

Supplementary Materials

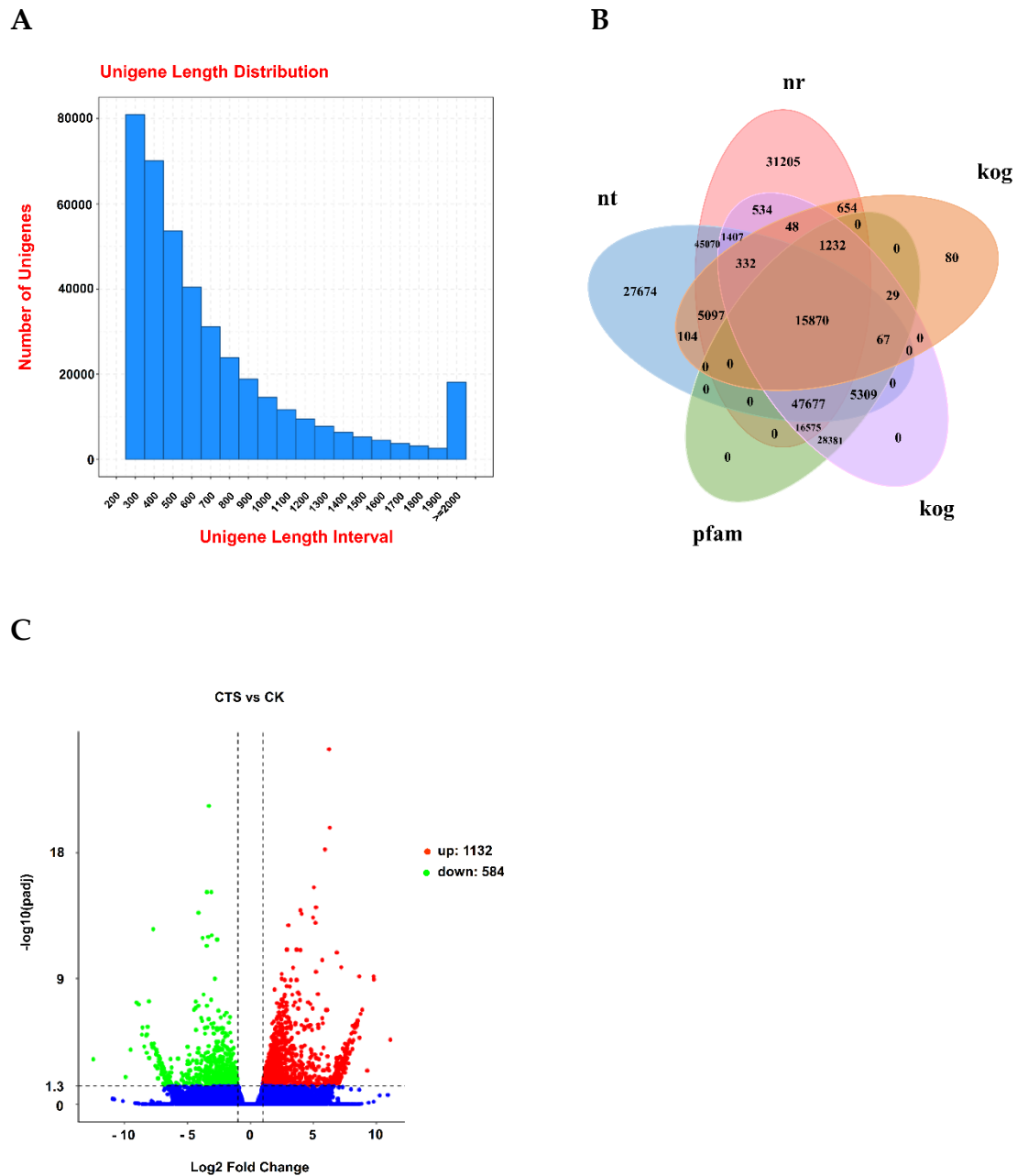


Figure S1. Length distribution and annotation of unigenes. **(A)** Unigene length distribution. The X axis represents the length of unigenes; the Y axis represents the number of unigenes. **(B)** Venn diagram of the number of unigenes annotated in 5 databases. **(C)** Volcano plot of DEGs. The X axis represents log₂ transformed fold change; the Y axis represents -log₁₀ transformed adjusted P value, the red points represent up-regulated DEGs, the green points represent down-regulated DEGs and the blue points represent non-DEGs.

