

Supplemental Table 2. Primers used in this study		
Name of primer	Sequence, 5' – 3'	Purpose
AP	GGCCACGCGTCGACTAGTACTTTTTTTTTTTTTTTTTT	3'-RACE
AUAP	GGCCACGCGTCGACTAGTAC	3'-RACE and 5'-RACE
11.3RACE1	GACATCGATCAGAAGTTGCAGCCATTGCCA	3'-RACE
11.3RACE2	GACATCGATGTCCAACATGTCAACCTGGT	3'-RACE
14.3RACE1	GACATCGATGATGTGATTACTAAAGTTCCAG	3'-RACE
14.3RACE2	GACATCGATGTTTGTGAGCGAAGCGCTTG	3'-RACE
19.3RACE1	GACATCGATGGCTACGTCAAGAAAATCCAA	3'-RACE
19.3RACE2	GACATCGATGCCACTTATGGCTGAAAAACT	3'-RACE
20.3RACE1	GACATCGATTGGCATAACGTCAAGAAAATCC	3'-RACE
20.3RACE2	CGCATCGATGTCAAGAAAATCCAATTTCAATG	3'-RACE
34.3RACE1	GACATCGATAGCTCATGAGCAGATTATTGC	3'-RACE
34.3RACE2	GACATCGATTTTCGCTCTCTGATTGAGGCG	3'-RACE
36.3RACE1	GACATCGATGGAACAGCAATTCTAGTGTAAG	3'-RACE
36.3RACE2	GACATCGATGCAAGTTGATTTTTGGTGAAGT	3'-RACE
44.3RACE1	GACATCGATGCAGTATAACAAGAAGGAGATCTGC	3'-RACE
44.3RACE2	CGCATCGATGAGATCTGCTCAAATATGACAC	3'-RACE
57.3RACE1	GACATCGATGAAGATGGAAGCGAAGAAGAGAAG	3'-RACE
57.3RACE2	GACATCGATACGAGCTGAAGGAAGCATTC	3'-RACE
76.3RACE1	GACATCGATGACGTCATCGTCTTCCGTAT	3'-RACE
76.3RACE2	GACATCGATGCCTGCATTTGACGTCACTG	3'-RACE
77.3RACE1	GACATCGATGAAGCTAAGTCTATGGTTTCAC	3'-RACE
77.3RACE2	GACATCGATGCAGGATTATGCCTAGGTGA	3'-RACE
101.3RACE1	GACATCGATTTTGTAGCGCGTGGGACAAT	3'-RACE
101.3RACE2	GACATCGATTACTAGCTGAGTATACCGAGT	3'-RACE
102.3RACE1	GACATCGATGTACTATCATCGTCTCGGCAA	3'-RACE
102.3RACE2	GACATCGATGGAAACGGAGTTATCTCCTCT	3'-RACE
126.3RACE1	GACATCGATTACTGCTATGGCCTCCACTAC	3'-RACE

126.3RACE2	GACATCGATTTTCAGCTGCTGCTTCAATGCT	3'-RACE
140.3RACE1	GACATCGATTGGGGCCAAAGTTTTCCAGA	3'-RACE
140.3RACE2	GACATCGATAAGGGGAAGCTGAAAATAGTG	3'-RACE
140.3RACE1B	GACATCGATTCGCGAGCATGTGAAATTGG	3'-RACE
140.3RACE2B	GACATCGATGCTGAAAATAGTGAAAGAAGGAG	3'-RACE
141.3RACE1	GACATCGATACACAAGCAGTTACTGCAACT	3'-RACE
141.3RACE2	GACATCGATGGTTTCTGTGCAGATGTCTTC	3'-RACE
141.3RACE1B	GACATCGATGCAACTGGTTTCTGTGCAGAT	3'-RACE
141.3RACE2B	GACATCGATATCCAATCTATGCCATATGCTG	3'-RACE
150.3RACE1	GACATCGATCGAGTTGTGGAGGGATTGTCAC	3'-RACE
150.3RACE2	CGCATCGATACTCATCTTGTACTGGTGATCT	3'-RACE
151.3RACE1	GACATCGATTAGTCCTAGTGAAGGGACCA	3'-RACE
151.3RACE2	GACATCGATTTCGATGATGGCAGATGAGTG	3'-RACE
189.3RACE1	GACATCGATTCTTGGGTCTGCTGTTTGGGA	3'-RACE
189.3RACE2	GACATCGATGCGTATGAATGCTTTGCTTGA	3'-RACE
197.3RACE1	GACATCGATGCATGAAGCGAAGGTAAAACA	3'-RACE
197.3RACE1B	GACATCGATGAAGCGAAGGTAAAACAGTAC	3'-RACE
197.3RACE2	GACATCGATACGAAAGAATGGGATGGAGCA	3'-RACE
197.3RACE2B	GACATCGATTGGAGCAAAGTACTGACGTC	3'-RACE
216.3RACE	GACATCGATGGATATCGACGGAGCTAAAACCTG	3'-RACE
236.3RACE1	GACATCGATCACCGGAGTATGCTATGCATGG	3'-RACE
236.3RACE2	GACATCGATACATCTATCGGTGAAGGCTGA	3'-RACE
246.3RACE1	GACATCGATACCTTGAGAAGCTCCCAGAAAGC	3'-RACE
246.3RACE2	GACATCGATGTTATCTTGGTTGGCCACGAT	3'-RACE
256.3RACE1	GACATCGATGGTAGCAACACATGGTTTCAAGC	3'-RACE
256.3RACE2	GACATCGATGGGTGCTTTCGGCATAGTTT	3'-RACE
261.3RACE1	GACATCGATATGACGGCGATCCGAGCTT	3'-RACE
261.3RACE2	GACATCGATGTGCGGTTAGCCACCCGTT	3'-RACE
264.3RACE	GACATCGATGCAGATTGGGCAAGACCTCAAC	3'-RACE
271.3RACE1	GACATCGATACCACGAGGGTTGTCATCTT	3'-RACE

