTTCGATTCC
CATTTTCTTAGTTTCTTCTTGATGTGGGTGTTCCAGTGGTTCTTTATCTCGTTGTCTGT
TCTTCCAGGCAGATGTGAAGCAATTTGGACCATCTGTTTCCAAGCTGGGCATGGAGATC
AATGACCATTTTCTCCTCATACTGGGAAAGAAGCCCCCTTCAAGTCTGGTCTCAGGTA
ATTTGTCCATCTCAATCTGCAGCTTTCCACACCTCAGAAGCCCTGCAAGTTTAGGGAC
AGCCCTCCAGCAGCACTGGCTACCATTTGTGAGCATGAAGGCGATCAGCTTCTTGTCTTC

ATCACAAAGTCCATGGCCCTTTCTTCAGTCCCACCTTTGTCACAA

>RMYB65

CCTCTATGATCCCCATGAAATCCCCATCCTGCCCTTGTGCACCACTTTCATCGAACAGCC
ATTTCTCCAGCAAACCTCAGGGGCATTACAGTCATCCCCAAATTCGACGAATCGAATCCCA
CCTCACTGGGGCTCTGCAGATTATTATTGCAGCTCTCCGATGAGCCGGCGGCCTGGTGCA
GTTTTGGGGAGTCATTGCTCTTCCAGTTTTCCAGTAGCCGGCGATGTTGTCCGCGTTTA
CTGCATACATAGATGTCTGAATTGGCCTAGTTTGGGTCGTTGGACTTGGGTGCTGATCAA
CAACGGCGGCAGAATCGGATTTATCGAAGGAGAGAGCCTCAGAGAGGGCCTGTTTGGCCG
TCTGAATATCGGTTTGCAGCCTCCTCTCCCACTGACCTTTGGAAACGGCAACCTGTTTCG
AACGGGAAGAATTATTATTTCCATCCACACAAACATGGCCTTGAGTTTGTGCTGTTGCT
GCTTCCCTAGCTTCTTCTCAAGTGAGTATCCAATAGTTCTTGACGTCGTTGTCGGTCC
TGTGGGGAAGATAGGAAGCTATTGCAGCCCATCGATTGCCTAGAAGGGCTTGGAGATGGA
TGATCATCTTCTCCTCGTGTTTCGGAGAAGTTGCCACGCTTGATGCCCGGCCGGAGATAGT
TGGTCCACCGGAGCCGGCAGCTCTTGCTGCATCTCGACAACCCTGTGTTGGAAGGAACAG
ACCTCCAATTGCCAGGGCCATGTTTCGTGAATGTAAGAAACGAGGATGATATCTTCTTCAG
GAGTCCATGGCCCTTCTTTCACACCAATTCTCCACAGCAAGGAGCTACTGGTCTGCCCA
TTTTTCTTTCACTACTGCTACCTACTAGAAGTATATGTATATACACACTACTGTGACTAA
AAACAAGATTAGTTGTGTCTTGTGTTAATTCCCTGTTTTTGGTGTTGTTGGCTTCCACT
TATAATGGGTAGGGATTTATATACATGGGTTGTGAAACAAATTTCCAGAATTGGTTGCTGC
TGTTTTTCTTTTGGGGATTTGTGCGAAGGATGGAATGAATGTGGGGTGCAACTCTGATTG
GCTATCAGATC

>RMYB66

TCCCTATCTTCTTCTGCTGATTCAATTGGGATCTCCGCTTCAGCGTCGAATTTCCAATGAT
TCTTAACCGCATTGTCCGTCCTCCCCGGCAGCAGCCGCGCGATCGTCGCCAGCGGTTGC
CGTACTTGTTCGTGCGCCGCCAGGATGGCCTCGTCTCCGCCGCCGTGAAGGGGCGGTGCT
CCACGGTGGGGCTGAGCTGGTTGCACCAGCGTAGCCTGCACGATTTCCCCGATCGGCCCT
TTATGTATTTGCTAATGAGCGACCAATTCCGGGCCCCGTACTTCTCCACCAATCGCGTCA
GGATGTTGTCTCCTCCGCGCTCCACGGCCCTTTATCCTCTCGGACTTCTCCCCGACA
CCGTTCGATGAATCCGACGAGCACGACGAACTCCCCGACGAACATCGATTCAACATTTCCA
TTCCCCAAATTTTCTTACAAGAAGTCAAGAACCCTTTTTTTCTTTCAGACAAAGGTATTG
CAAGTGGGAT

>RMYB67

GTTCAATTAATCTTTCCGTTTTCTCAAGACAAGGGGTAAGAAAATAACTGCTTTCTTCA
ATGGAGTTGTCGAAAATGCTTCGCCTTTTCTTGCTCTGCACCTCCTTCTTGTGACGCTCG
TAGTACTTTTGGAGCATGGCTTGTACCTGGGCAGGGCTTCTTGTCTAACAGAATACCTG
GAAATGCTCTTCCAATCCCCTTTCCCATATTTCTTTAATCCAGCCAGAAATGCCTTGTGT
TCGTCGTCGGTCCAGGCTTTGGCCGCCTTCCGCTGGCCGGTGACCGGCTTCTTCTCGCTT
TTAGGGTTCCGGCGATCGGCCTCCGACGACGATCGCAATTTCAATTTTATTACACCCG
TATTTGGGCAAATCGACAAGGCCGGCGTCGATCGCCGCCACGTCTTCCAACAACACGGCG
TAGTGGCGCTCGACCTCGGCCGGCGTCTTGGTCTGCATTTTCTCGGCGATCCTCACCCAC
CGGTTGGGGTAACCGTCGGGGAACCTCGACCAACCCGTCCTCGAAATCCTTGTCTCCTC
CACGTCCACGTCGACGGAGTGGCGTGGGCATCTCGATCGGCGGAATCCATTTTCCCCTGC
GTTGTGATAATCGATTGGAAAACAAGAGAAGAAATGGAATTGATAATTTGATTGATGGG
ATTTGGGGAATTAATGGGAAAATAAGCAGAGAAATGGTGCAATTACTGCAGAG

>RMYB68

AAACATGAACTCTCCGATTCATAAATTATGGCAGCAGAGACATCTCTGTTATCCAATCGC
CTCAAAGCTTGAGGCAATCGGGCACCCGCCGCTCGCTCCTCCCCGAGTACGACTTCCGT
TTCAGCGTCGAATTTCCAATGATTTTTTACGGCGTTATCCGTACGTCCGGTGAGCATCTTC
GCAATCGTCGCCCACTTATTCCCCTGCACCCGCTGCGCCTGAACAATGATCTCATCTCC
TCTCCGTGAACGGCCGGTGTCCACCTCCGGCGCCAGCTGATTGCACCACCGAAGCCTG
CACGATTTCCCCGATCTCCCCGGAATCGACTGGCTTATCAGAGTCCAATTCCTCGCGCCG

TGCTGCTGCACAAGTTTCGTCAGCAATTCATCCTCCTCCGGACTCCATGGCCCCTTCACC
CGCTCGGGAACCGCCTCCGGAGCCACCTTCTTGGCCATCGCCGCCATTGAAATACAGCAA
CAATTTTGAAAAACCCTAATTATAACTGA

>RMYB69

GCAGTCAAGTGACAAATTAATCTTTCTCGAGGACATGGTTTTTTTTTTCCTCAGATAAGTTC
TCCAGTAATTCTTGATCTCATTATCTGTTCTTCCTGGCAATCTTTGGGCAATCCTCGACC
ATTTGTTACCCCATTTCTCATGAAGTTCAACTATAGTTCGCTCTTCTTCTGCAGTGATGT
TACCATGCTTCAGATTGGGGCGGAGGTAGTTCATCCACCGCAGCCTGCAGCTCTTGCCAC
CCCTCTTCAGACCTGATGCTTTTGCTAATGCATCCCATCTCCTCTCCCCCAAGACAGCTA
CAGCATCAGCCAACCTGTTGGTCTTCTTCCAACCAGGGCCCTTACGCAATTCGGCTT
CCTGCATGACAGAACATCTTGCAATTAGCACACTAGTGGAAATTTCCACCATGGGGATTGGC
TTATGTGACTGATCTTGAAACTTCCACTATGCCATTAGATGAGTTTTGAAATTATTATAT
ACAGTTGAAATTTCTTATGCTACAAATATATTGAATACATGTATGAGTTTTATCCTCATC
TGGATTACAACATCAATACCTATCTAATCAGAGATAAAGGAAGAATTTGTACCTCAATGG
ATAGCAAAGAAACCCAAAATCTTTCTTTAATCATCTATCGAATAGATTACTTGACCATTA
TCTTGTTACTCTCTCAATGTTTATGCAGTCAAGTGACAAATTAATCTGGCAGACAATAGA
TTTGAACCATGAGAAGGGGTAAAACATAGATGGAATAAAGTATAGCATTGCAATGCAACC
GCAGTTTGATTCTACTCTTCAATGTACAGAGTTCACATTGCTACAGCACAATGTTTGAA
AGGAAAACAGAACACATATGGATTATCAAAAACAGAATGTCGTCACAGTCTACATTCTAA
GAGTAGGTCCCCCAATAGGATATGTGATAGTCAACTCCAGCAGGAAACAACAGACATCGC
GCTGCTTCTCAAGAATACCTCTAACGGTCATCAATAAATGCTTTATTCATAAGTTCTAGC
GCCGAATCCATGAACCTTCCAATTGCCTTGAGTTCACGGCCCACTGGTTCCATAAACTTC
AGGTCAACTTCAATGGGCCATACCTTAAGACCGAGTAATTTGATAGGCGTAACTTGTCCA
GGCACAATACAGTCAGGACCAGCAGCTTCGACCACAGCCTCTGTTCCCTAATCCACTCCCG
ATTGGATCATCATGCTTGATAACCGAAAGGGCATAAGTGGAGTAAGGGGTCTGGGGTAGG
CGAAGAACAGGGGAGTGATGAATTTTGGGAATAGGCTTTGCAGCAGACGATGCTCTCCAT
GGAACATCTTGTGGCAGGGCAGCTCCTTTTTTCGACATTGTTGCAGTGCTCCTAGCACTT
GTCGATGATAACTGCAGGATTGCGCCAAAATACACAAAATCACGGACTATATCCGTAA
AAACACCAACTTCAGAATAAGGATTTGGTGAAGATAAGGATTTGTATTTCTTTTTCCCT
AATGAAGGAAATGCCGAGCGCCGAGCGGGGAGGTAGGCAGGGCCGGACTTCGG

