



Functional and biochemical characterization of GmCLC1, a vacuolar chloride channel from soybean (*Glycine max* L. Merr.)

By Robert Daniel Hoffmann

GRIN Verlag Aug 2011, 2011. Taschenbuch. Book Condition: Neu. 210x148x4 mm. This item is printed on demand - Print on Demand Neuware - Bachelor Thesis from the year 2010 in the subject Biology - Micro- and Molecular Biology, grade: 1,0, University of Hannover (Institut für Botanik), language: English, abstract: In plants, chloride and nitrate transportation across the tonoplast is mediated by members of the chloride channel family (CLC). Seven Arabidopsis CLCs are identified and the function of nearly all is unravelled. In contrast, only one CLC was discovered in soybean (*Glycine max* L. Merr.) and named GmCLC1. Except that GmCLC1 is located in the tonoplast and transports chloride, little is known about the protein's function and transport mechanism. The purpose of this study was to identify whether GmCLC1 transports anions as a channel, or if it is an anion/proton antiporter, as comparison of its amino acid sequence with other CLCs suggests. For this, transgenic Bright Yellow (BY)-2 cells constitutively expressing GmCLC1 were treated with NaCl at different pH and the cells' viability was analyzed. Moreover, vacuolar pH was measured using confocal microscopy. The in planta function of GmCLC1 was assessed by complementation studies with Arabidopsis AtCLCa knock-down mutants. For this,...



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