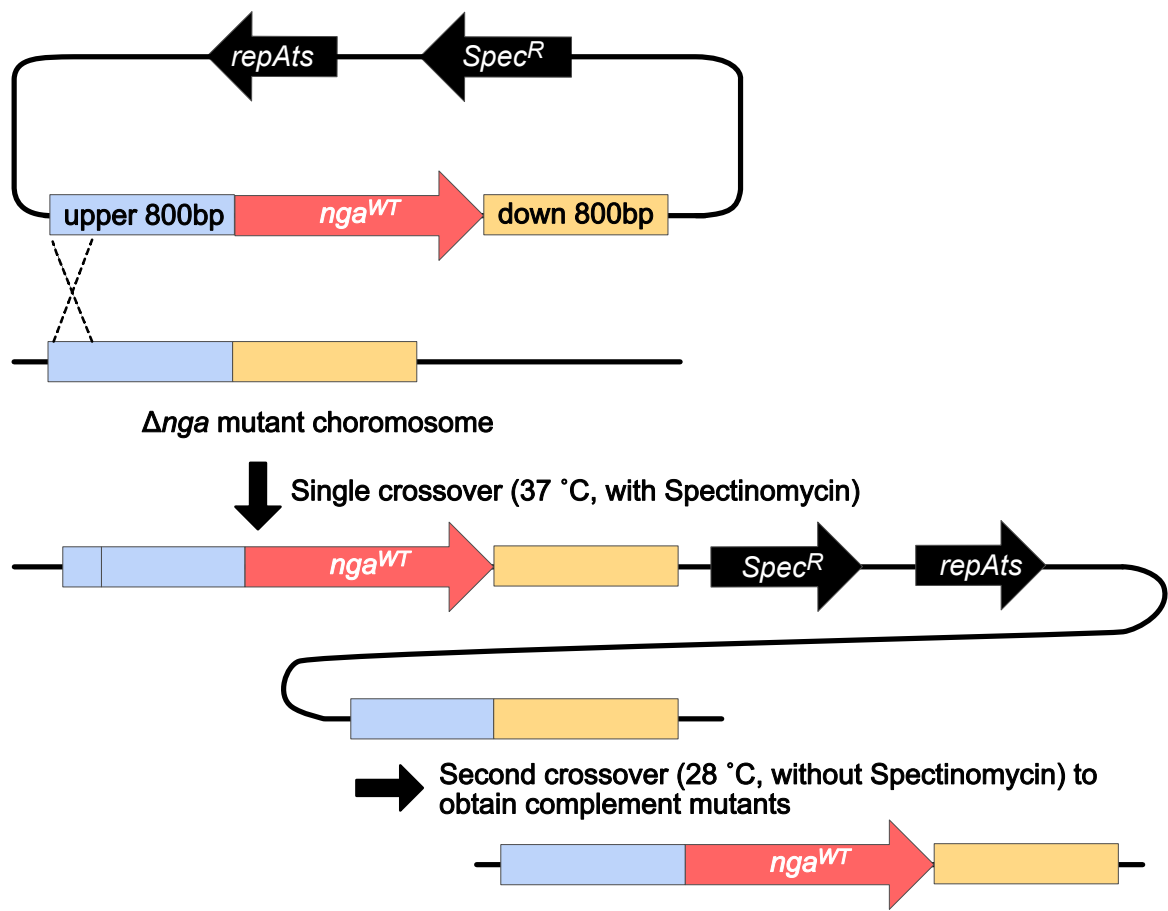


Supplementary Figure 4.

B Chromosomal complement of deleted *nga* gene (insertion)



C Chromosomal gene substitution

For example, mutation of *nga* gene coding *Nga^{WT}* to *Nga^{W81A}*

