

Supplementary materials

Table S1 The sequences of specific primers for qRT-PCR

Primer name	Forward (5'-3')	Reverse (5'-3')
PAL	CCCTGCAGTGCTAACTACCC	GAATAGCCGGGTTCCTCACTC
C4H	GGTCGTAGTGTCTGAACCCTG	TGAACACCATGTCCTGACCG
4CL	TGGGTTCCACCGGAAAAACA	CCGATCATAGAAGCCGCCAT
CHI	GTCGGAAAAGTGCCTTCTT	CTCCGGCATTGAACCCTCTT
F3H	GCGGATTCATCGTTTCCAGC	GTTACTGCCCTCCACCCTTC
LDOX	GCAACGGCAAGTACAAGAGC	ATATGCTGGGCAGAAGTGCC
UFGT	CAAACGGAAACGGGTGGAC	CGGTGGGTCTAGCTTCTGG
MYB1	GCTCTTAGGCAACAGGTGGT	CGTGATTTCTGGGGCTTTGC
β -actin	AGCAGCATGAAGATTAAGGTTGTAGCAC	TGGAAAATTAGAAGCACTTCTGTGAAC
c33937.graph_c0	CGCCACGCCCAGTAAACTAA	GCAGCCATCTCCCAGTTCAA
c41003.graph_c0	GCGCCACGTTTATTCTTCCC	CGTTGCTGCTGATCCCATTG
c31758.graph_c0	CGGCAAAGTTGATTTCCGGT	TTGGTGACGAGCTTGGCAAT
c37779.graph_c0	GTACCGCATGATGTTTCGACG	AGCAGAGGGATGAAATCGCC
c36415.graph_c0	TTGCTTGCATTTCTCGGTGC	TTGTGGGTCAACACCACTCC
c38523.graph_c0	GTCCATTGCAAGCTGTTGCT	TCGTGGAGCTTTTCCAACCA
c57881.graph_c0	AGGTCAGGAAGCTCTGCAAC	ACAGCACCCAAGTAATCCCG
c56053.graph_c0	TTACCTCGGCTTCGGCAAAT	GAAGTGGAGGCGGATAAGGG
c54151.graph_c0	GTACACGGATTCACGCTCCA	ACGGATATTTCCATTCCGCC
c5336.graph_c02	ACATGCATGCGGGTCAATA	TGCATGCAACACCATTACACC
c40801.graph_c0	GAAAAGCTCGGCGAAGAACG	AGGAGCCTTGCTTTGGAACA
c53825.graph_c0	TGGCCATTCAGGATGGGAAT	AGCACAGTGGAAGTCCAGC

Table S2 Differentially expressed genes between Jingshu 6 and JS6-5

Gene ID	Jingshu 6 FPKM	JS6-5 FPKM	log ₂ (JS6-5/Jingshu 6 FPKM)	Gene expression change	Predicted function
c33937.graph_c0	5.044	175.193	5.118	Up	Phenylalanine ammonia lyase
c41003.graph_c0	28.621	1152.011	5.331	Up	Phenylalanine ammonia lyase
c31758.graph_c0	0.919	20.438	4.475	Up	Cinnamate 4-hydroxylase
c37779.graph_c0	33.881	169.078	2.319	Up	Cinnamate 4-hydroxylase
c36415.graph_c0	6.598	53.089	3.008	Up	4-Coumarate CoA ligase
c38523.graph_c0	58.866	693.698	3.559	Up	Cytochrome P450 98A2-like
c57881.graph_c0	45.212	524.133	3.714	Up	Coumarate 3-hydroxylase
c56053.graph_c0	18.728	130.911	2.805	Up	Peroxidase 74 precursor
c54151.graph_c0	0.968	79.564	6.245	Up	Peroxidase 51-like
c5336.graph_c02	8.213	506.74	6.075	Up	Basic form of pathogenesis-related protein 1
c40801.graph_c0	1.917	14.814	2.942	Up	RPM1-interacting protein 4
c53825.graph_c0	27.222	133.458	2.466	Up	Abscisic acid receptor PYL9-like

