

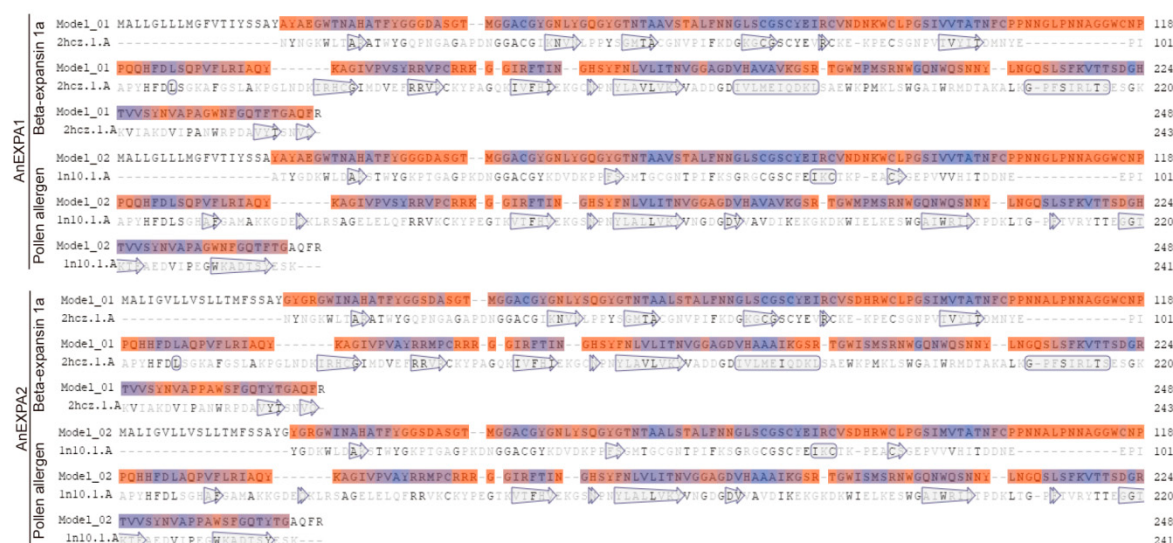


Figure S1. Sequence alignment of the AnEXPA1 and AnEXPA2 proteins with Beta-expansin 1a (2hcz.1.A) and a Pollen allergen (Phlp 1, In10.1.A).

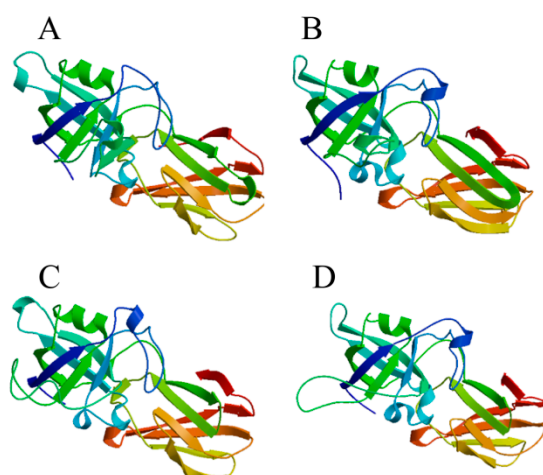


Figure S2. Structural model of AnEXPA1 and AnEXPA2 proteins.

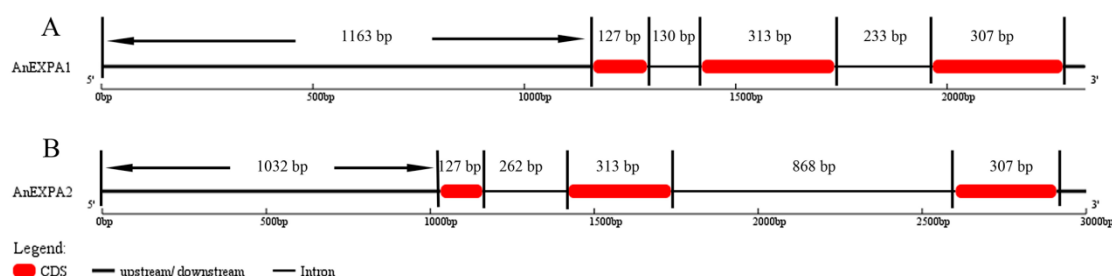


Figure S3. Promoter, exon and intron distribution of *AnEXPA1* and *AnEXPA2*.

