Table 1. Suppl. Primer sequences used in this study.

Gene name	Sequence (5' to 3')	Amplicon size
Ubiquitin	F: GGCTAAGATCCAAGACAAAGAGA	144
	R: CCACGAAGACGAAGCACTAAG	
NFS2	F: CCTGCCCCCTCAAATCATGT	190
	R: AGAAGTGAAGACTCGCACGG	
SUFE1	F: TCTCTCAGGTCTGGGTCAGG	189
	R: TTAAGCTCTGCTGAAGCCCC	
SUFE2	F: TCGTGCCTGATTTGGATGCT	219
	R: CGCAAGCAGAGAAGGCAAAG	
SUFE3	F: GCAGCAGTTCGTGGTTTGTT	193
	R: TAATGGAGCATCCCTCCCCA	
SUFA	F: GGTGCTCTGGCATGTCGTAT	166
	R: CCTCCACCGATAAGAGCGTC	
NFU1	F: GGCACCGGTTAACCTCTCAA	157
	R: CGGACGTCCTCAAGAACCAA	
NFU2	F: GCCCTTCAGCAACAACCTTC	184
	R: CTGCAGTCAGTGACAACTCG	
NFU3	F: GGTACGACCTGGCTTGATGG	152
	R: TATCTCGCAGGCGGGTCTCA	
SUFB	F: AACCCGCCTTGAATAGCCTC	156
	R: ACGCCTTCCTATGTGTCGTG	
SUFD	F: TTCAGCAACTGGGACCAGAC	230
	R: ACTTCTTGTCAGCTGCCCTC	
HCF101	F: TCTACAGCCGTGACCTACGA	236
	R: CCGTCTGGCCACGTTATTGA	
GRXS14	F: CTGTTGGGGCCTTCAACTCA	170
	R: GAGCTGAGGTCCAAAAGACGA	
GRXS16	F: GTGCCCCATTGTGTGGTTTC	224
	R: GGCAAGCTCACCCTTCTCTT	
NFS1	F: TCGATTCGTGCCGTCATCTT	179
	R: CCCAATTTCCTCCATCGGCT	
ISD11	F: CGGAGGTGCTCACACTGTTC	171
	R: CGAACTGAGCCTTGCCATCT	
ISU1	F: AGACCTTTGGCTGTGGATCG	247
	R: GCAGCCTTCTCAACAGGAGT	
ISA1	F: CGGCTTGTCGTACACTCTCA	201
	R: TCTCCACAACCACACTGTCC	
ISA2	F: CTGCCCCTCTCTTCTTCGTC	161
	R: GTGCAAGCCCCTCAGTTTTC	
ISA3	F: GTCCCTCGATGCTGTTGTGA	168

	R: ACTCTGTCATCTGGGTGGGT	
NFU4	F: TGCTTATTCACCTGCCACGA	157
	R: AAGAGATGCAGGGTTGGGTG	
ADX1	F: TTGAAGGAGCGTGTGAAGGT	161
	R: CACTTGACAACCCAAGCGAG	
ADX2	F: CGTCTGCACCAAAGACAGGA	246
	R: CGCAGGATCCTTCACATGCT	
ADXR	F: ATCGTTTGCCAACGCCTTTC	203
	R: TTCAGCACCATAGGCAAGCA	
FH	F: TCAACGATGCTGAAGTCCCC	173
	R: GGTCAGCACCTCATTCCCAT	
HSCA1	F: CAGCAGCTGACAACCAAACC	200
	R: ATCAGTGCCCTTGTCCCTTG	
HSCA2	F: AGCCGCAACACAACAATTCC	154
	R: GAGGAATGCCCACGAGTTCA	
HSCA3	F: ACAGCTGCAGATGGACAGAC	199
	R: CTGTGCCCTTATCCACAGCA	
HSCA4	F: AATTCCACCAGCTCCAAGGG	169
	R: AACCATGCGGTCGATTTCCT	
HSCA5	F: AGGATTGTCGCTTGCTTGGA	215
	R: AGCCTCCTTCACCATCCTCT	
HSCB	F: TCCGGCACTTTCTTCTCACC	212
	R: ACAGGTTGAATGCACCGACA	
INDL	F: GGTTGGCTTGCTTGATGCTG	153
	R: TCCTTGGCCACAAGAAGTCC	
IBA57	F: AACGATGTACGGAGGTTCGG	219
	R: CTCCAACGCTTCATCTGGGT	
GRXS15	F: GAATTTCAGGCTTCCCGGCT	150
	R: TAAGGCCAGAACCGTCGAAC	
ATM3	F: GCCGGACCTGAGAAATCCAA	221
	R: AGCTCAACCAATCCACAGCA	
ERV1	F: TCTCATTGGCCAACCTCACC	233
	R: CCTTGCAGGGGTACATTCGT	
NAR1	F: CGGTGTTGACATCTGGGGAA	152
	R: TTCTGCATAACCCCCAGAGC	
NBP35-1	F: CCACTCCACAACAGGTCTCC	152
	R: ACCGGTCTCTGTCATCCTCA	
NBP35-2	F: CCAGAACCTGATGACGCTGT	210
	R: GGAGACCTGTTGTGGAGTGG	
TAH18	F: CCCACCACCATCACTTCCTC	201
	R: AGCACCCCACCATTTTGTGA	
DRE2	F: TTGTCCTTTGGGGTCAAGGC	246