>RMYB3R-1

CTCTCTTCAAAAATCTCCCAATCAATAGAGAAATCATGCTCAGGAAACTTGTACCCCTGT
TCACAAGGTAATCTGGTATCAAAAATGCGGGTCTTGAATACCGGACGATAATCTTCG
GCGGAAAAGGGAATTAACCTTGTATCTTCAAGTGTCTGCATTCCCCCAGGAGTGCAATT
GTGTTGTTTATAGACTGAGACATACTAGCAATGGCTGAACCTTGACTGCATTGAGAAGCT
TCTTCAACTTCTACTCCACCTTCAAGAATATCATCTTCACTACCTTGTTTTCCCTTGAA
GACGAAGAAGCTGTCAGGTGATTGGAATGACTGACAAGGGGAACATCTTGGAGCTGTTGA
AGCACCCCTGAACTCATATACATGTCCAATTTCTTCTGACAGAACTATTCCAGTGATTT
TTTATTGCATTGTCAGTTCTCCCGGGCAAATACTTGGTTAACTCTGCCCACTTGTTTCCA
TGCATTTGATGAGCACGTATCAAAAATCACCTCTTCTTCTTGTGTCCAAGCATCTCTGTTT
ATGTTGGGATTGAGATGGTTGTGCCACCTTTCCCGACATTGCTTTCCAATTCGTCCAGGA
AGATTCTGCGCAATTGTAGACCATTTTTTGGGGCCATATTTCTCCACCAATTCAATTATC
TTTTATCCTCCTCTTTGGACCATGGTCCTTTGACAAGATCTGGATTAAGAACCTTCTGC
CACCTATGTAAGCACTGTACATCTGTTTCGATCCCTGAAACACTCCGCTATCTTTTTCCAG
TTTTTCTTTGTAGC

>RMYB3R-2

CCATTTTAGCTTTTTCGCTGATATTGTGCTACACACAAAATAAATGAATAATTTCCCCAAA
AGTGAGTGAAAATAAATTTAGGCAGCAATTTTTGCCAAGTATTCGAAACTTGAAATGGGA
AAAAAGTTCCAATAATTTGGGAAGTATGTTAGAGGTTTAGGGTTTCTAAATGTGCACGAT
AAAGATACCTTCCAGGTAGAAGCTTAGCTAATTCAGCCCATTATTCCCATGAACGCGAT
GAGCATTAAGCAGAGTAAGCTCCTCTTCAAAGTCCAAGCATCCTTTTTAATATGTGGAT

TCAAATGATTATGCCATCTCTCACGGCATTGTTCCCTATTCGACCTGGCAATGACTTGG
CTATAATAGACCATTTTGTAGGTCCATATTTAGCTACTAGTTCTGTGATCTTATCATCCT
CCTCTTGAGTCCAGGGACCTTTAACAAGTTCTGGATTCAAACCTTTTGCCATCTATGCA
AGCACTGCACTTCTGATCTATCCGAAAGAAGTCTCAGCTATTTTCTTCCAACACTTCCCTC
TGAAAGCTGCAACTGCTTTTTTTAACGTAGCATCCTCCTCTGGGGTCCATCCTCCTTTTG
CTCTTCTAATAGGGCCAGAAGTTCTCTTGTGAGCTGGAGAAGTACTAGAAGGGCTGCTTA
TGCCGGTTGACTTTAGTGCTATGGTGCTACTATTCTCCGAAACAGAAGAGCTCGAATCAA
CTGTGATATCCTTGTCTCGAGACAACGGTCATCAGATTTCAACCCTTCCATTAATTGCT
TCAGATCATCAAACCTCCAAATTCCCAAACCTCCTACACTCACGAATTGAAGAACCAGCT
CATCGATTCTTGAGCCCTAATAAAACCGCAAATTTGTGTGTGTGTGAGAGAAAGAGGGGA
TTCCGAGTTGCGAGAAACTTTGCCGTTTCAT

>RMYB3R-3

TTTTTTTTTTAAACCCTCCATAATGCAGAGAAATTTTATTCCGTGATTAAGAGAAATGTA
ATCCCTAGAAAAATCCTGTACAGTTAAGTTACAGCTTTAGTTAAAACACAATGGAGATG
ATCTTTTTCTTGGGTAGAAAATTC AATGATACCGCCATATTCTTAAACAAAGTCAGGACA
TGCTTGACATGAGGGCTTGGCTTCTCTTCTGAAAGGTTTTTCAGCGCTTTGGCTTCTCTG
TCTTCAATTACATTTAGCAACTGAAGATTTTAAACCCCGTCTTTGACGAGTGTAGACAAA
TTTTGTTACAGGACGGGCTTCTTGGACCTTAGAGTCTCCAGATTTTGTATTGTTGTTGCA
GGCTTCTTGGTCCGTGATAGTTGTAATAAATCAAGCTGCTTCTCAACAGATTTATGAACTGA
AGTCCTTTTGAAATTTAATCGATATGGTGGTGAAGAATTAGGTGACTTATTGCTGCTTAC
TCCATCTTCATCATCTGAAACAGGATCAGCACATGAAGTCTTACTTTGCAACCCGGCATT
CTCAGAGCCATTTGTGTGATTATGCTCACCACTGGGTACAACACTAGTTCCTTAGGTTGCAT
ATCCAACCTTCTTCTTCTTAGAATGGAAGGAGTATTCCGAAAGCTTTTTGCGAGCAATTCT
CAGTATAGATTCAGGGGACTGCGCAGAGAAGTTACCACCTCTTACACTAGGTGGAGTAAA
CAAAGGTGTAGGTGGTGTGCGGGGCAAGTGTCTGACTGAGATTGCATCAAGGAAACATT
TCTAAGGGTTGAATCCAGTTGTCCATAATTGTCAAATGTTTGAGGCTCATAACATAGTGT
CCCATGTACGGGCATTTTATAACGCAACGATGCTTTAACAATGTTATATCGACCAACTCC
ACCAAATGTGTGTTGTTTCTCAAACCTCAGATTTCTTGGTTGGATTAACAGCCCCTGATTC
TGATTGCATTGCCTCATGATGCTTGGTGTCTCTGGATTGGTGGGCTCCATCTGTGGATG
GCTAGCGACATTATAATCTTTGGACCTCTCCTCTGGCATATCAGTCTCCTATCATCAGC
TTTACGCAAATCAGTAGTTTACACGAAGCTAAGTGTGCTGAATTTGACCCCTTATTGTA
ACCAACATGTAGTTCTCCAGCTGAGGCAGTCTTATGGATGTCTGCAGCAGCATCATTTAG
GGACACACATTTAGAAACAGGAGGAAGGTTCCCTGTAGCCAGATAAAAATCCAACCTTTTT
CTTTAGAGAGCTATTCCAGTGATTCTTGATGGCATTATCAGTCTTCCAGGTAGAAGCTT
AGCTAATTCAGCCATTTATTTCCCATGAACTCGATGAGCATTAAAGCAGGGTAAGCTCCTC
TTCCAAAGTCCAAGCATCCTTTTTAATATGTGGATTCAAATGATTATGCCATCTCTCACG
GCACTGTTTCCCTATTCGACCTGGCAATGACTTGGCTATAATAGACCATTTTGTAGGTCC
ATATTTAGCCACTAGTTCTGTGATCTTCTCATCCTCCTCTTGAGTCCAGGGACCTTTAAC
AAGTTCTGGATTCAAACCTTTTGCCATCTATGCAAGCACTGCACTTCTGATCTATCCGG
AAAGAAGTCTCAGCTATTTTCTTCCAACACTTCCCTCTGAAAGCTGCAACTGCTTTTTTTAA
CGTAGCATCCTCCTCCGGGGTCCATCCTCCTTTTGCTCTTCTAATAGGGCCAGAAGTTCT
CTTGTGAGCTGGAGAAGTACTAGAAGGGCTGCTTATGCCGGTTGACTTTAGTGCTATGGT
GCTACTATTCTCCGAAACAGAAGAGCTCGAATCAACTGTGATATCCTTGTCTCGAGAGA
ACGGTCATCAGATTTCAACCCTTCCATTAATTGCTTCAGATCATCAGACCTCCAAATTCC
CAAACCTCCTAAACTCAAAAATTACCAAATCCAATATATTAAGAAGTCAAACGCCCCA
TGAAAATTCTAATTCTAATGACCAAAAAAATTTTCCAGCACTAATCCTATACCATGTGAGT
CCAGATCTCAAAAAAAAATCGATAATTAACAAAAACAACCGCCTAATTCACAAAAGAATC
TTAACACATAAATCGCCCCAAAAAATTAGAGAGGAAAATCTCAGACAATTTTTCGGTTAA
TCACAGCTCGAAAAAAGACACAAAAAACATACTAAAACGATCAAATAACGAATTAATA
AGACACAGTAGATAAAAAATTACAAAAGTTCGAAAGTTCAAGGATCTTGAACAAATTACC
CACCAACT

Part II. the protein sequences of RMYB gene family.

