Results:	WoLF PSORT Protein Subcellular Localization Pred	liction
testk used for k	NN is: 14 tails nucl: 11, cyto: 1, extr: 1	
WoLF PSOR	T is an extension of PSORT II, developed by Paul Horton et al. Computational Biology I Original Website: Website Interface Designed by Genscript Corporation. All rights reserved.	
Sequence: Sequence_1 Length: 207 CRC64: 07510AAE48E57		Launched Mon, Jun 11, 2012 at 15:23:11 Finished Mon, Jun 11, 2012 at 15:29:11 Description
IPR001005 PF00249► SM00717►	SANT/Myb domain	Myb_DNA-binding SANT SWB, ADA2, N-CoR and TFIIIB" DNA-bin
G3DSA:1.10.10.60 SSF46689	Homeodomain-like	■ no description ■ Homeodomain-like
IPR015495 PTHR10641	Myb transcription factor	MYB-LIKE DNA-BINDING PROTEIN MYB
IPR017930 PS51294	Myb domain, DNA-binding	HTH_MYB
ł	PRODOM PRINTS PIR PFAM SMART TIGRAM: HAMAP PROSITE SUPERFAMILY SIGNALP TMHMM PANTHER © European Bioinformatics Institute 2006-2012. EBI is an Outstation of the European Molecular Biolog	gy Laboratory.

Figure S1: Screenshots corresponding to the results of prediction of domains and performed with InterProScan functional sites database (version 4.8) (www.ebi.ac.uk/Tools/pfa/iprscan/) and prediction of protein localization sites in cells performed with WoLF PSORT computer program the (http://www.genscript.com/psort/wolf_psort.html).