271.3RACE2	GACATCGATTCATCCCATGCTCTTGCCTT	3'-RACE
275.3RACE1	GACATCGATGTTCTTCGTATCCCGAGTGAT	3'-RACE
275.3RACE2	CGCATCGATTCGTCCAAATGTGCTTACACTT	3'-RACE
276.3RACE1	GACATCGATATGGAGGGTGGGGATCCAT	3'-RACE
276.3RACE2	GACATCGATGTTTTGGAGCTGCTTCACCTA	3'-RACE
284.3RACE	GACATCGATCATGCTGTGTAACAGCACTG	3'-RACE
NUP-SALI	CGCGTCGACAAGCAGTGGTAACAACGCAGAGT	5'-RACE
126.5RACE1	GCTGATTGAGAACTTGATGA	5'-RACE
126.5RACE2	GACATCGATGCATTGAAGCAGCAGCTGAAG	5'-RACE
141.5RACE1B	GACATCGATGACAGCATATGGCATAGATTGG	5'-RACE
141.5RACE2B	GACATCGATATCTGCACAGAAACCAGTTGC	5'-RACE
189.5RACE1	GACATCGATGCCTCTCCAAATGAATCTCAGC	5'-RACE
189.5RACE2	GACATCGATAACGCAACAACCTTCAAAGTCCTC	5'-RACE
216.5RACE1	GACATCGATAACGGCAAATAACCGGCG	5'-RACE
216.5RACE2	GACATCGATGTACAGAATAATTCCACATGACC	5'-RACE
264.5RACE1	GACATCGATGCTGCTTTTTGTGCTCCTTC	5'-RACE
264.5RACE2	GACATCGATAACCTTCTAGCCTTGGATCC	5'-RACE
275.5RACE1	AAGTTGTGAGATCCAAGTGT	5'-RACE
275.5RACE2	GACATCGATATCACTCGGGATACGAAGAAC	5'-RACE
275.5RACE3	GACATCGATAAGTGTAAGCACATTTGGACG	5'-RACE
276.5RACE1	GACATCGATGCCACAGCATCTGGAGATGAAA	5'-RACE
276.5RACE2	GACATCGATGCCCCAGCCTCAGCTATGTAAG	5'-RACE
284.5RACE1	TTCTCGTCCTTCCCTTGAAG	5'-RACE
284.5RACE2	GACATCGATTCCGAAGTCAGTGTTTCAGCAA	5'-RACE
Cla1-SK	CACATCGATTCTAGAAGTACTGGATC	subcloning into pgR106
M13(-20)	GTAAAACGACGGCCAGT	subcloning into pgR106
132P4ClaI	CACATCGATGAATCTTCATTGATCATATCT	subcloning into pgR106
T3	AATTAACCCTCACTAAAGGG	subcloning into pgR106
sulphurLeACIKfwd	AACATTGAGAACTCGAGAGGATGGTAATG	subcloning into pTRV-RNA2
LeACIK-flrev	TGCCATTGATCAATAAGAATTTAGTTT	subcloning into pTRV-RNA2

SulphurCF9Fwd	AACATTGAGAAACTCTCTCGTGGGTTACGG	subcloning into pTRV-RNA2
Cf9-G3a	CGCGGATCCTACTACTAATATCTTTTCTTGTGC	subcloning into pTRV-RNA2
SulphurNtACIKFwd	AACATTGAGAAACTCTCAAGAAAGAAAATAG	subcloning into pTRV-RNA2
NtACIK-STOP-Bgl	AGAAGATCTAGCTCTATGGAAATCATTGCG	subcloning into pTRV-RNA2 and pMALc2X
264RNAi3'FseI	ATAGGCCGGCCGAGTTTCTTGTGTAGAGCCT	subcloning into 'hairpin' construct
264RNAi5'XhoI	AGACTCGAGGACTGGTCATTTGACTGCAGCA	subcloning into 'hairpin' construct
264RNAi3'AscI	ATAGGCGCGCCCGAGTTTCTTGTGTAGAGCCT	subcloning into 'hairpin' construct
264RNAi5'XbaI	GCGTCTAGAGACTGGTCATTTGACTGCAGCA	subcloning into 'hairpin' construct
NtACIK-ATG-Bgl	AGAAGATCTATGAAGATTACATGGGAATCT	subcloning into pMALc2X
LeACIK-ATG-SalI	AATTGTGACATGGCTACTTGCAGGAATTG	subcloning into pMALc2X
LeACIK-STOP-PstI	AATTCTGCAGTCAATAAGAATTTAGTTTG	subcloning into pMALc2X
NtACIK-ATG-ClaI	AGAATCGATATGAAGATTACATGGGAATCT	RT-PCR
NtACIK1-mutDRev	GAAGCCTTAAAAGCACGATATATG	RT-PCR
LeACIK1-flfwd	AGTATAACAGCTATGGCTACTGCGGA	RT-PCR
LeACIK1-RTPCRrev	CCAAATCAAGCAATTTAACAG	RT-PCR
Cf9-16s	CCAGAAGAACCTACAATTA	RT-PCR
Cf9-18a	AATGCGAAAGGTATTCGTTCC	RT-PCR
AC1	ATGGCAGACGGTGAGGATATTCA	RT-PCR
AC2	GCCTTTGCAATCCACATCTGTTG	RT-PCR