

Supplementary Table S1. Primers used in this work

Gene	Locus	Sequence 5' → 3'	
<i>ACT1</i> - actin1	Zm00001d010159	ATGGATTCCGGTGATGGTGT	Forward
<i>ACT1</i> - actin1	Zm00001d010159	ACGTAGGCAAGCTTCTCCTT	Reverse
<i>ACT1</i> - actin1	Zm00001d010159	GCAGCATGAAGGTTAAAGTGATTG	Forward
<i>ACT1</i> - actin1	Zm00001d010159	GCCACCGATCCAGACACTGT	Reverse
<i>GAPC2</i> - glyceraldehyde-3-phosphate dehydrogenase2	Zm00001d035156	CACCGTGGATGTGTCAATTG	Forward
<i>GAPC2</i> - glyceraldehyde-3-phosphate dehydrogenase2	Zm00001d035156	AAACCAGATCCTCTCCACG	Reverse
<i>GAPC2</i> - glyceraldehyde-3-phosphate dehydrogenase2	Zm00001d035156	CATGCTGGTTTTGGACACGG	Forward
<i>GAPC2</i> - glyceraldehyde-3-phosphate dehydrogenase2	Zm00001d035156	GCGAATTCGTTACAGGACGG	Reverse
<i>α-tubulin</i> - tubulin α-3 chain	Zm00001d013367	GCGCACCATCCAGTTCGT	Forward
<i>α-tubulin</i> - tubulin α-3 chain	Zm00001d013367	CTGGTAGTTGATTCCGCACTTG	Reverse
<i>TUB1</i> - β tubulin1	Zm00001eb000490	TCGTGGGTGTGTTTCGTTTC	Forward
<i>TUB1</i> - β tubulin1	Zm00001eb000490	CCAAAGCGCAACAGGGTATT	Reverse
<i>ELFA2</i> - elongation factor alpha2	Zm00001eb285220	GCTGAGCGTGAGAGAGGTAT	Forward
<i>ELFA2</i> - elongation factor alpha2	Zm00001eb285220	TGATGAAGTCACGGTGTCCA	Reverse
<i>MHA2</i> - plasma-membrane H ⁺ -ATPase isoform MHA2	Zm00001d002006	GCTCATTGAGAAGGCCGATG	Forward
<i>MHA2</i> - plasma-membrane H ⁺ -ATPase isoform MHA2	Zm00001d002006	CAGCAATACCGATGTCAGCC	Reverse
<i>14-3-3 protein isoform GF14-6</i>	Zm00001d003401	TCGACAAGGACGACCGAC	Forward
<i>14-3-3 protein isoform GF14-6</i>	Zm00001d003401	CATCTCCTCGTACCTCTCCG	Reverse
<i>14-3-3 protein isoform GF14-12</i>	Zm00001d025617	TGCAATGTGATCTGGACCCT	Forward
<i>14-3-3 protein isoform GF14-12</i>	Zm00001d025617	CTGAAACGAGGTGGGGGAT	Reverse
<i>RBOH1</i> - respiratory burst oxidase1	Zm00001eb148780	ACCTGACCAGCGTGATGAA	Forward
<i>RBOH1</i> - respiratory burst oxidase1	Zm00001eb148780	TGTGTTCAATCTTGCTGCC	Reverse
<i>SOD1</i> - superoxide dismutase1	Zm00001eb008850	TTCACTTCTTCGAGGACCCC	Forward
<i>SOD1</i> - superoxide dismutase1	Zm00001eb008850	CATTGGTAGTGTGCGCCGAAG	Reverse
<i>CAT1</i> - catalase1	Zm00001d014848	ACCCATGAACACCGTACCAT	Forward
<i>CAT1</i> - catalase1	Zm00001d014848	TCGATCTTACATGCTCGGCT	Reverse
<i>APX1</i> - ascorbate peroxidase homolog	Zm00001eb397180	GCCACAATGCATCCTACGAG	Forward
<i>APX1</i> - ascorbate peroxidase homolog	Zm00001eb397180	GACGACCACAATAGCTGCTG	Reverse
