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 (NdeI and BamHI) 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

<table>
<thead>
<tr>
<th>Primer</th>
<th>Nucleotide sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEL-I-F</td>
<td>5’-CGCATATGAACCAGTGCCCGACCAGTTGGG-3’</td>
</tr>
<tr>
<td>CEL-I-R</td>
<td>5’-GGATCCCGGGATCTTATTCAAAGGTCAGT-3’</td>
</tr>
<tr>
<td>W105H-F</td>
<td>5’-CGAACCGAAAACCCATAACAACGCGGAAGA-3’</td>
</tr>
<tr>
<td>W105H-R</td>
<td>5’-TCTTCCGCTTGTGTTGTTGTTCTCGGTTCG-3’</td>
</tr>
<tr>
<td>W105Y-F</td>
<td>5’-CGAACCGAAAACCAACTATAACAACGCGGAAGA-3’</td>
</tr>
<tr>
<td>W105Y-R</td>
<td>5’-TCTTCCGCTTGTGTTGTTGTTCTCGGTTCG-3’</td>
</tr>
<tr>
<td>W105A-F</td>
<td>5’-CGAACCGAAAACGCACCAACGCGGAAGA-3’</td>
</tr>
<tr>
<td>W105A-R</td>
<td>5’-TCTTCCGCTTGTGTTGCGTTGTTCTCGGTTCG-3’</td>
</tr>
</tbody>
</table>