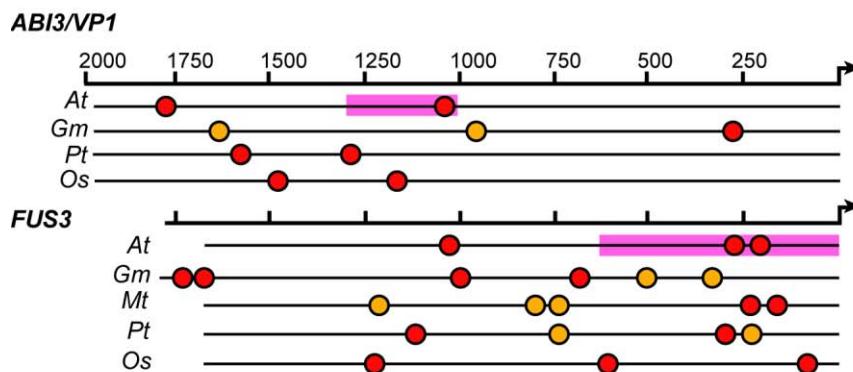


Supplemental Figure 1: Confirmation of knockout alleles of *IAA30*.

RNA was extracted from 21 day old SAM SE tissue of Col, wt and *iaa30*-1 (SALK_065384) and *iaa30*-2 (JIC SM line, ABRC stock CS112165), and RT-PCR performed to confirm lack of transcript accumulation in the *iaa30* knockout alleles using 37 cycles of PCR. *EF1α* served as a control (27 cycles of PCR).



Supplemental Figure 2: Conservation of CArG motifs within the regulatory regions of genes with homology to *Arabidopsis* (*At*) *ABI3* and *FUS3*.

Regulatory regions 5' of the start codon for *Arabidopsis* *ABI3* and *FUS3* (*At*) and genes encoding homologous proteins from *Glycine max* (*Gm*), *Populus trichocarpa* (*Pt*), *Oryza sativa* (*Os*), and *Medicago truncatula* (*Mt*) showing potential conserved cis elements recognized by MADS-domain proteins (red circle, perfect CC[A/T]₆GG, C[A/T]₈G or C[A/T]₇G; orange circle, near perfect). Pink indicates regions bound by AGL15 in *Arabidopsis* as identified by ChIP-chip.

Supplemental Table 1. Presence of previously known AGL15 targets and controls as bound in ChIP-chip. NP, not present.

AGI	Description	Reps. Partek	Reference
Previously identified targets expected on the array and present:			
At5g13790	<i>AGL15</i>	3/3	Zhu and Perry, 2005
At1g02400	<i>DTA1/GA2ox6</i>	2/3	Wang et al. 2002, 2004
At2g45830	<i>DTA2</i>	3/3	Wang et al., 2002
At4g34000	<i>ABF3</i>	3/3	Unpublished
At4g25470	<i>CBF2/DREB1c</i>	3/3	Hill et al., 2008
At2g21060	<i>CSP4/GRP2b</i>	3/3	Nakaminami et al., 2009
At3g57390	<i>AGL18</i>	3/3	Hill et al., 2008
At1g52690	<i>LEA76</i>	2/3	Hill et al., 2008
Previously used control regions not bound by AGL15:			
At3g18780	<i>ACT2</i>	NP	Unpublished
At1g07920	<i>EF1-α</i>	NP	Hill et al., 2008
At5g62690	<i>TUB2</i>	NP	Wang et al., 2002
At3g62250	<i>UBQ5</i>	NP	Wang et al., 2002, 2004
At2g47110	<i>UBQ6</i>	NP	Wang et al., 2002, 2004
At1g21970	<i>LEC1</i>	NP	Unpublished
At3g26460	<i>Major latex ptn-related</i>	NP	Unpublished
At5g62700	<i>TUB3</i>	2/3	Wang et al., 2002

Supplemental Table 2. DNA fragments identified as being bound by AGL15 using ChIP-chip and verified by enrichment tests.

