Supplementary Informaton

Table S1 The sequences of specific primers used for qRT-PCR assay.

Genes	Forward primer sequence (5′ to 3′)	Reverse primer sequence (5′ to 3′)
DlACTIN	TGCTATCCTTCGGTTGGACC	CGGACGATTTCCCGTTCAG
DlSUS1	GCCAACATTCGCAACATTCAA	ACTTCTCCTCAATACGCTTCAG
DlSUS2	TCCTGAGCAGAATGATGAGCAT	ACCGCCAACCACAACAAGA
DlSUS4	GCTTCCGCCTGATACACCTA	CGTGAGGAGACAAGATGACAAC
DlSUS5	GAAGCACTTGTAGATGGAACGA	GGTGACGGTTGAGGAATTGAA
DlSUS6	TAGCAAGCACTTACCAGGAGAT	CCAGGAGAAGCAATGTTGAACT
DlSUS8	GGCAATACAGCAGAGACAGTTA	CCGTGAGGTGAGAAGATTACAA
DlSPS1	CTCCTGGGTTCGAGCTGC	CCGCCTCAAGCTGCTTCT
DlSPS2	GTTTTGGCATCCCGTTCCC	GTCCTTCATAATCTGTGTCCCC
DlSPS3	TACAGCTGCCACAACGGG	GCCGCCTCAACATGGGAT
DlSPS4	GCCTTGTCCCGTCCTGAC	TTGGCTAGCTCCCGGAGT
DlCINV1	ATGTTGCGGCTGAGAGAGAG	GGCACAAAGTCACGAATGAA
DlCINV3	GGTGCGCACAGTTCCTCT	CCAATTGCTGCCTCCCCA
DlCINV5	GTTGGGACTGTGGCTGCT	AAGGCACGAAATCGCGGA
DlCINV12	GCTGGGAGGAGCTGGTTG	GCCACAAAAGCACTGGCC
DlCINV13	AGCTCGTCGTCGCTGTTC	ATGCGGCTCGAACCCAAA
DlCINV14	CGTTTCCTGTGAATGGTCTG	AATAAGTCCCACGCTTCGTC
DlVINV1	CACGCGGTGTCAAGGGAT	TAGGAGAGTGGCGGACCC
DlVINV2	TCCAATACAGACAACAACTACGC	ACCCACATAAGGCAACCAAG
DlCWINV2	GGACCGATCCACAGCTGC	CCTTCGAAGCCAAGGCCA
DlCWINV3	AAGTGGGTGGCGTTCCTG	TCGTCGGTTCTTGGCACT
DlCWINV10	TGCAGTGTGGGGCAACAT	CGGATCCGGACCAGCATC

Table S2 Gene name and corresponding ID for *Arabidopsis* members used in phylogenetic analysis.

Gene Name	Gene ID	Gene Name	Gene ID
AT5G20830.1	AtSUS1	AT1G72000.1	AtCINV5
AT5G49190.1	AtSUS2	AT1G56560.1	AtCINV6
AT4G02280.1	AtSUS3	AT3G06500.1	AtCINV7
AT3G43190.1	AtSUS4	AT5G22510.1	AtCINV8
AT5G37180.1	AtSUS5	AT3G05820.2	AtCINV9
AT1G73370.1	AtSUS6	AT3G13790.1	AtCWINV1
AT5G20280.1	AtSPS1	AT3G52600.1	AtCWINV2
AT5G11110.1	AtSPS2	AT1G55120.1	AtCWINV3
AT1G04920.1	AtSPS3	AT2G36190.1	AtCWINV4
AT4G10120.1	AtSPS4	AT3G13784.2	AtCWINV5
AT1G35580.1	AtCINV1	AT5G11920.1	AtCWINV6
AT4G09510.1	AtCINV2	AT1G62660.1	AtVINV1
AT4G34860.1	AtCINV3	AT1G12240.1	AtVINV2
AT1G22650.1	AtCINV4		

Figure S1 Comparison of the CDS sequences between *DlSUS2* and *DlSUS3*.

