



Supplemental Figure 1. Identification of activation-tagged genes in *ATG791*.

- A.** *ATG791* contains two T-DNA inserts (designated “I” and “II”, not drawn to scale) separated by ~3.3 Mb. These inserts are 1122 bp and 354 bp upstream from the predicted translation initiation codons of *At5g55180* and *At5g64210*, respectively. Arrowed boxes represent genes and direction of transcription; “>” indicate P35S enhancer sequences adjacent to the right T-DNA border (RB).
- B.** RNA gel blot analysis of total cell RNAs from wild type, *im* and *ATG791* seedlings. Equal amounts of RNA (1 µg) from four week-old rosette leaves were electrophoresed through formaldehyde gels and transferred to nylon filters; the filters were probed with ³²P-labeled gene-specific PCR products (primers are listed in Supplemental Table 1) from genes that surround inserts I (*At5g55150*, *At5g55160*, *At5g55170*, *At5g55180* & *At5g55190*) and II (*At5g64200*, *At5g64210* & *At5g64220*). Transcripts from *At5g55150* could not be detected in any of the lines.

Supplemental Table 1. Primers used in this study

Primer Name	Primer Sequences
55150XbaIF	TGCTCTAGAATGGCTCTACCTTCTTCGTC
55150BamHIR	CGCGGATCCTCACTGAGGAACGTCTGTTG
55160XbaIF	TGCTCTAGAATGTCTGCTACTCCGGAAGA
55160F1	ATGTCTGCTACTCCGGAAGA
55160BamHIR	CGCGGATCCCTAAAAGCAGAAGAGCTTCA
55160R1	CTAAAAGCAGAAGAGCTTCA
55170XbaIF	TGCTCTAGAATGTCTAACCCCTCAAGATGA
55170F1	ATGTCTAACCCCTCAAGATGA
55170BamHIR	CGCGGATCCTTAAAGCCCATTATGATCGA
55170R1	TTAAAGCCCATTATGATCGA
55180XbaIF	TGCTCTAGAATGGCGGTCTTCGTTTTATC
55180F2	GAAGTGTTTCGTTCGATCCGA
55180R2	TCCTGAAGCTTCTCCTTCGT
55180BamHI	CGCGGATCCTCAATGCCCTGTTGGAAACT
55190XbaIF	TGCTCTAGAATGGCTCTACCTAACCGCA
55190F1	ATGGCTCTACCTAACCGCA
55190BamHIR	CGCGGATCCCTACTCGAAGGTGTCATCAT
55190R1	CTACTCGAAGGTGTCATCAT
64190F1	ATGTCCGAGAAGTTCCCTGA
64190R1	ATCGATCCAATTGTCTCTAA
64200F1	ATGTCGCACTTCGGAAGGTC
64200R1	TCATTCCGCAGCATAAGGAG
64210XbaIF	TGCTCTAGAATGAGTCAACTCATTACGAA
64210F2	AGACGATATGGATGCAGAGC
64210R2	AGAAGCAAAATGGTTGACAT
64210BamHI	CGGGGATCCTTAGTGATAACCAATCGGAG
64220XbaIF	TGCTCTAGAATGGCGGATCGCGGATCTTT
64220F2	GTAATGGTTATCGGGACATT
64220R2	CTGCCACTGAATGCAGCCCA
64220BamHIR	CGCGGATCCTCATTCAAATGCAAGAGACA
SKI015RI	GCAAGAACGGAATGCGCG
SKC12	TTGACAGTGACGACAAATCG
IK054	ATGTGATATCTAGATCCGAAAC
T7	TAATACGACTCACTATAGGG
AOX1aF1	CAAGGATCCATGATGATAACTCGCGGTGGAG
AOX1aR1	GTTGGATCCTCAATGATACCCAATTGGAGC
AOX1aF2	CAATGGATCCCCGCTAGCACGATCAC
AOX1aR2	GTTGGATCCTCAATGATACCCAATTGGAGC
AOX1aF3	CGACGGATCCCCGATCTGAAGAAGCATCATGTTCC
AOX1aR3	GTTGGATCCTCAATGATACCCAATTGGAGC