

Supplementary Material

The *LmSAP* gene isolated from the halotolerant *Lobularia maritima* improves salt and ionic tolerance in transgenic tobacco lines

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1	ATG GCT CAG AGT TCG GAG TAC GTA GAG AGC GAG TTG CAA GAA CTC	
	M A Q S S E Y V E S E L Q E L	15
46	GAT TCC AAG AGG ACT TCA ACT TCG ACG TTA TGT ACC AAT AAC TGC	
	D S K R T S T S T L C T N N C	30
91	GGC GTT ACA GCG AAT CCT GCG ACG AAC AAC ATG TGT CAG AAA TGT	
	G V T A N P A T N N M C Q K C	45
136	TTC AAC GCA TCT CTG GTC TCC CCG GCC CCA GGC GAA GAA CAA TCA	
	F N A S L V S P A P G E E Q S	60
181	GGT TCG ATC AAG CCG AGA TCG GCA AAA TGT GTC AAT CTT CGT TCG	
	G S I K P R S A K C V N L R S	75
226	TCA CCA GCT ACA GTC GTG ATT CGT CCA AAA AAG ATC GAA GCG CTG	
	S P A T V V I R P K K I E A L	90
271	AAA AAG AGA CAT CTT CAC ATC GTA AAG GGA TGT TCT GGT TGT CGG	
	K K R H L H I V K G C S G C R	105
316	AAG TTT GTT GGG TTG AGG GGA TTC AGG TGC CGA TGC GGT GCG CTT	
	K F V G L R G F R C R C G A L	120
361	TTC TGC TCA GAG CAC CGT TAC TCC GAT CGT CAT CAT TGT AGC TAC	
	F C S E H R Y S D R H H C S Y	135
406	GAC TAC TTT TCC GCT GGT CGT GAG GCG ATC GCT TCT GAT TAT CCG	
	D Y F S A G R E A I A S D Y P	150
451	GTG GTC TTG GCT GCG ATT ATG GTC AAA GTT TAA	
	V V L A A I M V K V *	160

Figure S1

Table S1.

Primers	Sequences
LmSAP-F	5'-ATGGCTCAGAGTTCGGAG-3'
LmSAP-R	5'-TTAATCGAAAAAACTTTGA-3'
UBQ-10 -F	5'- GAATACCTCCTTGTCCTGGATCT-3'
UBQ-10-R	5'- GTACTTTGGCGGATTACAACATC-3'
qLmSAP-F	5'-AAGGGATGTTCTGGTTGTCG-3'
qLmSAP-R	5'-TGATGACGATCGGAGTAACG-3'
LmSAP- <i>Bam</i> HI	5'-ATAGATCT ATGGCTCAGAGTTCGGAG-3'
LmSAP- <i>Xba</i> I	5'-ATTCTAGATTAATCGAAAAAACTTTGA-3'