<i>GSR1</i> - glutathione reductase1	Zm00001eb004790	TTGGAATACACCGGCAGAGT	Forward
<i>GSR1</i> - glutathione reductase1	Zm00001eb004790	GAAAATAGCTCGGCGGACAG	Reverse
<i>CKO3</i> - cytokinin oxidase 3	Zm00001eb363220	GAGCTCCATCCGAGATTTG	Forward
<i>CKO3</i> - cytokinin oxidase 3	Zm00001eb363220	AGACGGTGCTGAAGAAAGGA	Reverse
<i>CRR1</i> - cytokinin response regulator1	Zm00001eb066570	CGTCGTCATCATGTCATCGG	Forward
<i>CRR1</i> - cytokinin response regulator1	Zm00001eb066570	CCTAACATAGCACCACACGC	Reverse
<i>PIN1</i> - PIN-formed protein1	Zm00001eb372180	CAGTCATCTTCGGCATGCTC	Forward
<i>PIN1</i> - PIN-formed protein1	Zm00001eb372180	CCCCTAGTCTGTCTCCTCT	Reverse

Gene	Locus	Sequence 5' → 3'	
<i>PIN3</i> - PIN-formed protein3	Zm00001eb194640	GTTGTACGTGGCGATGATCC	Forward
<i>PIN3</i> - PIN-formed protein3	Zm00001eb194640	CAGGTTTCATGGTGTAGGGGT	Reverse
<i>ABP1</i> - auxin binding protein1	Zm00001eb137840	GTCTGGGATGAGGACTGCTT	Forward
<i>ABP1</i> - auxin binding protein1	Zm00001eb137840	TTTCGCGAGCCACAATACAG	Reverse
<i>GA20OX3</i> - gibberellin 20-oxidase3	Zm00001eb145600	GGTGATCAGGTGGCAGACAT	Forward
<i>GA20OX3</i> - gibberellin 20-oxidase3	Zm00001eb145600	AAGAAAAGAACACCAGGCCG	Reverse
<i>GA2OX1</i> - gibberellin 2-oxidase1	Zm00001eb282550	AACCACTACCCTCCACCATG	Forward
<i>GA2OX1</i> - gibberellin 2-oxidase1	Zm00001eb282550	ATCGTTTGATCGGAGCAAGC	Reverse
<i>EREB10</i> - AP2-EREBP-transcription factor 10	Zm00001eb250540	TGTTGCACACCTAGCTAGCT	Forward
<i>EREB10</i> - AP2-EREBP-transcription factor 10	Zm00001eb250540	TGTACTCCTGTTGTCGCCAT	Reverse
<i>BRL1</i> - bri1-like receptor kinase1	Zm00001eb309030	AACAACCTCATCTGGCTGGA	Forward
<i>BRL1</i> - bri1-like receptor kinase1	Zm00001eb309030	TGCTTCCTGAAACAATGCC	Reverse
<i>BSK1</i> - brassinosteroid-signaling kinase1	Zm00001eb402560	ACACCCTCTTCTCCCATGG	Forward
<i>BSK1</i> - brassinosteroid-signaling kinase1	Zm00001eb402560	AAGCAAAGTCCCCACGTTTC	Reverse
<i>CDPK1</i> - calcium dependent protein kinase1	Zm00001eb227950	CTTGTTTGATGCCCCCTCC	Forward
<i>CDPK1</i> - calcium dependent protein kinase1	Zm00001eb227950	TCAACAAAAGACTGCCACG	Reverse
<i>CAL1</i> - calmodulin1	Zm00001eb291330	CATCCTCGACATGTTCTGCG	Forward
<i>CAL1</i> - calmodulin1	Zm00001eb291330	GTAGAGGTACGGCAGGTTGA	Reverse
<i>CAP1</i> - calcium pump1	Zm00001eb355420	GCGCTAACATTTGACTCCGT	Forward
<i>CAP1</i> - calcium pump1	Zm00001eb355420	TTGTTTGGCGTTAGGGTGG	Reverse
<i>CAX1</i> - calcium exchanger1	Zm00001eb345450	ACTGTGGGTGGACTGTTGAA	Forward