>RMYB1

MEIYACNRWMHMPDSPAPPWNRQEDKIFEKALVEFPDGIDDRWQRIAGFLPGKSPDDVRA
HYEALLHDITEIDSGRVELPSYSDGSTSIECERGSSSSGQISFGSPNAGSRSRDAERKKG
TPWTEDEHRLFLIGLDYRGKGDWRSISRNVVTRTPTQVASHAQKYFLRHTSGKKERKRS
SIHDITTAMDSLPMAPTNLPSHDGRGGFESCSFMPR

>RMYB2

CREKFENVYKYHKRTKDGRAAKSDGKTYRFFDQLEALENAPPPNPFTPPRPAATASLSTM
PAHVTVSSISPTPLSVVPPQAAASIPIDSSPLIAQPPPQPPLMQHLRNSSVPPQGLNFQA
SRPGLMSDSTSSSTSSDEDIQRRRGRKRKWKDCFHRLVRDVIQKQEELQKKFLDSLEKRE
RERMAREEAWRVQEIARVNRHDLVQERSIAAAKDAAVIAFLQKVTDQHNLQIPPVAAA
AEPPPPPPQPEPPPAPPAPTTQPAPAPITVPPPAKVFNNSKTDNNGGEVAGYSPAASSS
RWPKAQVQALINLRSTMDLKYQDNGPKGPLWEEISSAMAKLGYNRSSKRCCKEKWENINKY
FKKVKESNKKRPDDAKTCPYFHQLEAIYKERAKEVNNNNNPMVPIMAQPEQQWPINLHRQ
QLPDSAMQDQDNRDNESDDHNINDEDDDDDDDEGLGFEILANKQHSSVANAAQES

>RMYB3

MESYNTPFENDQNVPLPASFPIHNICSSNPLSSNQDILHLDELALSSIIDRQSNPIDPFD
PFLNKYMPYEGNGYSSAVMQHIQGEQNQITDMNMQNFKGDGFLSFPNEVDSLNGIEAALN
YPDFMRLEYVNTDESSFVSADAFGLKGNSTDTRKSCNADNSDGGSNVSKPVKGLWTLLE
DRLLVNLVKIYGAKRWTFMGQKLGRTGKQCRERWRNHLQPDIKRDDWTEEDKKLIEAH
AELGNRWAEIAKRLHGRTEIKNHWNNTTKRRKLTGRCCKNKSPIPTSALQDYIMSLDSK
KGSSSSNSNSNSNKSINSQA

>RMYB4

MGRPPCCDKLGVKKGPWTPEEDIMLVSYVQEHGPGNWRSVPPNTGLKRCCKSCLRWNTNY
LRPGIKRGTFTDHEEKMIQLQALLGNKWAAIASYLPERTDNDIKNFWNTHLKKKLDRIQ
PGSGNRPTENGSSKPIRSGQWERKLTQDIHTAKQALANALSVSTSESIDEDVMTNPNFAP
NPIQTTSYASSTENIARLLKDWANKTPKCEEFSNYNYSSCSTEEVVAGGADLGEGLFGFE
SFESYSSLSSDDFSRSGSPKPDPEGVLALEKWLLDDQGIQGLFDS

>RMYB5

MSITSEDERMAGSGVDSVDDANSGGTTTTGPNGLKKGWPWTS AEDAILIEYVNXHGE
GNWNAVQKHSLARCGKSCRLRWANHLRPDLKKGAFTEPEERRIELHATLGNKWARMAA
ELPGRTDNEIKNYWNTRIKRRQRQGLPLYP

>RMYB6

MGRAPCCSKVGLNRGAWSAMEDSLLTNFIQQHGEGQWRSLPNKAGLLRCGRSCRLRWMN
LRPGIIRGNISEDEEDLILRLHRLGNRWSLIAGRLPGRTDNEIKNYWNTHLHKKGAAAI
TLAIPPRELSKLESIEQKQNDKQKQKILDPGGHNDAL TARKEKENDTPNKTRVYFP
KPIRVSELSTGSYNSLASGTSCGSDKAAEDVRREWPALLEIEDATFGVYNGDGEEAHF
LDGGEALIPVLTHSEISDDVEMLEK VYDEYLQLL

>RMYB7

MGRSPCCEKAHTNKGAWTKEEDRLVAYIRAHGEGCWRSPLKAAGLLRCGKSCRLRWINY
LRPDLKRGNFTEEEDEVIIKLHSLGKWSLIAGRLPGRTDNEIKNYWNTHIRKLLSRG
IDPTTHRPMNEAAADRETLKTTTTTISFSGGCSRESEDQKIIVIRKDEDRRGATDQRCP
DLNLELRISLPCQDADGFATPGGSDTDSANSCFACRLGIRNSKDCRCGGGGDGGGGRRGNS
GYDFMGLKTGLLDYRSLEMK

>RMYB8

MCVCLPKSTIPSCPNSEAKEANLSPIKRQNYWKSPWPLHQILHKMGRAPCCDKANVKKGP
WSPEEDAKMKDYIHKNGTGGN WITFPQKAGLKRCGKSCRLRWLNYPDIKHGDFSDDED
RVICSLFARIGSRWSIIAAQLPGRTDNDIKNYWNTHLKKKLMGMVNTHQAAAAACPLLPC
NNNNPQMPSSYECGYSNFYPCSQIRTLSTGVELEAMSPSFHPISNSSSNCNCNSLIYGGD

QPSCSSSEKSCFQGCNFGNFKGDGAEDHKLIISSSGCQVNYSVVEIKELISCNNGVGVND
GSSFLMNGTNMMIK

>RMYB9

MASGKSIQLITYHEEIVDGEPIYVSSNSLPIKALNLEPAGHSFNAAALRLVGHCVEADTG
DDDDGKGAPNEKEHVYVESSDSYGSKGKKKSGEAKQQDHYALLGLSHLRYLATEDQIRKS
YREAALRHHPDKQAALLAEETETAKQAKKDEIEGHFKAIQEAYEVLIDPLKRRIYDSTD
EFDDEIPYDCAPQDFKVFPAFVRNGRWSVTQPIPTLGDDKMPIKEVDSFYNFYWFYFKS
WREFPHADEYDLEQAEGRDHRRWMERQNLKLEKARKDESARIRTLVDNAYKRDPRILRR
KEEKAQKQRKKEAKLMAKRLQEEETARIAEEERKRKEEEEKRAAEALNQQKLEKEKK
LLRKERTLRLTLSTPILSQRLDLTDDDVESLCSLDDKQSKLCEKLERKEGLERAELL
KETLESNHKTKDKKEDENLQNGSTSIHMNGQVSNKAQKPAQAIASPLSTRE
TSRRWEVISEYIGSGRSVEEILKATKTVLLQKPDQSAKAFDSFLEKRPQAIASPLSTRE
DGLGLSNAGAAMGQSSVPGNLSDSNAVNGTALCSDQDSWSVAQEKGLVQALKTFPKETP
QRWERVAAAVPGKTVSQCKKKVALMKESYRNTSSSTVEKTPSNSNSNSDSNSNSNSLSDLL
ESSTQENPK

>RMYB10

MGRPSRDRKVGRLKGLWTREEDQKLLAYIQEHGHGSWRSLPAKAGLERIGKSCRLRWNTY
LRPDIKRGKFSSEEKTIIRLHALLGNRWSAMAAYLPKRTDNEIKN

>RMYB11

MGRTPCCEKVGLKRGRWTAEEDEILTKYIEANGEGAWRSLPKNAGLLRCGKSCRLRWINY
LRSDLKRGNFPTQEEAIVNLHASLGNRWLIAGYLPGRMDNEIKNYWNSHLRKHISYF
RHFVPPPPPPKPNMHRKRRQSLSSLEHLKIHGIDNNMVKSPAAVIATNVNHDVDVDDDDP
CKKRTTNPDLKEQVIASSSSKPISTHDDHRQQGNNDQTLQSGKLDDEKKTNTNTMTSAT
CLIDEAVGTKIHFMDTTIKGSNGDLDENRGACNGNATENLVEHCCSTSSGYEYSSSSAP
SSSINIEDDDFWNLRISPIPWNFNSPFEEIWDHGKLDGGLLHDQNMALPWLWD
ASAFDDPEAHSVHD

>RMYB12

MMGHSIANDSDDGVLSADSPVSNDDGDFGGTSNGGIIKKGWTSWAEADILVEYVKKHGE
GNWNAVQKHTGLLRGKSCRLRWANHLRPNLKKGAFTSEEERLIELHSRMGNKWARMAA
HLPGRTDNEIKNYWNTQ

>RMYB13

MAAEPDATTEEVSDKIKGPWSEDEDILLRELVKKHGARNWSQISKSTGRSGKSCRLRWC
NQLSPEVERRPFTPEEEEEIVRAHAELGNKWATIARMLNGRTDNAVKNYWNSNLKRKYEE
ARSAARAGVGERPPQVLRQSEIGDVSLAMWSQSEPGDYVNFVPLIPVVKPTAAVNQAEA
GAAANGNSEADRAVTALTLRLPGTGLSDSEKAYSSSNIPTEQRKSKDLPGRVSEVKEIT
SGELRTYIQETVREEMEKYFRRPGG

