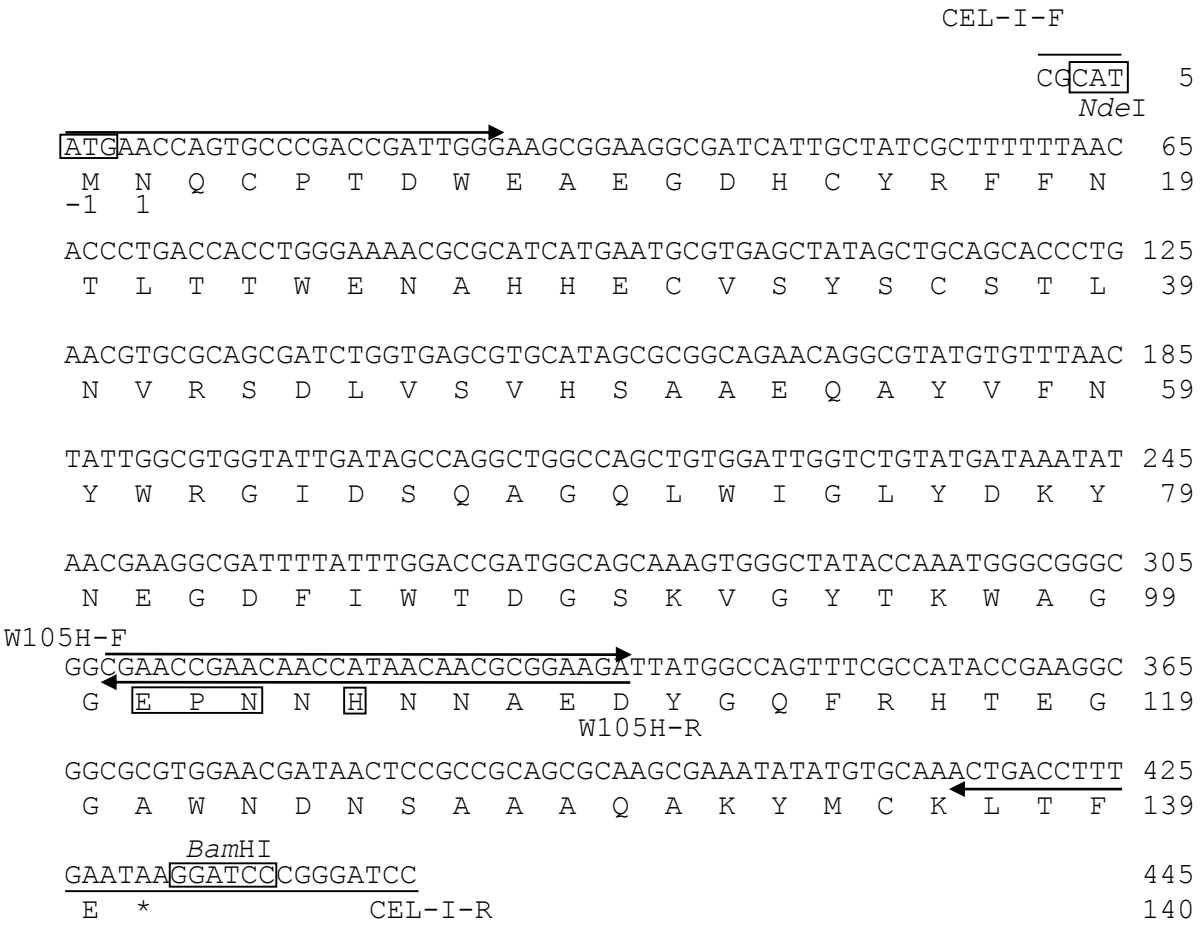

Supplementary figure. The nucleotide and amino acid sequences of EPNH-CEL-I. Oligonucleotide primers used for synthesizing the 5′-terminal and 3′-terminal DNA fragments of the EPNH-CEL-I gene are indicated by arrows. The EPNH-CEL-I gene was amplified by PCR using the EPN-CEL-I gene as a template. The mutation sites (“EPN” and “H”) and restriction sites (*Nde*I and *Bam*HI) are enclosed within boxes. The amino acid residues are numbered according to that of native CEL-I without an initiator methionine residue.

Supplementary table

PCR primers for amplification of the CEL-I mutant genes

Primer	Nucleotide sequence
CEL-I-F	5′-CGCATATGAACCAGTGCCCGACCGATTGGG-3′
CEL-I-R	5′-GGATCCCGGGATCCTTATTCAAAGGTCAGT-3′
W105H-F	5′-CGAACCGAACAACCATAACAACGCGGAAGA-3′
W105H-R	5′-TCTTCCGCGTTGTTATGGTTGTTCGGTTCG-3′
W105Y-F	5′-CGAACCGAACAACTATAACAACGCGGAAGA-3′
W105Y-R	5′-TCTTCCGCGTTGTTATAGTTGTTCGGTTCG-3′
W105A-F	5′-CGAACCGAACAACGCCAACAACGCGGAAGA-3′
W105A-R	5′-TCTTCCGCGTTGTTGGCGTTGTTCGGTTCG-3′