

1 **Supplemental Table S1** Primers used in vector construction.

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Primers	Usage	Sequence
OsWRKY76p	promoter	Forward: 5'-ATC TgC AgA TCC ggA CgC Agg CTC AAT g-3' Reverse: 5'-AgA gAT CTC gCC ACg CCg CgT CCA TCg AC-3'
OsWRKY62p	promoter	Forward: 5'-gAC TgC AgA ggC TgC CAC TTT AgT CCC T-3' Reverse: 5'-Tgg gAT CCg TCg gTg ACg ATg AgC CgT Cg-3'
OsWRKY76.1	BiFC/localization	Forward: 5'-AgT ggA TCC TCg TCg TCg TCg ATg gAC g-3' Reverse: 5'-AAg gTC gAC gAA TTC ggg CAg CTT CT-3'
OsWRKY76.2	BiFC/localization	Forward: 5'-AgT ggA TCC ACT AgT TCg TCg TCg TCg ATg gAC g-3' Reverse: 5'-AAg gTC gAC gAA TTC ggg CAg CTT CT-3'
OsWRKY62.1	BiFC/localization	Forward: 5'-AgT ggA TCC CTT AgC TgC CgC CAT ggA CgA C-3' Reverse: 5'-AAg CTC gAg CAA ATg AAC Agg AAT gTg Tgg gAT-3'
OsWRKY62.2	BiFC/localization	Forward: 5'-AgT ggA TCC ATg gAg gAg AAC gCg Cgg-3' Reverse: 5'-AAg CTC gAg CAA ATg AAC Agg AAT gTg Tgg gAT-3'
BD-OsWRKY76.1	Y2H	Forward: 5'-TCC CCC ggg AAT ggA CgC ggC gTg gC-3' Reverse: 5'-AAC TgC AgC TAg AAT TCg ggC AgC TTC-3'
AD-OsWRKY76.1	Y2H	Forward: 5'-TCC CCC ggg AAT ggA CgC ggC gTg gC-3' Reverse: 5'-AAg gTC gAC gAA TTC ggg CAg CTT CT-3'
BD/AD-OsWRKY76.2	Y2H	Forward: 5'-TCC CCC ggg AAT ggA CgC ggC gTg gC-3' Reverse: 5'-AAg gTC gAC gAA TTC ggg CAg CTT CT-3'
BD-OsWRKY76ΔC(48-110)	Y2H	Forward: 5'-CCg gAA TTC TCC AAg TCg ATg ACC AAT g-3' Reverse: 5'-AAC TgC AgC TAC CTg CTC CTC TTC-3'
BD-OsWRKY76ΔN (169-327)	Y2H	Forward: 5'-ggA ATT CTA CCA ATg gCg gAA gTA Cg-3' Reverse: 5'-AAC TgC AgC TAT TCg ggC AgC TTC Tgg-3'
BD/AD-OsWRKY62.1	Y2H	Forward: 5'-AgT CCC ggg CTT AgC TgC CgC CAT ggA CgA C-3' Reverse: 5'-AAg CTC gAg CAA ATg AAC Agg AAT gTg Tgg gAT-3'
BD/AD-OsWRKY62.2	Y2H	Forward: 5'-AgT ggA TCC ATg gAg gAg AAC gCg Cgg-3' Reverse: 5'-AAg CTC gAg CAA ATg AAC Agg AAT gTg Tgg gAT
BD/AD-OsWRKY62ΔN(50 -318)	Y2H	Forward: 5'-Agg gAT CCC gAA TgC TCg ACg CCA TTC Tgg-3'

