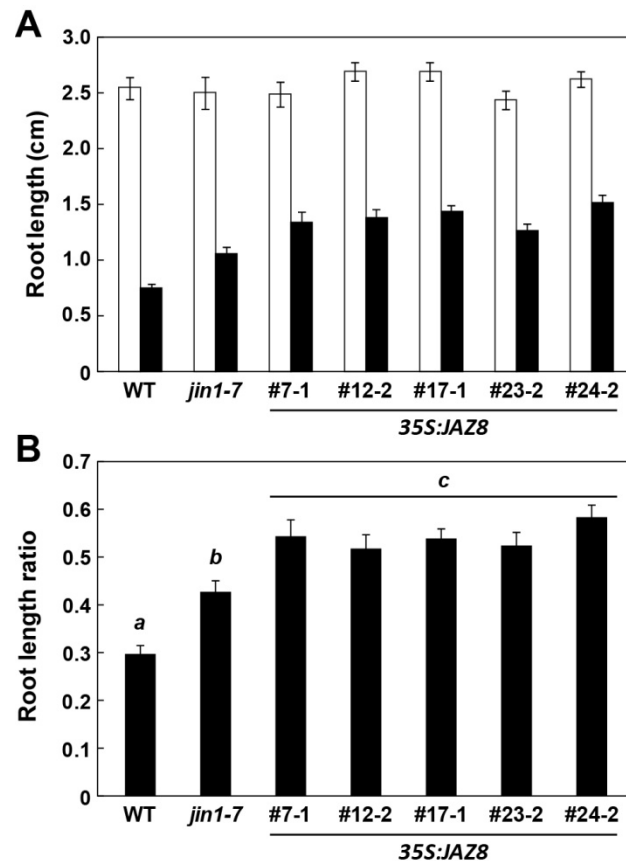


Supplemental Figure 1. Phylogenetic Tree Constructed from the Jas Motif of Arabidopsis JAZ Proteins.

The 27-amino-acid Jas motif in all 12 Arabidopsis JAZ proteins was aligned with MUSCLE (Edgar, 2004). The phylogenetic tree was generated with the Neighbor-joining method using MEGA5 software (<http://www.megasoftware.net>). Red circles indicate JAZ proteins that have a predicted EAR motif.

Reference

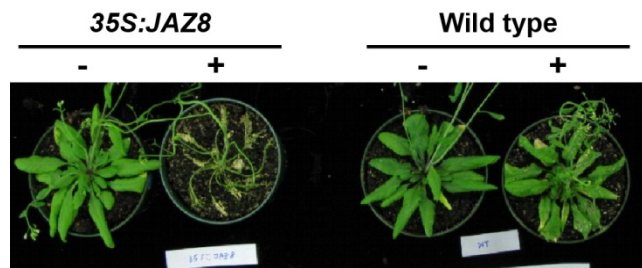
Edgar, R.C. (2004) MUSCLE: multiple sequence alignment with high accuracy and high throughput. *Nucleic Acids Res.* **32**:1792-1797.



Supplemental Figure 2. JA-Mediated Root Growth Inhibition in Independent *35S:JAZ8* Lines.

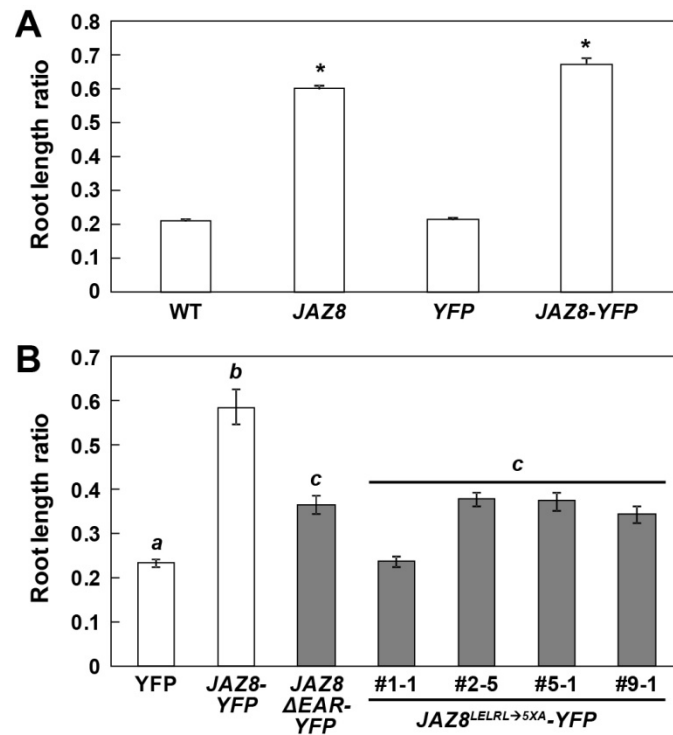
(A) Five independent homozygous *35S:JAZ8* lines, which were selected for high expression of the transgene, were grown together with WT and *jin1-7* seedlings on MS medium supplemented (filled bars) or not supplemented (open bars) with 20 μ M MeJA. Plants were grown for 8 d on a 16-h light and 8-h dark cycle. Data show the mean \pm SE for each genotype ($n > 18$ seedlings per genotype). The mean root length of each *35S:JAZ8* line was significantly longer ($P < 0.05$, Student's t-test) than that of the *jin1-7* mutant in the presence of MeJA.

(B) Data shown in (A) were plotted as root length ratio, which was calculated by dividing the average the root length of seedlings grown on MeJA-containing medium by the mean root length of seedlings of the same genotype grown in the absence of MeJA. Means with different italicized letters are significantly different at $P < 0.05$.



Supplemental Figure 3. 35S:JAZ8 Plants are Compromised in Resistance to Herbivory by *S. exigua* Larvae.