1 M D K K P - - - C N S S S - 1 M D K K P - - C N S S S - 0 1 M D K K P - - C N S S S - 0 1 M D K K P - - - N N S S S - 0 1 M D K K P - - - - N S S S - 0 1 M D K K P - - C N T S - 0 1 M D K K Q - - C K T S - 0 1 M D K K Q - - C K T - S - 0 1 M D K K P - - C N - S - 0 1 M D K K P - - C N - S 0 1 M D K K P - - C N S S S 0	* D V E V R K G P W T M E E D L I L I N Y I A N H G E D V E V R K G P W T M E E D L I L I N Y I A N H G E A E V R K G P W T M E E D L I L I N Y I A N H G E D P E V R K G P W T M E E D L I L I N Y I A N H G E D P E V R K G P W T M E E D L I L I N Y I A N H G E D A E V R K G P W T M E E D L I L I N Y I A N H G E D A E V R K G P W T M E E D L I L I N Y I A N H G E D A E V R K G P W T M E E D L I L I N Y I A N H G E D Y E V R K G P W T M E E D Y R Y A Y A Y A Y	$ \begin{array}{c} {\sf G} \; {\sf V} \; {\sf W} \; {\sf N} \; {\sf S} \; {\sf L} \; {\sf A} \; {\sf K} \; {\sf A} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf S} \; {\sf S} \; {\sf S} \; {\sf L} \; {\sf A} \; {\sf K} \; {\sf S} \; {\sf A} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf S} \; {\sf S} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf S} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf S} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf G} \; {\sf G} \; {\sf M} \; {\sf N} \; {\sf S} \; {\sf L} \; {\sf A} \; {\sf K} \; {\sf S} \; {\sf A} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf G} \; {\sf M} \; {\sf M} \; {\sf S} \; {\sf L} \; {\sf A} \; {\sf K} \; {\sf A} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf G} \; {\sf M} \; {\sf M} \; {\sf S} \; {\sf L} \; {\sf A} \; {\sf K} \; {\sf A} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf G} \; {\sf M} \; {\sf M} \; {\sf S} \; {\sf L} \; {\sf A} \; {\sf K} \; {\sf A} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf T} \; {\sf G} \; {\sf K} \; {\sf S} \; {\sf G} \; {\sf M} \; {\sf M} \; {\sf S} \; {\sf L} \; {\sf A} \; {\sf K} \; {\sf A} \; {\sf G} \; {\sf L} \; {\sf K} \; {\sf K} \; {\sf M} $
* 54 CRLRWLNYLRPDVRRG 54 CRLRWLNYLRPDVRRG	* N I T P E E Q L L I M E L H A K W G N R W S K I A K N I T P E E Q L L I M E L H A K W G N R W S K I A K	* TLPGRTDNEIKNYW-RTR AmMYB305 HLPGRTDNEIKNYWNRTR AmMYB340
61 C R L R W L N Y L R P D V R R G 58 C R L R W L N Y L R P D V R R G 55 C R L R W L N Y L R P D V R R G 56 C R L R W L N Y L R P D V R R G 57 C R L R W L N Y L R P D V R R G 58 C R L R W L N Y L R P D V R R G 56 C R L R W L N Y L R P D V R R G 57 C R L R W L N Y L R P D V R R G 56 C R L R W L N Y L R P D V R R G 56 C R L R W L N Y L R P D V R R G 56 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G 54 C R L R W L N Y L R P D V R R G	N 1 T P E E Q L I I N E L H A K W G N R W S K I A K N I T P E E Q L I I N E L H A K W G N R W S K I A K N I T P E E Q L L I N E L H A K W G N R W S K I A K N I T P E E Q L L I N E L H S N W G N R W S K I A K N I T P E E Q L L I N E L H A K W G N R W S K I A K	$\begin{array}{c} H \ L \ P \ G \ R \ T \ D \ N \ E \ K \ N \ F \ W \ N \ R \ T \ R \ $
113 I Q K H M E Q G D Q S S S T T F 114 I O K H I K O A F A S	N N G Q M N L D H S C - N D Q A S S S F I G H I N P E H S N E O A S T S	0 M S A C G P V V D H T A V D 0 AmMYB305 L L S S S C H A D H A V E IS AmMYB340
120 I 0 K Y I K 0 S D V T T S 117 I 0 K Y I K 0 S D V T T S 114 I 0 K H I K 0 G D 0 115 I 0 K H I K 0 G D 0 115 I 0 K H I K 0 G D 0 114 I 0 K H I K 0 V E N 115 I 0 K H I K 0 A E N 115 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E N 113 I 0 K H I K 0 A E T 114 I 0 K H I K 0 A E T 114 I 0 K H I K 0 A E T 113 I 0 K H I K 0 A E T 114 I 0 K H I K 0 A E T	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} v \ F \ C \ T \ 0 \ D \ 0 \ A \ H \ E \ T \ Y \ S \ P \ T \ S \ A \ L Y \ B \ 2 \ L \\ v \ H \ N \ D \ T \ 0 \ E \ T \ M \ D \ H \ Y \ S \ P \ T \ - \ T \ S \ A \ L Y \ B \ 2 \ L \\ v \ H \ N \ D \ T \ 0 \ E \ P \ M \ E \ N \ S \ P \ T \ - \ T \ S \ A \ L Y \ B \ 2 \ L \\ v \ H \ N \ D \ T \ 0 \ L \ P \ M \ E \ N \ S \ P \ T \ - \ T \ S \ A \ L Y \ B \ 2 \ L \\ v \ H \ N \ S \ L \ R \ S \ S \ S \ T \ V \ G \ L \ D \ A \ M \ E \ T \ - \ T \ S \ C \ M \ Y \ B \ S \ S \ S \ S \ S \ T \ V \ G \ L \ D \ A \ M \ E \ T \ - \ T \ S \ C \ M \ Y \ B \ S \ S \ S \ S \ T \ V \ G \ L \ D \ A \ M \ E \ T \ - \ S \ S \ M \ S \ S \ S \ S \ S \ T \ V \ S \ P \ S \ P \ S \ P \ S \ P \ S \ P \ S \ S$
163 S S Y S P H S F 156 Y S S <mark>S F</mark> N G M	N G N D H T F Q A P P P T N G N N V Q Y <mark>P N</mark> H F P T	H + + + + + + + + + + + + + + + + + + +
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		AmMYB305 AmMYB240 AtMYB21 AtMYB24 CaMYB305 FaE0BII gene28435 GhMYB24 GaMYB181 GaMYB181 GaMYB182 NaMYB305 NINNSMYB305 PhE0BI PhE0BII PhE0BII PhMON1 PsMYB26 SIMYB305 VvMYB24

Figure S2: Sequence alignment of R2R3-MYB proteins. Identical amino acids are shaded in black. The two MYB repeats (R2 and R3) are indicated with sets of arrows, and the critical Trp (W) residues are indicated by asterisks. The W/Y-MDDIW motif region is indicated with a line (+ indicates conserved amino acids). Numbers indicate amino acid positions.