>RMYB14

CRLRWINYLRPDLKRGTFQSQEEEDLIHELHSLVGNRWSQIAAQLPGRTDNEIKNLWNSSI
KKKLRQKIDPNTHKPLQENINNSINDQLETSASAGNSKNNDKASEGSSCDLSFVDPDNN
ISNSVHGVPVSGSGSALESPVPLQVERYHPLLENSTQELFLNRFVAAGCNHIAKPCVDL
SGFLSFQNPNYGPNIGLSMNNPDISTTTIPHQFTAFNNLSPPIVPQINKPPVNFADNPS
LPPFTVKFESSTELQSGYSTFESGAGFPWTPADSSGKPDNKTTHGEIGEDMIKWNEYLQA
PFLMGNSIHNPTGQDHMYGETKAQQQFAADGSLSIGNWHTINPAPTFGQFS

>RMYB15

MKERQRWRPEEDTLRLAYVKQYGPRDWHLVSERMNQPLNRDAKSCLERWKNYLKPGIKKG
SLTEEEQRLVIRLQAKHGKWKKIAAEVPGRTAKRLGKWWVEVFKEKQREQKENNKTIET
IEEGKYDHILETFAEKLVRHIVPGITMPASNGGYLHGEQAAPSAPSVLPPWLASSSTTA
TVRPPSPSVTSLSPLTVPPTPIPWLQPPDRLADSATHGMMNNIHSGLIAPMVGESTVV
SELVECKEELEEGHRALASQKKEAAWRLKRVELQLESEKANRKREKMEDIEAKVKALREE
EKATLERIETREYREQLAGLRREAEEAKEQKLAEQWAAKHIRLSKFLEQMGRSVAAAEPNG

R

>RMYB16

MGRSPCCDKIGLKKGPWTPEEDSKLLAYIEEHGHGHSWRALPAKAGKIFFSLFMCSFMSET
PVWGGFFPGLQRCGKSCRLRWTNYLRPDIKRGKFSLQEEQTIIQLHALLGNRWSAIATHLP
KRTDNEIKNYWNTHLKKRLAKMGIDPVTHKPKNDALLSCDGQSKNAANLSHMAQWESARL
EAEARLARQSKLRSCSASPSFQDQCVEPAAGPTKPMGAPRCLDVLKS

>RMYB17

MGRSPCCDKIGLKKGPWTPEEDSKLLAYIEEHGHGHSWRALPAKAGLQRCGKSCRLRWTNY
LRPDIKRGKFSLQEEQTIIQLHALLGNRWSAIATHLPKRTDNEIKNYWNTHLKKRLAKMG
IDPVTHKPKNDALLSCDGQSKNAANLSHMAQWESARLEAEARLARQSKLRSCSASPSFQV
QINDLNSIS

>RMYB18

MPFGSRYGDRHLEDDNFQPLGSRNDARYFRTNRENRSFSQKDWRSTSWEPAAATSSGPR
FTTTEVNNQKSVENSETCHNNSKVNNGSPNPLPDSTSDQSLSHTKEQEKNNDGTADGGATSA
QKSEKENGLDSVDWKPLKWARSGLSPRGPCFSLGSKTGSTGVDSIEVVAEAHQKSAMPV
QSPCTSNVRSSVPASSDETCCRKKPRLGWGEGLAKYEKKKVEGPEdGVVKDGRVLSVCIT
ENVHSPSVNLSDKSPRIASMSDCASPATPSSVAFSSSPGTEEKESMRPASVDQENNNLSG
LPCIMSQKHCEGPTFNLESIDLASIAKLSNFLNELLOSEDPSAETDYVQTTSMKLLVW
KVDVLKALEVTESKIDSLDELKSLIAEPGSCCPCPDTSSLLQGECLKPCMELVAASAS
TVDPTFQVASTGSMNVENMPASVEESEALKSEEINSPGCATYQIVEPSSGEDVCASGTAE
CEGFVNLDLKNSSNLNMLCLENGLSNEINSCQLDAKPISDSCQKGNVGNVHCGGDSNYD
IIVASNKESAGRALEVLNKLPSRNYFFDLASIASIMPPFRSSSVKEKFLMRKRSLKFKE
KVITLFRVFQHFWRREGRIISVRKLRGKSNKMLDMTHCGHKKNRSSRSRIPYFASNHRT
VPAEEVIKFIHGLLSESSFKPCRNTLKM PALILDKDKMSRFISNNGLVEDPCAVEKERS
IINPWTAEEKEIFIDKLAVFGKDFSKIASFLEHKTIADCIIFYKNQKSECFARARKKPE
FSEQRKSQATTYLVATGKRWNREVNAASLNLVGEATRGNNGLLQRSNSQEIYSNETVAAD
VLAGICGLSSEAMNSCITSSFDHADGYQDWKCPRVNSGSKRPLTPDCTQNVDDCESDES
FEEMDSADWTDEEKSIQAVSSHGKDFDMIAQIVRTKSKEQCKIFFSKARKCLGLDQIH
HGAGNAVFNNANGGSDVEDGCVVQAGSAVCNGDSECKMEEDLPPNNTKGKHEPDAVATH
NLKPDVHSLAAEPVLETSSVGDTLDDKKAADSGAGAAGKKGKSEGACGSELEGPTVVVSS
RTESELLVEEGSGSVAVGTKETDKEEVPDSDAGSFCENLGKGPLLSDDNFADAKKLEDRD
LNSSEITAISGAISEVKSDLQLAGNVSPVGAFFSSMQVESGGQNLDFHADKSCIISSPEN
GHMVSIESSMMFVPIKYQIHSNCNPLAYVGASRISEKHSLEAVGARDHQQLNSGYLLS
EAVDSPQILRGYPVSGPSVNEINGDVNCKRHAVQHLPERDLSLHSNQHPDFSLQKCTRHL
SEAAAFQTPFQSHGKSSYDNSRPPSNLDKPARNGDVKLFKVLISSQQKPNSCAQEACSD
KVEHHKASCQSLSLRCDTHKSTFDSSVCGNKFIGSENISVRSYGFPDGNNTLMGFPSMP
DSTLVLAKEYPAAFSSHSKPSGKLELPSLQGVRSSESPLNGVTAQSSIDLSSSNADYEVL
KNQDLQFLTKEMKQQPQDIFSEMQRNGFDPVQEIQHEPRMIGIGIGRGGMVVGGQCSGV
SDPVAAIKMHYAKAQNISVPASNEQREEDGSWKSNGDVGR

>RMYB19

MAHKIKEKQAGRKELNRGAWTANEDRKLVAIGTHGAKQWPTIAAKAGLNRCAKSCRLRW
MNYLRPNIKRGNISDQEEDLIIRLHKLLGSRWSMIAARLPGRSDNEIKNYWNYHLSKKVL
KQALGAPGISTGVKGCSSGKIGEEKKQNGNGDGNRNRNVSSNETEGSESLFDVN

>RMYB20

MADLGFHRSACKCREKFENVYKYHKRTKDGRAAKSDGKTYRFFDQLEALENAPPPNPFTP
PRPAATASLPTMPAHVTVSSISPTPLSVVPPQAAASIPIDSSPLIAQPPPPPLMQHLRNS
SVPTQGLNFQASRPGLMSDSTSSSTSSDEDIQRRRGRKRKWKDCFHRLVRDVIQKQEELQ
KKFLDTLEKRERERMAREEAWRVQEIARVNREHDLVQERSIAATKDAAVIAFLQKVTDQ
HNLQIPPVAAAEEERPPPPPPPPQPEPPPPASPAPTTQVPVAPITVPPPAKVFNNKTDNN
GGEVAGYSPAASSSRWPKAEVQALINLRTSMDLKYQENGPKGPLWEEISSAMAKLGYNRS
SKRCKEK WENINKYFKVKESNKKRPEDAKTCPYFHQLEAIYKERAKEINNNNPMVPIMA
QPEQQWPINLHRQQLPDSAMQDQDNDRDNESDDHNNINDEDDDDDDDEGLGFEIANKQHS

SVANAAQES

>RMYB21

MDTSGSSSSCSRALVVKASFKNAYSGSSRTWGRDKAFENAVALCHNDADPWKQFPVAVPG
KTIVDVKHHYKALRYDVEAIGSGKVPLPHYPSNIMVCEKKEIPLRIGGKQRIHWKDEEHG
GSSWTEEDKAFDNALAFFRGDPLWVKVVLAVPGKSIEELKLHYEALIVESRKVPLPHH
FSKNKAKKEKPLGIHEQKRFRWTEEEHRSFLRGGLEKFGKGDWKSISYCVPTKTNTQVAS
HAQKYFTGLSTARRNQKRS

