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Table S1 Antibiotic resistance profile

Antibiotics	MIC（μg/mL）	Drug sensitivity
amoxicillin/clavulanic acid	≥ 32.0	R
piperacillin/tazobactam	≥ 128.0	R
cefuroxime	≥ 64.0	R
cefuroxime 0	≥ 64.0	R
cefoxitin	≥ 64.0	R
ceftazidime	≥ 64.0	R
ceftriaxone	≥ 64.0	R
cefoperazone/sulbactam	32.0	I
cefepime	16.0	I
imipenem	≥ 16.0	R
levofloxacin	≥ 8.0	R
tigecycline	2.0	S
sulfamethoxazole	≥ 320.0	R

Information was provided by Guangzhou Chest Hospital.

R: resistant; I: between the range of resistant and sensitive; S: sensitive.

Table S2 Bacterial strains and plasmids used in this study

Plasmid/strains	Notes	Source
pMABH1	Containing the *apr* gene	Our lab
pUC18T-mini-Tn7T-lux-Tp	Backbone vector containing *luxCDABE*	[12]
pUC18T-mini-Tn7T-lux-Ab-dif-apr	Containing *luxCDABE* and *dif-apr-dif*	This study
pTNS3	Helper plasmid facilitating Tn7 to transpose	[12]
***E. coli* DH5α**	General cloning	Purchased from Dongsheng Guangzhou
Acinetobacter baumannii	Parental strain (clinical MDR-*Ab*)	Provided by Guangzhou Chest Hospital and confirmed by 16S rRNA gene sequencing

Table S3 Removal efficiency of the resistance gene

Round	No. of colonies that failed to grow on APR-containing plates per 50 colonies	Removal efficiency[b]
1	(1, 0, 2) 1 [a]	2%
2	(2, 2, 2) 2 [a]	4%
3	(4, 6, 5) 5 [a]	10%
4	(12, 9, 9) 10 [a]	20%
5	(14, 15, 13) 14 [a]	28%

[a]Colony numbers from 3 independent experiments are bracketed, followed by the mean values.

[b]The removal efficiency was calculated based on the corresponding mean values.

Fig. S1

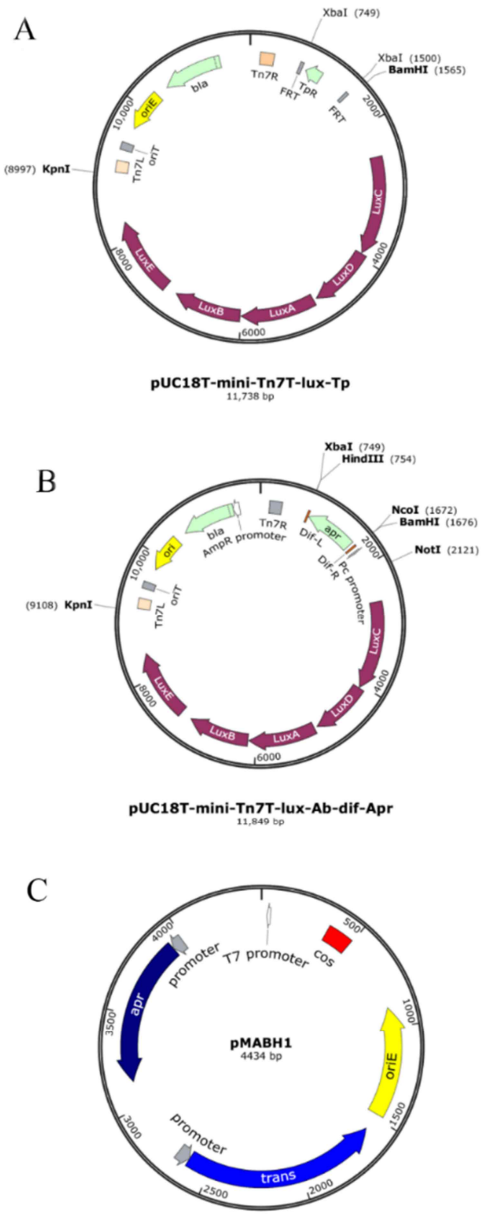

Fig. S1 Plasmid maps used in this study. **A**: pUC18T-mini-Tn7T-lux-Tp contains the *luxCDABE* operon and Tn7. **B**: Recombinant plasmid pUC18T-mini-Tn7T-lux-Ab-dif-apr. *OriE*, origin of replication in *E. coli*; *bla*, ampicillin resistance-conferring gene; *apr*, APR resistance-conferring gene. **C**: pMABH1 contains *trans* and *apr*.

Fig. S2

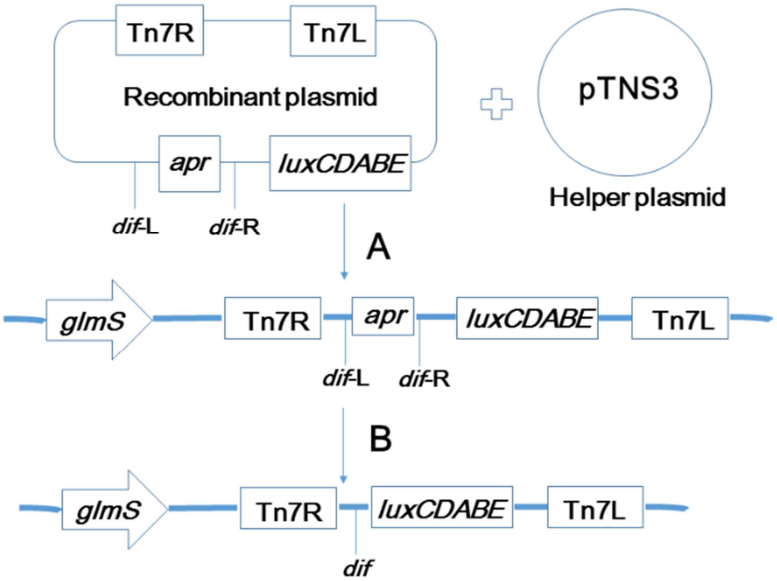

Fig. S2 Plasmid insertion and marker-deletion workflow. **A**: Recombinant plasmid containing Tn7 was introduced into *Ab* with the helper plasmid pTNS3 by electroporation. **B**: The *dif* sequences were recognized and cleaved by endogenous XerC and XerD expressed by *Ab* itself, leading to the removal of the resistance gene.