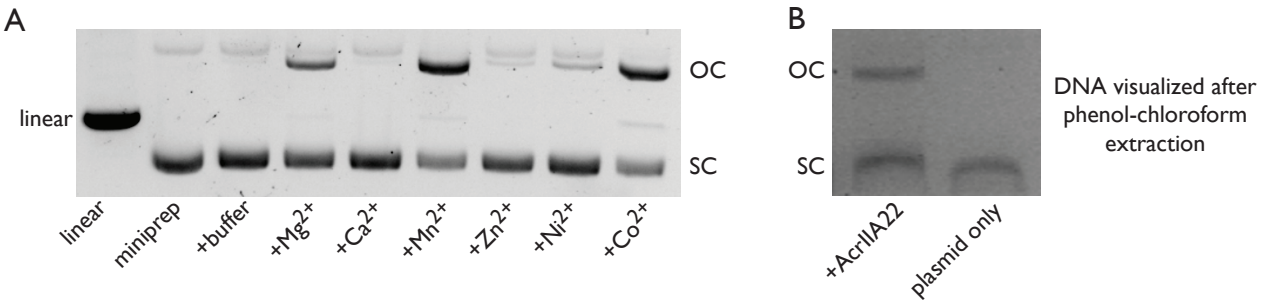


**S11 Fig. Divalent cations influence AcrIIA22's nicking activity.** (**A**) We present the impact of different divalent cations on AcrIIA22's nicking activity, which is highest with $Mg^{2+}$, $Mn^{2+}$, and $Co^{2+}$. OC, open-circle plasmid form. SC, supercoiled plasmid. (**B**) The open-circle plasmid product persists through phenol-chloroform extraction following AcrIIA22 treatment, indicating that it directly results from AcrIIA22's nicking activity.