>RMYB22

VENTQTYSKVNNHKAMGTTQTLHENNSVGS AHPSESLSSPSQPRLKEKHEKVAAADTLTA
LGQNSDKEDGLGSIDLKPLNCSRSGSVESRGEVNNQVIENTGTCSKVSNOKAVGNTQTWH
ENNTVSSASPLPKSLSSPSQPCPEKHEKVGAADTLTSLTQNSDKENGLGSIDWKSILKWS
RSGSLVSRGSGFSSSSSKSLGVDSTEIVADVQQKDVMRVQSPGAACAMPNAPDPSDETS
SRKKPRLGWEGELAKYEMKKVDGREDGAAKDRLVSVTSTEAMQSPSVSLADKSPRFANL
MECVSPATPASVGCSSSPGITSIDDKESIKAAAVDQNTANMSCSPDVTSIYHGGPAFIL
ENLQLTSVANLSSLINEFQNSNDPSSAKTGYIRTTSMNKLLLCKLDILKALEVTESEIDS
LETELKSLTAESDGCHPSEDHAAASGITVVPALLHIALSGNMNSGDTPGALKDQONLEQKD
EEIDSPGTATSKLVEALSHGEDTCTSKTTEFAEGFVKLELDNASYLNELLLKNGLCDDDN
VCPVDIPNSTMSNWQHLDGVDIQCDDHIYDSIIASNKESANRAVEELNKLLPDKKCFDI
STVTSVSSSQRDFLKIKDRFLAKMLSVKFKEKIIALKFRVVFQHFVKEGRVVSARKLGGKS
HKMFDLRTGYKRKCSFIRSRISYFAGSHQIVPAEEIVEFINGLLSISAIKPCRNFLRMP
GFILKEKRMSRFISNGLVDDPCASEKERSIINPWMAEEREIFIDKLAIFGKSFSKIAAF
LEHKTADCIEFYKHNKSECFERARKKPEFAKQSKSKASTYLVASRKRLNREANSVNLD
MLGDASVIVAAVNDGLGTQQPKCTSRILFGAASSYKIPRGDDGPLQRSNSLDLDSNETA
AADVLAGICGSLSSSEAMSSCITSSFDPRASSSIRWPLTPDVTQNVDEECSDDESCGEIETV
DWTDEEKSIKSMSSYGKDFARISQCVGKTKEQCSIFFSKARKCLGLDRIHPGTGHVN
AGGSDIEDGCAVQIGSVICSDSANKIEENLTLHEMKMDQASDTAESHKLPDASDYGEG
SRACPLDSMAAGAVLRNSSVSNLVDKKSALDLNSGSKEEIGADGSELVVRTMFVSNNS
PQVELGFDCGLPDGLSKAYNKASVKVSGGHVQGDNQEGHNLPEENMNSKKVECRDANLV
DMAFSSAVNELK

>RMYB23

WDKVSRLGELGYNRS AKKCKEKFENIYKYHKRTKDGRSSRQNGKAYRFFEQLELLDAQF
SVPSTPSNPLPSYTRPASDPAAAEAAMAKQGGCSQDFPIPCSNYPIAEFTSASTSTASSS
GRDSEGSIKKRRKLV DYLERLMKDVLVKQEDLQNKFLEALEKCEKERMAREEAWKAQEMA
RIKREQEYLAQERAIAAEKDAAVLAFLQKITQQALPLQMPEVLASLFDKRSENQESVAEK
RAFVQDNGIGEASAHNEKQDNSAGENVVQNSSSRWPKAEVEALIMLKTDLDMQYQDSGPK
GPLWEEISARMKKIGYDRSAKRCKEKWENINKYYKRVKDSNRKRPDDSKTCPYFNMLESL
YAKRAKSDHNSENGTSLLKPEQILMQMMGQEQQHQPEQTIGEYGDNDHQNGEGMDDE
EDRESGDGYQVVANNLSSVTTLG

>RMYB24

MAAAEASGGLDRIKGPWSQEEDELLRKLVERHGGRNWTLVSR SIPGRSGKSCRLRWCNQL
SPEVEHRPFTA EEDERILQAHRNFGNKWAKIARLLNGRTDNAVKNHWN SKLKRKAAAAA
SGGDERSAKVWRAENG DVSAALRVSPESMNLNSETNDSSEDNVNFYFPVARSSPGVES
PQYGAENEDNSNIELTLLTSLPGSVSSSAKEISEKDSPSSDTPPRGGNGAFPPGPA
FDPKLLQIQEMIRSEVRNYFSREMNGGDGILSGKRIAISDFNE

>RMYB25

MKKGNKSGGANS GDFPKRKEWHIVSWSQEEDDILREQIRLHG IENWAVIASKFKDKTAR
QRRRWFTYLN SDFKKGGSPEEDMLLCEAQKIFGNRWTEIAKV VSGRTDNAVKNRFATL
CKRKAKHEALAKENFTSYINLNNKR VIFPNGLNSGGYKSGAPLKKMRNDVTVAVESQEG
RPSSECDAVDHLLRHPFQVLAQNAHSSAVSIPSELHSNQIKEALMDGLEDCKIEGTFLRK
DDPKVLALMQQAELLSSLAIKVNSEKTNQSLES AWIAIQEFLKQNRNNLPAFENPDHDF
HLEKLRELVEDLRSSNEGSRLSWREP DVYASSPASSEYSTGSTLLPNIPADKMEEHKTDI

SVLHQELGNEFVEESRICNTTASTNEVNMLTCGHIEENCEEVC DYSNTEFGSPVHV TPLF
RTLAAAIPSPKFSESVRILSF

>RMYB26

MSMPSGSNKRMVSSEVLPPSRDNASSGGGATTGEANILLKKG PW TSAEDAILIDYVTRHG
EGNWN AVQKHSGLARCGKSCRLRWVNHLPDLRKG SFTQEEERKVIELHSRLGNKWARMA
AELPGR TDNEIKNFWNTRTKRLERSGLPPYPPDVRLRMAKENQLNNS SKNTFLFNTVPQQ
GFNFASNPEIPNFKALELNSPIYSTHPAPMPNILPGSLLDISARSLVAQGRNLNSSNINK
PHQSTVYPSKRLRPSEPPLQGFNTATGNALASGSPFDDPLQIGQPLVFSSGHDCYPTCNR
IMSSSLLDGSVNHAVLYGNPASEPAQATKLELPSLQTQTGHWVLP PPP

>RMYB27

MRSPSSSSSKKTSSANGDGCSSGKQAAVTPYCSNVGLKRG PWTAEEDELLAQYIKREGEG
RWRTL PKKAGLLRCGKSCRLRWMNYLRPSV KRGHITPDEEDLILRLHRL LGNRWSLIAGR
IPGR TDNEIKNYWNTHLCKKLIRQGLDPKTHKPFNPNKSSVNVNRDSSSEALEHKSSVSS
PIPNNSTTFNPFENVITNSDQLEGGHNM DYPISENDEELRNCNKR IIIRGDEDED DDDDDLL
NCCIDDSFLNSLINDDIFNEEQQ

>RMYB28

MPSASELSSSVWSREQDKQFEKAIATYPEDTLDRWEKIAADVPGKSV EEVKQH YEVLVDD
VQRIESGFVEVPCYNSASDGSTSHAGDGTPSRKGANS GQSNHGGKSSKSDQERRKG
IAWTEDEHRLFLLGLDKYGKGDWRSISRNYV VTRTPTQVASHAQKYFIRLNSMNKDRRRS
SIHDITSVASGDISLPQG PITGQANGSSAGGPSGKSSKPLPQAPVATAGVSMYMPPTIG
QPIGGPLVSAVGTPVNLSPMHMAYGVGAPVHGSV VPGVGLSMPPMTYPGPHPSAHR

>RMYB29

LLLVFINSAGKMRIMIKGGVWKNTEDEILKAAVMKYGKNQWARISSLLVRKSAKQCKARW
YEWLDPSIKKTEWTR EDEKLLHLAKLMPTQWRTIAPIVGRTPSQCLERYEKLLDAA

>RMYB30

MKKKVNNSTKASNSGVPKQKERHIVSWSQEEDDILREQIRVHG IENWAIASNFNDKTR
QCRRRWFTYLN SDFKKGGSPEEDMLLCEAQKIFGNRWTEIAKV VSGRTDNAVKNRFTTL
CKRRAKHEALAEENNTASYINSNKR VIFSGGSETAVPVKKIRTYISNTAAENQEEKVAG
ECDATDDLHRHPFATVRQIARVHEFD FPAQMNVNHIK GASTDGSEEKNKSAGTFLKDDP
KVIALMQQAELLSSLAIKVNSQKTDQSLESAWMVLQNFQKQNKESDLIMFTHPIDLQFE
NCNELVEDLRSSNEGSESSWREPHMCESSPGSSDYSTSSTLLSSVPGDKIEACQSEISVL
HWETGKELQSNPVDDQCCLSVESMCHTATANEVNMVSGNDTKENNEAACGYSNTEFSSP
LHV TPLFRALAAAIPSPKFSESEKHFLMKTLGMESAAPSTMTNPSQPPPCRSLHLCL

>RMYB31

RYGPHNWN AIAEKLQGRSGKSCRLRWFNQLDPRINRSPFSEEEEEERLLACHRIHGNRWAV
IARFFPGR TDNAVKNHWHVIMARKCRERSKFYAKRTL SHHYHRRHQKNQPIIGRSGINAH
EKEALSLTLSSSSSSSKCDNNSRVLAAPT NCTSTARKDLGINNNYTTLGLGHTFLDGFAH
QQISNPLSMYNLPSALMLPLWDRQHVKIAQENG SREVEFYNFLQVNTDSSNRSEVINNH
KHAKRNIEEEEHQEEEEVDQKGSIGETKNTAAAGGVVALPFIDFLSVGRAGN

>RMYB32

MPADESSSVWSREQDKKFEKAVATYPEDSSDRWEKIAAQVPGKSVEDIKYHYQLLVDDV
NQIESGFIQVPCYNSSSDGSTSHADDEGAGK KSGNSGLLNDSNHGGKSSRSEQERRKGI
AWTEDEHRLFLLGLEKYGKGDWRSISRNFV VTRTPTQVASHAQKYFIRLNSMNKDRRRSS
IHDITSVNNGDVSV PQGPITGQTNSMAVGGGSPKSNKQSLQVPVGVNMYGTPTIGQPIG
GPLVSALGTPVSLPPPHLATYGVGAPV VPGAPTTYMPHTSAHR