<i>CAX1</i> - calcium exchanger1	Zm00001eb345450	GCCACCAAAGAAAAGGGAGG	Reverse
<i>KCH1</i> - potassium channel 1	Zm00001eb158420	GGTCGCAAGAGATCTAGCT	Forward
<i>KCH1</i> - potassium channel 1	Zm00001eb158420	TCGAGGGCTCACTGTTGAAT	Reverse
<i>PIP1b</i> - plasma membrane intrinsic protein1	Zm00001eb249940	CTACACCGTCTTCTCAGCCA	Forward
<i>PIP1b</i> - plasma membrane intrinsic protein1	Zm00001eb249940	AGTAATGGGGATGGTGGCAA	Reverse
<i>SLAC1</i> - slow anion channel-associated1	Zm00001eb073420	ATGGGATTCGGCAGACAGAA	Forward
<i>SLAC1</i> - slow anion channel-associated1	Zm00001eb073420	GAAATATGGCGCCACTGGAG	Reverse
<i>SUS1</i> - sucrose synthase1	Zm00001eb392880	ACCACATCGACCCTTACCAG	Forward
<i>SUS1</i> - sucrose synthase1	Zm00001eb392880	ACTTCTCCTCGATACGCTGG	Reverse
<i>IDH1</i> - isocitrate dehydrogenase1	Zm00001eb359420	CGACTTCGCTCTCAAACCTCG	Forward
<i>IDH1</i> - isocitrate dehydrogenase1	Zm00001eb359420	TCGGTGTTCAAGTAATGGCT	Reverse
<i>MDH1</i> - malate dehydrogenase1	Zm00001eb344340	TCTGCCACTCTTCTCACAGG	Forward
<i>MDH1</i> - malate dehydrogenase1	Zm00001eb344340	CAACCTCTGTCCCACCATCT	Reverse
<i>PEP1</i> - phosphoenolpyruvate carboxylase1	Zm00001eb383680	AGATGTACAACGAGTGGCCA	Forward

Gene	Locus	Sequence 5' → 3'	
<i>PEP1</i> - phosphoenolpyruvate carboxylase1	Zm00001eb383680	CCACAAGCAGCTCGTCATAC	Reverse
<i>GOGAT1</i> - glutamate synthase1	Zm00001eb360480	GGAAACTGGGCGGAAC TTT	Forward
<i>GOGAT1</i> - glutamate synthase1	Zm00001eb360480	CTCTCAGTGTTGCGACGATG	Reverse
<i>ZmISCA1</i> – iron sulfur cluster assembly 1	Zm00001eb126830	TTCTTGTGTCTGTTGCGTCTG	Forward
<i>ZmISCA1</i> – iron sulfur cluster assembly 1	Zm00001eb126830	CGAGGTCTTAAATCGCGAGC	Reverse
<i>ZmISCA2</i> – iron sulfur cluster assembly 2	Zm00001d049325	ACCAGATACCGAAGCCGTAG	Forward
<i>ZmISCA2</i> – iron sulfur cluster assembly 2	Zm00001d049325	GTAAACGGTGGCGTGATGAG	Reverse
<i>CRY1</i> - cryptochrome1	Zm00001eb244770	TCACTGCAGATTTTGGCCAC	Forward
<i>CRY1</i> - cryptochrome1	Zm00001eb244770	CCGTCAACTGTCTCTTCCCT	Reverse
<i>CRY2</i> - cryptochrome2	Zm00001eb081200	GTCCTGTTCCCTCAAGAGCT	Forward
<i>CRY2</i> - cryptochrome2	Zm00001eb081200	GACCTCTGTTCCAGCTCTGT	Reverse
<i>PHYA1</i> - phytochromeA1	Zm00001eb055460	AAGAGCAGATGAGGCAGGTT	Forward
<i>PHYA1</i> - phytochromeA1	Zm00001eb055460	CAGCACAAACTCAGCCATGT	Reverse
<i>PHYB1</i> - phytochromeB1	Zm00001eb014850	ACCCACCTAACTTTCTCGG	Forward
<i>PHYB1</i> - phytochromeB1	Zm00001eb014850	GTGCACTGAAAACAGCCTCA	Reverse