Fig. S1. The estimated 3D-structure of CsCE (A) and variation of CsCE mutants generated error-prone PCR. The core of (α/α)$_6$ barrel is located in the center of the 3D structure. Prominent α-helices are numbered by domain from the N terminus (H1-H12). The black circles indicate the positions of mutated amino acid residues.
Fig. S2. Effect of protein quantity on conversion yield using crude enzyme prepared from selected mutant. Various concentrations of crude enzyme were tested by incubating with 20 g/l substrate solution at the range of 70°C for 1 h.

Fig. S3. Solubility of lactose as a function of temperature.

Fig. S4. Uncropped images corresponding to Fig. 2.

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