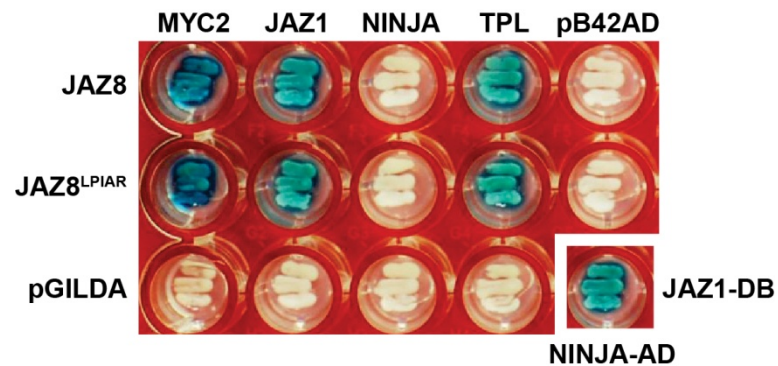
Six-week-old 35S:JAZ8 (line #24) and wild-type (WT) plants were challenged (+) for 14 d with *Spodoptera exigua* larva. A separate set of control plants grown side-by-side with the challenged plants were not infested (-) with larvae. The photograph was taken at the end of the feeding trial.



Supplemental Figure 4. JA-Mediated Root Growth Inhibition in 35S:JAZ8-YFP Lines.

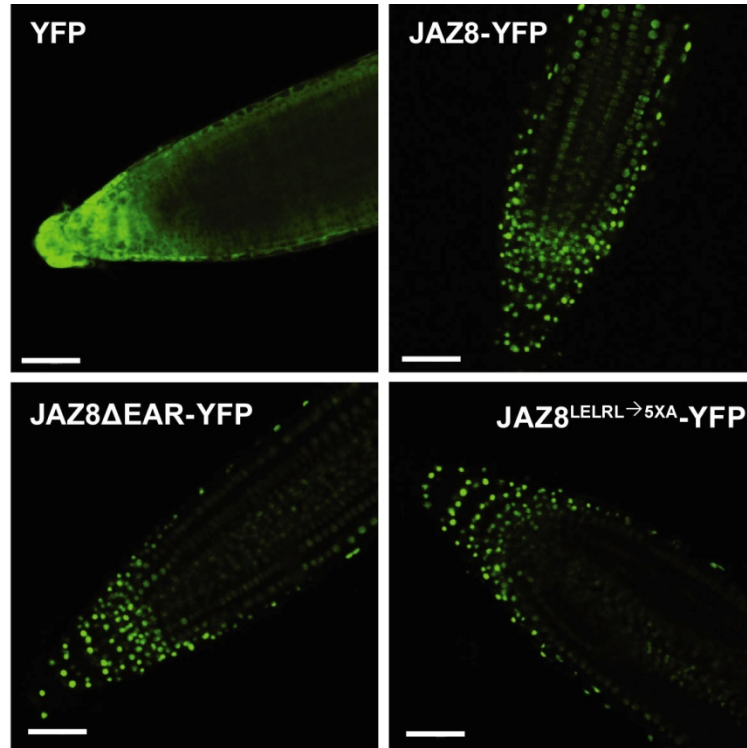
(A) 35S:JAZ8-YFP plants are insensitive to MeJA. Wild-type (WT), 35S:JAZ8 (line #24; JAZ8), 35S:YFP (YFP), and 35S:JAZ8-YFP (JAZ8-YFP) seedlings were grown on MS medium supplemented with or without 25 μ M MeJA for 8 d under continuous light. Root length ratios were calculated as described in the legend of Supplemental Figure 2B. Data show the mean \pm SE for each genotype ($n > 20$ seedlings per genotype). Asterisks indicate significant differences ($P < 0.05$, Student's t-test) in comparisons between the indicated transgenic line and WT.

(B) Mutation of the EAR motif suppresses the JA-insensitive root growth phenotype of 35S:JAZ8-YFP seedlings. Root growth inhibition assays were performed with 35S:YFP (YFP), 35S:JAZ8-YFP (JAZ8-YFP), 35S:JAZ8 Δ EAR-YFP (JAZ8 Δ EAR-YFP; gray bars), and four independent 35S:JAZ8^{LELRL→5xA}-YFP (JAZ8^{LELRL→5xA}-YFP; gray bars) homozygous lines (T3 generation). Seedlings were grown for 8 d on MS medium containing or lacking 20 μ M MeJA. Data were plotted as root length ratio as described in panel (A). Data show the mean \pm SE for each genotype ($n > 23$ seedlings per genotype). Means with different italicized letters are significantly different at $P < 0.05$. The root length ratio of 35S:JAZ8^{LELRL→5xA}-YFP seedlings was calculated as the mean of all four independent 35S:JAZ8^{LELRL→5xA}-YFP lines.



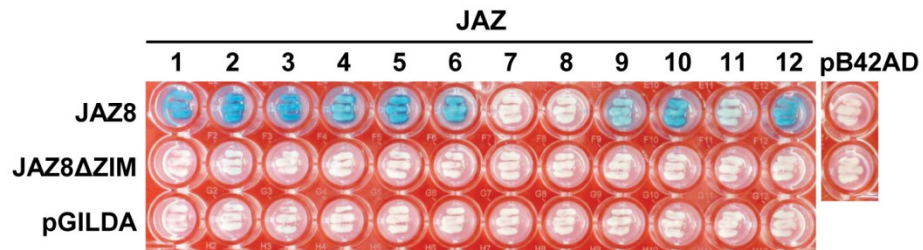
Supplemental Figure 5. Substitution of PKASM to LPIAR does not Affect the Ability of JAZ8 to Interact with MYC2, JAZ1, or TPL.

Yeast strains expressing both the bait (JAZ8 or JAZ8^{LPIAR}) and prey (MYC2, JAZ1, NINJA or TPL) were plated on SD-Gal medium containing X-gal. Blue color indicates protein-protein interaction. Photographic image was taken 48 h after incubation of yeast cells at 30°C. As a positive control for NINJA interaction, yeast cells were cotransformed with pB42AD-NINJA and pGILDA-JAZ1 (lower right).



Supplemental Figure 6. Nuclear Localization of JAZ8-YFP Fusion Proteins.

Root tips of 9-day-old seedlings expressing the indicated JAZ-YFP reporter were imaged with an Olympus Fluoview confocal microscope. Transgenic lines were *35S:YFP* (YFP), *35S:JAZ8-YFP* (JAZ8-YFP), *35S:JAZ8ΔEAR-YFP* #1-1 (JAZ8ΔEAR-YFP), and *35S:JAZ8^{LELRL→5xA}-YFP* #5-1 (JAZ8^{LELRL→5xA}-YFP). Scale bar = 50 μm.



