Supplementary data

Table S1. Bacterial strains and plasmids used in the study.

Strains or plasmid	Description	Source or reference
Strains		
A2265	Wild-type clinical *A. baumannii* isolate carrying single copy of bla_{OXA-23} without bla_{TEM-1} or IS*Aba1*-bla_{ADC}	This study
Plasmids		
pACBSR-Hyg	Template for amplification of the hygromycin resistance cassette	(1)
pMo130-Tel^R	Suicide plasmid used in the gene deletion experiment, xylE$^+$, sacB$^+$, Km^R	(2)
pMo130-Hyg^R	pMo130-Tel^R plasmid containing 1.25 Kb hygromycin resistance cassette from pACBSR-Hyg, instead of Tel resistance cassette	This study
pYMAb2	*E. coli- A. baumannii* shuttle plasimd, Km^R	(3)
pYMAb2-Hyg^R	pYMAb2 plasmid containing 1.25Kb hygromyicn resistance cassette from pACBSR-Hyg	This study

Reference

1. Huang TW, Lam I, Chang HY, Tsai SF, Palsson BO, Charusanti P. 2014. Capsule deletion via a lambda-Red knockout system perturbs biofilm formation and

fimbriae expression in *Klebsiella pneumoniae* MGH 78578. BMC Res Notes 7:13.

2. Amin IM, Richmond GE, Sen P, Koh TH, Piddock LJ, Chua KL. 2013. A method for generating marker-less gene deletions in multidrug-resistant *Acinetobacter baumannii*. BMC Microbiol 13:158.
3. Kuo SC, Yang SP, Lee YT, Chuang HC, Chen CP, Chang CL, Chen TL, Lu PL, Hsueh PR, Fung CP. 2013. Dissemination of imipenem-resistant *Acinetobacter baumannii* with new plasmid-borne $bla_{(OXA-72)}$ in Taiwan. BMC Infect Dis 13:319.

Table S2. Primers in the study.

Primer name	Primer sequence (5'-3')
△2265-OXA-UP-F	5'cggccgccctgcagcggatccTCTGGTTGTACGGTTCAGCATAA
△2265-OXA-UP-R	5'atctcaaatgCAACCAGCCCACTTGTGGTT
△2265-OXA-DW-F	5'gggctggttgCATTTGAGATAAATGGGCCTTTTA
△2265-OXA-DW-R	5'agcccgtcgcatgcatctagaTCCAATGAAACAGAGCAGGCA
pYMAb2-Hyg-IS-oxa23-F	5'GTGGTGGTGGTGCTCGAGTGCGGCCGCAAGCTTGTCGACGTGCCGCCTATCAGTTCTCT
pYMAb2-Hyg-IS-oxa23-R	5'TAGCATGACTGGTGGACAGCAAATGGGTCGCGGATCCCACCCGACCAACCAAAATCC
bla$_{OXA-23}$-Forward	5′-TATTCTGTATTTGCGCGG
bla$_{OXA-23}$-Reverse	5′-CT ATGTGGTTGCTTCTCT
rpoB-Forward	5′-TCCGCACGTAAAGTAGGAAC
rpoB-Reverse	5′-ATGCCGCCTGAAAAAGTAAC

Note. Upstream and downstream sequences of were amplified from genomic DNA of strain A2265 using the primers (△2265-OXA-UP-F/R and △2265-OXA-UP-F/R). The recombined fragment was cloned into the pMo130-Hyg^R vector. The IS*Aba1*-*bla*$_{OXA-23}$ gene was amplified with the pYMAb2-Hyg-IS-oxa23-F/R primers, and the PCR products were cloned into the *Bam*HI and *Sal*I sites of the *E. coli — A. baumannii* shuttle vector pYMAb2-Hyg^R. The primers (*bla*$_{OXA-23}$-Forward/Reverse and *rpoB*-Forward/Reverse) were used into the measure of copy number of *bla*$_{OXA-}$

23.