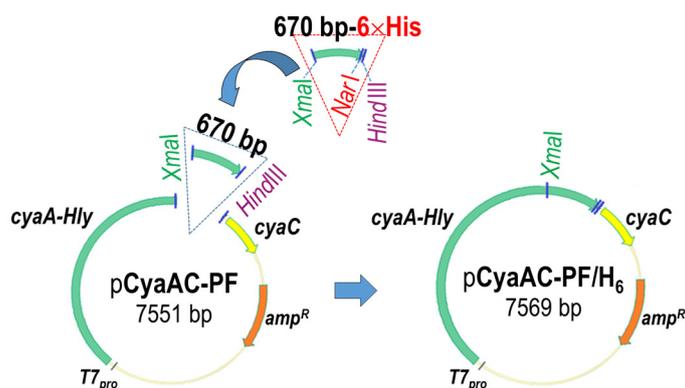


# Supplementary Information

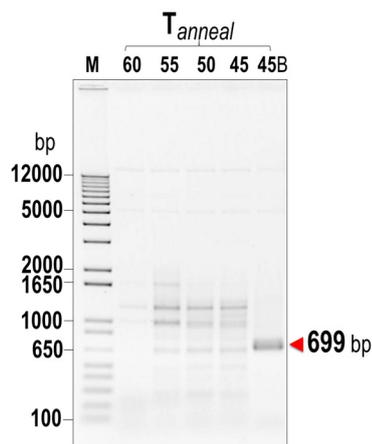
(a)



(b)



(c)



**Figure S1.** Construction of the recombinant pCyaAC-PF/H<sub>6</sub> plasmid with His-tagged fusion. (a) Two primers which were designed for amplification of the *Xma*I-*Hind*III fragment (670 bp) of the *CyaA-Hly* toxin gene. The forward primer contains *Xma*I site. The reverse primer contains 29-bp overhanging DNA sequences encoding 6× His tag and restriction sites for *Nar*I and *Hind*III; (b) The 7569-bp pCyaAC-PF/H<sub>6</sub> (*right*) was constructed from 7551-bp pCyaAC-PF (*left*); (c) Agarose gel electrophoresis of the PCR products amplified at annealing temperature ranging from 45–60 °C. The 699-bp expected PCR products (*arrowed*) was amplified at 45 °C in the presence of betaine enhancer.