Supplemental Figure 7. Yeast Two-hybrid Analysis of JAZ8 and JAZ8ΔZIM Interactions with other Arabidopsis JAZ proteins.

Yeast strains expressing both the bait (JAZ8 or JAZ8ΔZIM) and prey (JAZ1 – JAZ12) were plated on plates containing X-gal. Blue colors indicate protein-protein interaction. Photographic images were taken 48 h after incubation of yeast cells at 30°C.

Supplemental Table 1. List of oligonucleotide primers used in this study.**Primers in this section used for Y2H and overexpression constructs**

INSERT	VECTOR	PRIMER NAME	SEQUENCE	NOTE
JAZ8	pGILDA & pB42AD	JAZ8_NcoI_FP	5'-CCATGGATGAAGCTACAGCAAAAATTGTG-3'	Yeast two-hybrid vectors
		JAZ8_XhoI_RP	5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	
	pBI-TONY	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	Overexpression vector
		JAZ8_KpnI_RP	5'-ATATGGTACCTTATCGTCGTGAATGGTACG-3'	
	pBI-EYFP	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	Overexpression vector tagged with EYFP
JAZ8ns_XhoI_RP		5'-CTCGAGTCGTCGTGAATGGTACGGTG-3'		
pENTR-TOPO	JAZ8_pENTR_FP	5'-CACCATGAAGCTACAGCAAAAATTGTG-3'	Gateway construct	
JAZ8_pENTR_RP	5'-TTATCGTCGTGAATGGTACGGTG-3'			
JAZ8-Jas10	pGILDA & pB42AD	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	Used EcoRI site from pGEM-T Easy for cloning into Y2H vectors
		JAZ10_NcoI_RP	5'-CCATGGTATAGGCCGATGTCGGATAGTAAG-3'	
	pBITONY	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
		JAZ10_KpnI_RP	5'-GGTACCTTAGGCCGATGTCGGATAGTAAG-3'	
	pBI-EYFP	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
JAZ10ns_KpnI_RP		5'-GGTACCGCCGATGTCGGATAGTAAGGAG-3'		
JAZ10-Jas8	pGILDA & pB42AD	JAZ10_NcoI_FP	5'-CCATGGATGTCGAAAGCTACCATAGAAC-3'	
		JAZ8_XhoI_RP	5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	
	pBITONY	JAZ10_BamHI_FP	5'-GGATCCATGTCGAAAGCTACCATAGAAC-3'	
		JAZ8_XhoI_RP	5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	
	pBI-EYFP	JAZ10_BamHI_FP	5'-GGATCCATGTCGAAAGCTACCATAGAAC-3'	
JAZ8ns_XhoI_RP		5'-CTCGAGTCGTCGTGAATGGTACGGTG-3'		
JAZ8ΔZIM	pGILDA & pB42AD	JAZ8_NcoI_FP	5'-CCATGGATGAAGCTACAGCAAAAATTGTG-3'	
		JAZ8_XhoI_RP	5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	
	pBI-TONY	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
		JAZ8_KpnI_RP	5'-ATATGGTACCTTATCGTCGTGAATGGTACG-3'	
	pBI-EYFP	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
JAZ8ns_XhoI_RP		5'-CTCGAGTCGTCGTGAATGGTACGGTG-3'		
JAZΔEAR	pENTR-TOPO	JAZ8_pENTR_FP	5'-CACCATGAAGCTACAGCAAAAATTGTG-3'	JAZΔEAR further cloned into pGILDA & pB42AD via Gateway cloning
		JAZ8_pENTR_RP	5'-TTATCGTCGTGAATGGTACGGTG-3'	
	pBI-TONY	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
		JAZ8_XhoI_RP	5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	
	pBI-EYFP	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
JAZ8ns_XhoI_RP		5'-CTCGAGTCGTCGTGAATGGTACGGTG-3'		
JAZ8ΔEZ	pENTR-TOPO	JAZ8_pENTR_FP	5'-CACCATGAAGCTACAGCAAAAATTGTG-3'	JAZ8ΔEZ further cloned into pGILDA & pB42AD via Gateway cloning
		JAZ8_pENTR_RP	5'-TTATCGTCGTGAATGGTACGGTG-3'	
	pBI-TONY	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
		JAZ8_XhoI_RP	5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	
	pBI-EYFP	JAZ8_Xbal_FP	5'-ATATTTCTAGAATGAAGCTACAGCAAAAATTGTG-3'	
JAZ8ns_XhoI_RP		5'-CTCGAGTCGTCGTGAATGGTACGGTG-3'		

Primers in this section used for MBP-JAZ-His constructs

INSERT	VECTOR	PRIMER NAME	SEQUENCE	NOTE
JAZ6	pRMG-nMAL	AtJAZ6-5'NotI	5'-GCGCGGCCCATGTCAACGGACAAGCGC-3'	
		AtJAZ6-3'XhoI	5'-CGGCTCGAGAAGCTTGAAGTTTCAAGTTTTGG-3'	
JAZ7	pRMG-nMAL	NotI-C-JAZ7-FP	5'-GCGCGGCCCATCATCATCAAAAAGCTGCGACAAGCC-3'	
		JAZ7_NotI_FP	5'-GCGCGGCCCATGATCATCATC-3'	
		JAZ7_XhoI_RP	5'-CTCGAGCTATCGGTAACGGTGGTAAG-3'	
JAZ8	pRMG-nMAL	JAZ8_NotI_FP	5'-GCGCGCCGATGAAGCTACAGC-3'	
		JAZ8 XhoI RP	5'-CTCGAGTTATCGTCGTGAATGGTACG	
JAZ12	pRMG-nMAL	AtJAZ12-NotI F	5'-GCGCGGCCGCACTAAGGTGAAAGATGAG-3'	
		AtJAZ12-Sall R	5'-TCGGTGCACAGCAGTTGAAAATCCTCC-3'	
JAZ8-Jas10	pRMG-nMAL	JAZ8_NotI_FP	5'-GCGCGCCGATGAAGCTACAGC-3'	
		AtJAZ10-Sall	5'-TCGGTGCACGCGCATGTCGGATAG-3'	
JAZ10-Jas8	pRMG-nMAL	AtJAZ10-NotI	5'-GCGCGGCCGCTGAAAGCTACCATAGAAGCTCG-3'	
		JAZ8 XhoI RP	5'-CTCGAGTTATCGTCGTGAATGGTACG	
JAZ8 ^{PAR}	pRMG-nMAL	JAZ8_NotI_FP	5'-GCGCGCCGATGAAGCTACAGC-3'	
		JAZ8 XhoI RP	5'-CTCGAGTTATCGTCGTGAATGGTACG	

