

Table S1. Primers used for cDNA amplification and qRT-PCR

Primer name	Nucleotide sequence (5' → 3')
SIDCL2a-F	GCTCGGGACGAGACAAAATA
SIDCL2a-R	GGAAGGCACATCCAAACAGT
SIDCL2b-F	GAATGTCCATCTAATGCTACTGAAC
SIDCL2b-R	AACGTGTGCTCTCACAAAGC
SIDCL2c-F	TTGTTTGTGGAAACCAGCTAG
SIDCL2c-R	TCTTTCCAGAACCAGTCTCCA
SIDCL2d-F	CAGGGCGTATTACTACGTTCAA
SIDCL2d-R	CAAGCCCTCTTCAAGAATCG
SIDCL4-F	GGAAGAGGTCGTAGAGCGATT
SIDCL4-R	CACACCAATAACAGGCCACA
SIAGO2a-F	TTCTTCCTCCCCCTGATTTG
SIAGO2a-R	CTTGCCTTCCACCACAGATT
SIAGO2b-F	ACGCAGACCTTGTTGCTTAC
SIAGO2b-R	TCTTTGTTCAAATGAGGCAG
SIAGO3-F	CTAGGCGGTCAAATCCACC
SIAGO3-R	GCCCATCGTTGAAGTGCCTT
SIRDR6-F	GCGGCTATAATGTTGAGTGCAGGG
SIRDR6-R	GTCTTATTCCTGAGGTCGCCAAGC
SIActin-F	TGGGATGATATGGAGAAGATATGG
SIActin-R	GGCTTCAGTTAGGAGGACAGGA
Ps18SrRNA-F	CGTTCTTAGTTGGTGGAGCGAT
Ps18SrRNA-R	CCATAGTCCCTCTAAGAAGCTG
PVYCP-F	CGTCCAAAATGAGAATGCC
PVYCP-R	TCTTGTGTACTGATGCCAC

Primers used for RT-PCR and RT-qPCR were listed. It includes specific primers for PCR to amplify cDNAs of tomato DCLs, AGOs, RDR6 and PVY genome, and those for reference genes, tomato actin and 18S ribosomal RNA in RT-qPCR.