Primers	Usage	Forward	Reverse: 5'-AAg CTC gAg CAA ATg AAC Agg AAT gTg Tgg gAT-3'
AD-OsWRKY62ΔC(1-70)	Y2H	Forward: 5'-AgT CCC ggg CTT AgC TgC CgC CAT ggA CgA C-3'	Reverse: 5'-ATC TCg AgC gAC AgC gAC ggC gCC AAg Ag-3'
pBridge-OsWRKY76.2	Y3H	Forward: 5'-TgC ggC CgC AgC TgC gAT ggA CgC ggC gTg gC-3'	Reverse: 5'-gAA gAT CTC TAg AAT TCg ggC AgC TTC-3'
pBridge-OsWRKY62.2	Y3H	Forward: 5'-TTg ATA TCC gAT ggA ggA gAA CgC gCg g-3'	Reverse: 5'-ggA AgA TCT CTA CAA ATg AAC Agg AAT gTg Tgg gAT-3'
OsWRKY76.1ox	Over-expression	Forward: 5'-AgT ggA TCC gTC gTC gTC gTC gAT ggA Cg-3'	Reverse: 5'-AgT AAg CTT gAA TTC ggg CAg CTT CTg-3'
OsWRKY62.1ox	Over-expression	Forward: 5'-AgT ggA TCC TT AgC TgC CgC CAT ggA CgA C-3'	Reverse: 5'-AAg AAg CTT CAA ATg AAC Agg AAT gTg Tgg gAT-3'
OW62 RNAi	dsOW62/76	Forward: 5'-AgT CTg CAg gAg CTC ATg gAC gAC gAC ggC gA-3'	Reverse: 5'-AAg ggA TCC TTg CTg Tgg Cgg AAg gCg g-3'
OW62/76 RNAi	dsOW62/76	Forward: 5'-AgT CTg CAg gAg CTC ATg gAC gAC gAC ggC gA-3'	Reverse: 5'-AAg CTC gAg ggA TCT TCg CCT CgT CAT Tgg-3'
pET-OsWRKY76.1-myc	Protein expression	Forward: 5'-AgT ggA TCC ACT AgT TCg TCg TCg TCg ATg gAC g-3'	Reverse: 5'-AAg gTC gAC gAA TTC ggg CAg CTT CT-3'
pET-OsWRKY76.1-flag	Protein expression	Forward: 5'-AgT ggA TCC ACT AgT TCg TCg TCg TCg ATg gAC g-3'	Reverse: 5'-ggC CCg ggg AAT TCg ggC AgC TTC T-3'
pET-OsWRKY62.1-myc	Protein expression	Forward: 5'-AgT ggA TCC TTA gCT gCC gCC ATg gAC gAC-3'	Reverse: 5'-AAg CTC gAg CAA ATg AAC Agg AAT gTg Tgg gAT-3'
pET-OsWRKY62.1-flag	Protein expression	Forward: 5'-AgT ggA TCC TTA gCT gCC gCC ATg gAC gAC-3'	Reverse: 5'-AAg AAg CTT CCC ggg CAAATg AAC Agg AAT gTg Tgg gAT-3'
pGEX-OsWRKY76.1N(1-230)	Protein expression	Forward: 5'-AgT ggA TCC ACT AgT TCg TCg TCg TCg ATg gAC g-3'	Reverse: 5'-AAg gTC gAC ggC gCg Cgg AgA Cgg gTg Cg-3'
pGST-OsWRKY62.1N(1-205)	Protein expression	Forward: 5'-AgT ggA TCC TTA gCT gCC gCC ATg gAC gAC-3'	Reverse: 5'-AAg CTC gAg CgT ggA CAg ggC ATg gTT gT-3'
pGST-OsWRKY76.1C(165-327)	Protein expression	Forward: 5'-ATg gAT CCT CgA Tgg TCA Agg ACg ggT ACC AAT gg-3'	Reverse: 5'-AAg gTC gAC gAA TTC ggg CAg CTT CT-3'

