

Supplemental Table S1. Primers used for qRT-PCR.

ID	Gene name	Sequence (5'-3')	Size (bp)
1	Reference gene (<i>EF1a</i>)	GAACCTCCCAGGCTGATTGT CAAGAGTGAAAGCAAGAAGAGCA	117
2	CL20415.Contig5	GGACCACGTCACCTCGTACT GCTCCTGGACCCCTACTTCT	91
3	CL6462.Contig6	TGCGGGGCTGATAAATAAAG CACTGGCATTTCGTTGTATCG	131
4	CL7025.Contig13	CAGTTCCCAGTTCCATCGTT AAGAAGAGGGCAGCTTAGGG	122
5	CL7117.Contig50	CTTCGTGTCCCTCTTTCTCG TTCCTCATGGACAACAACGA	112
6	CL1681.Contig5	CATCGCGTGTTTAAATGTGG ACACGAGTAAGCTCCCCTCA	95
7	CL4070.Contig3	GAGCCTGTTGGCAAAAGAAG CGCCAGTCACACACTGACTT	105
8	CL20016.Contig13	ATCACGCGAGGAAAAGAGAA CACCCATTGTGTGGAGTGAG	102
9	CL2156.Contig4	GCAGGAAGTGCTCCAGATTC GGACTGGCTGACCGAGATAC	116
10	CL4070.Contig3	GAGCCTGTTGGCAAAAGAAG CGCCAGTCACACACTGACTT	105
11	CL20825.Contig4	AGGAGTTGCTCTGGTGGCTA	92

		CTGCCCACAGCTAGAACACA	
12	CL3131.Contig12	GCCGCTCGTTATTATTGCTT ACGGACATCGGTACACCACT	111
13	Unigene13953	CAACTGAATGGGGGAGAAGA TTCCCAAAAGCAGCTACCAT	113
14	Unigene33410	GCAAGAAGCTGATCACCACA GAGAAGCACGACCTCCTGTC	100
15	Unigene34032	GCCGCAGATTATTCCATTGT GCCTGATCGATGGAGTTGAT	96
16	CL21417.Contig36	CCATGTTCAATCCCATTTC CCTAGCAATCACACGCTCAA	109
17	CL4122.Contig2	TAGGAAGAGGGGCAAGTCG CCCAGGCGACTGGATAACTA	135
18	CL199.Contig1	AAGACCATCGGCATTTCTTG TCGACGGTTACATGACAGGA	116
19	CL16112.Contig1	CCACGACTGGAAAAAGGTGT GAGTACGTCGAGGAGGCAAG	120
20	CL9242.Contig16	TTAGCTGCCTCACCGTCTTT TCGGCACTGCTATGATGAAG	90
21	CL9242.Contig17	GTTGTCAGCATTCCAGCTCA TGCTAGCGTCAAGAGGGATT	122
22	Unigene36876	GGAGGATGAGGAGGAAAAGG TCGTGGAAGCTCTCCATCTC	105

23	CL17280.Contig5	GCGCGTGTAAATAGCCGTAT GATCCCTCCCTCCTTTCATC	95
24	ACCcase	TCAGAGGCATTGATGACAGC TACTGTCTTCGCCCATCCTT	95

Supplemental Table S2. Primers used for candidate genes cloning.

ID	Gene name	Sequence (5'-3')	Size (bp)
1	CL7117.contig50	ATGGATTACATGAGGCTTGATATC TTATCCTTTCGCCTCGTGCCGCC	1107
2	CL16112.contig1	ATGCCTCACATTTTACTCTCTTTATTC TTAACTCTGAAAGCTCTGCAATGG	885
3	Unigene 36876	ATGGCGATGGTATCGTCAACATCC TTACAACTATGGCGCATGTACATC	915
4	Unigene33410	ATGGTTGACTGGTGGTACCTATTTGC TTATCTTCTCCCCGCTCACCTATACTC	1740

Supplemental Table S3. Clean reads quality metrics.