AGI	Description	C-some: Region bound (size in bp)	Location relative to gene	Reps. Partek
At1g28300	<i>LEC2</i>	1: 9897322-9897548 (226)	Exon/intron	2/3
At3g26790	<i>FUS3</i>	3: 9856994-9857647 (653)	5' intergenic/UTR	3/3
At3g24650	<i>ABI3</i>	3: 8996533-8996830 (297)	5' intergenic	3/3
		3: 9000395-9001006 (611)	3' gene/UTR/intergenic	3/3
At1g13260	<i>RAV1</i>	1: 4541398 -4542500 (1102)	5' intergenic/UTR/exon	3/3
At1g68840	<i>RAV2</i>	1: 25883619-25884235 (616)	5' intergenic/UTR/exon	3/3
At5g10140	<i>FLC</i>	5: 3173753-3173896 (143)	Intron/exon	2/3
At2g22540	<i>SVP</i>	2: 9586688-9587629 (941)	5' intergenic/UTR/exon	3/3
At1g14920	<i>GAI</i>	1: 5151231-5151882 (651)	3' UTR/intergenic	3/3
At1g30040	<i>GA2ox2</i>	1: 10537210-10537779 (569)	5' intergenic/UTR/exon	3/3
At2g20180	<i>PIF1</i>	2: 8713675-8714107 (432)	5' intergenic	3/3
At3g62100	<i>IAA30</i>	3: 23006436-23006595 (159)	5' intergenic	2/3
At5g61590	<i>ERF</i>	5: 24782339-24782661 (322)	5' intergenic/UTR/exon	3/3
At5g27320	<i>AtGID1c</i>	5: 9628908-9629696 (788)	5' intergenic/UTR/exon/intron	3/3
At4g38680	<i>GRP2</i>	4: 18072971-18073428 (457)	5' intergenic/UTR	3/3

Supplemental Table 3: Oligonucleotides used to confirm binding by AGL15 and response to AGL15.

