

Table 1 Suppl. Gene-specific primers used in the study (F - forward, R - reverse).

Primers	Sequence (5' - 3')
StD200-F	TCC CTG GGT CGA TCT GTA AA
StD200-R	GAG CAT ATA AGT CGG CAT TGG A
At-APX-F	TGC CAC AAG GAT AGG TCT GG
At-APX-R	CCT TCC TTC TCT CCG CTC AA
At-CAT-F	AAT TGC TTC ATC GGG AAG GA
At-CAT-R	CTT CAA CAA AAC GCT TCA CGA
At-SOD-F	TCC ATG CAG ACC CTG ATG AC
At-SOD-R	CCT GGA GAC CAA TGA TGC C
At-GAPDH-F	GAG AGT TTG TGT GTG GTT GAG TTC
At-GAPDH-R	GGT TTG AGT TAG CAC GAG AAA GTA A

Table 2 Suppl. Formulas used for the analysis of Chl *a* fluorescence transient OJIP curve emitted by dark-adapted leaf samples.

Fluorescence parameters derived from the extracted data	
$F_0 \cong F_{50\mu s}$ or $\cong F_{20\mu s}$	minimal fluorescence
$F_M (= F_P)$	maximal fluorescence, when all PS II reaction centres (RCs) are closed (equal to F_P when the actinic radiation is above $500 \mu\text{mol}(\text{photons}) \text{m}^{-2} \text{s}^{-1}$ and provided that all RCs are active as Q_A reducing)
$F_V \cong F_M - F_0$	maximal variable fluorescence
Quantum yields and efficiencies	
$\phi_{Pt} \cong TR_t/ABS = [1-(F_t/F_M)] = \Delta F_t/F_M$	quantum yield for primary photochemistry at any time t , according to the general equation of Paillotin (1976)
$\phi_{Po} \cong TR_0/ABS = [1-(F_0/F_M)]$	maximum quantum yield for primary photochemistry
$\psi_{Eo} \cong ET_0/TR_0 = (1-V_j)$	efficiency/probability for electron transport (ET), <i>i.e.</i> efficiency/probability that an electron moves further than Q_A
$\phi_{Do} = 1 - \phi_{Po}$	probability that the energy of an absorbed photon is dissipated as heat
$\phi_{Eo} \cong ET_0/ABS = [1-(F_0/F_M)] \psi_{Eo}$	quantum yield for electron transport (ET)
$\delta_{Ro} \cong RE_0/ET_0 = (1-V_i)/(1-V_j)$	efficiency/probability with which an electron from the intersystem electron carriers moves to reduce end electron acceptors at the PS I acceptor side (RE)
$\phi_{Ro} \cong RE_0/ABS = [1-(F_0/F_M)] \psi_{Eo} \delta_{Ro}$	quantum yield for reduction of end electron acceptors at the PS I acceptor side (RE)