

Figure S1. Endogenous *OsWRKY55* mRNA level in each genotype was analyzed by quantitative reverse transcription PCR (qRT-PCR). The rice *OsActin* gene was used as the internal control. Values shown are means \pm SD ($n = 3$), Student's *t*-test. WT, wild-type; OE, *OsWRKY55*-overexpressing line; NS, not significant.

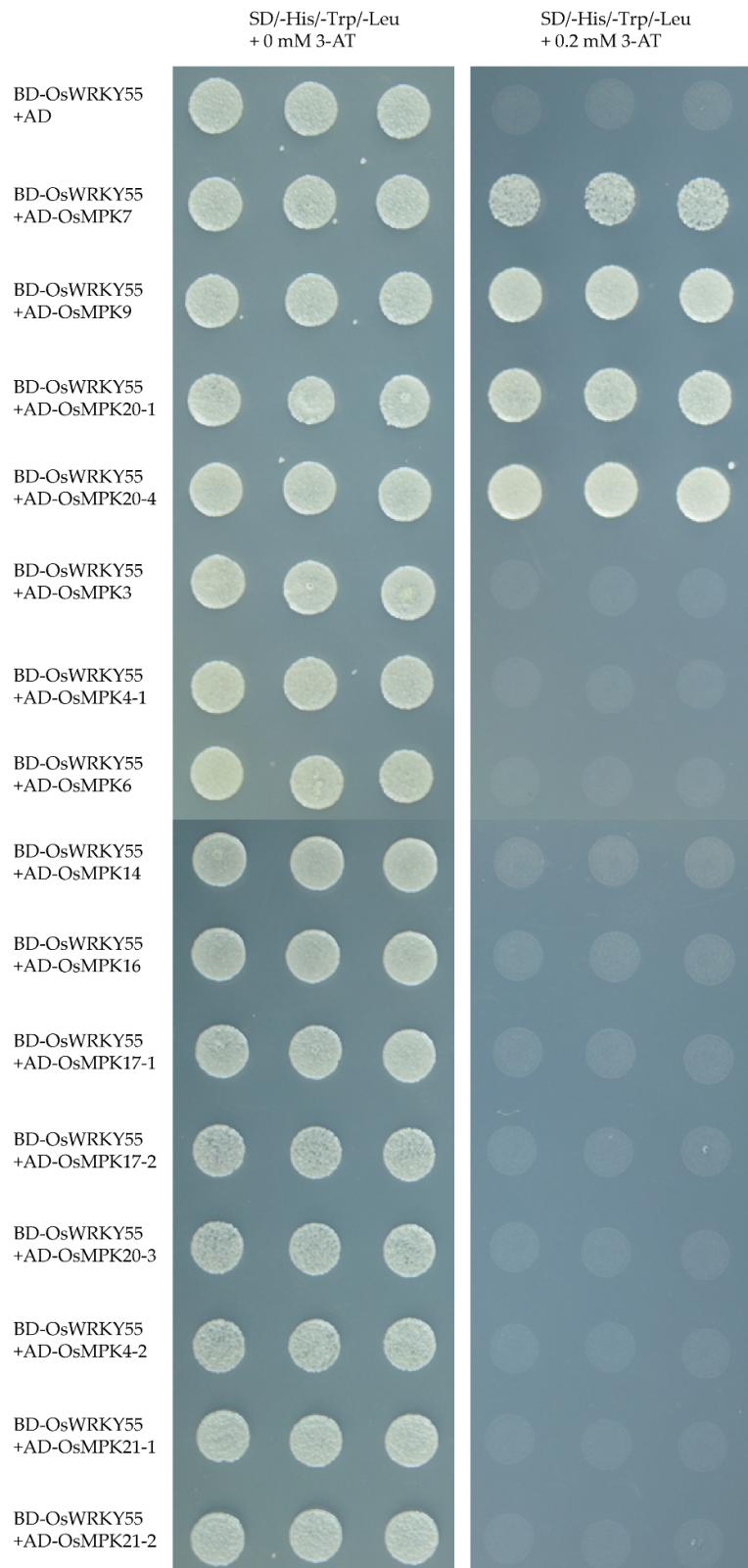


Figure S2. The interactions between OsWRKY55 and 15 OsMPKs in yeast two-hybrid assays. Growth phenotypes of yeast cells on selective media plates (SD/-Trp-Leu-His) containing 0 or 0.2 mM 3-amino-1, 2, 4-triazole (3-AT).