	R: CTGCTCTTCTTCAGCCCTCC	
CIA1	F GAAGCTGGAGGGTCACACAG	154
	R: ATCCCACGAAGAAGTGGAGC	
CIA2	F: CGCTGTTGAACCCATTGACC	245
	R: TGTAACGAGAAGGCAGGCTC	
CIA3	F: CCCTTACTCGTTGGAGGAGC	220
	R: GGCAGCTTCAGTTGCATGAG	
MMS19	F: GCACTGCTGAGGAGGAAAGT	168
	R: AATCTCATTCGGATGGCGCT	

Fig. 1 Suppl. Typical flower samples collected at different flowering stages, including bud swell (FS1, 24th March), beginning bloom (FS2, 26th March), full bloom (FS3, 27th March), and petal fall (FS4, 28th March 2014).

Table 2 Suppl. Components of Fe-S cluster biosynthesis proteins in peach. All these Fe-S cluster biosynthesis genes in peach were isolated in the previous study of Song *et al*. (2014). These proteins are putatively located in plastids, mitochondria, and cytosol, respectively, as referred to Balk and Pilon (2011).

Subcelular localization	GeneBank No.	Protein	Proposed function	Gene location	Scaffold distribution	Intron No.
Plastid	KP690197	NFS2	cysteine desulfurase	43568506-43573506 forward	1	10
	KP690198	SUFE1	activator of NFS2	25003930-25004448 reverse	1	0
	KP690199	SUFE2	activator of NFS2	2909017-2910426 reverse	6	1
	KP690200	SUFE3	activator of NFS2	14325856-14329448 forward	5	6
	KP690201	SUFA	cluster transfer	15623615-15626900 reverse	6	2
	KP690205	SUFB	scaffold	1064337-1067184 reverse	4	1
	KP690206	SUFD	scaffold	44661154-44663579 reverse	1	2
	KP690202	NFU1	scaffold	419911-421354 reverse	4	2
	KP690203	NFU2	scaffold	42835154-42838256 forward	1	3
	KP690204	NFU3	scaffold	5585700-5589304 forward	1	4
	KP690207	HCF101	4Fe-4S insertion	20499910-20504801 reverse	7	13
	KP690208	GRXS14	2Fe-2S transfer	28511052-28513424 reverse	6	2
	KP690209	GRXS16	2Fe-2S transfer	28511052-28513424 reverse	6	1
Mitochondria	KP690210	NFS1	cysteine desulfurase	20256770-20258464 forward	6	0
	KP690211	ISD11	interacting with NFS1	19185732-19187433 reverse	3	1
	KP690212	ISU1	scaffold	14726309-14728448 forward	5	2
	KP690213	ISA1	cluster transfer	14221010-14222922 forward	7	2
	KP690214	ISA2	cluster transfer	15623615-15626900 reverse	6	2
	KP690215	ISA3	cluster transfer	4998948-5001504 forward	5	3
	KP690216	NFU4	scaffold	20832954-20838825 reverse	4	5

	KP690217	ADX1	electron transfer	4705377-4707026 forward	7	4
	KP690218	ADX2	electron transfer	1736220-1738450 forward	3	6
	KP690219	ADXR	electron transfer	20410191-20414066 reverse	7	12
	KP690220	FH	iron donor	17295232-17297783 reverse	3	4
	KP690221	HSCA1	HSP70-type chaperone	4802417-4805581 reverse	3	5
	KP690222	HSCA2	HSP70-type chaperone	10192834-10197043 forward	8	6
	KP690223	HSCA3	HSP70-type chaperone	16628386-16632488 forward	4	8
	KP690224	HSCA4	HSP70-type chaperone	12347918-12351910 forward	5	7
	KP690225	HSCA5	HSP70-type chaperone	26559943-26562551 forward	6	5
	KP690226	HSCB	co-chaperone	12835970-12838298 reverse	7	5
	KP690227	INDL	cluster transfer/insertion	19784581-19787223 forward	8	5
	KP690228	IBA57	aminomethyl transferase	9346856-9349277 reverse	5	4
	KP690229	GRXS15	glutaredoxin	8192325-8194568 reverse	8	6
Cytosol	KP690230	ATM3	ABC transporter	2312941-2321286 reverse	6	17
	KP690231	ERV1	sulfhydryl oxidase	15166668-15169488 forward	8	5
	KP690232	NAR1	[FeFe]-hydrogenase-like	371785-376087 forward	4	10
	KP690233	NBP35-1	scaffold	46243125-46246641 reverse	1	4
	KP690234	NBP35-2	scaffold	21201735-21204043 forward	3	2
	KP690235	TAH18	electron transfer	17969344-17973001 reverse	3	11
	KP690236	DRE2	electron transfer	31347828-31350994 forward	1	7
	KP690237	CIA1	WD40 protein	14203196-14207803 forward	7	9
	KP690238	CIA2	DUF59 domain	7544920-7547922 forward	1	4
	KP690239	CIA3	DUF59 domain	13133334-13136592 forward	6	4
	KP690240	MMS19	[Fe-S] transfer	3307067-3317526 forward	3	18