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SEQUENCING OF A CALMODULIN-LIKE GENE FROM ARABIDOPSIS.

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with Ray Zielinski*

Calcium-binding proteins, such as calmodulin, play important physiological roles in plants and animals (Means & Dedman, 1980 and Dieter, 1984). Many calmodulin-like proteins exist in animals, but none had been found in plants prior to the screening of an Arabidopsis cDNA (DNA obtained by reverse transcription from the mRNA which codes for the protein) library with a barley calmodulin cDNA probe (Ling & Zielinski, 1989). The positively hybridizing fragment was subcloned into a phage vector, pBS (Zielinski lab, unpublished). The purpose of this project was to devise a restriction-enzyme map and use this to develop subclones to obtain the complete nucleotide sequence for the gene coding for the calmodulin-like protein. Some sequence was obtained, but further work must be done to sequence the entire gene.