

**Supplementary Table S1 Comparison of plasmids sequences using BLASTN**

<b>(coverage+identity)</b>	<b>pKPN-c22</b>	<b>pKPSH11</b>	<b>p6234-198.371kb</b>	<b>pKPN3-307_TypeC</b>	<b>pKPN3-307_typeA</b>	<b>pA1705-qnrS</b>	<b>p911021-tetA</b>	<b>p1642-tetA</b>
<b>pKPN-c22</b>		(99%+99%)	(99%+100%)	(82%+99%)	(81%+99%)	(70%+99%)	(70%+97%)	(70%+99%)
<b>pKPSH11</b>	(92%+99%)		(99%+99%)	(77%+99%)	(82%+99%)	(71%+96%)	(68%+96%)	(68%+96%)
<b>p6234-198.371kb</b>	(92%+100%)	(99%+99%)		(77%+99%)	(82%+98%)	(72%+99%)	(67%+99%)	(67%+99%)
<b>pKPN3-307_TypeC</b>	(68%+99%)	(69%+99%)	(69%+99%)		(97%+99%)	(79%+99%)	(70%+99%)	(70%+98%)
<b>pKPN3-307_typeA</b>	(64%+99%)	(70%+99%)	(71%+99%)	(93%+99%)		(80%+97%)	(68%+97%)	(68%+97%)
<b>pA1705-qnrS</b>	(47%+99%)	(52%+96%)	(53%+99%)	(65%+99%)	(68%+97%)		(88%+99%)	(87%+99%)
<b>p911021-tetA</b>	(51%+99%)	(54%+96%)	(55%+99%)	(63%+99%)	(64%+97%)	(97%+99%)		(99%+99%)
<b>p1642-tetA</b>	(51%+99%)	(55%+96%)	(55%+99%)	(63%+98%)	(64%+97%)	(97%+99%)	(99%+99%)	

**Supplementary table S2 Pairwise comparison of plasmids backbone sequences using BLASTN**

<b>(coverage+identity)</b>	<b>pKPN-c22</b>	<b>pKPSH11</b>	<b>p6234-198.371kb</b>	<b>pKPN3-307_TypeC</b>	<b>pKPN3-307_typeA</b>	<b>pA1705-qnrS</b>	<b>p911021-tetA</b>	<b>p1642-tetA</b>
<b>pKPN-c22</b>		(99%+99%)	(99%+99%)	(80%+99%)	(81%+99%)	(78%+97%)	(78%+97%)	(78%+97%)
<b>pKPSH11</b>	(98%+99%)		(98%+99%)	(79%+99%)	(80%+98%)	(77%+97%)	(77%+97%)	(77%+96%)
<b>p6234-198.371kb</b>	(99%+99%)	(99%+99%)		(80%+99%)	(81%+98%)	(78%+97%)	(78%+97%)	(78%+96%)
<b>pKPN3-307_TypeC</b>	(98%+99%)	(98%+99%)	(98%+99%)		(98%+99%)	(94%+99%)	(94%+99%)	(94%+99%)
<b>pKPN3-307_typeA</b>	(98%+99%)	(98%+98%)	(98%+98%)	(97%+99%)		(95%+98%)	(95%+98%)	(95%+97%)
<b>pA1705-qnrS</b>	(96%+97%)	(96%+97%)	(96%+97%)	(95%+99%)	(97%+98%)		(100%+99%)	(100%+99%)
<b>p911021-tetA</b>	(96%+97%)	(96%+97%)	(96%+97%)	(95%+99%)	(97%+98%)	(100%+99%)		(100%+99%)
<b>p1642-tetA</b>	(96%+97%)	(96%+96%)	(96%+96%)	(95%+99%)	(97%+97%)	(100%+99%)	(100%+99%)	

**Supplementary Table S3 Accessory modules of the MDR region from pKPN-c22, pKPSH11, p6234-198.371kb, pKPN3-307\_TypeC, and pKPN13-307\_typeA and the MDR-1 region from pA1705-qnrS**

