Sequence analysis of a genomic clone encoding a Zc2 protein from Zea mays W64 A

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Submitted September 28, 1990

A genomic clone (p268c) coding for the 28 kD storage protein Zc2 from maize endosperm has been isolated and sequenced. Formerly known as 28 kD glutelin-2 protein in previous works (1, 2), the sequence of the cDNA and of another genomic clone has been published. In this record, we report 1120 bp corresponding to the far upstream sequence reaching 1709 nucleotides from the first codon. The coding region and the consensus TATA-box are underlined. We have done homology studies by comparison with the genomic clone of Zc1 (3). We have found several homologous regions in the 5' sequences, with 70% homology from -1 to -650 bp. Another short segment of 34 bp is found around the -1005 position (80% homology). Studies concerning the role of such regions on gene regulation are being carried out.

REFERENCES

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