

## **Sequence of two apparent pseudogenes of the major potato tuber protein, patatin**

Craig S.Pikaard, Greg A.Mignery, Din Pow Ma\*, Vincent J.Stark and William D.Park

Department of Biochemistry and Biophysics and \*Department of Biology, Texas A&M University, College Station, TX 77843-2128, USA

Submitted 23 May 1986

We have completely sequenced two patatin genomic clones isolated from a genomic library of the potato (*Solanum tuberosum* L.) cultivar Superior. Comparison of the sequences to the full-length patatin cDNA, pGM01 (1) permits the assignment of intron-exon boundaries. Each gene is interrupted by six introns that vary greatly in length between the two clones. Both clones, SB6B and SA10C, contain frame-shift mutations that preclude the encoding of full-length patatin: two adjacent adenosines present in the cDNA are deleted in SB6B at nucleotide 4542, and a thymidine is inserted at nucleotide 4039 in SA10C. The reading-frames of the two genes are otherwise conserved. These are the first reported gene sequences of any members of the patatin multigene family.

**SEQUENCE OF PATATIN CLONE SB6B**

## SEQUENCE OF PATATIN CLONE SA100

(This work was supported by grants 83-CRCR-1-1348 and 85-CRCR-1-1792 from the USDA Competitive Grants program and with funds from the Texas Agricultural Experiment Station.)

## References

- 1) Mignery, G.A., Pikaard, C.S., Hannapel, D.J. and Park, W.D. (1984) Nucleic Acids Res. **12**, 7987-8000.