**Fig. S1.** Toxicity of YhaV and the C-terminal truncated forms of YhaV. Toxicity of cells harbouring pBAD, pBAD24-\textit{yhaV}, -\textit{yhaV}Δ241-465, -\textit{yhaV}Δ271-465, -\textit{yhaV}Δ301-465, -\textit{yhaV}Δ331-465, -\textit{yhaV}Δ361-465, -\textit{yhaV}Δ391-465, -\textit{yhaV}Δ406-465, -\textit{yhaV}Δ421-465, -\textit{yhaV}Δ436-465, or -\textit{yhaV}Δ451-465 on M9-glycerol-casamino acids plates with and without L-arabinose (0.2%) at 37°C for 20 h.
Fig. S2. Toxicity and mRNA stability analyses of W143A or H154A mutant of YhaV.

A. Toxicity of cells harbouring pBAD, pBAD24-yhaV, -yhaVW141A, or -yhaVH154A on M9-glycerol-casamino acids plates with and without L-arabinose (0.2%) at 28°C or 37°C. B. Northern blot assay was performed to identify the effects of YhaV, YhaV W143A and YhaV H154A. Total RNA was extracted from E. coli BW25113ΔprfΔyhaV cells harbouring pBAD24, pBAD24-yhaV, -yhaV W141A, or -yhaV H154A and Northern blot assay was carried out with labelled ompF.