

Table S1 List of primers used in this research.

gene/mutant/constructs name	T-DNA lines/AGI number	Purpose	Primer name	Primer sequences (5' to 3')
<i>mapr3-1</i>	SALK_141336C	Genotyping	At3G48890LP	ggcattaacgacaccgtttt
			At3G48890RP	CCCTTGATCGCCATAAGAAG
<i>mapr3-2</i>	SALK_056475C	Genotyping	At3G48890LP	ggcattaacgacaccgtttt
			At3G48890RP	CCCTTGATCGCCATAAGAAG
			LBb1	gcgtggaccgcttgetgcaact
GST-IRE1B-KR	AT5G24360	pull-down	IRE1bF10	CCGGAATC ctaattTTCGGCTTTTGTGTTACTA TGC (EcoRI)
			IRE1bR6	CCGCTCGAG CTAGAATACAGTGGTCTTAGA G (XhoI)
35s::MAPR3-TAP	AT3G48890	IP and pull-down	AT3G48890F2	actagt CGCTTCTCGATAGCTTCTCAAA T (SpeI)
			AT3G48890R3	ggatcc CTCCTTTGCAGCATCATCAT(Ba mHI)
nYFP-MAPR3	AT3G48890	BiFC	AT3G48890F10	GAGGACGCCGGCggatcc CGCTTCTCGATAGCTTCTCAAA T (BamHI)
			AT3G48890R10	caggtcactctagaggatcc TTACTCCTTTGCAGCATCATCA T (BamHI)
MAPR3-cYFP	AT3G48890	BiFC	AT3G48890F11	acaggtaccggggatcc CGCTTCTCGATAGCTTCTCAAA T (BamHI)
			AT3G48890R11	gtcactctagaggatcc CTCCTTTGCAGCATCATCAT (BamHI)
IRE1B-KR-cYFP	AT5G24360	BiFC	IRE1bF16	acaggtaccggggatcc ATG ctaattTTCGGCTTTTGTGTTACTA TGC
			IRE1bR16	gtcactctagaggatccGAATACAGTG GTCTTAGAGTA

35S::FLAG-GAAP1	AT4G14730	Co-IP	At4g14730F9	ggatcc ATGGCGAAATCTGACAT TGAAAC (BamHI)
			At4g14730R9	gtcgac GTTGCTTATAATGCCGA GG (Sall)
pMON530-ARA7-RFP	AT4G19640	cellular localization	ARA7 F1	ctatcgattcccggg ATGGCTG CAGCTGGAAACAAGAGCATT AC
			ARA7 R1	ctcgaggtaccggg agcaca ACAAGATGAGCTCACTGCCCT AT
pMON530-SYP22-RFP	AT5G46860	cellular localization	SYP22F	ctatcgattcccggg atgg GAAGAGGAAGATCAACGAGG AA
			SYP22R	ctcgaggtaccggg tg AAGCTGCGAGTACTATAATCA CGA
pMON530-DELTA-TIP1-RFP	AT3G16240	cellular localization	DELTA-TIP1F	ctatcgattcccggg at GGCTGGAGTTGCCTTTGG
			DELTA-TIP1R	ctcgaggtaccggg g TAGAAATCAGCAGAAGCAAG AGG
	AT5G22555	qRT-PCR	AT5G22555 qF1	TAACGCAAGCACTTGGAGCA
		qRT-PCR	AT5G22555 qR1	CCCCGTCGATCATCATTTCAT
	AT4G11320	qRT-PCR	AT4G11320 qF1	GCAAACGATGAAGCCGCTCT
		qRT-PCR	AT4G11320 qR1	TCCGCAAGTTCCGTCAAACA
	AT3G18200	qRT-PCR	AT3G18200 qF1	TCTGTCATGGGCTGGTTGGA
		qRT-PCR	AT3G18200 qR1	TCCGGCGTATAGGATGGTGAA
	AT1G50060	qRT-PCR	AT1G50060 qF1	CTCGTGCGCAGGTTGGAGTA
		qRT-PCR	AT1G50060 qR1	GAGATGGCCGAGAACGAGGA
	AT1G65510	qRT-PCR	AT1G65510 qF1	GCAAACCTTGCAAACGGAAGG
		qRT-PCR	AT1G65510 qR1	GCTGTTCTCGGAGGACGTTT
	AT4G26320	qRT-PCR	AT4G26320 qF1	CTTTCTCTGCGGTGCAACAG

		qRT-PCR	AT4G2632 0 qR1	AAACCCAAAGGCCAAAGTGG
PR-4	AT3G0472 0	qRT-PCR	PR-4-F:	GTGGGATGCTGATAAGCCGTA
		qRT-PCR	PR-4-R:	TGCAGCATTGTCTTGTGTTC T
PRX34	AT3G4912 0	qRT-PCR	PRX34-F:	ATGCGCAGATATGCTCACCA
		qRT-PCR	PRX34-R:	AATGGAGCTGGAAGATTGC