Table S1. Sequences of primers.

Primer name	Sequence (5' -3')	Description
EXPA1C DS F	TGACCATGGTAGATCATGGC TCTCCTTGGGTAC	PCR amplification primer, forward; Restriction endonuclease, Bgl II

EXPA1C DS R	ATTTACCCTCAGATCGCGGA ATTGAGCACCAGTG	PCR amplification primer, reverse; Restriction endonuclease, Bgl II
EXPA2C DS F	TGACCATGGTAGATCATGGC TCTCATTGGTGTGCTC	PCR amplification primer, forward; Restriction endonuclease, Bgl II
EXPA2C DS R	ATTTACCCTCAGATCGCGGA ATTGAGCACCAGTG	PCR amplification primer, reverse; Restriction endonuclease, Bgl II
proAnE XPA1 F	CCGAATTCATCACTAGTGCC AAACTAGT	PCR amplification primer, forward; Restriction endonuclease, EcoRI
proAnE XPA1 R	TTCCATGGTTCCTGAACATAT ATACCAAAC	PCR amplification primer, reverse; Restriction endonuclease, NcoI
proAnE XPA2 F	CCGAATTCGTCTGAATCCCTT ACTACTCAG	PCR amplification primer, forward; Restriction endonuclease, EcoRI
proAnE XPA2 R	TTCCATGGTTCCTGAACATCCA AAATAAAATAT	PCR amplification primer, reverse; Restriction endonuclease, NcoI
Actin F	ACATTGTCTTGAGTGGTGGTT C	Standard control primer, forward
Actin R	TACTTCCTCTCTGGTGGTGCT A	Standard control primer, reverse
AnEXPA1 F	AATGGGTGGGGCTTGTGGAT AT	Real-time PCR primer, forward
AnEXPA1 R	TTTGGTGGGCAGAAGTTAGT GG	Real-time PCR primer, reverse
AnEXPA2 F	AACCCTCCTCAGCACCCT	Real-time PCR primer, forward
AnEXPA2 R	TGAACCTTATGCCTCCCCT	Real-time PCR primer, reverse

Table S2. Cis-acting elements in *AnEXPA1* and *AnEXPA2* promoters.

TFs Motif	Sequence	Number		Function of transcription factors (TFs)
		AnEX PA1	AnEX PA2	
MYB1AT	WAA CCA	1	3	Dehydration-responsive
MYCCONSensus AT	CANN TG	3	1	Regulates the transcription of CBF/DREB1 genes in the cold
ASF-1 binding site	TGAC G	1	0	Auxin and/or salicylic acid, abiotic and biotic stress
PYRIMIDINEBOX OSRAMY1A	CCTT TT	3	6	Gibberellin- response cis- element sugar repression
MYBCORE	CNGT TR	1	1	Water stress
GAREAT	TAAC AAR	1	0	GA-responsive element
CBFHV	RYCG AC	0	2	Binding site of CBF
CATATGGMSAUR	CATA TG	0	1	Auxin responsiveness
MYCATERD1	CATG TG	0	4	Dehydration
RYREPEATBNNA PA	CATG CA	0	2	ABA-induction

MYCATRD22	CACA TG	0	1	Dehydration-responsive; ABA- induction
MYBATRD22	CTAA CCA	0	1	Dehydration-responsive; ABA- induction
WRKY71OS	TGAC	0	2	Gibberellin signaling pathway
