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NaCOI1	MALCYTAKPÉQLSRR MALCYTAKPÉQLSRR										
CaCOII			PRAAMFNLIPEDV	GGYVTPWVVEI	TXSFSRLXALHF	RRNINGDSDLELLA	RGKVLQVLXLDXC	SGFSTDGLLHI	SCRNLRTL	SILENDGEVNO	ELAINNTVLENINFY
SmCOl1	MALCYTAKPEQLSRR	FPHLESVKLKGX		A A REAL DO NO. THE R AN AD IN CO.	SXSFSRLXALHFF	A REAL PROPERTY OF MALE AND A REAL PROPERTY OF A	RESERVED			The second s	ELAUNNTVLENLNFY
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cito cin	150 1	0 170	180	190	200	210 220	230	240	250 260	270	280
NaC011	MTDLVQVRAEDLELI	ARNCKSLVSMKI	SECELATILGEFR	AAVALEEFGGGS	SENDOPE PUPENO	GYNEMLERYAAVVS	PPRECQUEETYLGK	ENPILEPIASEL	REDEEVALEDTAS	AHCFLLQRCPNL	BILETRNVVGDRGLE
- NICOII	NTDLVQVRAEDLELM	ARNCKSLVSMKI					PPRECQUELTYLGK PPRECOLEETYLGKN			AHCELLQRCPNL MUCELLORCPUL	VILETRNVVGDRGLE
SmCOl1	NTDLVQVKAEDLELI	ARNCKSLVSMKI								AHCFLLQRCPNL AHCFLLQRCPNL	BILETRNVVGDRGLE
SICOII	NTDLLQVRAEDLELL		SECENTIALLGEFE	AAMALEEFGGG	ATVDQPELOVENO	GYNEHSCERVAALVE	PPRICQUELTYLGRN	EVALUEPTASEL	REDEEVALUDTA	AHCFLLQRCPNL	BILETRNWVGDRGLE
StCOll	MTDLLQVRAEDLELI	ARNCKSLVSMKI	<u>SECEINNLLGFFR</u>	AAMALEEFGGG	<u>A."NDQPELV-EN(</u>	<u>GYNEOSCKYAALVI</u> EI	PPRLOQLOLTYLGKN	<u>ENSILFPINSRU</u>	KLDLLYALLDTA	AHCFLLQRCPNL	BILETRNVVGDRGLE
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- NeCOIL	290 300	310	32D		4C 350	360	370 38		420	410	420 430
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- NICOII	VLGQYCKRLKHLRI3 VLGQYCKRLKRLRI3 VLGQYCKRLKRLRI3	RGADDOEMEDEO RGADDOEMEDEO RGADDOEMEDEE	GAVTHRGLTDLAN GAVTHSGLIDLAN	GCLELEYNAVY GCLELEYNAVY GCLELEYNAVY	VSDIINEAFENIO VSDIINEAFENIO VSDIINEALEIIO	GTVLKNLCDFRLVL Grylknisdfrlvli	LDREERITOLPLONG LDREERITOLPLONG LDREERITOLPLONG	WRALLRGCYNLRI WRALLRGCYNLRI WRALLRGCHNLRI	RFALYVRPGGLTD) RFALYVRPGGLTD) RFALYVRPGGLTD)	/GLSYVGRYSFN /GLSYVGQYSFN	VRWNLLGYVGESDEG VRWNLLGYVGESDEG
CaCOII SmCOII	VLGQYCKRLKHLRI3 VLGQYCKRLKRLRI3 VLGQYCKRLKRLRI3 VLGQYCKRLKRLRI3	RGADDQEMEDEQ RGADDQEMEDEQ RGADDQEMEDEE RGADDQEMEDEE	GAV THRGL TOLAR GAV THSGL IDLAR GAV THRGL IDLAR	GCLELEYNAVY GCLELEYNAVY GCLELEYNAVY GCLELEYNAVY	VSDITNEAFENT VSDITNEAFENT VSDITNEAFEIT VSDITNEAFEIT VSDITNEAFENT	GTYLKNLCDFRLVL Grylknisdfrlvl Gtylknisdfrlvl	LDREERITOL?LONG LDREERITOL?LONG LDREERITOL?LONG LDREERITOL?LONG LGREEIITOL?LONG	WRALLRGCYNUR WRALLRGCYNUR WRALLRGCHNUR WRALLRGCHNUR	REALYVRPGGLTD REALYVRPGGLTD REALYVRPGGLTD REALYVRPGGLTD	/G_SYVGRYSPN /G_SYVGQYSPN LG_SYVGQYSPN	VR #NLLGYVGESDEG VR #NLLGYVGESDEG VR #NLLGYVGESDEG
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- NtCOI1 CaCOI1 SmCOI1	VLGQYCKRLKHLRIS VLGQYCKRLKRLRIS VLGQYCKRLKRLRIS VLGQYCKRLKRLRIS VLGQYCKRLKRLRIS VLGQYCKRLKRLRIS 440	RGADDOENEDEQ RGADDOENEDEQ RGADDOENEDEE RGADDOENEDEE RGADDOENEDEE RGADDOENEDEE 450 4	GAVITH GLIDLAN GAVITHS GLIDLAN GAVITH GLIDLAN GAVITH GLIDLAN GAVITH GLIDLAN 60 470	GCLELEY KAVYT GOLELEY KAVYT GOLELEY KAVYT GOLELEY KAVYT GOLELEY KAVYT 430	ISDUTNAA B ISDUTNAA B ISDUTNAA B ISDUTNAALA ISDUTNAALA ISDUTNAALA ISDUTNAALA ISDUTNAALA ISDUTNAALA ISDUTNAALA ISDUTNAALA ISDUTNAALA	STVLKNLCDERLVC GRULKNLSDERLVC STVLKNLSDERLVC STVLKNLSDERLVC STVLKNLSDERLVC 500 S	LDREERITEDLELDNG LDREERITEDLELDNG LDREERITEDLELDNG LDREERITEDLELDNG LDREERITEDLELDNG LDREERITEDLELDNG LDREIRITEDLELDNG LDREIRITEDLELDNG	WRALLRGCYALRI WRALLRGCYALRI WRALLRGCHNLRI WRALLRGCHNLRI WRALLRGCHNLRI WRALLRGCHNLRI 530	RFALYVR PGGLTD RFALYVR PGGLTD RFALYVR PGGLTD RFALYVR PGGLTD RFALYVR PGGLTD RFALYVR PGGLTD 540 53	VGLSYVGRYSFN VGLSYVGQYSFN LGLSYVGQYSFN VGLSYVGQYSFN	VR#MLLGYVGESDEG VR#MLLGYVGESDEG VR#MLLGYVGESDEG VR#MLLGYVGESDEG
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Supplementary Figure S1. Alignment and Phylogenetic analysis of SmCOI1 predicted amino acid sequence with other COI1 proteins from Solanaceae plants. The protein alignment and phylogenetic analysis were performed using Geneious software.