pKPN-c22 MDR region	pKPSH11 MDR region	p6234-198.371kb MDR region	pKPN3-307_TypeC MDR region	pKPN3-307_typeA MDR region	pA1705-qnrS First MDR region
IS26	$\Delta$ IS26- $\Delta$ IS26	ISKpn28	Tn3 Family transposon remnant	Tn3 Family transposon remnant	Truncated IS26-sul2-strA-strB-IS26 Transposition unit
In37 residual	$\Delta$ IS5075	IS26	IS26	IS26	Tn2
IS26	IS26-sul2-strA-strB-IS26 Transposition unit residual	$\Delta$ ISPa38	In37 residual	$\Delta$ ISPa38	IS26-sul2-strA-strB-IS26 Transposition unit residual
Tn1721 residual	Tn2-3'	IS5075	$\Delta$ IS26	IS5075	IS5075
Tn5403	ISEcp1-bla <sub>CTX-M-15</sub> - $\Delta$ orf477 Transposition unit	IS26-sul2-strA-strB-IS26 Transposition unit residual	Tn1721 residual	IS26-sul2-strA-strB-IS26 Transposon remnant	$\Delta$ IS26
Truncated IS3000-qnrB1-IS26 Transposition unit	Tn2-5'	Tn2-3'	$\Delta$ Tn5403	$\Delta$ Tn2	IS26-tetA(D)-tetR(D)-IS26 Transposition unit derivative
In191	IS26 residual	ISEcp1-bla <sub>CTX-M-15</sub> - $\Delta$ orf477 Transposition unit	Truncated IS3000-qnrB1-IS26 Transposition unit	ISEcp1-bla <sub>CTX-M-15</sub> - $\Delta$ orf477 Transposition unit	IS26
ecoRII-ecoRIImet	IS26-cld-IS26 Transposition unit residual	Tn2-5'	In191	Tn2 residual	orf447
IS1X2 residual	Tn6415 residual	$\Delta$ IS26	ecoRII-ecoRIImet	Tn6415	$\Delta$ ISKpn38

$\Delta$ IS26	$\Delta$ IS26	Truncated IS26- <i>cl</i> -IS26 Transposition unit	IS1X2 residual	In37 residual	-
$\Delta$ Tn2	In37 residual	$\Delta$ Tn2	IS26	IS26	-
Truncated IS26- <i>cl</i> -IS26 Transposition unit	$\Delta$ IS26	$\Delta$ Tn6415	-	Tn1721 residual	-
$\Delta$ IS26-IS26	Tn1721 residual	In37 residual	-	Tn5403	-
-	Tn5403	IS26	-	Truncated IS3000- <i>qnrB1</i> - IS26 Transposition unit	-
-	IS3000- <i>qnrB1</i> - IS26 Transposition unit residual	Tn1721 residual	-	In191	-
-	$\Delta$ IS26	Tn5403-3'	-	<i>ecoRII-ecoRIImet</i>	-
-	In191	IS26	-	IS1X2 residual	-
-	<i>ecoRII-ecoRIImet</i>	Tn5403-5'	-	IS26	-
-	IS1X2 residual	Truncated IS3000- <i>qnrB1</i> -IS26 Transposition unit	-	-	-
-	$\Delta$ IS26- $\Delta$ IS26- $\Delta$ IS26	In191	-	-	-
-		<i>ecoRII-ecoRIImet</i>	-	-	-
-	-	IS26	-	-	-

**Supplementary Table S4 Accessory modules of the MDR region from p1642-tetA and p911021-tetA, and the MDR-2 region from pA1705-qnrS**

<b>p1642-tetA</b>	<b>p911021-tetA</b>	<b>pA1705-qnrS</b>
$\Delta$ Tn1721	ISEcp1-bla <sub>CTX-M-14</sub> -IS903D	$\Delta$ Tn1721
In363	orf273	In363
IS26-mph(A)-mrx-mphR(A)-IS6100	orf219	IS26-mph(A)-mrx-mphR(A)-IS6100
IS26-bla <sub>SHV-12</sub> -IS26	IS26	orf267
Tn1721	orf762	orf537
orf627	IS26-bla <sub>SHV-12</sub> -IS26	IS26
IS26-bla <sub>LAP-2</sub> -qnrS-IS26	IS26	Tn1721
aacC2-tmrB	$\Delta$ ISVsa5	orf627
$\Delta$ ISVsa5	aacC2-tmrB	IS26-bla <sub>LAP-2</sub> -qnrS-IS26
IS26	IS26-bla <sub>LAP-2</sub> -qnrS-IS26	aacC2-tmrB
IS26-bla <sub>SHV-12</sub> -IS26	orf627	$\Delta$ ISVsa5
orf219	Tn1721	IS26
orf273	Tn4352	IS26-bla <sub>SHV-12</sub> -IS26
ISEcp1-bla <sub>CTX-M-14</sub> -IS903D	IS26-mph(A)-mrx-mphR(A)-IS6100	orf762
-	In363	IS26
-	$\Delta$ Tn1721	orf219
-	-	orf273
-	-	ISEcp1-bla <sub>CTX-M-14</sub> -IS903D