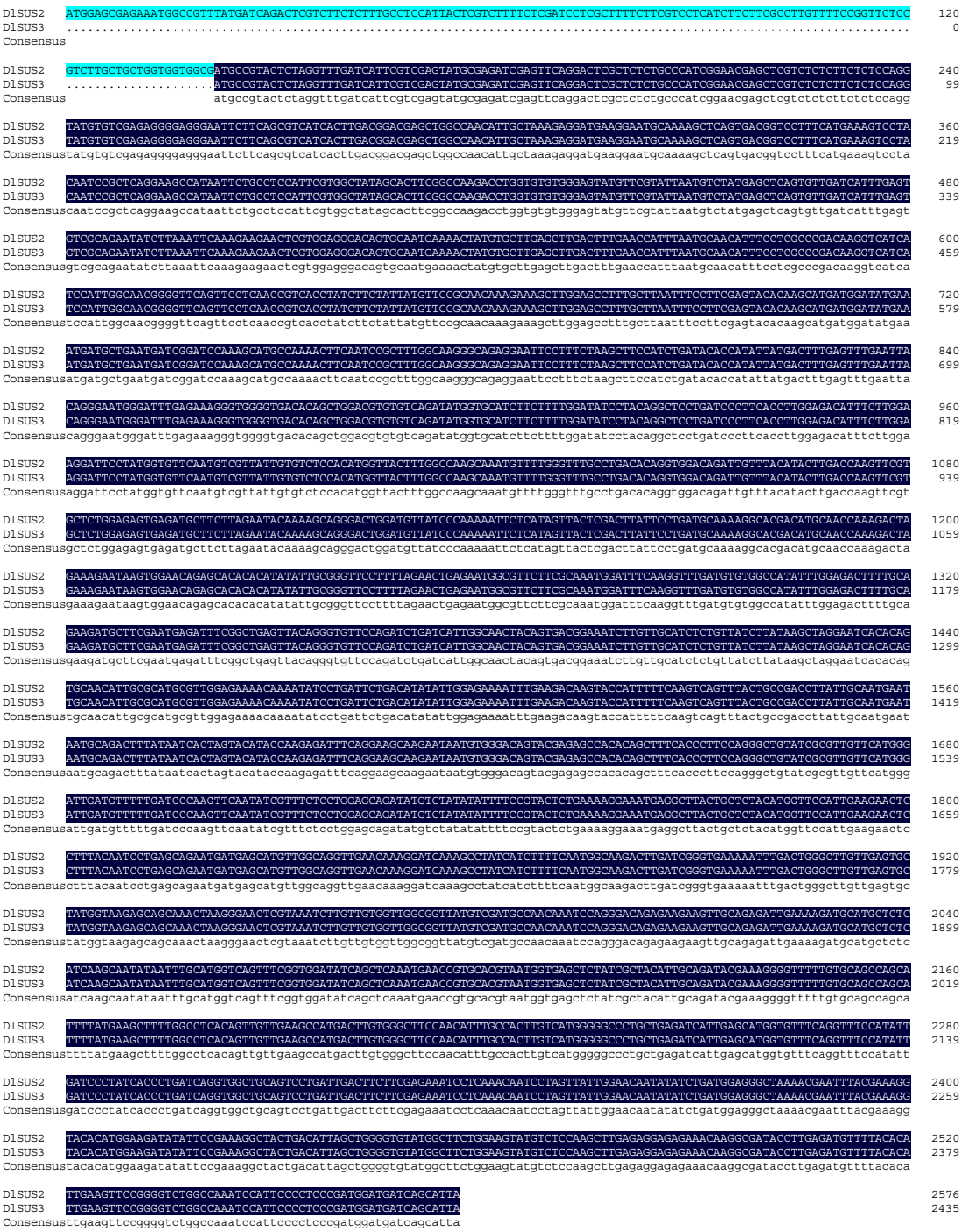


Figure S2 Comparison of the CDS sequences between *DlCINV5* and *DlCINV6*.

