

Table S1. Primers used for reverse transcription quantitative PCR analysis

Gene	Gene description	Locus tag	Forward primer (5' to 3')	Reverse primer (5' to 3')
<i>PpIAA3</i>	auxin-induced protein 22B	Prupe.6G343700	GTGATTATTGTGAGAAGGAT	CACGAAGTGATGAACATT
<i>PpIAA5</i>	auxin-induced protein IAA6	Prupe.3G074800	AAAGCGAAACGAAGAACCA AG	GCTCCATCCATGCTAACCT TGAC
<i>PpIAA11</i>	auxin-responsive protein IAA11	Prupe.8G215400	CTTCTTCGTCGTCCTCAT	AATCAGCACTTCTCTTGGT
<i>PpIAA17</i>	auxin-responsive protein IAA1	Prupe.3G074900	CTTCTTGACCATCCGTAA	CCATCTCTGCTCCTCATAAG
<i>PpIAA29</i>	auxin-responsive protein IAA29	Prupe.1G481700	ATGTTGGTGAAGGTGAAG	AGCGTCTGATAAGAGTGA
<i>PpARF5</i>	auxin response factor 5	Prupe.1G368300	GAAGGGCTGCTAAATGACCC AAGA	ATACAGCGAACACAACCA ACGA
<i>PpARF7</i>	auxin response factor 7	Prupe.7G194200	AATTGAGCCTGTTGTAAGTC C	TGCCAAAGTCATCTCCAAG CCAA
<i>PpARF8</i>	auxin response factor 6	Prupe.3G182900	AGGCATCTTCTCACGACAGG	GATTGCTCGCCGAATACC CA
<i>PpARF16</i>	auxin response factor 18	Prupe.2G213000	ATCAAGCATACCAGCCATCC A	GCTACAAACTGAAGGCATT GGA
<i>PpARF18</i>	auxin response factor 18	Prupe.2G190400	CAAAGCCAAGTAATACCCCG AT	TTTACACACTGGCTCGCTC T
<i>PpSAUR50</i>	auxin-responsive protein SAUR50	Prupe.6G108400	AATGTGCCAGAAGATGTG	GTGTCAAGTAACTCAATGC
<i>PpGH3.1</i>	probable indole-3-acetic acid-amido synthetase GH3.1	Prupe.8G137900	ATCGCTCTCCTATCTTGT	ACTCCTCCTGAATTGTTG
<i>PpYUCCA2</i>	indole-3-pyruvate monooxygenase YUCCA2	Prupe.7G231200	CCACTTACCCAACCAAAC	CACTCACCCTGTCATATT G
<i>PpYUCCA6</i>	indole-3-pyruvate monooxygenase YUCCA6	Prupe.1G453400	ATTGCTGAGGACATTGAA	GTGATGATGATGATGATAG TG
<i>PpYUCCA10</i>	probable indole-3-pyruvate monooxygenase YUCCA10	Prupe.8G252500	CCATTGATGTTGGAACCT	CCTCTTATGCTGCTGATT
<i>PpSAM</i>	S-adenosylmethionine synthase 5	Prupe.1G107000	GATGAGATTGCTGCTGAT	GTTGAGATGGAAGATGGT

<i>PpERF4</i>	ethylene-responsive transcription factor 4	Prupe.4G051400	TAGCGGAAACGTGAAGGAG	TCTGATCTCGGCAGCGTA
<i>PpERF034</i>	ethylene-responsive transcription factor ERF034	Prupe.2G123200	CAACAACAACCTTCTGATTCT	CTGCCTCTTCTTCTTCTT
<i>Ppβ-gal</i>	beta-galactosidase 10	Prupe.4G278500	AATGTGCTGGTGATATTC	AAGATTCAAGGTCAATAGAG
<i>PpPA</i>	pectin acetylerase 9	Prupe.2G296000	GAAGCAGTAGGTGATTGG	TAAGGTTATGGCAGGTAGT
<i>PpExp2</i>	expansin-A1	Prupe.1G276700	GTTGCTTACAGAAGGGTA	CAGGTTGAAGTAGGAGTG
<i>PpPMEI</i>	21 kDa protein	Prupe.2G279800	TTGATGGTGTGAAGGTAA	AATGAGGCTGTCTATGAG
<i>PpGlu</i>	glucan endo-1,3-beta-glucosidase 9	Prupe.6G050800	TAGTGAACAACAATAAGG	ATTATGCTGCTGATAGTA
<i>PpPG</i>	polygalacturonase At1g48100	Prupe.1G251200	GAATCAGCATCGGAAGTT	ACCATTTCATCGTGTGTG
<i>PpACO1</i>	1-aminocyclopropane-1-carboxylate oxidase 1	Prupe.4G013800	TTGATGAAGATTACAGGAAGT	CACAGCAAGTCCAGAAGT
<i>PpTEF2</i>	elongation factor 2	LOC18778380	GTTGCCTTGGTCGGTCTTGA	ATTGAACAGCAACACGCACAA