Primers in this section used for chimeric proteins and deletion constructs

CONSTRUCT	TEMPLATE	PRIMER NAME	SEQUENCE	NOTE
JAZ8-Jas10	JAZ8	JAZ8_Xbal_FP JAZ8_Jas10_RP	5'-ATATTCTAGAATGAAGCTACAGCAAAATTTGTG-3' 5'-GCGATGGGAAGATCTGGAAGCTGATTATGATGAAATG-3'	1st PCR reaction to amplify a portion of JAZ8 (1-100 aa)
	JAZ10.1	JAZ8_Jas10_FP JAZ10_KpnI_RP	5'-CATAATCAGCTTCCAGATCTTCCATCGCAAGGAG-3' 5'-GGTACCTTAGGCCGATGTCGGATAGTAAG-3'	2nd PCR reaction to amplify a portion of JAZ10.1 (166-205 aa)
	JAZ8 (1-100 aa) & JAZ10.1 (166-205 aa)	JAZ8_Xbal_FP JAZ10_KpnI_RP	5'-ATATTCTAGAATGAAGCTACAGCAAAATTTGTG-3' 5'-GGTACCTTAGGCCGATGTCGGATAGTAAG-3'	3rd PCR reaction to amplify JAZ8-Jas10
	JAZ10.1	JAZ10_BamHI_FP JAZ10_Jas8_RP	5'-GGATCCATGTCGAAAGCTACCATAGAAC-3' 5'-GATGCTTTTGGATTTCTCTAGATTCTGCCAAAAG-3'	1st PCR reaction to amplify a portion of JAZ10.1 (1-165 aa)
JAZ10-Jas8	JAZ8	JAZ10_Jas8_FP JAZ8_XhoI_RP	5'-GAATCTAGAAGAAATCCAAAAGCATCAATGAAAATC-3' 5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	2nd PCR reaction to amplify a portion of JAZ8 (101-131 aa)
	JAZ10.1 (1-165 aa) & JAZ8 (72-131 aa)	JAZ10_BamHI_FP JAZ8_XhoI_RP	5'-GGATCCATGTCGAAAGCTACCATAGAAC-3' 5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	3rd PCR reaction to amplify JAZ10-Jas8
	JAZ8	JAZ8_NcoI_FP JAZ8_deltaZIM_RP	5'-CCATGGATGAAGCTACAGCAAAATTTGTG-3' 5'-GTTTTCTCATTCTCTGCTTTGAGATCTTCAATTTGG-3'	1st PCR reaction to amplify a portion of JAZ8 (1-44 aa)
	JAZ8	JAZ8_deltaZIM_FP JAZ8_XhoI_RP	5'-CCAAATGAAGATCTCAAGCAGAGAAATGAAAC-3' 5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	2nd PCR reaction to amplify a portion of JAZ8 (72-131 aa)
JAZ8ΔZIM	JAZ8 (1-44 aa) & JAZ8 (72-131 aa)	JAZ8_NcoI_FP JAZ8_XhoI_RP	5'-CCATGGATGAAGCTACAGCAAAATTTGTG-3' 5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	3rd PCR reaction to amplify JAZ8ΔZIM
	JAZ8	JAZ8_deltaEAR_FP JAZ8_pENTR_RP	5'-GCTACAGCAAAATTTGTGAC TTTCCACTTCTTATGATTC-3' 5'-TTATCGTCGTGAATGGTACGGTG-3'	1st PCR reaction to amplify a portion of JAZ8 lacking the EAR motif
	JAZ8 (6-396 bp)	JAZ8_pENTR_FP JAZ8_pENTR_RP	5'-CACCATGAAGCTACAGCAAAATTTGTG-3' 5'-TTATCGTCGTGAATGGTACGGTG-3'	2nd PCR reaction to amplify JAZ8ΔEAR
	JAZ8	JAZ8_deltaEAR_FP JAZ8_pENTR_RP	5'-GCTACAGCAAAATTTGTGAC TTTCCACTTCTTATGATTC-3' 5'-TTATCGTCGTGAATGGTACGGTG-3'	1st PCR reaction to amplify a portion of JAZ8 lacking the EAR motif and ZIM domain
JAZ8ΔEZ	JAZ8ΔZIM (6-315 bp)	JAZ8_pENTR_FP JAZ8_pENTR_RP	5'-CACCATGAAGCTACAGCAAAATTTGTG-3' 5'-TTATCGTCGTGAATGGTACGGTG-3'	2nd PCR reaction to amplify JAZ8ΔEZ
	JAZ8	JAZ8_NcoI_FP JAZ8_XhoI_306R	5'-CCATGGATGAAGCTACAGCAAAATTTGTG-3' 5'-CTCGAGTTATGGATTTGGAAGCTGATTATG-3'	
JAZ8ΔJas	JAZ8	JAZ8_ATG133_NcoI_FP JAZ8_XhoI_RP	5'-CCATGGATGCAATACAGCTTCCAAATCC-3' 5'-CTCGAGTTATCGTCGTGAATGGTACG-3'	