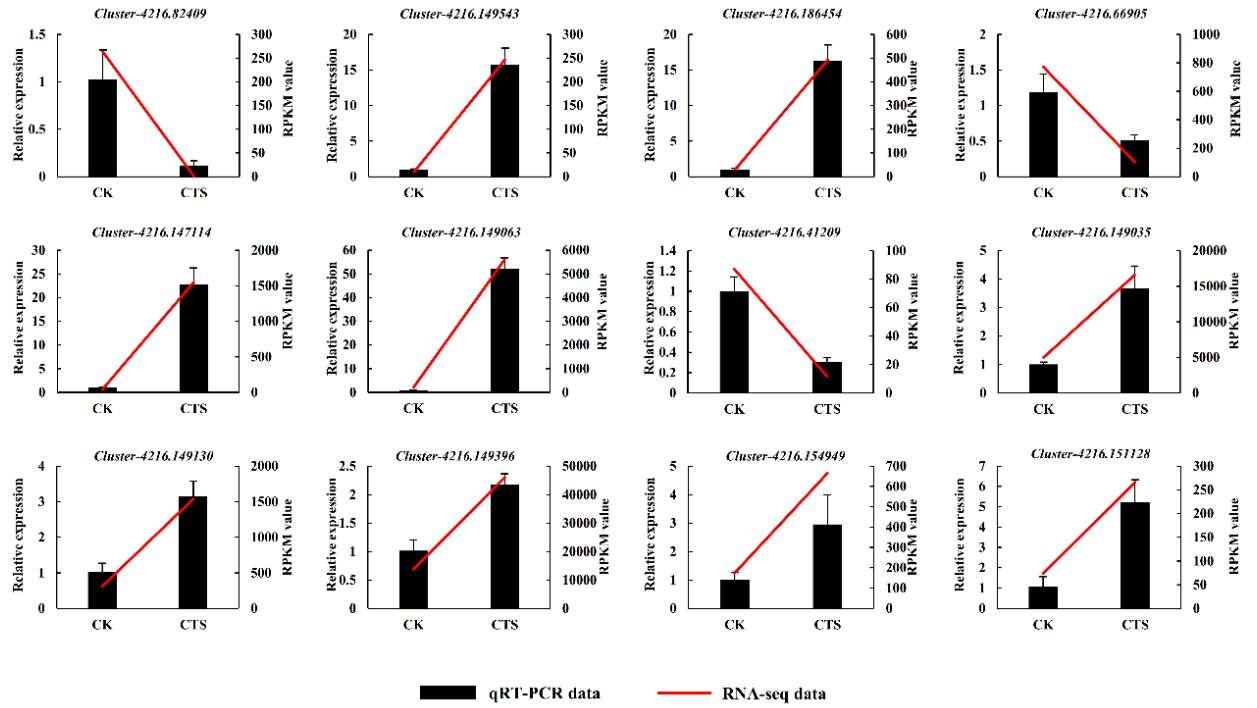


Figure S2. Expression of the selected 12 genes inferred by RNA-seq and qRT-PCR. Error bars represent standard deviation (n = 3). qRT-PCR data were obtained using $2^{-\Delta\Delta Ct}$ method, RNA-seq data represent Fragments per Kilobase Million (FPKM) value.

Table S1. The primers used in qRT-PCR analysis.