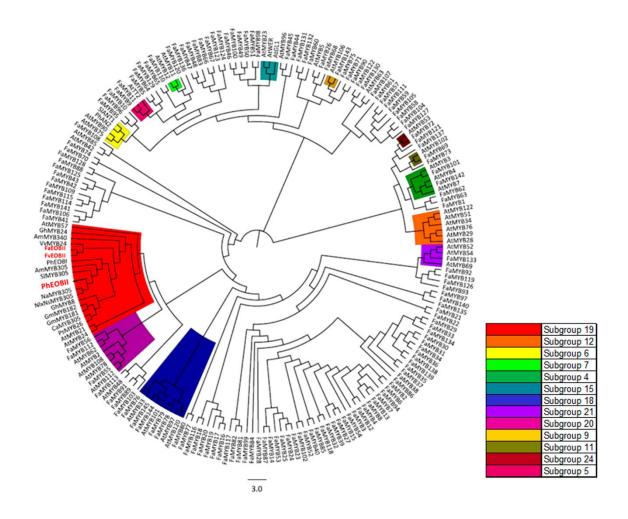


Figure S3: Phylogenetic Tree of 206 MYB Transcription Factor.

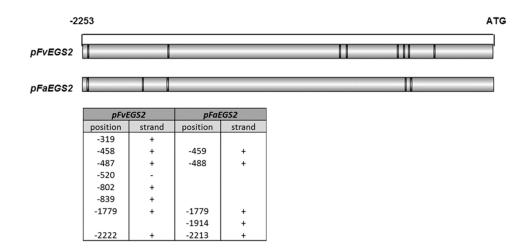
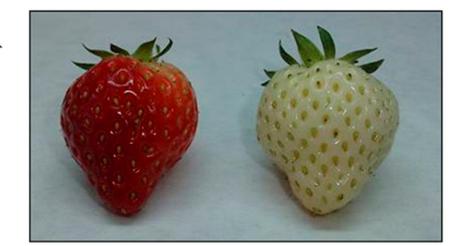


Figure S4: Schematic diagram of *EGS2* promoter from F. × *ananassa* and F. *vesca* varieties using PLACE online database (www.dna.affrc.go.jp) and DOG 2.0.1 for Windows (Illustrator of Protein Domain Structures). The bar on top indicates the length of the promoter fragment relative to the ATG codon. The location of the MBSII boxes is shown using black lines in the diagram, and their exact position is indicated on the panel.





CONTROL

NDGA



С



CONTROL FaNCED1-RNAi



CONTROL

WATER STRESS

Figure S5: Overview of the phenotype of fruits analyzed in studies of the regulation of gene expression regulated by ABA. (A) Strawberry fruits treated with NDGA (100 μ M) and CONTROL fruits injected with H₂O, (B) Transgenics strawberry fruits agroinfiltrated with the pFRN-*FaNCED1* construct (*FaNCED1*-RNAi) and CONTROL fruits agroinfiltrated with the empty pFRN vector and (C) water stressed strawberry fruits (control fruit: fruits with the pedicels immersed in MS medium with sucrose; fruits + water stress: fruits with the pedicels kept in the air).

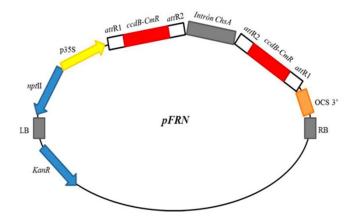


Figure S6: Structure of binary vector pFRN. RB: right border; LB: left border; attR1 and attR2: att sites where the Gateway LR recombination reaction occurs; ccdB: gene for negative selection of clones; CmR: chloramphenicol resistance gene; KanR:kanamycin resistance gene to select positive clones; nptII: kanamycin resistance gene; p35S: 35S promoter of virus cauliflower mosaic; OCS 3': transcription termination sequence.