Primers in this section used for site-directed mutagenesis

CONSTRUCT	TEMPLATE	PRIMER NAME	SEQUENCE	NOTE
JAZ8 ^{PIAR-AAAAA}	JAZ8	JAZ8_AR_FP JAZ8_AR_RP	5'-CCAAATCCAAAAGCAGCAAGGAAAAATCTCTCC-3' 5'-GGAGAGATTTTTCTTGTGCTTTTGGATTTGG-3'	Forward primer to create SM ->AR mutation Reverse primer to create SM ->AR mutation
	JAZ8 ^{AR-AAA}	JAZ8_IAR_FP JAZ8_IAR_RP	5'-CCAAATCCAAAATCCAAAATCGCAAGGAAAAATCTCTCC-3' 5'-GAGAGATTTTTCTTGTGCTTTTGGATTTGGATTTGG-3'	Forward primer to create ASM ->IAR mutation Reverse primer to create ASM ->IAR mutation
	JAZ8 ^{PIAR-AAA}	JAZ8_PIAR_FP JAZ8_PIAR_RP	5'-CTTCCAAATCCAAATCCAAATCCGCAAGGAAAAATC-3' 5'-GATTTTTCTTGTGCTTTTGGATTTGGATTTGGAAAG-3'	Forward primer to create KASM ->PIAR mutation Reverse primer to create KASM ->PIAR mutation
	JAZ8 ^{PIAR-AAAAA}	JAZ8_LPIAR_FP JAZ8_LPIAR_RP	5'-CATAATCAGCTTCCA AATCTTCCATGCGCAAGGAAAAATC-3' 5'-GATTTTTCTTGTGCTTTTGGATTTGGATTTGGAAAG-3'	Forward primer to create PKASM ->LPIAR mutation Reverse primer to create PKASM ->LPIAR mutation
	JAZ8	JAZ8_LEtoAA_FP JAZ8_LEtoAA_RP	5'-GCTACAGCAAAATTTGTGACGCGGCACCTCGTCTTTTCCCAC-3' 5'-GTGGGAAAAAGACGAAAGTCCGCGTCAACAATTTGCTGTAGC-3'	Forward primer to create LE -> AA mutation Reverse primer to create LE -> AA mutation
	JAZ8 ^{LE-AAA}	LELRLtoAAAAA_FP LELRLtoAAAAA_RP	5'-GCAAAATTTGTGACGCGGCAGCTGCTGTTTTCCACTTCTTATGATTC-3' 5'-GAATCATAGAAGTGGGAAAGCAGCAGCTGCCGCTCACAATTTTGC-3'	Forward primer to create LELRL -> AAAAA mutation Reverse primer to create LELRL -> AAAAA mutation

Primers in this section used for constructs in the carrot protoplast assay

CONSTRUCT	TEMPLATE	PRIMER NAME	SEQUENCE	NOTE
35S::GD-JAZ8		JAZ8-F JAZ8-R	5'-GGGGACAAGTTTGTACAAAAAAGCAGGCTCAATGAAGCTACAGCAAAATTTGACTTGG-3' 5'-GGGGACCACCTTTGTACAAAGAGCTGGTCTCATCGTCGTGAATGGTACGGTGAAGTAG-3'	Effector primers used in carrot protoplasts assay Effector primers used in carrot protoplasts assay
		JAZ8N-F JAZ8N-R	5'-GGGGACAAGTTTGTACAAAAAAGCAGGCTCAATGAAGCTACAGCAAAATTTGACTTGG-3' 5'-GGGGACCACCTTTGTACAAAGAGCTGGTCTCATCGTCGTGAATGGTACGGTGAAGTAG-3'	Effector primers used in carrot protoplasts assay Effector primers used in carrot protoplasts assay
JAZ8-L9A	JAZ8	JAZ8-L9A-F JAZ8-L9A-R	5'-AAGCTACAGCAAAATTTGTGACGCGGAACCTCGTCTTTTCCCAC-3' 5'-GTGGGAAAAAGCAGCAAGTCCGCGTCAACAATTTGCTGTAGCT-3'	Site-directed mutagenesis primer used in carrot protoplast assay Site-directed mutagenesis primer used in carrot protoplast assay
		JAZ8-E10A	JAZ8-E10-F JAZ8-E10-R	5'-CAGCAAAATTTGTGACTTGGCACTTCTGCTTTTCCCAC-3' 5'-AGTGGGAAAAAGCAGCAAGTCCGCGTCAACAATTTGCTGTAGCT-3'
JAZ8-L11A	JAZ8	JAZ8-L11A-F JAZ8-L11A-R	5'-GCTACAGCAAAATTTGTGACTTGAAGCTGCTCTTTTCCCAC-3' 5'-AGTGGGAAAAAGCAGCAAGTCCGCGTCAACAATTTGCTGTAGCT-3'	Site-directed mutagenesis primer used in carrot protoplast assay Site-directed mutagenesis primer used in carrot protoplast assay
		JAZ8-R12A	JAZ8-R12A-F JAZ8-R12A-R	5'-CTACAGCAAAATTTGTGACTTGAAGCTTGTCTTTTCCCAC-3' 5'-GAAGTGGGAAAAAGCAGCAAGTCCGCGTCAACAATTTGCTGTAGCT-3'
JAZ8-L13A	JAZ8	JAZ8-L13A-F JAZ8-L13A-R	5'-CAAAATTTGTGACTTGAAGCTTGTGCTTTTCCCAC-3' 5'-TCAGAATCATAGAAGTGGGAAAGCAGCAAGTCCGCGTCAACAATTTTGG-3'	Site-directed mutagenesis primer used in carrot protoplast assay Site-directed mutagenesis primer used in carrot protoplast assay
		JAZ8-F14A	JAZ8-F14A-F JAZ8-F14A-R	5'-ACAGCAAAATTTGTGACTTGAAGCTTGTGCTTTTCCCAC-3' 5'-AATCATAGAAGTGGGAAAGCAGCAAGTCCGCGTCAACAATTTTGG-3'

Primers in this section used for other Y2H constructs

INSERT	VECTOR	PRIMER NAME	SEQUENCE	NOTE
NINJA	pENTR-TOPO	NINJA_pEntr_EcoRI_FP	5'-CACCGAATTCATGGACGATGATAATGGGCTC-3'	NINJA further cloned into pGILDA & pB42AD via Gateway cloning
		NINJA_BglII_pB42AD_RP	5'-AGATCTTCAGGTGTGAGCTGACGCTGC-3'	
TPL	pENTR-TOPO	TPL_pENTR_FP	5'-CACCATGTCTTCTCTTAGTAGAGAGCTCG-3'	TPL further cloned into pGILDA & pB42AD via Gateway cloning
		TPL_pENTR_RP	5'-CCC GGG TCATCTCTGAGGCTGATCAG-3'	
MYC2	pGILDA & pB42AD			Described in Chung et al (2009)
JAZ3	pGILDA & pB42AD			Described in Chung et al (2009)
JAZ1	pGILDA & pB42AD			Described in Melotto et al (2008)

Supplemental Table 2.
JAZ genes used for construction of consensus motifs shown in Figure 6.

