

ABBREVIATIONS

°C	Degree centegrade
µl	Microliter
A	Absorbance
ABA	Abscisic acid
ACL5	ACAULIS 5
ADC	Arginine decarboxylase
AIH	Agmantine imino hydrolase
amiRNA	Artificial microRNA
AOX	Alternative oxidase
APT1	Adenine phosphoribosyltransferase
APX	Ascorbate peroxidase
bp	Base pairs
CaMV	Cauliflower mosaic virus
CAT	Catalase
CEVd	Citrus exocortis viroid
CHA	Cyclohexylamine
Ct	Cotyledon
DAB	3',3'- Diamino benzidine
DAO	Diamine oxidase
dcSAM	Decarboxylated SAM
DFMA	Diflouro methyl arginine
DFMO	Diflouro methyl ornithine
DNA	Deoxyribonucleic acid
dNTPS	Deoxyribonucleotide triphosphate
EB	Elution buffer
EF-α	Elongation factor-alpha
FB1	Fumonisin B1
FL	Flower
FR	Fruit
GP	Guaiacol peroxidase
GPC1	Glypican 1

h	Hours
HCAA	Hydroxycinnamic acid amide
HR	Hypersensitive response
Hy	Hypocotyl
IL	Immature leaf
JA	Jasmonic acid
Kb	kilobase pairs
LAT	L-type amino acid transporter
MAPK3	Mitogen activated protein kinase 3
MAT	Methionine adenosyl transferase
MDA	Malondialdehyde
mg	Milligram
MGBG	Methyl glyoxyl bisguanylhydrazine
ml	Millilitre
ML	Mature Leaf
mm	Milimeter
MS	Murashige and Skoog
MV	Methyl viologen
Mw	Molecular weight
NCPA	N-carbamoyl putrescine amidohydrolase
nmoles	Nanomoles
OD	Optical density
ODC	Ornithine decarboxylase`
OE	Overexpression
ORF	Open reading frame
PAL	Phenylalanine ammonia lyase
PAO	Polyamine oxidase
PCD	Programmed cell death
PCR	Polymerase Chain Reaction
pI	Isoelectric point
Put	Putrescine
qRT-PCR	Quantitative Real-Time PCR
RB	Rose Bengal

RMV1	Resistant to methyl viologen1
RNA	Ribonucleic acid
ROS	Reactive oxygen species
RPM	Revolution per minute
RT	Room Temperature
Rt	Root
SA	Salicylic acid
SAG12	Senescence associated gene 12
SAM	S-adenosyl methionine
SAMDC	S-adenosyl methionine decarboxylase
SGR1	Staygreen 1
SL	Senescent leaf
SMO	Spermine oxidase
SOD	Superoxide dismutase
Spd	Spermidine
SPDS	Spermidine synthase
Spm	Spermine
SPMS	Spermine synthase
SSAT	Spermidine/Spermine N-1 acetyl transferase
TBA	Thiobarbituric acid
TCA	Trichloro acetate
TGase	Transglutaminase
TMV	Tobacco mosaic virus
UBQ5	Ubiquitin5
UV	Ultraviolet
V	Volume
W	Weight
YL	Young leaf