А

Cc-PRI3(21-95)-Myc-6XHis: LPPGPTSLEVEALEGRANDPQCLYGNVAGKFCDNQGCRDGGGYCQYNAQTKRCSMVNMRGNSAPVGCLSCTCIKA-*Myc*-6XHis: ANDPQCLYGNVAGKFCDNQGCRDGGGYCQYNAQTKRCSMVNMRGNSAPVGCLSCTCIKA-*Myc*-6XHis

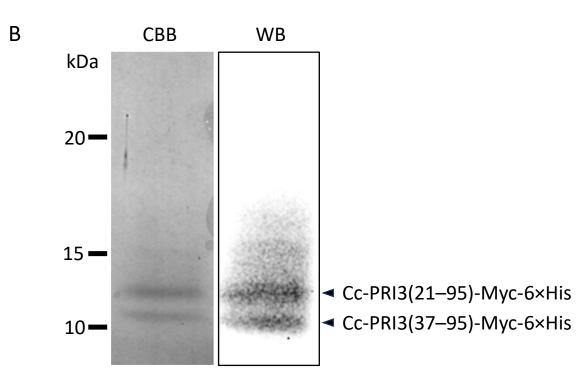


Figure S2. Preparation of recombinant Cc-PRI3(21–95)-Myc-6×His.

- A) Amino acid sequences of recombinant Cc-PRI3(21–95)-Myc-6×His and Cc-PRI3(37–95)-Myc-6×His. Cc-PRI3(21–95)-Myc-6×His contains the residues from Leu-21 to Ala-95 of the Cc-PRI3 protein, followed by Myc-tag and 6×His-tag sequences. Cc-PRI3(37–95)-Myc-6×His contains the residues from Ala-37 to Ala-95 of Cc-PRI3, followed by Myc-tag and 6×His-tag sequences. The DNA sequence coding for residues 21–95 of the Cc-PRI3 protein [Cc-PRI3(21–95)] was codon-optimized based on codon usage in *Pichia pastoris* and was chemically synthesized, subcloned into an expression vector pPICZαA, and expressed in *P. pastoris* X-33 cells. The Myc-tag and 6×His-tag sequences are coded in the expression vector.
 B) SDS-PAGE analysis of recombinant proteins in the culture medium of *Pichia pastoris* X-33 cells. Recombinant proteins in the culture medium were purified by His-tag affinity chromatography, resolved by SDS-PAGE and detected using Coomassie Brilliant Blue staining (CBB) (*n* = 2). Proteins in the polyacrylamide gel were transferred onto a membrane and detected using an anti-His-tag antibody (WB) (*n* = 1). Both CBB staining and immunostaining gave two bands with apparent molecular weights of 11 and 12 kDa respectively. Amino acid sequence starting with Leu-21, whereas the product giving the lower
 - band started with Ala-37 (i.e., it lacked the expected *N*-terminal 16 residues). The results indicated that about half of the recombinant Cc-PRI3(21–95)-Myc- $6 \times$ His protein was truncated at the *C*-terminal side of Arg-36 by an unknown proteolytic enzyme. Consequently, the product giving the lower molecular weight band in the SDS-PAGE, referred to as Cc-PRI3(37–95)-Myc- $6 \times$ His.