Supplementary Table S1. Genes and corresponding specific primer sequences used in this study

Primer name	Primer sequences (5′-3′)	Gene accession No. or locus
SlANT1-OE-F	GGATCCATGAACAGTACATCTATGTCTTCA	NM_001247488.1
SlANT1-OE-R	GAGCTCTTAATCAAGTAGATTCCATAAGTC	
SlANT1- rt-F1	GAAAAGTTGTAGATTGAGGTGGC	
SlANT1- rt-R1	CCAATAGTTTTTCACATCGTTAGC	
NPTII-F	ATGACTGGGCACAACAGACAAT	AF485783.1
NPTII-R	GATACCGTAAAGCACGAGGAAG	
SlBAM1.1-rt-F	TACCTTCCCATCGCCCAA	Solyc09g091030
SlBAM1.1-rt-R	ACGCCACCTGCCTAACCA	
SlBAM3.1-rt-F	TTCACTAGCAGCATCAGCACAT	Solyc08g007130
SlBAM3.1-rt-R	TTCCATGTACCATCCTTTTTGA	
SlSPS3-rt-F	GCCAAGGATGGCGGTTATTC	Solyc09g092130
SlSPS3-rt-R	ATGGTGGGCACTGCTTTAGG	
SlSUS5-rt-F	GCCTGGATTGTACCGAGTTG	Solyc07g042520
SlSUS5-rt-R	GTTCTTCGATTTCAGGGTGG	
SlNIP2-rt-F	GATTTCTGTGACGTGGGGACT	Solyc02g091420
SlNIP2-rt-R	ATTAGAGACAGAGTTCCACTAGCCA	
SlNIP3-rt-F	ATAGCAGAGGCGATAGGAACG	Solyc05g008080
SlNIP3-rt-R	GAAATGTCTAAAGAGTGCAAAGGC	
SlNIP4-rt-F	TGGGGCCTTGTTGTAATGG	Solyc03g005980
SlNIP4-rt-R	TTCCGGCGAAGTGATCGT	
SlNIP5-rt-F	TAGCAAGTGGGACCCTACGATT	Solyc02g071920
SlNIP5-rt-R	TGGGTTCATTGATGCCCCT	
SlNIP6-rt-F	CATCACCATTACCATCCGCTAT	Solyc06g073590
SlNIP6-rt-R	TCCCACAAACTCTGCTATCAACT	
SlNIP8-rt-F	CTCATTTTGATGTTTGTGATCTGTG	Solyc12g057050
SlNIP8-rt-R	GGGCAATAACGAAGACCCA	
SlNIP10-rt-F	AGCACAAGTCGTGGGAGCA	Solyc02g071910
SlNIP10-rt-R	CCAACCTGCATTAGTAAACAGAGAG	
SlNIP11-rt-F	AAAGTTATTTGCCGAGGCG	Solyc02g063310
SlNIP11-rt-R	GTACACTGGTGCTAATTTCCAGG	
SlUBI3-rt-F	AGGTTGATGACACTGGAAAGGTT	X58253.1
SlUBI3-rt-R	AATCGCCTCCAGCCTTGTTGTA	

Supplementary Table S2. Fv/Fm in WT and *SlANT1*-OE plants after 15 days of drought stress

	WT	#5	#9	#9
Control	0.8332 ± 0.0011	0.8322 ± 0.0026	0.8316 ± 0.0036	0.8337 ± 0.0025
Drought	0.8145 ± 0.0022	0.8228 ± 0.0037*	0.8249 ± 0.0047*	0.8277 ± 0.0019**

Note: #5, #9, #10 represent three independent *SlANT1*-OE lines. Data represent the mean ± SD (n = 3). Asterisks indicate significant differences (*P < 0.05, **P < 0.01, Student's t-test).

Supplementary Table S3. ΦPSII in WT and *SlANT1*-OE plants after 15 days of drought stress

	WT	#5	#9	#9
Control	0.4618 ± 0.0259	0.4471 ± 0.0041	0.4509 ± 0.0225	0.4590 ± 0.0206
Drought	0.2118 ± 0.0241	0.3439 ± 0.0347**	0.3523 ± 0.0246**	0.3623 ± 0.0394**

Note: #5, #9, #10 represent three independent *SlANT1*-OE lines. Data represent the mean ± SD (n = 3). Asterisks indicate significant differences (**P < 0.01, Student's t-test).