>RMYB33

TGLSRC SKSCRLRW TNYL RPGIKRGNFSEHEEKMIHLQALLGNRWAAIASYLP HRTDND
VKNYWNTHLRK KLGKQQQPQGHVYVDGNNSSRSKPVSVTKGQWERRLQTDIQTAKQAL
SEALSLDKSDSAAVVDQHPSPTTQTRPIQTSMYAVNADNIARLLENWKSNDSPKLHQGA

>RMYB34

MSMPSGSNKRMVNSGVLP SRDIASSGGVATTGEANILLKKG PW TSAEDAILIDYVTRHG

EGNWNNAVQKHSGLARCGKSCRLRWVNHLRPDLKKGSTQEERKVIELHSRLGNKWARM
AVLPGRTDNEIKNFWNTRTKRLERSGLPPYPPDVRLRMAKENQLNSSSKNTFLFNTVAQQ
GFNFACNPEIPNFKALELNSPIYSTHPAPMPNIHPGSLDISARSLVAQGRNLNSSNINK
PHQSTVYPSKRLRPS

>RMYB35

GPPNPNPMADKNRHHLPHDHDGNGDDDDDDDDGALPRKRSSPSSSSSLNRGAWTPE
EDATLAKFIEIHGPRRWKSVAMKSGLNRCGKSCRLRWLNYPDIKRGNISEAEDDLILR
LHRLLGNRWSLIARRLPGRTDNEIKNYWNAHLRKKAKLMEKLPSTSTVALIKKWEDEDNDD
DDDDDDDDQEREKASSSMEIASGSEMVTKRMSVGDGMGSSDVEGDELDFSRQGTGLEW
VKSFLLEEDA

>RMYB36

MGRTPCCAKNGLKKGWPTQEEDQKLIDYIQKHGYGNWRTLKNAAGLQRCGKSCRLRW
LNPDIKRGFRSFEETIQLHSILGNKWSAIAARLPGRTDNEIKNYWNTHIRKRLRMG
IDP

>RMYB37

MGRPPCCDKIGVKKGPWTPPEEDIVLVSYIQEHGPGNWRAVPANTGLLRCSKSCRLRW
LNPDIKRGFRSFEETIQLHSILGNKWSAIAARLPGRTDNEIKNYWNTHIRKRLRMG
IDP

>RMYB38

MDMEKDELKRGWTEQEDAQLVLYVNLFGDRRWDFIAKVSGLRRSGKSCRLRWVNYLHPG
LRRGKMTPEERLVLQLHAKWGNRWSKIAQKLPGRTDNEIKNYWKTHMRKKAQEEK

>RMYB39

MKERQRWRPEEDTLLRAYVKQYGPRDWHLVSEMNQPLNRDAKSCLERWKNYLKPGIKKG
SLTEEEQRLVIRLQAKHGNKWKKIAAEVPGRTAKRLGKWWVEVFEKQQREKQENNTIEP
IEEGKYDHILETFAEKLVRHIVPGITMPASNGGYLHGEQTAPSAPSVLPPWLASSSTA
TVRPPSPSVTSLSPPTPPIPWLQPPDLADSATHGMMNNIHLGITPMVGESTVA
SELVECKEEEGHRALAAQKKEAAWRLKRVELQLESEKANRRREKMEDIEAKVKALREE
EKATLERIETERYEQLASLRREAEAKEQKLAEQWAAKHIRTKEFLEQMGRSVAAAEPNG
R

>RMYB40

MKERQRWRPEEDTLLRAYVKQYGPRDWHVSEMNQPLNRDAKSCLERWKNYLKPGIKKG
SLTEEEQRLVIRLQAKHGNKWKKIAAEVPGRTAKRLGKWWVEVFEKQQREKQENNTIEP
IEEGKYDHILETFAEEL

>RMYB41

MSNMERIKGPWSPEEDQLLQKLVEKHGPRNWSLICKSIPGRSGKSCRLRWCNQLSPQVEH
RAFTPEEDETIIIRAHAKFGNKWATIARLLSGRTDNAIKNHWNSTLKRKCVSMSEEDLNAA
FDPDAQPPLKRSASVGPTEVFCFNPSPSSGSDVSGVSHSGHLVFRPIARAGGFSPD
LQLPDPVTSLSLSPGSDLNPNPNTNTVTEQLNQSPFRPNPNNAVDPAVAVGMTSPAMM
QFDSA VSNQFFSPDFLAVMMEMVRKEVRNYMEGIEQNGFGVQNDAIRNDVVK

>RMYB42

MAAKAKKVAPEAVPERVKGPWSPEEDELTKLVQQHGARNWTLISQSIPGRSGKSCRLRW
CNQLAPEVEHRPFTEEEDEIIVQAHAVHGNKWATIAKMLTGRTDNAVKNHWNSTLKRKSY
SGRSDGGSARLPQALRRLDNRDVSAAIIESESSCLMDSRSDSDHKKNIPADPPTPPVK
DNVDLTELSSLPGFARNAPLEINLSNIPNFEQGRASKTSLFPELATMVQQIREEVR
NYMSQHSLKMHSAL

>RMYB43

GLNIGGGDGGAGRWRQETLTLLEIRSRLDHFKEANQKGPLWDEVSRIMSEEHGYQSRG
KKCREKFENLYKYKTKKEGKAGRQDGKHFRFRQLEALYGDSNGAASASDQANLVGGNF
HYNYGKSTSLGANQESLQGLSNTSLSNYSDEVSSSSDDTDLNEGNDKADDPNK
KRGKRGWKVIRDFIDLQMKKMDKQEVWMEKMMKTMEQKEHERMVREEEWRRQDIVRME
KEQKFWASERAWIEARDAALMEALHKLTKGDNHLLGAENQIQNNNEDIGSETMTNSAKGG

DMIWPESEISRLIQLRSGMEAKFQQRGVSSEEVLWEEIATKMACYGHDRGTGVLCKDKWDS
VNNYLLKCNKKRKENSKGCTTAYYHEQVSNQGGHHVYSCNDASHEQQHQQQHAAVNS
SPNSNTGNPMTTDS

>RMYB44

MGRSPCCEKAHTNKGAWTKEEDQRLINIRAHGEGCWRSPLKAAGLLRCGKSCRLRWINY
LRPDLKRGNFTEEEDEIIIKLSLLGNKWSLIAGRLPGRTDNEIKNYWNTHIKRKLISRG
IDPQTHRPFNSTAPAASTGGAPALPAKACLDLFRSTPPQAATSMNEATNNIRSSPAIDNS
SSGDNTKCSSTTTEESQPPPVKMEVENDPYAVDLELSLGLPSPSKTKYAKSGSFNSSSS
VESKPFSEFLRGAGKPSTAAEPMCFRWPLSFQGSVI

>RMYB45

ISTVLIINSHSDYCYCLFHGFYKTPFFTPFLCLIIFRNFA TRVFPYSPILNWAEQNLR
TSVSPLKGLILDEMETLTCQTSLSASDSNWFHQQGMMTTVWTKEENKQFESALAFDEKTPN
RWFKVAAMIPGKSVYDVINQYREL VADVSDIEAGLPIPAYLASSFTYELADLRSFDVCR
KRVRTCDQERKKGVPWTEDEHRRFLLGLQKHGKGDWRNISRNFVISKTPQTQVASHAQKYY
LRQLSGAKDKRRPSIHDITTIHLTNTSSSENKPLLEKPSVQHTSVQKPTYAPKVFVDR
SHINDKTLMDLDSAAGDLLVAYPCNVAAQTWHNVKTGASHPHFRI

>RMYB46

MPSDESSSSVWSREQDKQFEKAIATYPEDGLDRWEKIAADVPGKSVVEVKHHYELLVDDV
NRIESGVVEVPCYSSSSDGSTSNGGDEASGKSSNSGRLNGDSSHGGKSSKSDQERRKGI
AWTEDEHRLFLGLDKYGKGDWRSISRNYVVTRTPTQVASHAQKYFIRLNSINKDRRRSS
IHDITSVNNGDVSVPQTPITGQTNAAAGGPPMKS NKPLPQTAVGTPGIGMYGPPTIGQP
IGGPLVSAVGTPVNLPPHLAYSVGAIPGPPVPGTPLTMAPITYPVPHK

>RMYB47

MADKNRHHLPHDHDGNGDDDDNDDDDDGDGALS RKRSSPSSSSSLNKGAWTPPEEDATLA
KFIEIHGPRRWKSVAMKSGLNRCGKSCRLRWLN YLRPDIKRGNISEAEDDLILRLHRLLG
NRWSLIARRLPGRTDNEIKNYWNAHLRKKARLMEKLPS

>RMYB48

KGPFWEVSRKMASLGFQRSSKCKEKFENVYKYHKRTKDGRAAKSDGKSYRFFEQLEAL
ENSPAPPRSAAPAAPAPPNLQMP SHVTVSSISPTPLSVIHPITNPQLNSPQFQQSQPPQ
FIHQHTIAATNSQITPQARIFRSESTSSSSTSSDEDIQRRRGKRRKWKDYFERLMKEV
VEKQEALQIKFLETLENREKDR TAREEA WRVQETARMNREHEILVRERSMAAAKDAALIA
FLQKVTDQNNPQIPVTPAPAKPPPPPPQPPQQSNPPTTKAVETSKTDNGGGGESVLP
SSSRWPKAEIQALIDIRTSDFKYQDNAPKGPLWEEVSAAMAKLGYNRNAKRCKEKWENI
NKYYKKVKESNKKRPEDSKTCPYFYQLEAIYKERAKHGIVSSMNPSPYNNPNMEPILVRP
EQQWPLPNNNQQQQQK DSTFRDQNHNESENEHEEDEFDEEEDEMDENGGEYELIAN
KQSSTMG

