

1 **New-Data Letter**

2 **Supplementary Data**

3 **Polymorphism existence of mobile tigecycline resistance gene *tet(X4)* in *Escherichia coli***

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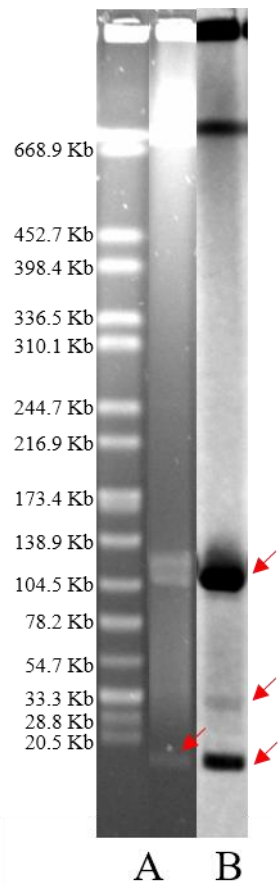
21 **Running title: The polymorphism existence of *tet(X4)* gene in *E. coli* 16EC**

22 **Key words:** tigecycline resistance; *tet(X4)* gene; MinION sequencing

**Supplementary Table S1.** Antimicrobial susceptibility profiles of *tet(X4)*-containing *E. coli* strain 16EC.

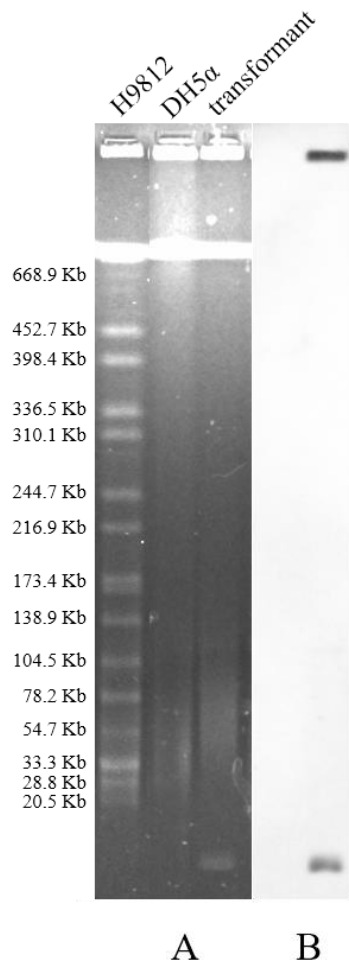
Strains	Description	MIC (mg/L) of antimicrobials												
		TGC	MIN	DOX	TET	OTC	CTE	FEP	FFC	MEM	CST	CAZ	CIP	KAN
16EC	<i>tet(X4)</i> carrying strain	32	>128	64	>128	>128	128	0.03	>128	0.015	1	0.125	0.25	<0.5

Note: TGC, tigecycline; MIN, minocycline; DOX, doxycycline; TET, tetracycline; OTC, oxytetracycline; CTE, chlorotetracycline; FEP, cefepime; FFC, florfenicol; MEM, meropenem; CST, colistin; CAZ, ceftazidime; CIP, ciprofloxacin; KAN, kanamycin.



**Supplementary Figure S1.** Identification of *tet(X4)* in the original *E. coli* strain 16EC. (A) Plasmid size determination by S1 nuclease-PFGE.

(B) Southern blotting hybridization with a *tet(X4)*-specific probe. *Salmonella* H9812 served as the DNA marker.



**Supplementary Figure S2.** Identification of *tet(X4)* in DH5 $\alpha$  and the transformant. (A) Plasmid size determination by S1 nuclease-PFGE. (B) Southern blotting hybridization with a *tet(X4)*-specific probe. *Salmonella* H9812 served as the DNA marker.

