

Appendix A. Primers used to construct of GmProT1 and GmProT2 plant expression vector and transgenic plants detection

Gene	sequence of primer pairs (5'-3')
<i>GmPr</i>	F:
<i>oT1</i>	<u>GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGACGCTGATTCC</u> AAT
	R:
	<u>GGGGACCACTTTGTACAAGAAAGCTGGGTCATATAGGCGTTTTTGT</u> AC
<i>GmPr</i>	F: <u>GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGACGCTGATT</u>
<i>oT2</i>	CCGAT
	R: <u>GGGGACCACTTTGTACAAGAAAGCTGGGTCTAAATCCGCAAAAA</u> CATG

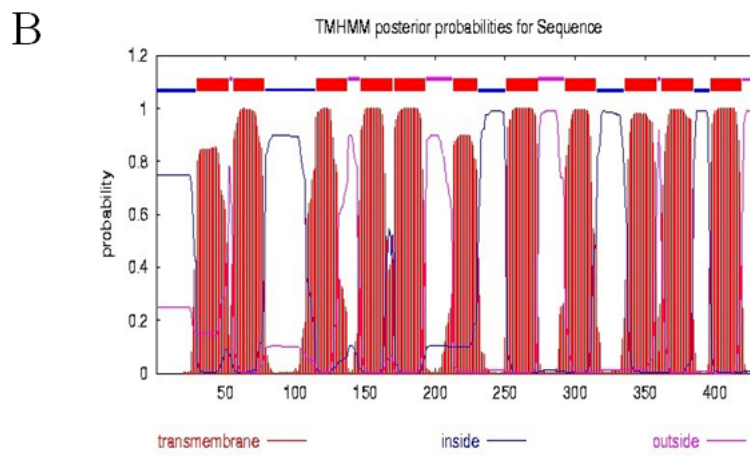
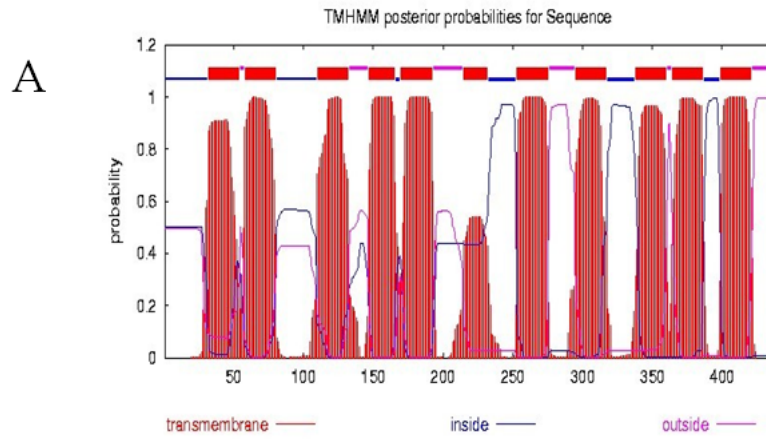
Black underscore represents *attB* site

Appendix B. Primers used to isolate the *GmProT1* and *GmProT2* genes

Gene	Locus ID	Sequence of primer pair (5'-3')
<i>GmProT1</i>	Glyma14G063200	ACATGACGCTGATTTCCT/ CCCACAAACCATCAACATTA
<i>GmProT2</i>	Glyma02G253200	ACATGACGCTGATTTCCTG/ GGGGACTAGCATTAGAATTACTGA

Appendix C. Analysis of membrane-spanning regions of GmProT1(A) and GmProT2

(B)



Appendix D. Quantification of *GmProT* expression in four representative lines by real time PCR.

