

Supplementary tables

Intra- and Interspecies conjugal transfer of plasmids in Gram-negative bacteria

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Table S1. List of PCR primer used for the experiments.

Genes	Forward primer	Reverse primer
MobA (pOXAAPSS)	TGCTCACGAATCAAACG	AATAAACGTCTGCAGCG
RepA (pOXAAPSS)	CTTTCAGCTTCTTCTCG	TGATATGTTAAGCGGCG
TraI (pKPCAPSS)	GTCGTTTTCTCCGTACC	AGGTCTACACCGACAAC
RepA (pKPCAPSS)	CCAGTCGCGTGTAGTTG	TCACCCATTACCGGCAG
<i>bla</i> _{KPC-2}	CGTCTAGTTCTGCTGTC	TGTGCTTGTCATCCTTG
<i>bla</i> _{OXA-48}	ATTAGCCTTATCGGCTG	TCCTGTTTGAGCACTTC

Table S2. MIC data (in µg/ml) of recipients and selected transconjugants following *in vitro* mating with donor *K. pneumoniae* 565.

Antibiotic	<i>K. pneumoniae</i> ATCC 700603	<i>K. pneumoniae</i> 700603/565	<i>K. pneumoniae</i> 188	<i>K. pneumoniae</i> 188/565	<i>E. coli</i> C600	<i>E. coli</i> C600/565	<i>E. coli</i> ATCC 25922	<i>E. coli</i> 25922/565
Meropenem	0.06	4	0.03	4	0.03	2	0.03	1
Ciprofloxacin	0.25	4	>16	>16	0.25	2	4	16
Doxycycline	8	>16	>16	>16	1	1	2	2
Azithromycin	>16	>16	>16	>16	4	>16	4	>16
Polymyxin B	0.5	0.5	0.5	0.5	0.125	0.125	0.125	0.125
Ceftazidime	>16	>16	>16	>16	0.25	>16	1	>16
Gentamicin	4	4	0.5	0.5	0.5	0.25	0.125	0.125
Chloramphenicol	>16	>16	>16	>16	4	4	>16	>16
Ampicillin	>16	>16	>16	>16	8	>16	8	>16
Piperacillin/ Tazobactam	8	>16	>16	>16	2	>16	2	>16

Bold indicates values that differ by more than two-fold.

Table S3. MIC data (in µg/ml) of recipients and selected transconjugants following *in vitro* mating with donor *K. pneumoniae* 485.

Antibiotic	<i>K. pneumoniae</i> ATCC 700603	<i>K. pneumoniae</i> 700603/485	<i>K. pneumoniae</i> 188	<i>K. pneumoniae</i> 188/485	<i>E. coli</i> C600	<i>E. coli</i> C600/485	<i>E. coli</i> ATCC 25922	<i>E. coli</i> 25922/485
Meropenem	0.06	0.5	0.03	0.25	0.03	0.5	0.03	0.5
Ciprofloxacin	0.25	0.25	>16	>16	0.25	0.25	4	4
Doxycycline	8	8	>16	>16	1	1	2	2
Azithromycin	>16	>16	>16	>16	4	4	4	4
Polymyxin B	0.5	0.5	0.5	0.5	0.125	0.125	0.125	0.125
Ceftazidime	>16	>16	>16	>16	0.25	0.25	1	1
Gentamicin	4	4	0.5	0.5	0.5	0.5	0.125	0.125
Chloramphenicol	>16	>16	>16	>16	4	4	>16	>16
Ampicillin	>16	>16	>16	>16	8	>16	8	>16
Piperacillin/ Tazobactam	8	>16	>16	>16	2	>16	2	>16

Bold indicates values that differ by more than two-fold.

Table S4. MIC data (in µg/ml) of recipients and selected transconjugants following *in vitro* mating with donor *K. pneumoniae* 38.

Antibiotic	<i>K. pneumoniae</i> ATCC 700603	<i>K. pneumoniae</i> 700603/38	<i>K. pneumoniae</i> 188	<i>K. pneumoniae</i> 188/38	<i>E. coli</i> C600	<i>E. coli</i> C600/38	<i>E. coli</i> ATCC 25922	<i>E. coli</i> 25922/38
Meropenem	0.06	0.5	0.03	0.5	0.03	0.25	0.03	0.5
Ciprofloxacin	0.25	0.25	>16	>16	0.25	0.25	4	4
Doxycycline	8	8	>16	>16	1	1	2	2
Azithromycin	>16	>16	>16	>16	4	4	4	4
Polymyxin B	0.5	0.5	0.5	0.5	0.125	0.125	0.125	0.125
Ceftazidime	>16	>16	>16	>16	0.25	0.25	1	1
Gentamicin	4	4	0.5	0.5	0.5	0.5	0.125	0.125
Chloramphenicol	>16	>16	>16	>16	4	4	>16	>16
Ampicillin	>16	>16	>16	>16	8	>16	8	8
Piperacillin/ Tazobactam	8	>16	>16	>16	2	>16	2	>16

Bold indicates values that differ by more than two-fold.

Table S5. Conjugation frequencies between donor *K. pneumoniae* and recipient *K. pneumoniae*, *E. coli* and *P. aeruginosa* strains. All data are represented as arithmetic mean \pm standard error of the mean.

Donor strains	Recipient strains					
	<i>E. coli</i>		<i>K. pneumoniae</i>		<i>P. aeruginosa</i>	
	C600	ATCC 25922	ATCC 700603	188	ATCC 9027	ATCC 279853
<i>K. pneumoniae</i> 38	3.27 \pm 0.53 $\times 10^{-7}$	2.50 \pm 0.49 $\times 10^{-7}$	8.03 \pm 2.21 $\times 10^{-6}$	4.17 \pm 1.01 $\times 10^{-7}$	1$\times 10^{-9}$	1$\times 10^{-9}$
<i>K. pneumoniae</i> 485	1.72 \pm 0.36 $\times 10^{-6}$	5.00 \pm 0.78 $\times 10^{-6}$	1.79 \pm 0.4 $\times 10^{-4}$	4.81 \pm 1.07 $\times 10^{-5}$	1$\times 10^{-9}$	1$\times 10^{-9}$
<i>K. pneumoniae</i> 565	1.19 \pm 0.19 $\times 10^{-4}$	1.20 \pm 0.23 $\times 10^{-5}$	2.24 \pm 0.51 $\times 10^{-3}$	1.20 \pm 0.24 $\times 10^{-4}$	1$\times 10^{-9}$	1$\times 10^{-9}$

The data corresponding to the absence of conjugation as confirmed by PCR is depicted as equivalent to a limit of detection for conjugation frequency of 10^{-9} , and is highlighted in **bold**.