>RMYB49

MNREIGQVSPASYFTNSNWLFE GSTVAKWTPEENKRFENALALFDKDT PDRWQNVASMI
GKTVNDVMKQYRELVEDVSDIEAGLPIPGYSNNSFTLEWVTNHGYDGLKQIYCPGGKRG
SSTRCS DHERKKGV PWTEEEHRQFLGLKKGKGDWRNISRNFVTRTPTQVASHAQKYF
IRQLSGGKDKRRSSIHDITTVNLDET NKSPEPKDASHSPQKSNMILQSHPNLGGNVVV
RATYDSNL TNPGAMMGFTPQDGGLMITGLQGTSSFGVNLNEHMQGFDQRGLWLGHPGTI
FQMHPTRHS

>RMYB50

GKSCRLRWINYLRPDLKRGNFTEEEDEVIIKLSLLGNKWSLIAGRLPGRTDNEIKNYWN
THIRKLLSRGIDPTTHRPMNEAAADRETLKTTTTTISFSGGCSRESEDQKIIVIRKDE

>RMYB51

MVRAPCCEKMGLKKG PWSPEEDQILV TYIQQHGHGNWRALPKQAGLLRCGKSCRLRW
LRPDIKRGNFTEEEETIFTLHQLLGNRWSAIAARVPGRTDNEIKNIWHTLKKKLENN
NINPSP

>RMYB52

MASGKSIQLITYHEEIVDVGKPIYVSSNSLPVKALKLEPAGHSFNAAALRLVGHCVEADTC
GDDDGK GAPNEKEHVYVSSSDSYGNKGKKKSGEAKQQDHYALLGLSHLRYLATEDQIRKS
YREAALRHHPDKQAALLLAEETETAKQAKKDEIEGHFKAIQEAYEVLIDPLKRRYDSTD
EFDDEIPDCAPQDFFKVFGPAFVRNGRWSVTQPIPTLGDDKTPIKEVDSFYNFWYSFKS
WREFPHADEYDLEQAEGRDHRRWMERQNLKLESEKARKDESARIRTLVDNAYKRDPRILRR
KEEKAEEKQRKKEAKLMAKRLQEEETARIAEEERKRKEEEEKRAAEALNQKLEKEKK
LLRKERTRLRTLSTPILSQRLDLTDDDVESLCSLDDKQSLKCEKLERKEGLERAELL
KETLESNHKTKDKKEDKENVLQNGSTSIHMNGQVSNKAEKPWGKEEIELLRKGMQKYPKG
TSRRWEVISEYIGSGRSVEEILKATKTVLLQKPDSAKAFDSFLEKRPQAQAIASPLSTRE
DGLGLSNTGAAMGQSSVPGNLSNSSNAVNGTALCSDQDSWSVAQEKGLVQALKTFPKETP
QRWERVAAAVPGKTVSQCKKKVGLMKESYRNTSSSTAETPSNSNSNSNSNSNSNSLSDPLES
STQNE

>RMYB53

MASGKSIQLITYHEEIVDGEPIYVSSNSLPKALNLEPAGHSFNAAALRLVGHCVEADTG
DDDDGK GAPNEKEHVYVSSSDSYGSKGKKKSGEAKQQDHYALLGLSHLRYLATEDQIRKS
YREAALRHHPDKQAALLLAEETETAKQAKKDEIEGHFKAIQEAYEVLIDPLKRRYDSTD
EFDDEIPYDCAPQDFFKVFGPAFVRNGRWSVTQPIPTLGDEKTPIKEVDSFYNFWYSFKS
WREFPHADEYDLEQAEGRDHRRWMERQNLKLESEKARKDESARIRTLVDNAYKRDPRILRR
KEEKAEEKQRKKEAKLMAKRLQEEATARMAEEERKRKEEEEKRAAEALNQKLEKEKK
LLRKERTRLRTLSTPILSQHLLNLTDDDVESLCSLDDKQSLKCEKLERKEGLERAELL
KETLESNHKTKDKKEDKENVQNGSTGIHMNGQVSNKAEKPWGKEEIELLRKGMQKYPKG
TSRRWEVISEYIGSGRSVEEILKATKTVLLQKPDSAKAFDSFLEKRPQAQAIASPLSTRE
DGLGLSNTGAAMGQSSVPGNLSNSSNAVNGTALCSDQDSWSVAQEKGLVQALKTFPKETP
QRWERVAAAVPGKTVSQCKKKVALMKESYRNTSSSTVEKTPSNSNSNSNSNSNSNSLSD
LLESSTQNEPK

>RMYB54

MDTSGSSSSCSRALVEASFKNACSGSSQTWGRDKAFENAVALCHNDADPWKNFTVVPVPG
KTIEDVKHHYKALRYDVEAIGSGKVPLPHYPSNIMVCEKKGMPLRIGGKQGIHWKDEEHG
GWNWTEEEDEAFDNALAFFHGDPLWVKVLLAVPGKSIEELKLHVEALIVKSRKVPLPHH
FSKNKAKKEKPLGIHKQKRFRWTEEEHRSFLCGLEMFQKGDWKSISYCVPTKTNTQVAS
HAQKYFTGLSTARRNQKQSNIKDTPTAHLGSMPSFPTGIMPGNPISAGKHPLSPKPLGIT
PDTPFSTQLISKQGISAKGRPTYLDPFWQDDAILHPGSFHFTT

>RMYB55

MRKSSGKKKEESSGGGRGGGGREAWTKEEDQMLIDYIKLHGEGCWTSPLNAAGLQRSGK
SCRLRWVNYLRPDIKRGNFHGHDEDDLIKLHALLGNRWSLIARRLPGRDTDNEIKNYWNSH
LKRELIAMGIDPNNHRIHQTMFATTRPAAACSNVDTANPSSDNKMLSSSKTCLKAVSETS
TTSSLPPPQVNLDSLIAFAAPSGKEAAAGRGRSNEP

>RMYB56

MASLGFQRSSKCKEKFENVYKYHKRTKDGRAAKSDGKSYRFFEQLDALENYPAPRSAA
PAAPAPPPNLQMPSHVTVSSISPTPLSVIHPITNPQLNSPQFQQSQPPQFIHQHTIAAT
NSQITPQARIFRSESTTSSSSTSSDEDIQRRRGKKRKWKDYFERLMKEVVEKQEALQIKF
LETLENREKDRTAREEAWRVQETARMNREHEILVRDRSMAAAKDAALIAFLQKVTQNNP
QIPPVTPAPAKPPPPPPPPQPPQSNPPTTKAVETSKTDNGGGGDSVLPGSSSRWPKAEIQ
ALIDIRTSDFKYQDNAPKGPLWEEVSAAMAKLGYNRNAKRCCEKVENINKYYKVKESN
KKRPEDSKTCPYFYQLEAIYKERAKHGIVSSMNPSYPNNPNMGPILVRPEQQWPLPNNNQ
QQQQQKDSFRDQNHNESENEHEEDEFDEEEDEMDENGGEYELIANKQSSTMG

>RMYB57

MGHQSCCVKQKLRKGLWSPEEDEKLFNHITRHGVGCWSSVPKLAGLQRCGKSCRLRWINY
LRPDLKRGMFSSQEEEDLILSLHESLGNRWAQIATRLPGRDTDNEIKNYWNSLKKKLMNEG
IDPNTH

>RMYB58

MAELGFQRNAKKCKEKFENVYKYHKRTKDGRSSKSDGKTYRFFDQLKALENTPPPPPPPP
ASMAAPPLPTLLPKSTVPSSISPNPVSMAPPSALQPPPPPLAPVNISNPADTHALRRPPP
PPNLFNTMTSSSSTSSDEDIQQRRSGSGRKRKWKVFFQRLMKDVIQKQEELQKMCIEL
EKREDRRTARDEAWRMQERARLNREHELLVQERSMAAAKDAAVIAFLQKVTDQQNLQIPI
SLPITQKIPQPPAPPPIKSFDKIGDNSMPGSSSRWPKAEIEALIKLRTNLDLKYQETG
PKGPLWEEISAAMAKLGYNRSSKRCCKEKENINKYFKKVKESSKKRSEDSKTCPYFHQLD
AIYKVRGKSDTKPENPPMMTRPEQQWPLPAVQPPPPQDDAAMDLDLDRDDDDDDDDDDGDD
DEEDQGYEMVGDKQPAERG

>RMYB59

MFDGIGIMCSDHHDYLSQFINASRTSSLLDDHIHCNCFDPSLISSSLDNSITQGERSV
VPWSNEEVVELFKFRSSMESCTSLPELISWGHVSRRLAEIGFKRSAVECREKFEGKNFNN
VISCKDSRVCNELDESYLHDHPEEIQVSAECGPAETKDVVVDQERADKDVAKVSENN
EAAKKASQQLTREGKSKRKRKEGEV GALRGYFEAIVDKVMARQEELHNELIASIIKRDEE
RMAREEEWKIQEIKRKTAMQMRAKDQANAEEERQATIIQFLKIFQDQHINANKVIQTGSS
PSRLLIPSLKTNPISSRWPREEVLALINMRCKVSYNSKEGQMKGPLWERISQGMELGYK
RSAKRCKEKENINKYFRKTKDR