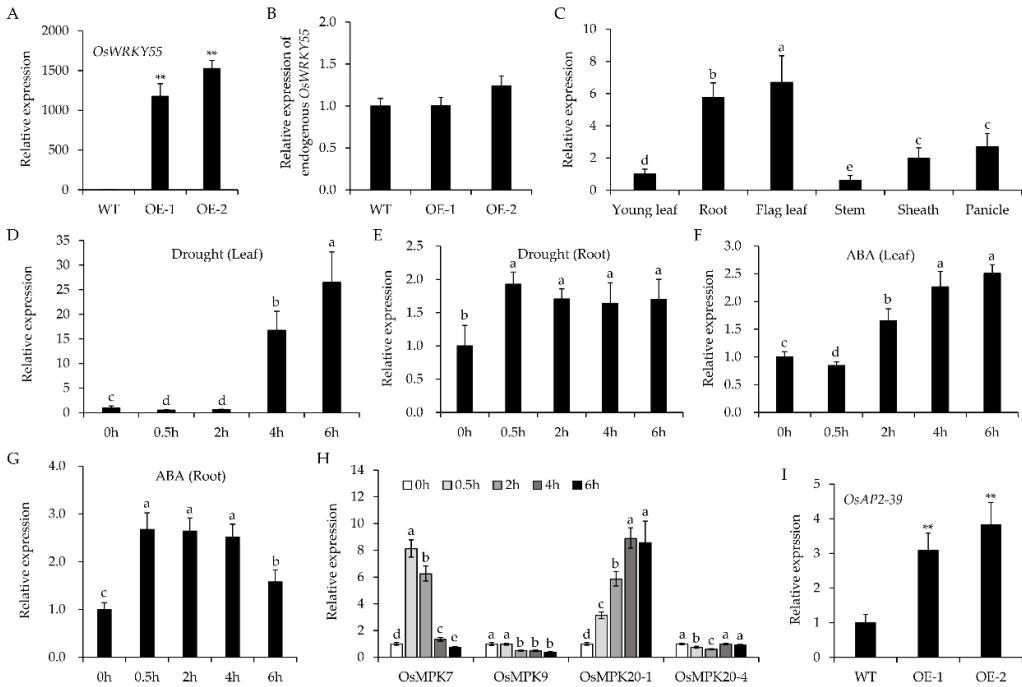


Figure S3. All quantitative reverse transcription PCR (qRT-PCR) in this study used the gene *Ubiquitin5* as the inner control. **(A)** The *OsWRKY55* mRNA level in each genotype was analyzed by qRT-PCR. **(B)** Endogenous *OsWRKY55* mRNA level in each genotype was analyzed. **(C)** Expression profile of *OsWRKY55* in various rice tissues of the wild-type (WT). **(D and E)** Relative expression of *OsWRKY55* in leaves (D) and roots (E) after drought treatment (dehydration). **(F and G)** Relative expression of *OsWRKY55* in leaves (F) and roots (G) after treatment with 100 μ M of the phytohormone abscisic acid (ABA). **(H)** Relative expressions of *OsMPK7*, *OsMPK9*, *OsMPK20-1*, and *OsMPK20-4* after drought treatment (dehydration). **(I)** Relative expression of the *OsAP2-39* gene in WT plants and transgenic lines overexpressing *OsWRKY55* (OE-1 and OE-2). Values shown are means \pm SD ($n = 3$), ** $P < 0.01$ (Student's *t*-test). Different letters above the bars indicate significant differences ($P < 0.05$).

Table S1. Primers used in this study.

Gene	Primer sequence	Experiments
<i>OsWRKY55</i>	F: GCCGAGTCCGCATCAATC	qRT-PCR
	R: TTCTCGCCGTACTCCTCCA	qRT-PCR
	F: AGGAGGACCTGCATATGATGTCCTGTGCCGAGTCC	Cloning
	R: GCAGGTCGACGGATCCTTACAAAAAATGGAAGAACATC	Cloning
	F: AAAAGAGATCGAATTCATGTCCTGTGCCGAGTCC	Cloning
	R: GCAGGTCGACGGATCCTTACAAAAAATGGAAGAACATC	Cloning
	F: CGGAGCTAGCTCTAGAATGTCCTGTGCCGAGTCC	Cloning
	R: TGCTCACCATGGATCCCACAAAAATGGAAGAACATGA	Cloning
	F: GATCTGAGCCTCGGGATGTCGG	qRT-PCR
	R: AGCGAGCTACCTCCTTCTTGACG	qRT-PCR
<i>OsAP2-39</i>	F: CGGTATCGATAAGCTTTGTTGCGACAGACCAACACTAG	Cloning
	R: TAGAACTAGTGGATCCGTCGGTCTTGTGGTCTG	Cloning
	F: TGAAAAGCTGAATTCTTGTGCGACAGACCAACACTAG	Cloning
	R: GAGCACATGCCTCGAGGTCCGTTCTGTCGGTCTG	Cloning
	F: CATTGGTGCTGAGCGTTCC	qRT-PCR
<i>OsActin</i>	R: CTCCTGCTCATCCTGTCAGC	qRT-PCR
	F: ACCACTTCGACCGCCACTACT	qRT-PCR
<i>Ubiquitin5</i>	R: ACGCCTAAGCCTGCTGGTT	qRT-PCR
	F: GGAGGCCAGTGAATTGACGGGGCGCCGGTG	Cloning
<i>OsMPK3</i>	R: CGAGCTCGATGGATCCCTAGTACCGGATGTTGG	Cloning

