Supplementary Table S3. List of plasmids used in this study

Plasmids	Description	Source
pRL27*	Transposon plasmid	Lab storage
pETDuet-1	The basic plasmid for constructing the target gene fragment	Lab storage
pRL27-P_{tac}-*xylABE*	The derivative of pRL27* carrying the *xylABE* gene cluster	This study
pETDuet-*acr1*::*CmR*	The 500 bp upstream and downstream homology arms of the *acr1* gene from the *A. baylyi* ADP1 genome were ligated to a chloramphenicol resistance (*CmR*) gene inserted between the two arms. The assembled fragment was then cloned into the *Bam*HI and *Xho*I sites of the pETDuet-1 plasmid multiple cloning sites.	This study
pETDuet-*gcd*	The homologous arms upstream and downstream of the *gcd* gene, ~1000 bp in length, from the genomic DNA of *A. baylyi* ADP1 were amplified by PCR. This fragment was then digested using *Bgl*II and *Sal*I. Subsequently, this assembled fragment was cloned into the multiple cloning sites of the pETDuet-1 plasmid between the *Bam*HI and *Xho*I sites.	This study
pETDuet-*gcd*::*SmR*	The pETDuet-*gcd* plasmid was digested with *Bam*HI and *Xho*I. The digested plasmid was then ligated with the streptomycin resistance (*SmR*) gene through homologous recombination.	This study
pETDuet-*gcd*::*LmXPK-CkPTA-SmR*	The pETDuet-*gcd* plasmid was digested with *Bam*HI and *Xho*I. The digested plasmid was then ligated with the *LmXPK-CkPTA-SmR* cassette through homologous recombination.	This study