JAZ8-like sequences used for consensus Jas motif shown in Figure 6A

SPECIES	GENE ID	Jas MOTIF
<i>Arabidopsis lyrata</i>	881314	NPKASMKKSLSQSFQKRSRIQATSPY
<i>Arabidopsis lyrata</i>	333262	NQKVSMKRSLRSFQKRNVRQATSPY
<i>Arabidopsis lyrata</i>	482423	NQKVSMKRSLRSFQKRNVRQATSPY
<i>Glycine max</i>	Glyma05g27280.1	STGLSMKRSLQRFQKRNVRQETSPY
<i>Glycine max</i>	Glyma08g27280.1	GTGLSMKRSLQRFQKRNVRQETSPY
<i>Glycine max</i>	Glyma13g29070.1	GTGLSMKRSLQRFQKRNVRQEASPY
<i>Glycine max</i>	Glyma15g09980.1	GTGSPMRKSLQRFQKRNVRQEASPY
<i>Carica papaya</i>	supercontig_17.12	ANGLSMKRSLQRFQKRKHSIRATSPY
<i>Ricinus communis</i>	29693.m001988	STGLSMKRSLQRFQKRNVRQATSPY
<i>Ricinus communis</i>	29693.m001989	NNGLSMKRSLQRFQKRNVRQATCPY
<i>Cucumis sativus</i>	Cucsa.047800.1	TPGLSMKKSLSQSFQKRNVRQATSPY
<i>Cucumis sativus</i>	Cucsa.054580.1	EASPSMRRSLQRFQKRNVRQATSPY
<i>Cucumis sativus</i>	Cucsa.054630.1	GSGLSMKRSLQRFQKRNVRQASPY
<i>Cucumis sativus</i>	Cucsa.179960.1	AGFSIKKSLQKFLQRRKRRIRTMSPY
<i>Medicago truncatula</i>	Medtr2g024430.1	GPGLSMKRSLQRFQKRNVRQETSPY
<i>Medicago truncatula</i>	Medtr4g154880.1	QSGLSMKRSLQRFQKRNVRQETSPY
<i>Prunus persica</i>	ppa013410m	VAGMSMKRSLQRFQKRNVRQATSPY
<i>Prunus persica</i>	ppa018461m	PPGVSMKRSLQSFQKRNVRQETSPY
<i>Mimulus guttatus</i>	mgv1a016361m	TSGLSMKRSLQRFQKRNVRQATSPY
<i>Mimulus guttatus</i>	mgv1a016202m	SSVSMKRSLKMFQKRNVRQATSPY
<i>Vitis Vinifera</i>	GSVIVT01021514001	ATGLSMKRSLQRFQKRNVRQATSPY
<i>Vitis Vinifera</i>	GSVIVT01021516001	PTGLSMKRSLQRFQKRNVRQATSPY
<i>Vitis Vinifera</i>	GSVIVT01021519001	PTGLSMKRSLRSFQKRNVRQATSPY
<i>Manihot esculenta</i>	cassava4.1_026855m	VYSPNMKISLQRFQKRNVRQATSPY
<i>Manihot esculenta</i>	cassava4.1_019045m	AAGLSMKRSLQRFQKRNVRQENSPY
<i>Manihot esculenta</i>	cassava4.1_018315m	NTALSMKRSLQRFQKRNVRQATSPY
<i>Citrus sinensis</i>	orange1.1g046141m	NSGLSMKRSLQRFQKRNVRQATSPY
<i>Populus trichocarpa</i>	POPTR_0006s02410.1	PPGLSLKRSLQRFQKRNVRQATSPY
<i>Eucalyptus grandis</i>	Egrandis_v1_0.031045m	STGLSMKRSLQRFQKRNVRQATSPY
<i>Eucalyptus grandis</i>	Egrandis_v1_0.049073m	GTGLSMKRSLQRFQKRNVRQATSPY
<i>Citrus clementina</i>	clementine0.9_025662m	NSGLSMKRSLQRFQKRNVRQATSPY
<i>Arabidopsis thaliana</i>	AT2G34600.1	YQKASMKRSLHSFQKRNVRQATSPY
<i>Arabidopsis thaliana</i>	AT1G30135.1	NPKASMKKSLSQSFQKRNVRQATSPY