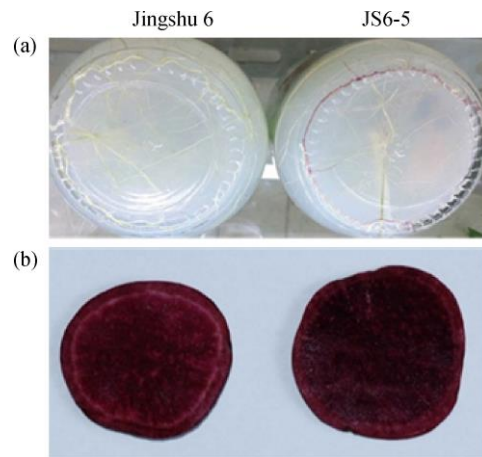


Fig. S1 Variation of root color of Jingshu 6 and JS6-5. (a) Variation of root color of Jingshu 6 and JS6-5 on MS medium; (b) variation of storage root flesh color of Jingshu 6 and JS6-5.

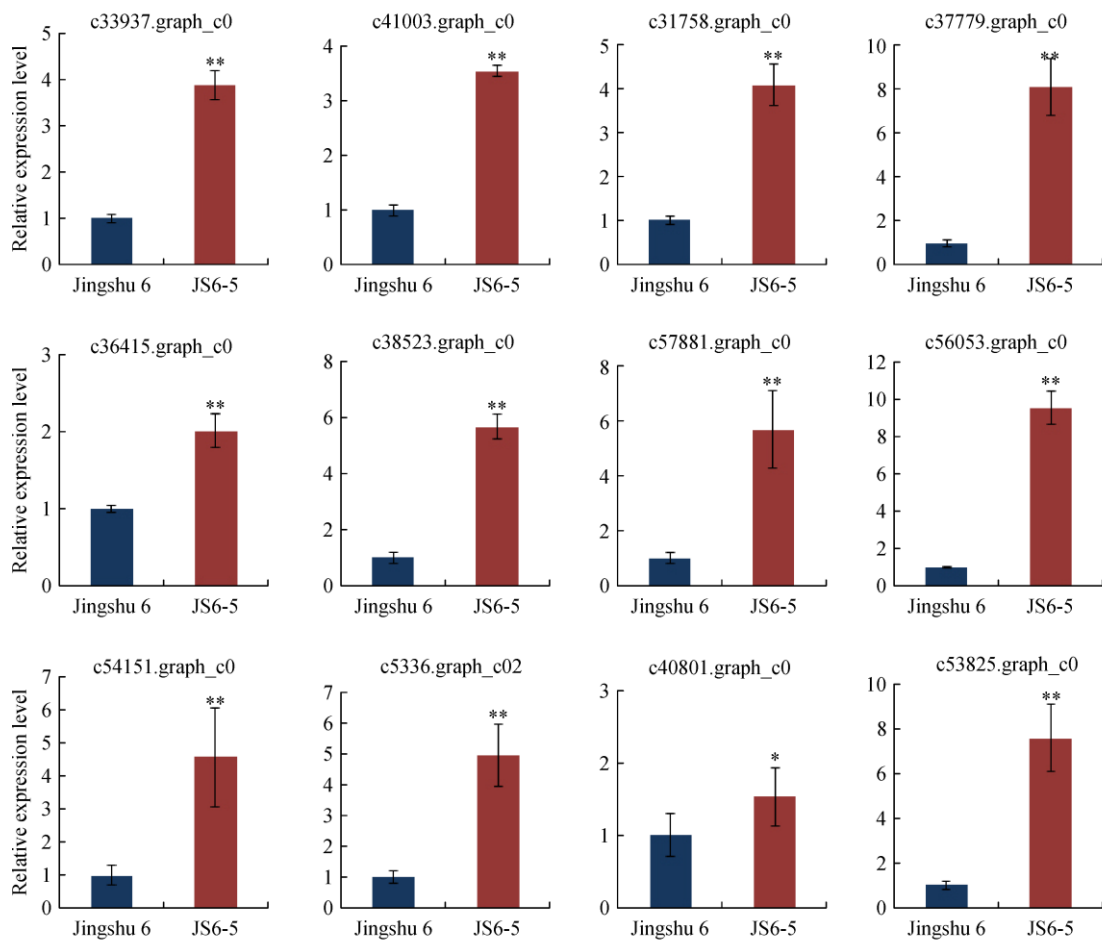


Fig. S2 Expression levels of the genes randomly selected from the transcriptome of Jingshu 6 and JS6-5.

**, significantly different at $P < 0.01$.