Gene	F Sequence (5' - 3')	R Sequence (5' - 3')
<i>Cluster-4216.82409</i>	TACCAGCCAGATTGGGAAAC	ATGTCACCTTGGAGGCTATTG
<i>Cluster-4216.149543</i>	CACGAGTTCTTGCTCGGATAA	GGAACCTGCGGATCTTGTT
<i>Cluster-4216.186454</i>	CACGAGTTCTTGCTCGGATAA	GGAACCTGCGGATCTTGTT
<i>Cluster-4216.66905</i>	ACATATCCACGGAGCAGTAAAT	GCGTCGAAACTTAGGTGTATTG
<i>Cluster-4216.147114</i>	TCACTTGCACACTGAAGAAGAT	CGTGGCGACGAGGAAAG
<i>Cluster-4216.149063</i>	CTACGAGGTTGGATCACGATTAC	GTGCATATATCGCCCTGTACG
<i>Cluster-4216.41209</i>	GAAGCTAGTAGTAATCCGTCAGC	ATGGATTTGTTTCATCCTTCACTTG
<i>Cluster-4216.149035</i>	CGATGACAACTCCGCTTTCT	TGACGGGTCACAAACTCTTTAC
<i>Cluster-4216.149130</i>	ACTACTTGATCCGCTCCAAATG	AGTACCTGCCGTGCGAAGTAT
<i>Cluster-4216.149396</i>	TGGCTTGAAGGCGATGAA	TGTAGGAGGTCAAGAAGGAGTA
<i>Cluster-4216.154949</i>	GAACGCCTGGTTCACCTC	CCTCAAGGGCAAGCTCAA
<i>Cluster-4216.151128</i>	CAACGATGGCTATGACGAGAT	AGATCCAAACCCGATTGTAGTG
<i>LmActin</i>	TCCTCACGCCATTCTT	TCTCCTTGATGTCCCT
<i>LmFeSOD</i>	CTGGTTGGGTTTGGCTTGT	TCGCCTGTCATCCTTGTAATCT
<i>LmCyt-Cu/ZnSOD</i>	GGCTGAGTATCCCATT	CTGCCTTTGCTGTTCT
<i>LmPOD</i>	CACAGTCTGGGAAAGG	GGTCCACATAGCGTCT
<i>LmCAT</i>	GTGCTCAACCGCAACAT	AGCAGCAGGTAGTTCGGTC
<i>P5CS1</i>	ATAACCAATGCTATCCCTGAC	TCTTAGTCGTTGCCTTGA

Table S2. List of differentially expressed genes (DEGs).

