

Table S1. Primer sequences used in this study

Mapping and detecting primers		
Name	Forward sequence (5'-3')	Reverse sequence (5'-3')
C3-16	CGAGGACAGCAGGAATAAGG	AGTTTACGAGTTGCCAAGCA
K5	CGGACTCCTCTGATACGATA	GGCATTTCACCATAACA
K20	GGTTTCAGATTTGCCACG	TTCATTCCGCATTTGGTC
K22	ACATCTGAATCTCACAACCGAA	AAAGATCCAAGGAGTATGACGA
K27	TTGAGGGATACGATTTAGATTC	ATTCGACCTGCCCGTTAGT
K29	CCAACCGTTTCTACGTTGACT	TGTAGCCCGTATGCTCTTCTC
K31	TTTACTCGCCGCTTTGGAC	CAGCAGGGAGGATTGGGAT
K40	CGGACGACGAGGCGAACC	AGGAGCAGCGTGCGGCTG
KG-1	CACTAGCTGCCACTATTTTAC	TGATACAAGCACAGATCGAAGA
KG-2	TGTGGAGGTCGATGAGGAA	GAGGGAGTATAAGATTGGTGAGAA
KG-3	TTGTTGTCACGGGTAAAAGTA	CCTGAATATCTGAGCCATCT
KF	TGCAACCAGGAGATACGCTCA	CTAAGATGCCCTCTGAACTGA
ACTIN	ACGGAGCGTGGTTACTCATTC	ATCGCAACTCAAAAACAACCAG
Quantitative RT-PCR Primers		
Name	Forward sequence (5'-3')	Reverse sequence (5'-3')
Ubq	GCTCCGTGGCGGTATCAT	CGGCAGTTGACAGCCCTAG
ASL4-RT	GCTGGTGTGCGGGACGTA	CTCGGAGGCCTCGTCGAAC
FtsZ	GTTGGTGTTCCTCCAGCAA	CCTCAATAGACGACCCGATT
rpoTp2	AAGTCTGGCTTACGCTGGTT	AGGATCCTCAGCATTATCC
rpoA	AAATCGTTGATACGGCACAA	ATTCACATTTGAAACAGGCA
rpoB	GCATTGTTGGAAGTGGATTG	GCCGATGGGTAATAAAGGA
rbcL	GTTGAAAGGGATAAGTTGA	AATGGTTGTGAGTTTACG
psbA	AAGTTTCTCTGATGGTATG	ATAGCACTGAATAGGGAA
psaB	TTGGTATTGCTACCGCACAT	CCGGACGTCCATAGAAAAGAT
psbB	TCATATTGCTGCGGGTACAT	AGTTGCTGACCCATAACCACA
psbC	TACAACCTTGGAAGAACGA	TACGCCACCCACAGAATTTA
rbcS	TCATCAGCTTCATCGCCTAC	ACTGGGAACACACGAAACAA
cab1R	AGACGTTCCCAAGAACC	GAGGAGCTCCGGAAGAC
cab2R	GTTCTCCATGTTCCGGCTTCT	GACGAAGTTGGTGGCGTAG
PORA	ATCACCAAGGGCTACGTCTC	GAGTTGTTGTTCCAGCTCCA
HEMA1	CACCAGTCTGAATCATAT	CTACCACTTCTCTAATCC
YGL1	TGGACAGTTGAAGATGTT	GAATAGGACGGTAAGGTT
CHLI	AGTAACCTTGTTGCTGTG	AATCCATCAACATTCAACTCTG
CHLH	CTATACATTGCCCACT	TATCACACAACCTCCAAG
CHLD	GGAAAGAGAGGGCATTAG	CAATACGATCAAGTAAGTGTT
Vector construction primers		
Name	Primer pairs (5'-3')	Restriction enzyme
ASL4genomics	CCATGATTACGAATTCCTGTAGCCCGTATGCTCTTCTC	<i>EcoR I</i>
	CCAAGCTTGCATGCCTGCAGTGGCTTCCGTGAACTACTTGC	<i>Pst I</i>
ASL4-GFP	GGACTAGTATGGCGTCCCTGGCGCAGCA	<i>Spe I</i>
	GCTCTAGATTCATCTGTGGTTTGCCCTTCTC	<i>XbaI</i>