

Table 1 Semi-quantitative primers of *PSY*, *PDS*, *Z-ISO*, *ZDS*, *CRTISO*, *CCS*, *HYB*, *LCYB*, *LCYE*, *ZEP*, *VDE* and *NCED* genes

Primer name	Sequence (5'-3')
psy-F	CTGGCTGTATAATAGGAGTGATG
psy-R	AGAAGATGCAAGGAGAGGAAGGA
pds-F	CATATATGAACATTTATCACGGG
pds-R	CTTTCTTAGATGGTAATCCTCCC
zds-F	GACATGGCAAGGCCAGTAACATA
zds-R	ACACGCACAAGCATTCAGAGGAT
z-iso-F	CTCCGATCACCATTCCAAACACC
z-iso-R	TCCTTCTATATCCGTCCACCTTC
crtiso-F	TTTTGTCCGAGTCCCTTCCAGTC
crtiso-R	AGGCACCTTCTTTTCTTCCATT
lyb-F	ATAGAGAGAGACCGAAAAAGAAA
lyb-R	GCAGCTCCGATAGTAGCAAAAATC
lye-F	AACCAAAGAGAAAGAATGACCGC
lye-R	ATTACCAAACACAGAACAAAAGA
hyb-F	CATGGCAAATGGAGGGCGGGGAG
hyb-R	ACGGCGTTGATGATGGCGAAGAC
vde-F	CTCAACCTTCTTCTCTATTCTTT
vde-R	CTGGTATGTTCTTTCATCTCGTA
zep-F	ATCCCTCTCAAACACCGTCACAT
zep-R	CGCTCTTCACTCCTCCCAAAT
ccs-F	CCCCGCCATATCCCATCACCCCTC
ccs-R	AGCCGCATCTCCGTGCTCACAAC
nced-F	ACTGCTTCCCTTCCGTCTCTGC
nced-R	GGTTCTGTCTCCCGCCATTTCTC
18S rRNA-F	CCTGAGACGGCTACCAT
18S rRNA-R	CACCAGACTTGCCCTCCA