Sample	Total raw reads (Mb)	Total clean reads (Mb)	Total clean bases (Gb)	Clean reads Q20 (%)	Clean reads Q30 (%)	Clean reads ratio (%)
TSR-1A	39.2	29.38	4.41	97.73	93	74.95
TSR-2A	40.83	29.79	4.47	97.83	93.23	72.96

TSR-3A	37.56	29.45	4.42	97.81	93.16	78.4
TSS-1A	40.83	30.03	4.5	97.8	93.12	73.56
TSS-2A	42.46	30.34	4.55	97.77	93.06	71.45
TSS-3A	38.89	28.55	4.28	97.77	93.04	73.42
TTR-1A	39.2	29.97	4.5	97.72	92.86	76.47
TTR-2A	39.2	30.45	4.57	97.93	93.46	77.68
TTR-3A	39.2	30.31	4.55	97.81	93.18	77.33
TTS-1A	38.83	29.39	4.41	97.42	92.19	75.69
TTS-2A	38.83	29.99	4.5	97.06	91.29	77.23
TTS-3A	40.46	30.11	4.52	97.67	92.84	74.42
USR-1A	40.83	30.53	4.58	97.73	93	74.77
USR-2A	39.2	29.49	4.42	97.87	93.34	75.23
USR-3A	34.26	28.07	4.21	96.97	91.47	81.92
USS-1A	40.83	30.44	4.57	97.93	93.49	74.55
USS-2A	40.83	30.3	4.54	97.79	93.1	74.21
USS-3A	40.83	30.38	4.56	97.82	93.2	74.42
UTR-1A	39.16	28.92	4.34	97.8	93.12	73.86
UTR-2A	42.46	30.52	4.58	97.58	92.62	71.87
UTR-3A	39.2	30.14	4.52	97.8	93.17	76.89
UTS-1A	38.83	29.68	4.45	97.78	93.06	76.45
UTS-2A	38.82	29.67	4.45	97.83	93.19	76.43
UTS-3A	37.56	29.86	4.48	97.87	93.3	79.5

Supplemental Table S4. Quality metrics of the unigenes.

Sample	Total number	Total length	Mean length	N50	N70	N90	GC (%)
TSR-1A	54370	48155425	885	1436	880	353	51.18
TSR-2A	56811	49665921	874	1414	864	349	51.17
TSR-3A	55479	45874690	826	1321	806	331	51.42
TSS-1A	67598	53733850	794	1274	759	317	51.85
TSS-2A	67591	53800123	795	1287	760	316	51.38
TSS-3A	60250	46293391	768	1238	726	307	51.66
TTR-1A	64331	57190849	889	1463	904	349	51
TTR-2A	64739	56552820	873	1413	876	348	51.71
TTR-3A	63356	53139917	838	1345	827	336	52.13
TTS-1A	68716	52091776	758	1216	711	301	52.31
TTS-2A	69324	51967974	749	1200	696	298	51.65
TTS-3A	70729	57757302	816	1309	787	326	52.18
USR-1A	56268	47916815	851	1383	843	339	51.24
USR-2A	53519	44596480	833	1338	816	335	51.28
USR-3A	51899	40056053	771	1207	733	314	51.93
USS-1A	71813	57927245	806	1303	774	318	51.02
USS-2A	75657	61008012	806	1298	771	320	51.2
USS-3A	78336	64247093	820	1330	789	322	50.84
UTR-1A	60243	55009993	913	1490	930	364	51.07
UTR-2A	57427	50541973	880	1411	876	356	51.84
UTR-3A	62391	50556472	810	1331	790	316	51.99

UTS-1A	69628	54711519	785	1258	750	314	51.7
UTS-2A	76395	58676682	768	1236	722	304	51.66
UTS-3A	75796	57951710	764	1216	717	305	52.03
All-Unigene	218885	2.57E+08	1175	1827	1261	564	50.86