	Gene ID	Putative annotation	Fold Change (Log2 FC)	Function Bin
Hormone	Cluster-4216.162893	Auxin-responsive protein IAA3	-1.3189	Auxin
	Cluster-4216.159710	Auxin-responsive protein IAA17	-2.1782	
	Cluster-4216.127879	Auxin-responsive protein IAA17	-1.2972	
	Cluster-4216.160188	Probable protein phosphatase 2C 6	-1.4591	ABA
	Cluster-4216.123385	Probable protein phosphatase 2C 6	-2.0059	
	Cluster-4216.57388	Probable protein phosphatase 2C 9	-1.8179	
	Cluster-4216.311792	Probable protein phosphatase 2C 30	-1.6566	
	Cluster-4216.57385	Probable protein phosphatase 2C 49	-1.7867	
	Cluster-4216.307484	Probable protein phosphatase 2C 68	-2.388	
	Cluster-4216.270744	ABSCISIC ACID-INSENSITIVE 5-like protein 7	-3.4758	
	Cluster-4216.140285	Transcription factor TGA1	-1.4891	Gi
	Cluster-4216.41209	Transcription factor TGA3	-2.8932	
	Cluster-4216.41201	Transcription factor TGA4	-1.9332	
	Cluster-4216.164438	Transcription factor APG	1.8308	
	Cluster-4216.166110	Pathogenesis-related protein PRB1-2	2.3803	SA
	Cluster-4216.303056	Probable serine/threonine-protein kinase	-4.0003	BR
Cluster-4216.166723	Two-component response regulator ARR8	1.5472	KT	
Cluster-4216.157994	Two-component response regulator ARR8	1.5283		
Cluster-4216.320437	Histidine-containing phosphotransfer protein 4	-2.1177		
Photosynthesis	Cluster-4216.66931	Ferredoxin-1	3.5141	
	Cluster-4216.152814	Ferredoxin-1	1.8225	
	Cluster-4216.66929	Ferredoxin-1	3.548	
	Cluster-4216.154693	Ferredoxin-2	1.3764	
	Cluster-4216.145950	Ferredoxin, chloroplastic	2.1005	
	Cluster-4216.152742	Ferredoxin--NADP reductase, leaf isozyme, chloroplastic	2.4224	
	Cluster-4216.144916	Oxygen-evolving enhancer protein 2, chloroplastic	5.8014	
	Cluster-4216.155340	Photosystem I reaction center subunit N, chloroplastic	1.6275	
	Cluster-4216.149748	Photosystem II repair protein PSB27-H1, chloroplastic	1.8847	
Carbon fixation in photosynthetic organisms	Cluster-4216.119189	Phosphoglycerate kinase, chloroplastic	1.5865	E.2.7.2.3
	Cluster-4216.127201	Phosphoenolpyruvate carboxylase 1	1.2861	E.4.1.1.31
	Cluster-4216.149035	Ribulose biphosphate carboxylase small chain, chloroplastic	1.731	E.4.1.1.39
	Cluster-4216.149095	Ribulose biphosphate carboxylase small chain PW9, chloroplastic	1.6953	E.4.1.1.39
	Cluster-4216.149121	Ribulose biphosphate carboxylase small chain clone 512	1.7816	E.4.1.1.39
	Cluster-4216.149130	Ribulose biphosphate carboxylase small chain PW9, chloroplastic	2.3144	E.4.1.1.39
	Cluster-4216.149139	Ribulose biphosphate carboxylase small chain PWS4.3, chloroplastic	1.7955	E.4.1.1.39
	Cluster-4216.149140	Ribulose biphosphate carboxylase small chain PWS4.3, chloroplastic	1.2312	E.4.1.1.39
	Cluster-4216.149192	Ribulose biphosphate carboxylase small chain, chloroplastic	1.4394	E.4.1.1.39
	Cluster-4216.149194	Ribulose biphosphate carboxylase small chain PWS4.3, chloroplastic	1.4753	E.4.1.1.39
	Cluster-4216.149196	Ribulose biphosphate carboxylase small chain, chloroplastic	1.4715	E.4.1.1.39
	Cluster-4216.149236	Ribulose biphosphate carboxylase small chain	1.6478	E.4.1.1.39
	Cluster-4216.149303	Ribulose biphosphate carboxylase small chain PW9, chloroplastic	1.8642	E.4.1.1.39
	Cluster-4216.149342	Ribulose biphosphate carboxylase small chain PW9	1.5069	E.4.1.1.39
	Cluster-4216.149396	Ribulose biphosphate carboxylase small chain clone 512	1.7521	E.4.1.1.39
	Cluster-4216.149480	Ribulose biphosphate carboxylase small chain clone 512	1.477	E.4.1.1.39
	Cluster-4216.149485	Ribulose biphosphate carboxylase small chain PWS4.3, chloroplastic	1.3153	E.4.1.1.39
	Cluster-4216.159463	Ribulose biphosphate carboxylase small chain clone 512	1.5728	E.4.1.1.39
	Cluster-4216.142092	Ribose-5-phosphate isomerase 2	1.5361	E.5.3.1.6
	Cluster-4216.149516	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic	1.396	E.1.2.1.12/1.2.1.13
Cluster-4216.149648	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic	1.1286	E.1.2.1.12/1.2.1.13	
Cluster-4216.154949	Glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic	1.9379	E.1.2.1.12/1.2.1.13	

Cluster-4216.150570	Glyceraldehyde-3-phosphate dehydrogenase 3, cytosolic	1.5657	E.1.2.1.12/1.2.1.13
Cluster-4216.151128	Transketolase, chloroplastic	1.8507	E.2.2.1.1
