

Table S1. Primers for strain identification and detecting the circular intermediate form.

Primers	Sequence (5'-3')	Product length
16s	F:GAGCGGATAACAATTTACACAGG R: CGCCAGGGTTTTCCCAGTCACGAC	500bp
<i>bla</i> _{CTX-M-1}	F: AACCGTCACGCTGTTGTTAG R: TTGAGGCTGGGTGAAGTAAG	766bp
XJ6-1-I	P1: CGTTTTTGCTCTCTTACGGTTGCG P2: GCGTTGAGAATGGGAGAGACTGAGC	3867bp
XJ6-1-II	P1: AAGGAAGGACCCTGTGTCTCAACTC P2: CGCCTGGCAACTGTGAAAGC	3818bp
XJ6-1-III	P1: CATTATCACAGCGGAACTCA P2: AAAGTACTGTCTTTGTATCACTCT	3221bp
XJ6-1-IV	P1: AGCCAACTGCTGCTGCGT P2: GCTCAAAGAAATTGTATTCATAGGT	1739bp
XJ6-1-V	P1: TTGTTATGACTGTTTTTTTGGGGT P2: ATAACTTCAGGCTCCAGTACCG	3422bp
XJ55-I	P1: CTTATGCAACATCGTATTATTCTCC P2: GATTTAACAGATTCGGTTCGCT	2762bp
XJ55-II	P1: GCAAGTTTTCGGTCTCCA P2: GGCTCGCTTCTGCTTTCAC	3349bp
ZYB39-I	P1: TTCGCCTTACCCGTCTTTTA P2: ATTTAACAGATTCGGTTCGCTT	2844bp
ZYB39-II	P1: ATGAAGTGGTTCGCATCCTCG P2: TGGGCTCGCTTCTGCTTTC	3207bp
ZYB62-I	P1: ATCAATGCCACACCCAGTCTGC P2: CAACATCGTATTATTCTCCCCG	2616bp
ZYB62-II	P1: CTCAAGTCCGATGACGAGGTAC P2: CCGAACAGGCTTATGTCCACT	3095bp

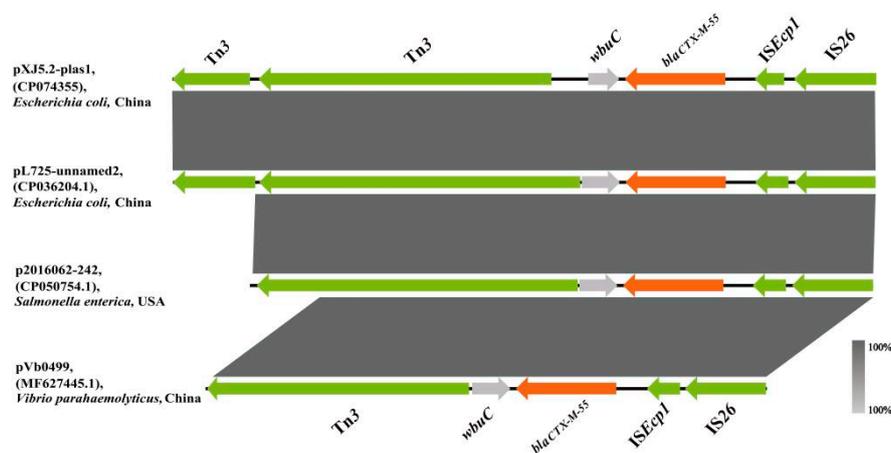


Figure S1. Sequence alignment of *bla*_{CTX-M-55}-positive IncHI2 plasmids of pXJ5.2-plas1.

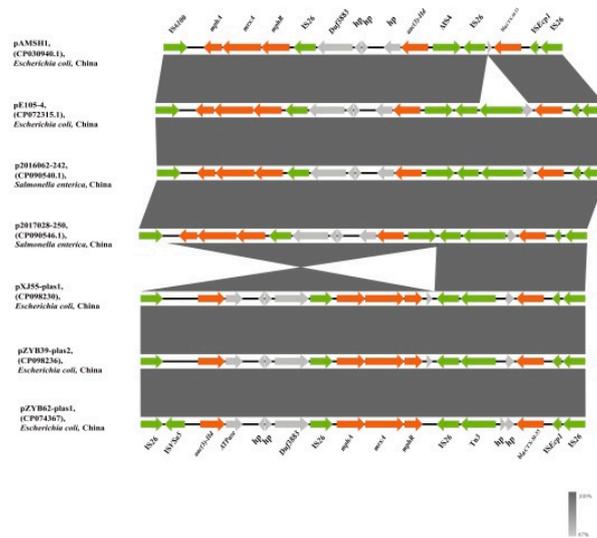


Figure S2. Sequence alignment of bla_{CTX-M-55}-positive IncHI2 plasmids of pXJ55-plas1, pZYB39-plas2, and pZYB62-plas1.



Figure S3. Detection of circular intermediates in plasmids using reverse PCR. From left to right, the first column is marker, and the second to sixth columns are circular forms I, II, III, IV, and V of pXJ6.1-plas1 (matching with Fig.2); the seventh to eighth are circular forms I, II of pZYB39-plas2; the ninth to tenth are circular forms I, II of pXJ55-plas1; the eleventh to twelfth are circular forms I, II of pZYB62-plas1.