Complete nucleotide sequence of a gene coding for Aspergillus aculeatus cellulase (FI-CMCase)

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FI-CMCase, endoglucanase (EC 3.2.1.4), is one of the cellulase complex produced in Aspergillus aculeatus No. F-50. We have cloned a 3.5 kbp XbaI genomic DNA fragment in E. coli HB101 that hybridize to a random-primed cDNA probe for FI-CMCase coding region. Nucleotide sequence of a 1.6 kbp Smal-XbaI fragment of the insert was determined to dideoxy-sequencing method from both strands as shown. The open reading frame encoding a deduced protein of 237 amino acids containing signal sequence is interrupted by two introns. The 5'-flanking sequence contains a putative TATA box at 81 base upstream of the initiation codon.

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REFERENCES


Figure 1. Complete nucleotide sequence of the FI-CMCase gene from Aspergillus aculeatus. The deduced amino acid sequence is shown below the coding gene. Putative TATA box (double underlined) and two intron (small lettered) are indicated. Signal peptide is underlined.

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