<i>OsMPK4-1</i>	F: GGAGGCCAGTGAATTCATGGATTCCTCCTCCGGC	Cloning
	R: CGAGCTCGATGGATCCTAGTAGGGAGGATCCGG	Cloning
<i>OsMPK6</i>	F: GGAGGCCAGTGAATTCATGGACGCCGGGGCGCAG	Cloning
	R: CGAGCTCGATGGATCCCTACTGGTAATCAGGGTT	Cloning
<i>OsMPK14</i>	F: GGAGGCCAGTGAATTCATGGCGATCATGGTGGAT	Cloning
	R: CGAGCTCGATGGATCCTCATCGGCACTCATTGC	Cloning
<i>OsMPK16</i>	F: GGAGGCCAGTGAATTCATGGACTTCTTACCGAG	Cloning
	R: CGAGCTCGATGGATCCCTAGGGGTAAGAGCCTCG	Cloning
<i>OsMPK17-1</i>	F: GGAGGCCAGTGAATTCATGGGGGGAGGGGGCACG	Cloning
	R: CGAGCTCGATGGATCCCTAGGAGTGCATCCTGGA	Cloning
<i>OsMPK17-2</i>	F: GGAGGCCAGTGAATTCATGGAGTTCTTACGGAA	Cloning
	R: CGAGCTCGATGGATCCCTAGGAGAGCATTCTGGT	Cloning
<i>OsMPK20-3</i>	F: GGAGGCCAGTGAATTCATGCAGACCAGCAATTTC	Cloning
	R: CGAGCTCGATGGATCCCTAGGTGATTCTACGT	Cloning
<i>OsMPK4-2</i>	F: GGAGGCCAGTGAATTCATGGCGATGATGGTGGAC	Cloning
	R: CGAGCTCGATGGATCCTCACATATTCACTCCTGC	Cloning
<i>OsMPK21-1</i>	F: GGAGGCCAGTGAATTCATGGGGGGGGGGGGGG	Cloning
	R: CGAGCTCGATGGATCCTCAGGTTTCAGTTGAGC	Cloning
<i>OsMPK21-2</i>	F: GGAGGCCAGTGAATTCATGGATGCTAAGAAGGGC	Cloning
	R: CGAGCTCGATGGATCCTATGTTTCAATTGAGC	Cloning
<i>OsMPK7</i>	F: GGAGGCCAGTGAATTCATGCCTGAGGCAAATGCG	Cloning
	R: CGAGCTCGATGGATCCCTAGTACATCCTTGAAAC	Cloning

<i>OsMPK9</i>	F: GGAGGCCAGTGAATTCATGAGAAAGAAAGATCCAGT R: CGAGCTCGATGGATCCCTAACATACATCCTGAGGTGC	Cloning
<i>OsMPK20-1</i>	F: GGAGGCCAGTGAATTCATGCAGCAGGATCAGCGCAA R: CGAGCTCGATGGATCCCTAACATACATCCTGACATGC	Cloning
<i>OsMPK20-4</i>	F: GGAGGCCAGTGAATTCATGGCGATGCAGACCGATGCA R: CGAGCTCGATGGATCCCTAACATACATCCTGAGACCC	Cloning
<i>OsMPK7</i>	F: GGATTCGGAATGACAAGG R: GATCAGCCAACGCCCTT	qRT-PCR
<i>OsMPK9</i>	F: CAGTGATGAGTTCAGGGTA R: ACTTGCTGTTGGATAA	qRT-PCR
<i>OsMPK20-1</i>	F: GGTAAGGGAAGCTATGGG R: CTCCTCGATGGAGGCAAC	qRT-PCR
<i>OsMPK20-4</i>	F: GTGCCCTTGACAACCTTC R: CCCTCGTCCTGTTCTACC	qRT-PCR
<i>OsWRKY55-</i> UTR-F	F: GATGCAGGAAGATTGGT	qRT-PCR
<i>OsWRKY55-</i> UTR-R	R: CTTGAGGGTAGAGGA	qRT-PCR
