Additional file 1: Figure S1. Schematic representation and confirmation of recombination strains. (A) Gene disruption of *gen*K and *gen*P (B) Expression of *kan*J and *kan*K by site specific intergration. (C) Expression of *kan*J and *kan*K with the promoter PermE* (D) Expression of *kan*J and *kan*K with the native promoter of *gen*P (E) Expression of *kan*J and *kan*K with promoter PhrdB.

Figure S1 Schematic representation and confirmation of recombination strains. (A)

Gene disruption of *gen*K and *gen*P

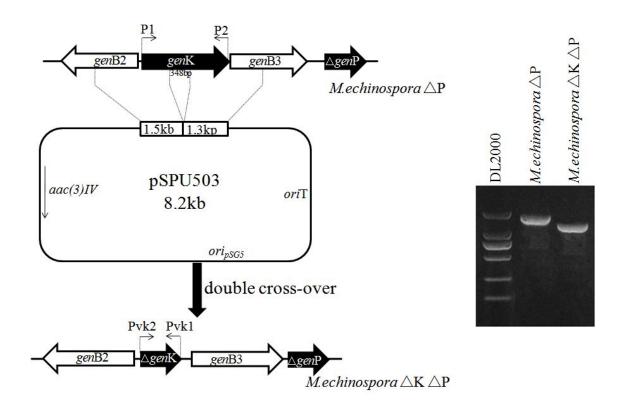


Figure S1 Schematic representation and confirmation of recombination strains. (B) Expression of *kan*J and *kan*K by site specific intergration.

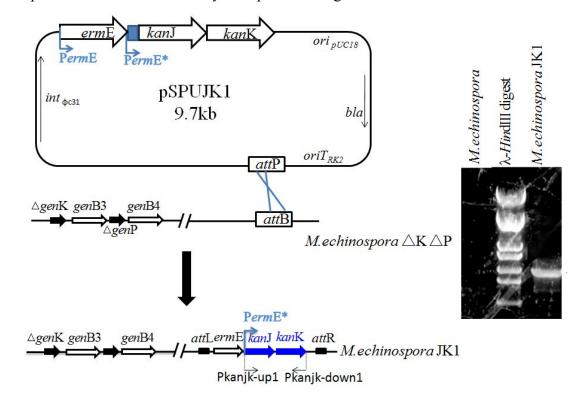


Figure S1 Schematic representation and confirmation of recombination strains. (C) Expression of *kanJ* and *kanK* with the promoter PermE*.

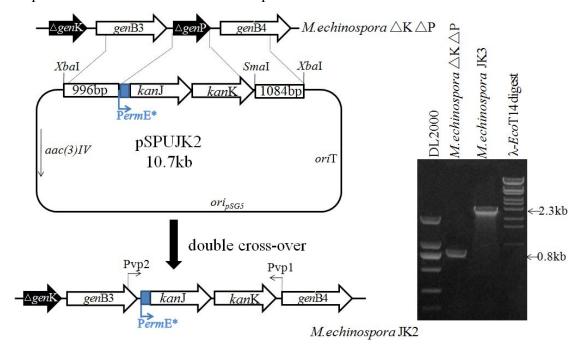


Figure S1 Schematic representation and confirmation of recombination strains. (D) Expression of *kan*J and *kan*K with the native promoter of *gen*P.

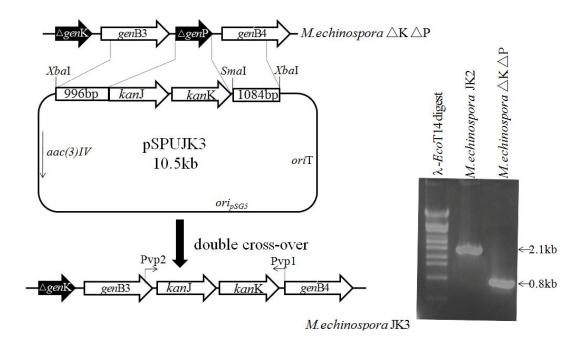


Figure S1 Schematic representation and confirmation of recombination strains. (E) Expression of *kan*J and *kan*K with promoter PhrdB.