pGST-OsWRKY76.1-WRKY(165-224)	Protein expression	Forward: 5'-AgT ggA TCC gTC AAg gAC ggg TAC CAA Tg-3'
		Reverse: 5'-AAg gTC gAC ggC gCg Cgg AgA Cgg gTg Cg-3'
pGST-OsWRKY62.1-WRKY(143-201)	Protein expression	Forward: 5'-AgT ggA TCC gTg AAg gAT ggg TAC CAA Tg-3'
		Reverse: 5'-AAg CTC gAg CgT ggA CAg ggC ATg gTT gT-3'
pWGus-OsWRKY76.1/76.2	transcriptional activity	Forward: 5'-TCC CCC ggg AAT ggA CgC ggC gTg gC-3'
		Reverse: 5'-AAg CTg CAg CTA gAA TTC ggg CAg CTT CT-3'
pWGus-OsWRKY62.1	transcriptional activity	Forward: 5'-AgT ggA TCC CTT AgC TgC CgC CAT ggA CgA C-3'
		Reverse: 5'-AAg CTg CAg CTA CAA ATg AAC Agg AAT gTg Tgg gAT-3'
pWGus-OsWRKY62.2	transcriptional activity	Forward: 5'-AgT ggA TCC ATg gAg gAg AAC gCg Cgg-3'
		Reverse: 5'-AAg CTg CAg CTA CAA ATg AAC Agg AAT gTg Tgg gAT-3'
pWGus-OsWRKY62.1d1	transcriptional activity	Forward: 5'-Agg Cgg gCg ATg gAg gAg AAC gCg Cg-3'
		Reverse: 5'-ATC CTC ggC Cgg CgA TCg gCT gAA gA-3'
pWGus-OsWRKY62.1d2	transcriptional activity	Forward: 5'-Agg Cgg gCg ATg gAg gAg AAC gCg Cg-3'
		Reverse: 5'-CCC ggC ggC ggC gCT gTC gTC ggT Cg-3'
pWGus-OsWRKY62.1d3	transcriptional activity	Forward: 5'-Agg Cgg gCg ATg gAg gAg AAC gCg Cg-3'
		Reverse: 5'-TgA CgA TgA gCC gTC gCC gTC-3'
pWGus-OsWRKY62.1d18	transcriptional activity	Forward: 5'-TAG gAT CCA Tgg ggC TTT TgC CgC TCT TCA gC-3'
		Reverse: 5'-AAg CTg CAg CTA CAA ATg AAC Agg AAT gTg Tgg gAT-3'
pWGus-OsWRKY62.1d29	transcriptional activity	Forward: 5'-ATg gAT CCA Tgg Agg ATC TTg Agg AgA AgC Tg-3'
		Reverse: 5'-AAg CTg CAg CTA CAA ATg AAC Agg AAT gTg Tgg gAT-3'
pWGus-OsWRKY62.1d35	transcriptional activity	Forward: 5'-ATg gAT CCA TgC TgA ggC ggg CgA Tgg Ag-3'
		Reverse: 5'-AAg CTg CAg CTA CAA ATg AAC Agg AAT gTg Tgg gAT-3'
pWGus-OsWRKY62.1m1	transcriptional activity	Forward: 5'-AgC CgA TCg CCg gCC gCg gCT gCT gCg gCg gCg CTg Agg Cgg gCg-3'
		Reverse: 5'-gAA gAg Cgg CAA AAg CCC ggC ggC g-3'
pWGus-OsWRKY62.1m2	transcriptional activity	Forward: 5'-gCg gCC gCC gCC gCC gCC gCC gCC ggg CT-3'
		Reverse: 5'-TgA CgA TgA gCC gTC gCC gTC-3'

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Supplemental Table S2 Gene-specific primers for PCR detection.