JAZ10-like sequences used for consensus Jas motif shown in Figure 6B

SPECIES	GENE ID	JAS MOTIF
<i>Sorghum bicolor</i>	Sb01g045180	DMPLARKVSLKRFLEKRKNRLTAADPY
<i>Sorghum bicolor</i>	Sb02g025720	DLPIARRNSLHRFLEKRKDRITAKAPY
<i>Sorghum bicolor</i>	Sb06g031060	DLPIARRHSLQRFLKRRDRIVSKAPY
<i>Selaginella moellendorffii</i>	439249	DLPQARKASLHRFLEKRKDRLFAKSDK
<i>Arabidopsis lyrata</i>	488996	DLPIARRHSLQRFLKRRDRLVNKNPY
<i>Arabidopsis lyrata</i>	936941	DVPIARRRSLQRFLKRRDRFVHTNPY
<i>Arabidopsis lyrata</i>	476379	VERIARRASLHRFFAKRKDRAVARAPY
<i>Arabidopsis lyrata</i>	472142	ELPIARRASLHRFLEKRKDRVTSKAPY
<i>Arabidopsis lyrata</i>	476633	ELPIARRASLHRFLEKRKDRITSKAPY
<i>Arabidopsis lyrata</i>	488138	DLPIARRKSLQRFLKRRKERLVSTSPY
<i>Glycine max</i>	Glyma09g09100.1	EFPIARRHSLQRFLKRRDRLGSKAPY
<i>Glycine max</i>	Glyma09g09100.2	EFPIARRHSLQRFLKRRDRLGSKAPY
<i>Glycine max</i>	Glyma13g17180.1	DLPIARKASLHRFSLKRRDRIAAKAPY
<i>Glycine max</i>	Glyma13g17640.2	EFPLARRQSLQRFLKRRNRNLANKSPH
<i>Glycine max</i>	Glyma15g19840.4	HLPIARKASLHRFLEKRKDRIASKAPY
<i>Glycine max</i>	Glyma15g20670.1	EFPIARRHSLQRFLKRRDRLGSKTPY
<i>Glycine max</i>	Glyma17g05540.1	ELPIARKVSLHRFSLKRRKDRIASKAPY
<i>Carica papaya</i>	supercontig_113.51	NLPIARKISLQHFIEKRRKSRVMSQSPY
<i>Brachypodium distachyon</i>	Bradi1g72600.1	EMPMARKASLQRFLKRRKSRLLAAADPY
<i>Brachypodium distachyon</i>	Bradi3g10820.1	DLPIARKASLHRFLEKRKDRLHAKAPY
<i>Brachypodium distachyon</i>	Bradi4g31240.1	DLPIARRNSLHRFLEKRKGRVIKAPY
<i>Brachypodium distachyon</i>	Bradi5g08650.1	DIPLARTKSLQQFLVKRERLTHLGPY
<i>Brachypodium distachyon</i>	Bradi5g24410.2	DLPIARRHSLQRFLKRRDRIVSKAPY
<i>Ricinus communis</i>	29727.m000494	DLPIARRASLHRFFEKRRDRAAAKAPY
<i>Ricinus communis</i>	29765.m000754	DLPIARKLSLQHFLEKRRRRRTGKSPY
<i>Ricinus communis</i>	30128.m009047	DLPIARRKSLQRFLKRRKERLTSASPY
<i>Oryza sativa</i>	Os03g08320	DMPIARKVSLQRFLKRRKNRIVVAEPL
<i>Oryza sativa</i>	Os04g32480	KEPLTRTKSLQRFLSKRKERLTLGPHY
<i>Oryza sativa</i>	Os09g26780	DLPIARRNSLHRFLEKRKGRMNANAPY
<i>Cucumis sativus</i>	Cucsa.141940	ALPMARKASIQRFLEKRKDRLTPRTPY
<i>Cucumis sativus</i>	Cucsa.149450	DLPIARRASLHRFFEKRRDRVAARGPY
<i>Cucumis sativus</i>	Cucsa.349280	DLPIARKKSLQRFLKRRKERLTTASPY
<i>Medicago truncatula</i>	Medtr5g013690	DLPMTRKASLHRFLEKRKDRIAAKAPY
<i>Prunus persica</i>	ppa011370m	DLPIARRASLHKFLAKRKRERVAIAPY
<i>Prunus persica</i>	ppa011303m	EFPIARRHSLQRFLKRRDRLVSKNPY
<i>Prunus persica</i>	ppa011173m	DLPIARRKSLQRFLKRRKERLNSVSPF
<i>Mimulus guttatus</i>	mgv1a012664m	YLPIARKKSLARFLEKRKDRITANAPY
<i>Mimulus guttatus</i>	mgv1a015572m	DLPITRRISLQRFLKRRERLIMLSPY
<i>Mimulus guttatus</i>	mgv1a015559m	DLPITRRISLQRFLKRRERLIMLSPY
<i>Vitis Vinifera</i>	GSVIVT01000967001	DLPLARRKSLHRFLEKRKERLTSVYPY
<i>Vitis Vinifera</i>	GSVIVT01015042001	ELPIARKASLHRFLEKRKDRITARAPY
<i>Vitis Vinifera</i>	GSVIVT01023256001	DFPIARKSSLQRFLKRRDRITSRSPY
<i>Manihot esculenta</i>	cassava4.1_013723m	DLPIARRASLHRFLEKRKDRITARAPY
<i>Manihot esculenta</i>	cassava4.1_031135m	GLPIVTRVSLHRFFEKRRKERVASKAPY
<i>Manihot esculenta</i>	cassava4.1_016821m	DLPIARRKSLQRFLKRRKERLTSLSPY
<i>Manihot esculenta</i>	cassava4.1_016877m	DLPIARRKSLQRFLKRRKERLTSLSPY
<i>Manihot esculenta</i>	cassava4.1_015933m	ELPIARRHSLQRFFEKRRDRLYSKSPY
<i>Manihot esculenta</i>	cassava4.1_014096m	DLPIARRASLHRFLEKRKDRVASKAPY
<i>Manihot esculenta</i>	cassava4.1_017020m	DLPIARRKSLQRFLKRRKERLTLAFPH