Table S2. Primers used for vector construction

Name	Forward/ Reverse primer Sequence (5' to 3')	Description
OE- <i>PpIAA5</i> F	gagagaacacgggggactctagaATGGCCAAAGAAGGTTTAG	Primers used for inserting <i>PpIAA5</i> into vector pCAMBIA3301-121
OE- <i>PpIAA5</i> R	ataagggactgaccacccgggTTATTTAGGATCATCTTTCATAGTT	
OE- <i>PpARF8</i> F	gagagaacacgggggactctagaATGAGACTTTCGTCTTCATCATC	Primers used for inserting <i>PpARF8</i> into vector pCAMBIA3301-121
OE- <i>PpARF8</i> R	ataagggactgaccacccgggGTAGTCCAGTGAGCCCAACGA	
pTRV2- <i>PpARF8</i> F	aaggttacgaattctctagaCTTCATCATCGGCTTCGGGTTTTAA	Primers used for inserting <i>PpARF8</i> into vector pTRV2
pTRV2- <i>PpARF8</i> R	ggtaccggatcccatggaggCCCAACTCCGCAGGCAGTAGGTATA	
GFP- <i>PpIAA5</i> F	gagaacacgggggactctagaATGGCCAAAGAAGGTTTAG	Primers used for inserting <i>PpIAA5</i> into vector pBI121-GFP
GFP- <i>PpIAA5</i> R	ggactgaccacccgggTTATTTAGGATCATCTTTCATAGTT	
GFP- <i>PpARF8</i> F	gagaacacgggggactctagaATGAGACTTTCGTCTTCATCATC	Primers used for inserting <i>PpARF8</i> into vector pBI121-GFP
GFP- <i>PpARF8</i> R	ggactgaccacccgggGTAGTCCAGTGAGCCCAACGA	
CE- <i>PpIAA5</i> F	CGggatccATGGCCAAAGAAGGTTTAGGG	Primers used for inserting <i>PpIAA5</i> into pSPYCE (M)
CE- <i>PpIAA5</i> R	GGggtaccTTTAGGATCATCTTTCATAGTTGCC	
NE- <i>PpARF8</i> F	ggagagaacacgggggactctagaATGAGACTTTCGTCTTCATCATC	Primers used for inserting <i>PpARF8</i> into pSPYNE173
NE- <i>PpARF8</i> R	ttgtccatcccgggagcgggtaccGTAGTCCAGTGAGCCCAACGA	

Table S3. Primers for yeast-two hybrid vector construction

GENE	Forward primer (5' to 3')	Reverse primer (5' to 3')	Amplicon Size (bp)
<i>PpARF2</i>	ATGACGTCATCGGAGGTTTCG	AGGAAGTAGCTGAGACTTCCCCTC	2517
<i>PpARF3</i>	ATGGGGGGTCTAATCGATC	TCCTTGTAACAGCTTTCCATC	2166
<i>PpARF4</i>	ATGGAAATTGATCTGAACCATGCAG	GACCCTGATTACTGTTGGGGAAGAA	2409
<i>PpARF6</i>	ATGAGGCTCTCATCTGCT	ATACTCGAGTGACCCAC	2661
<i>PpARF7</i>	ATGAAGGCTCCTTCAAATGGG	TTTTTGATTGCGATTAAATGAGG	3504
<i>PpARF8</i>	ATGAGACTTTCGTCTTCATCATC	GTAGTCCAGTGAGCCCAACGA	2757
<i>PpARF19</i>	ATGAAGCCGCCGCGAA	GGCATTCCCACCATCTGAGC	3417
<i>PpIAA5</i>	ATGGCCAAAGAAGGTTTAG	TTATTAGGATCATCTTTCATAGTT	573

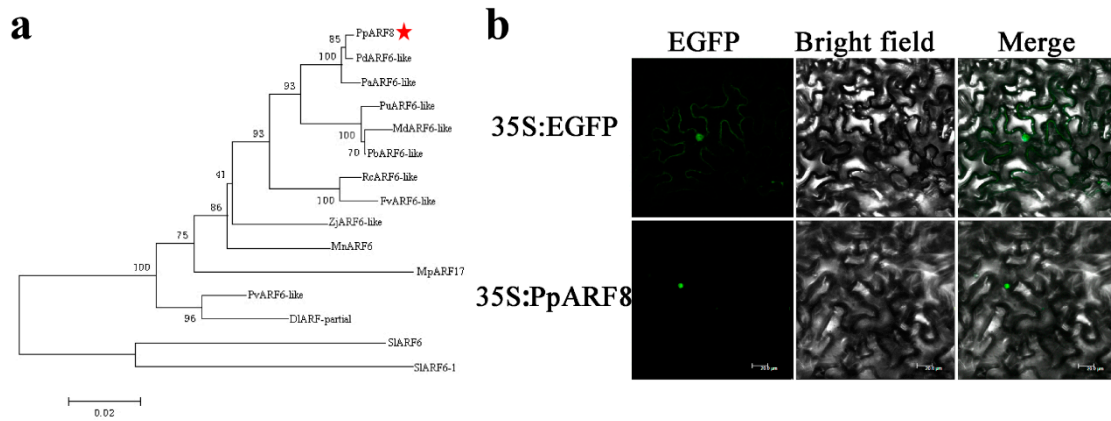


Figure S1. Analysis of PpARF8 characteristics. (a) Homology of PpARF8 homologues among different species. (Note: Phylogenetic tree derived from amino acid sequences of ARFs in peach and other species. PpARF8 was highlighted with the red pentagram. The phylogenetic tree was constructed using the maximum-likelihood method by MEGA 5.0. Numbers indicate bootstrap test result with 1000 replicate analyses. The scale bar represents 0.02 substitutions per site.); (b) The results of subcellular localization showed that PpARF8 was localized in the nucleus, Scale bar = 20 μ m.