Primers	RAP locus ID	Usage	Forward	Reverse
OsWRKY76q	Os09g0417600	qPCR	5'-Agg TCg CgT CgC Cgg AgT TC-3'	5'-TCg ggC AgC TTC Tgg Agg ATC g-3'
OsWRKY62q	Os09g0417800	qPCR	5'-TgC AAg TgC TCA AgA ACg ACg-3'	5'-ATg AAC Agg AAT gTg Tgg gAT T-3'
OsWRKY62.1q	Os09g0417800	qPCR	5'-TTC AgC CgA TCg CCg gCC gAg-3'	5'-gCg Tgg TgA CCg gCC AgA AT -3'
OsWRKY62.2q	Os09g0417800	qPCR	5'-CCg ATC gCC ggT CTg TCC gT-3'	5'-CCA CgC gCA ATC ACA TCA CA-3'
PR1a	Os07g0129200	qPCR	5'-gAg CTC gTg Cgg gCA CTA CAC-3'	5'-TgA TgA AgA CgC CgA ggT CgC-3'
Ubiquitin	Os06g0681400	qPCR	5'-gTg gTg gCC AgT AAg TCC TC-3'	5'-ggA CAC AAT gAT TAg ggA TCA-3'
PR1b	Os07g0127700	qPCR	5'-ATC TAT gTA gCC ggA TTg TgT g-3'	5'-CAC AgC gAC gTC gTT TAT TCC-3'
PR10	Os12g0555500	qPCR	5'-gAC ATC gTg gAT ggC TAC TAT gg-3'	5'-TCA CTC ACT CTA ggT ggg ATA TAC-3'
OsWRKY71	Os02g0181300	qPCR	5'-TTC AAg gCg gCg CTC gTC AC-3'	5'-CgC CgC gTC gAT CAg TAG CA-3'
OsWRKY28	Os06g0649000	qPCR	5'-CgA CCA AgA ACT gAT CCA TCg T-3'	5'-AgC CAT gCA AAT CgA TCA ACT C-3'
CPS2	Os02g0571100	qPCR	5'-TCg ATg ggC ACA TCT CCA Agg T-3'	5'-gAg CCA TgC Tgg TAg ACA CAA C-3'
CPS4	Os04g0178300	qPCR	5'-gCT gCA gCg CTA TTA ACA gAC T-3'	5'-TTg TCT CAg gTg AgC AgT Agg C-3'
PAL	Os02g0627100	qPCR	5'-gAg AAg ACA CgA TCg CCT gg-3'	5'-TCC ACT CCT TgA ggC ACT CgA-3'
MAS	Os04g0179200	qPCR	5'-AAA TgA TTT ggg ACC AgT Cg-3'	5'-gAC AgA ATC TAg CTA gCg ATg gA-3'
CYP71Z7	Os02g0570700	qPCR	5'-ACC CAA Tgg AAT gTT gCC CA-3'	5'-gTg CTg TCT Tgg Agg ACg TA-3'
LOX	Os08g0508800	qPCR	5'-CTg CCg TAC CAg CTg ATg AAg C-3'	5'-AgA TTT ggg AgT gAC ATA TTg gTT-3'
Mo18S		qPCR	5'-TAC gAg Agg AAC CgC TCA TTC AgA TAA TTA-3'	5'-TCA gCA gAT CgT AAC gAT AAA gCT ACT C-3'
OsWRKY62	Os09g0417800	RT-PCR	5'-TTA gCT gCC gCC ATg gAC gAC g-3'	5'-Tgg TCA Cgg CCT CCA CgA ACT C-3'
OsWRKY76	Os09g0417600	RT-PCR	5'-AgT ggA TCC TCg TCg TCg ATg gAC g-3'	5'-AAg gTC gAC gAA TTC ggg CAg CTT CT-3'
OsWRKY71	Os02g0181300	RT-PCR	5'-TCg TTC gCC gAT ggA TCC gTg-3'	5'-TCA gTC gAC ATC CTT ggT Cgg CgA gAg CT-3'
OsWRKY28	Os06g0649000	RT-PCR	5'-TTA CAg ATC TTC AAT TCA Tgg ATT CgT ggA TTg-3'	5'-TCA AAg CTT CTT ggT Cgg CgA gAg CTC gAg-3'
Actin	Os03g0718100	RT-PCR	5'-ggA ACT ggT ATg gTC AAg gC-3'	5'-AgT CTC ATg gAT ACC CgC Ag-3'

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