JAZ10-like sequences used for consensus Jas motif shown in Figure 6B, continued

SPECIES	GENE ID	JAS MOTIF
<i>Citrus sinensis</i>	orange1.1g027340m	ELPMARRHSLQRFFEKRRDRLVSKNPY
<i>Citrus sinensis</i>	orange1.1g027356m	ELPMARRHSLQRFFEKRRDRLVSKNPY
<i>Citrus sinensis</i>	orange1.1g028845m	ELPMARRHSLQRFFEKRRDRLVSKNPY
<i>Citrus sinensis</i>	orange1.1g030011m	ELPMARRHSLQRFFEKRRDRLVSKNPY
<i>Citrus sinensis</i>	orange1.1g028982m	TVPIARRASLHRFFEKRRDRAIARAPY
<i>Aquilegia coerulea</i>	AcoGoldSmith_v1.011636m	DLPFARKKSLQRFFLEKRKERLISVTPY
<i>Populus trichocarpa</i>	POPTR_0006s23390.1	ELPIARRHSLQRFFEKRRDRLVSKSPY
<i>Populus trichocarpa</i>	POPTR_0018s08300.1	ELPIARRQSLQRFFKRRDRLVSKSPY
<i>Populus trichocarpa</i>	POPTR_0003s16350.1	DLPIARRKSLQRFFLEKRKERLTSATPY
<i>Populus trichocarpa</i>	POPTR_0003s06670.1	DVPHARRASLHRFFSKRKDRVTARAPY
<i>Populus trichocarpa</i>	POPTR_0012s04220.1	AVPQARKASLARFFLEKRKERVTQTSKY
<i>Populus trichocarpa</i>	POPTR_0012s04220.2	AVPQARKASLARFFLEKRKERVTQTSKY
<i>Populus trichocarpa</i>	POPTR_0012s04220.3	AVPQARKASLARFFLEKRKERVTQTSKY
<i>Populus trichocarpa</i>	POPTR_0001s13240.1	DLPIARRKSLQRFFLEKRKGRLTSVSPY
<i>Eucalyptus grandis</i>	Eucgr.F02865.1	TLPQARRATLVRFFLEKRKDRLSSDIYN
<i>Eucalyptus grandis</i>	Eucgr.F02865.2	TLPQARRATLVRFFLEKRKDRLSSDIYN
<i>Eucalyptus grandis</i>	Eucgr.G01954.1	DLPLTRRKSLEFFEKRRKERLTFASPY
<i>Eucalyptus grandis</i>	Eucgr.B03545.1	YLPIARRKSLQRFFLEKRKERLTSASPY
<i>Eucalyptus grandis</i>	Eucgr.C00753.1	DLPIARRHSLQRFFEKRRDRLVSKAPY
<i>Eucalyptus grandis</i>	Eucgr.C00753.2	DLPIARRHSLQRFFEKRRDRLVSKAPY
<i>Eucalyptus grandis</i>	Eucgr.H00537.1	ALPQARQASLARFFLEKRKERAMTTSPY
<i>Eucalyptus grandis</i>	Eucgr.H00537.2	ALPQARQASLARFFLEKRKERAMTTSPY
<i>Citrus clementina</i>	clementine0.9_021045m	ELPMARRHSLQRFFEKRRDRLVSKNPY
<i>Citrus clementina</i>	clementine0.9_021054m	ELPMARRHSLQRFFEKRRDRLVSKNPY
<i>Citrus clementina</i>	clementine0.9_022268m	TVPIARRASLHRFFEKRRDRAIARAPY
<i>Citrus clementina</i>	clementine0.9_023056m	DLPIARRKSLQRFFLEKRKERNDMESDI
<i>Zea mays</i>	GRMZM2G116614_T01	DLPIARRNSLHRFFLEKRKDRITAKAPY
<i>Zea mays</i>	GRMZM2G145407_T01	DMPLTRTKSLQQFLQKRKERLSGPGPY
<i>Zea mays</i>	GRMZM2G086920_T02	DLPIARRHSLQRFFLEKRDRVVSAPY
<i>Zea mays</i>	GRMZM2G005954_T01	DLPIARRNSLHRFFLEKRKDRITAKAPY
<i>Zea mays</i>	GRMZM2G005954_T02	DLPIARRNSLHRFFLEKRKDRITAKAPY
<i>Zea mays</i>	GRMZM2G024680_T01	MPPIARKLTLQNFLEKRKRNIAGTDDA
<i>Zea mays</i>	GRMZM2G143402_T03	DLPIARRHSLQRFFLEKRDRVVSAPY
<i>Zea mays</i>	GRMZM2G143402_T01	DLPIARRHSLQRFFLEKRDRVVSAPY
<i>Zea mays</i>	GRMZM2G143402_T02	DLPIARRHSLQRFFLEKRDRVVSAPY
<i>Arabidopsis thaliana</i>	AT1G72450.1	VERIARRASLHRFFAKRKDRVARAPY
<i>Arabidopsis thaliana</i>	AT1G70700.2	SVPQARKASLARFFLEKRKERLMSAMPY
<i>Arabidopsis thaliana</i>	AT1G74950.1	ELPIARRASLHRFFLEKRKDRITSKAPY
<i>Arabidopsis thaliana</i>	AT1G19180.1	ELPIARRASLHRFFLEKRKDRVTSKAPY
<i>Arabidopsis thaliana</i>	AT1G19180.2	ELPIARRASLHRFFLEKRKDRVTSKAPY
<i>Arabidopsis thaliana</i>	AT3G43440.1	DVPIARRRSLQRFFEKRRHRFVHTKPY
<i>Arabidopsis thaliana</i>	AT3G43440.2	DVPIARRRSLQRFFEKRRHRFVHTKPY
<i>Arabidopsis thaliana</i>	AT5G20900.1	DLPIARRHSLQRFFLEKRDRVSKNPY
<i>Setaria italica</i>	Si037628m	DLPIARKASLQRFLQKRKRHINAEPY
<i>Setaria italica</i>	Si023275m	DLPIARRHSLQRFFLEKRDRIVNKAPY

JAZ8-like sequences used for consensus EAR motif shown in Figure 6C

SPECIES	GENE ID	EAR MOTIF
<i>Arabidopsis lyrata</i>	881314	LELRL
<i>Arabidopsis lyrata</i>	333262	LELRL
<i>Glycine max</i>	Glyma05g27280.1	LELRL
<i>Glycine max</i>	Glyma08g27280.1	LELRL
<i>Glycine max</i>	Glyma13g29070.1	LELAL
<i>Glycine max</i>	Glyma15g09980.1	LELAL
<i>Carica papaya</i>	evm.model.supercontig_17.12	LELRL
<i>Ricinus communis</i>	29693.m001989	LELRL
<i>Cucumis sativus</i>	Cucsa.047800.1	LELRL
<i>Cucumis sativus</i>	Cucsa.054580.1	LELCL
<i>Cucumis sativus</i>	Cucsa.054630.1	LELRL
<i>Cucumis sativus</i>	Cucsa.179960.1	LELGL
<i>Medicago truncatula</i>	Medtr2g024430.1	LELCL
<i>Medicago truncatula</i>	Medtr4g154880.1	LELCL
<i>Prunus persica</i>	ppa013410m	LELQL
<i>Mimulus guttatus</i>	mgv1a016361m	LELPL
<i>Mimulus guttatus</i>	mgv1a016202m	LDLRL
<i>Vitis Vinifera</i>	GSVIVT01021514001	LELRL
<i>Vitis Vinifera</i>	GSVIVT01021516001	LEVRL
<i>Manihot esculenta</i>	cassava4.1_026855m	LELRL
<i>Manihot esculenta</i>	cassava4.1_019045m	LELRL
<i>Manihot esculenta</i>	cassava4.1_018315m	LELRL
<i>Citrus sinensis</i>	orange1.1g046141m	LELRL
<i>Aquilegia coerulea</i>	AcoGoldSmith_v1.025874m	LDLCL
<i>Populus trichocarpa</i>	POPTR_0006s02410.1	LDLCL
<i>Populus trichocarpa</i>	POPTR_0011s02260.1	LELRL
<i>Eucalyptus grandis</i>	Egrandis_v1_0.031045m	LELRL
<i>Citrus clementina</i>	clementine0.9_025662m	LELRL
<i>Arabidopsis thaliana</i>	AT2G34600.1	LELRL
<i>Arabidopsis thaliana</i>	AT1G30135.1	LELRL