>RMYB60

MAAAITSGGGGGSGEFCKKMDLDRIKGPWSPEEDELLOQLVQKHGPRNWSLISKSIPGR
SGKSCRLRWCNQLSPQVEHRAFTPEEDETIMRAHAKFGNKWATIARLLSGRTDNAIKNH
NSTLKRKCSSFSSDEAFFDSADQPPDRPLKRSVSAGSGVPGSGLYLAPGSPSGSDASDSS
LPVMSGSFVYKPVARS GALLPVQIEPVNDPPTSLSLSLPGAETIESPNLKIEAVQAKPN
IPPPPPPPVTPPAAIPAIQPPSPVSKVPSPPPQDKVFAFSAEMMAVMQEMIRTEVR
NYMMGLEQQRFFQHQQHQQNQQHQQQYIQLQIQQQHYNQQQQQQYMQMQQANINEQFRN
AAMKRIGINRIE

>RMYB61

MDNKKACRRSEEVEVRKGPWTMEEDLILMNYIANHGEVWNTLARSAGLKRGTGKSCRLRW
LNYLRPDVKRGNITPEEQLLIMDLHAKWGNRWSKIAKYLPGRTDNEIKNFWRTRIQKHIK
QPANESSSDYQQQQQTNNNSNMANHGNTSQVSLGYGPVDHVVDQMSYSSPACSFPTGME
HFQAPAFPTPDSNENLWSMEDLWSMHLLHGD

>RMYB62

MRIMIKGGVWKNTEDEILKAAVMKYGKNQWARISSLLVRKSAKQCKARWYEWLDPSIKKT
EWTREEDEKLLHLAKLMPTQWRTIPIVGRTPSQCLERYEKLLDAACAKDENYEPGDDPR
KLRPGEIDPNPESKPARPDPVDMDEDEKEMLSEARLANTRGKKAKRKAREKQLEEAR
LASLQKRRELKAAGIDVRHRKRKRREGIDYNAEIPFEKRPPPGFYDVTEEDRPTLVKFT
TIEELEGERRDREARLRKQDIANKIAQRQDTPAAIMQANKLNDPETVRKRSKLNLPAP
QIPDHELDAIAKMGIASDLVGNEELTEGNAATRALLASYAQTPRQGMTPMRTPTPAGK
QDAIMMEAENQRRLTLSQTPLLGGDNPMLHPSDFSGVTPKKKDIA TPNLLTPSATPGGQ
GLTPRIGTTPSRDAYSLSMTPKGTMRDELHINEDMDVHSDKLRQADSKKELLSGLKNL
PQPKNYQIVIQPFAEDEEPEEKIEEDMSDRTAREKTEEEARLQALLKKRSKVLQRELP
RPPTASLDLIRNSLIRADEDKSSFVPPTLIEQADELIRKELLSLLEHDNTKYPLDEKVAK
EKKGSKRSAKASAPVPSIDDFEENELKEADELIKNESDVLRVAMGHEDESLEDEYVEAH
ETCLNDMMYFPTRDGYGLSSVANNMEKIAALQNEFDKVKKEMDNETKKAQKLEQRIKVL
NGYQMRAGKLTSTQIEATFKQMDTAGTELECFQVLHKQEQLAATHRIGNLWEEVQKQKDL
NTLQKRYGDLMSELERVQNLVGAYRLQAEKEAENAACKDDDPQVNEINTLDESAPNDGT
PNDEVLVLDEAANAATNQSIAPDLETSNHEVAENNDVVPVEPEAALDQSVSSDAGNPEP
AVISDERTSMEVDNIDETRSQQLDVADVHIQPITEHGRDGGASVTGDSFELDSAMDG

>RMYB63

MTRNKTYAEGRKRMPYCKCHWTAEDALLTTFVQAFGAGGWDFIAHRIEGR TAKSCRL
RWVNHLSPNVCKAPFTEEEQLRLLHLQKEVGNRWSLIVKHFRGR TDNQLKNKFNVLMSR
KRTMG TSSGSDSHVPLKGGPTGNYYPGFTPYTSTPMNAQASPLISGGSGSGHGKGGTVNK
LSRPIGANRLNIYYCHMTSHGNPIMSDANSVSHGICLPVAQPQQGAGHKEPQFFDFMGV

GTSE

>RMYB64

CDKVGKKKGPWTCDEDEKLLIAFMLTNGSQCCWRAVPKLAGLLRCGKSCRLRWTNYLRPDL
KRGLLSQYEEKMVIDLHAQLGNRWSKIASHLPGRTDNEIKNHWNTHIKKLRKMGIDPLT
HKPLPPPTTTDQLPPQPTELADDQSPNLNEDKTT

>RMYB65

MGRPVAPCCGRIGVKKGPWTPPEEDIILVSYIHEHGPNGWRSVPSNTGLSRCSSKSCRLRWT
NYLRPGIKRGNFSEHEEKMIHLQALLGNRWAAIASYLPHRTDNDVKNYWNTHLRKKLGK
QQQQQTQGHVCVDGNNNSSRSKQVAVSKGQWERRLQTDIQTAKQALSEALSFDKSDSAAV
VDQHPSPTTQTRPIQTSMYAVNADNIARLLENWKSNDSPKLHQAAGSSSESCNNNLQSPSE
VGFSSNLGMTVMPLSLEKWLFDSEGAQQGDGDFMGIIE

>RMYB66

IPLAIPLSERKKRFLTSCKKIWGMEMLNRCSSGSSSCSSSDSSTVSGRKSERIKGPWSAEE
DNILTRLVEKYGARNWSLISKYIKGRSGKSCRLRWCNQLSPTVEHRPFTAAEDEAILAAH
DKYGNRWATIARLLPGRTDNAVKNHWNSTLKRSQLNQKKIG

>RMYB67

LCSNCTNFSAFYSHLIPQIPSIKLSIPFLLLFSNRLSTTQGKMDSADRDAHATPSTWTR
EDKDFEDGLVEFPDGYPNRWVRIAEMQTKTPAEVERHYAVLLEDVAIDAGLVDLPKYG
VNNEIELRSSSEADRRNPKSEKPVGTGQRKAAKAWTDDEHKAFLAGLKKYGKGDWKSISR
YSVRTRSPAQVASHAQYERQEKEVQSKRRSIFDNSIEESS

>RMYB68

SVIIRVFQNCISMAAMAKKVAPEAVPERVKGPWSPEEDELTKLVQQHGARNWTLISQ
SIPGRSGKSCRLRWCNQLAPEVEHRPFTEEEDEIIVQAHAVHGNKWATIAKMLTGRTDNA
VKNHWNSTLKRKSYSGRSDGGARLPQALRRLDNRDVSAIIESESSC

>RMYB69

MQEAE LRKGPWLEEDQQLADAVAVLGERRWDALAKASGLKRGKSCRLRWNYLRPNLK
HGNITAEERTIVELHEKWGNKWSRIAQRLPGRTDNEIKNYWRTYLRKKNHVLEKD

>RMYB3R-1

YKGNWKKIAECFRDRTDVQCLHRWQKVLNPDLVKGPWSKEEDEKIIELVEKYGPKKWT
IAQNLPGRIGKQCRERWHNHLNPNINRDWQEEEEVILIRAHQMHNKWAELTKYLPGR
DNAIKNHNWSSVRKLDMMYSSGVLQQLQDVPLVSHSNHLTASSSSRGKQGSSEDDILEGG
VEVEEASECSQGSIASMSQSINNTIALLGECRTTEDTSLIPFSAEDYRPVVFQEP AFLIP
EVPCEQGDKFPEHDFSIDWEIFEE

>RMYB3R-2

MEGLKSDDRCLNKDITVDSSSSVSENSSTIALKSTGISSPSSTSPAHKRTSGPIRRAKG
GWTPEEDATLKKAVAAFRGKCKWKKIAEFFPDRSEVQCLHRWQKVLNPELVKGPWTQEEDD
KITELVAKYGPTKWSIIAKSLPGRIGKQCRERWHNHLNPHIKKDAWTLEELTLLNAHRV
HGNKWAELAKLLPGRYLYRAHLETNL

>RMYB3R-3

MEGLKSDDRSLENKDITVDSSSSVSENSSTIALKSTGISSPSSTSPAHKRTSGPIRRAKG
GWTPEEDATLKKAVAAFRGKCKWKKIAEFFPDRSEVQCLHRWQKVLNPELVKGPWTQEEDD
KITELVAKYGPTKWSIIAKSLPGRIGKQCRERWHNHLNPHIKKDAWTLEELTLLNAHRV
HGNKWAELAKLLPGRTDNAIKNHNWSSLLKLDLFYLATGNLPPVSKCVSLNDAAADIHKT
ASAGELHVGSNKGNSAHLASCETDRLKADDRRTDMPEERSKDYNVASHPQMEPTNPES
TKHHEAMQSESGAVNPTKESEFEKQHTFGGVGRYNIVKASLRYEMPVHGTLCEPQTFDN
YGQLDSTLRNVSLMQSQSDTCPATPPTPLFTPPSVRGGNFSAQSPESILRIAASFRNTP
SILRKRKLDMPKELVVPSEHNHTNGSENAGLQSKTSCADPVSDDEDGVSSNKSPNSSP
PYRLNFKRTSVHKSVEKQLDFTTITDQEACNNNTKSGDSKVKEARPVTKFVYTRQRRLK
SSVAKCN

