

Supplementary materials

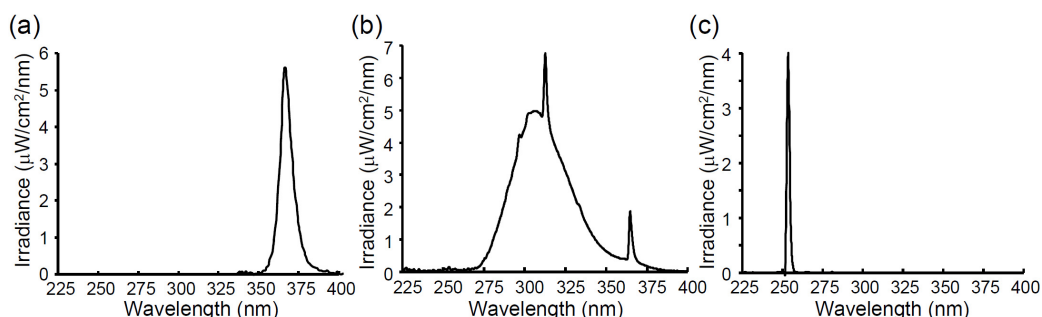


Figure S1. Emission spectra of various UV lamps. (a) UVA-LED (b) UVB lamp (c) UVC lamp.

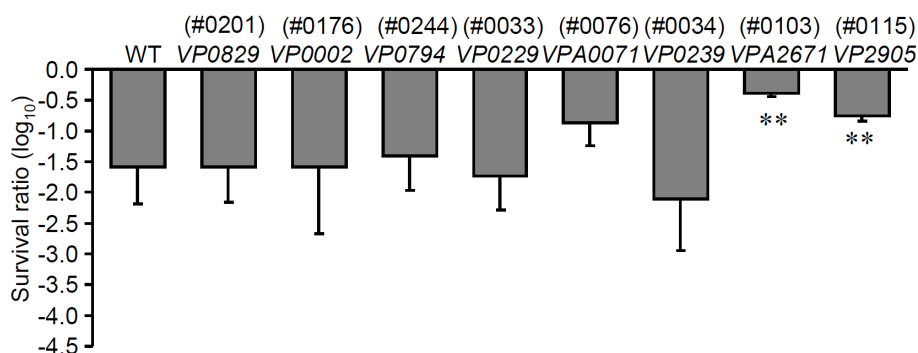


Figure S2. Sensitivities of mutants from first-round selection to UVA-LED (see Figure 1). Sensitivities of the six mutants with high UVA sensitivity are shown in Figure 3a. Sensitivity to UV irradiation is presented as \log_{10} of the survival ratio as described in the Materials and Methods section. Values are shown as means \pm standard deviation (SD; $n = 3 - 6$, with $n =$ number of independent experimental replicates). $**P < 0.01$ versus WT.

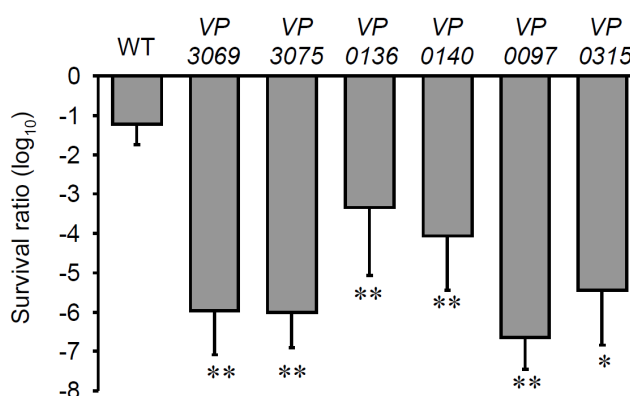


Figure S3. Sensitivities to hydrogen peroxide in highly UVA-sensitive *V. parahaemolyticus* mutants. The sensitivities to hydrogen peroxide is presented as \log_{10} of the survival ratio as described as previous report [Le TT, et al. *Biochim. Biophys. Acta.* **2012**, 1820, 1686-1692. doi: 10.1016/j.bbagen.2012.06.019]. Values are shown as means \pm standard deviation (SD; $n = 3-6$, $n =$ number of independent replicates). $*P < 0.05$ or $**P < 0.01$ versus WT.