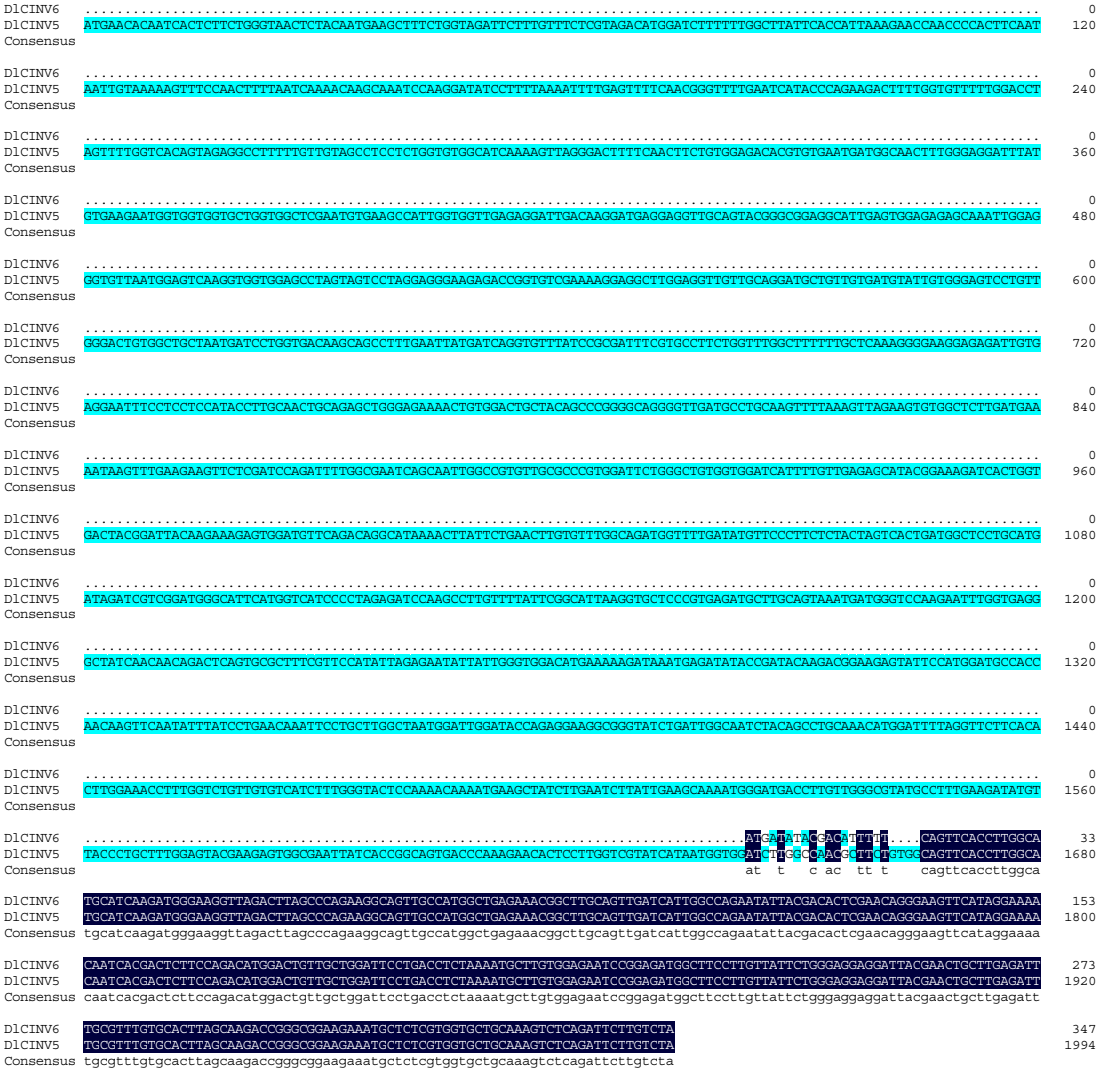


Figure S3 Comparison of the CDS sequences between *DlCINV10* and *DlCINV11*.

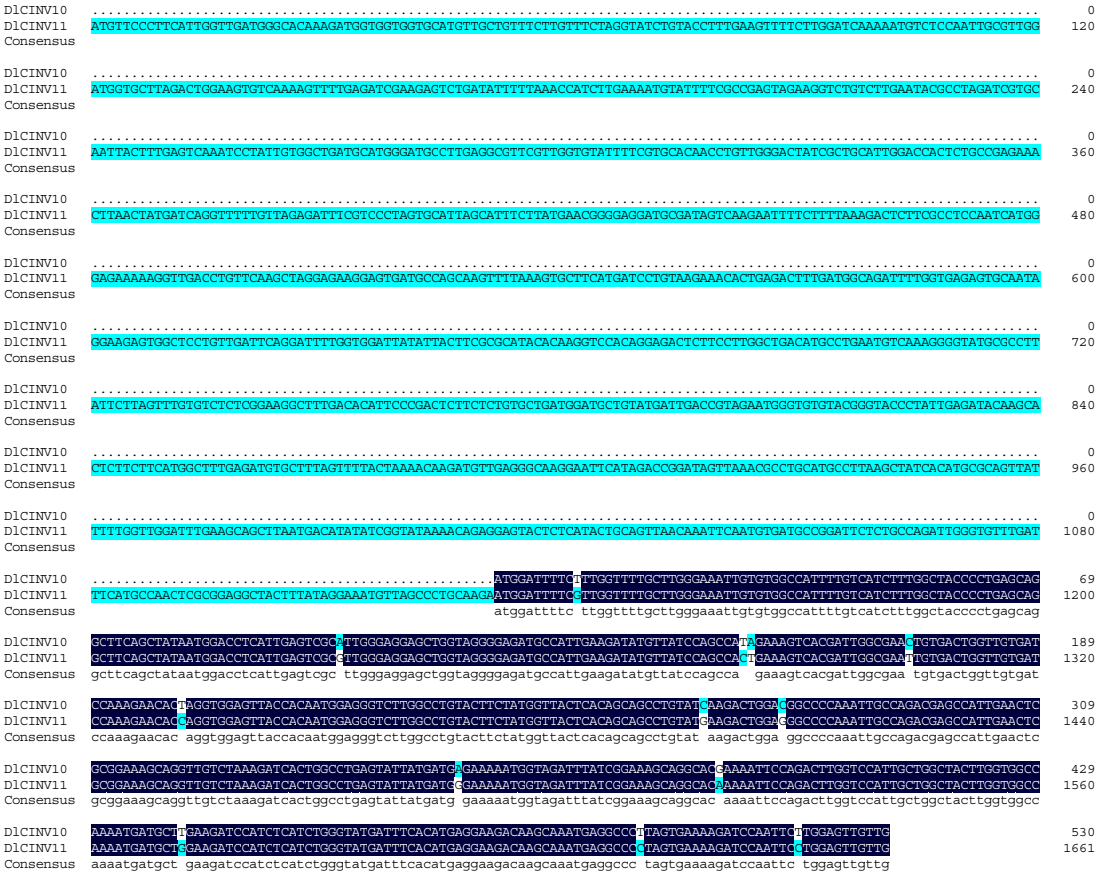


Figure S4 Comparison of the CDS sequences between *DlCWINV5* and *DlCWINV8*.