AGI	Gene name	Forward	Reverse
For multiplex enrichment tests for ChIP			
At5g62690/ At5g62700	TUB2 / TUB3	CAC AAA GGA AGT TGA CGA GCA G	CGC CTG AAC ATC TCT TGG ATT G
At1g07920/ At1g07930/ At1g07940	EF1 α	GTA CAA GGG ACC AAC TCT CCT T	GCA AAG GTC ACA ACC ATA CCA G
At2g47110/ At3g62250	UBQ 5, UBQ6	GGT GCT AAG AAG AGG AAG AAG	CTC CTT CTT TCT GGT AAA CGT
At5g13790	AGL15	GGA AGA AAA GGG GTA GGA CC	GAG AGA AGA AGG TAG AAG GAA GA
At4g25470	CBF2	TGC AAG TAT TTT TAG AGC AGT AAC	CAA TAA AAT ATC TTC ACA ACG AAC
At1g28300	LEC2	GAA CAA GCG ATC ACA CAC AGA C	CGA GGA CGA AAG CAA GAA TCT C
At3g26790	FUS3	GTT GTG CAG ATC GAA ACA GAG G	GAG AGA GAA GAA GAC GCC ATT G
At2g20180	PIF1/PIL5	GAG GTT GGT ACT GGA TAG GCT T	CCG TCA GCT ACA AAT GAT CTC AG
At5g27320	GID1c	TCC CTT CTC GGC TCA AAT CTT C	TCA GTC ACA AGG GTC AGA GA
At1g68840	RAV2	CTC GTC CAT TCC TCA CAT CAT C	GAA GAT GGT AGC TTT CGT GAC TCC
At1g61590	ERF	AAG GGT TCT AGA GAC CAG AGT C	CCC ACA GAG TTA AAC CAG AGA GAC
At5g10140	FLC	ATA CAA ACG CTC GCC CTT ATC AGC	AGT GGC TCA GTT CCA ACT CCA AGT
At3g24650	ABI3, 5'	GTC TGC CTC TTC CAC TTC AAT AG	GTT CCT CGA GAG AAA GAC ATT GG
At3g24650	ABI3, 3'	TGG GCT CCA AGA AGG TGA TTT C	TGA AGC GAC CAC CAC ATT
At1g13260	RAV1	CAC GTG GAC CCT TTA TCC ATT C	GGA AGT AAG ATG GGT GTG TAT GGG
At2g22540	SVP	CTT CTT CTC TCC TCG ACC TTT GAG	AGA GAG AGA GAG TGA CAA GAC GAC
At1g14920	GAI	GCA TGG TAT TAT AGG TGG ACC AG	GTC TAC TAC CAC CAC TGT CGA ATG
At1g30040	GA2ox2	GCT GTA TTT CCA TGT GTG CG	TCT AAA GTG ACT GGC TGT GG
At4g38680	GRP2	CTT ATC ACA TGC TGG CCC AT	CTC TGA AAT CTC TCT CTC CTC GCA
For qRT-PCR			
At5g19770	TUA3	AGG GCT TAC CAC GAG CAG CTA TCA	ACA GGC CAT GTA CTT TCC GTG TCT
At1g30040	AtGA2ox2	TAT TGG CTT CTT CGG CTT GCC T	TCC AAC CAA CGT CAC CGT TT
At3g26790	FUS3	TCA TCA TGG GTT ATC GGC GT	AGT TGG CAC GTG GGA AAT AGG A
At2g45470	FLA8	ACC GTG AGT AGC CAC AAC ATC A	TGC GCC ATT GTT AAG GAC GA
At1g28300	LEC2	ATC CTC AGA TCC CGG TTA CGC AAA	ACC ACC TCT CTC TTG CCA CAA ACA
At1g24260	AGL9	TTC GAG CAT GCT TCG GAC ACT	AGG CCT CTC TTG AAG GCA CAT T
At1g68840	RAV2	AAG GTG TTG TTC CTC AGC CT	ACA AGC TGC GAT GTC GTA GGA A
At3g62100	IAA30	ATA CTC GGA ACC TAA GCA CGG A	ATC ATC ATT TCC TCT GCC GCA C
At5g61590	ERF	AAC GTC ACC TGA GGT TGA GAC TGT	TCC TGG ATC CTT TCT TTG CCG GAT
At5g10140	FLC	TCG GAG AGA AGC CAT GGG AAG AAA	TTG CGA CGT TTG GAG AAG GT
At3g24650	ABI3	ACT GTG AGC ACT CTT CTG GTG CAT	ATC AAT GCA ATC ACC ACC GCC TTC
For qPCR for ChIP			
At5g19770	TUA3	AGG GCT TAC CAC GAG CAG CTA TCA	ACA GGC CAT GTA CTT TCC GTG TCT
At3g24650	ABI3 5'	ACC GCT TGG TCT CAC CAC TCA AAT	AAA TAG AAG TCT CCT CGT GCC GCT
At3g24650	ABI3, 3'	GGG TTA AAG TAA GAC AAC CGA CGC GA	TTG AGA AGT TGG TGA AGC GAC CAC
At1g28300	LEC2	AGT GGT TCC TTT CCC TCG ACT CAT	GTG TCT GTG TGT GAT CGC TTG TTC
At3g26790	FUS3	AGA ACC AAG AGC AAA GGG ACG AGT	TGG TAG AGA GAG AGA AGA CGC CA
At3g62100	IAA30	CGA AAG GTA GTA CTA GGA GTC GAG	GCA GAC AAA TAC ACG TGT CAT GCA G
At3g18780	ACT2	AAG CTG TTC TCT CCT TGT ACG CCA	ACA GTG TGA GAC ACA CCA TCA CCA
At1g21970	LEC1	GGG CCG TGA AAC CCA ATA CCA TTT	ACC GAT CGT GGT TCT GCA CTT AGA