

Supplementary Materials

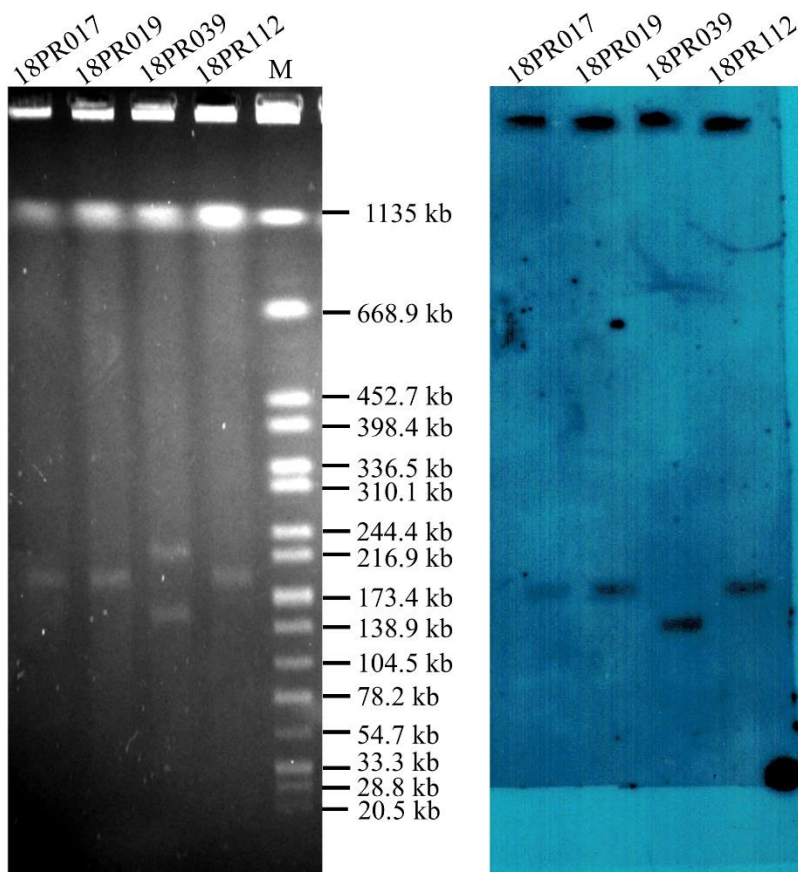


Fig. S1 Location of *mcr-4.3* in *Shewanella* spp. The left image represents the S1-PFGE map of four *mcr-4.3*-carrying *Shewanella* strains; the right image is the result of Southern blotting hybridization using *mcr-4.3* probe. M: *Salmonella* H9812 (New England BioLabs, Beverly, MA).

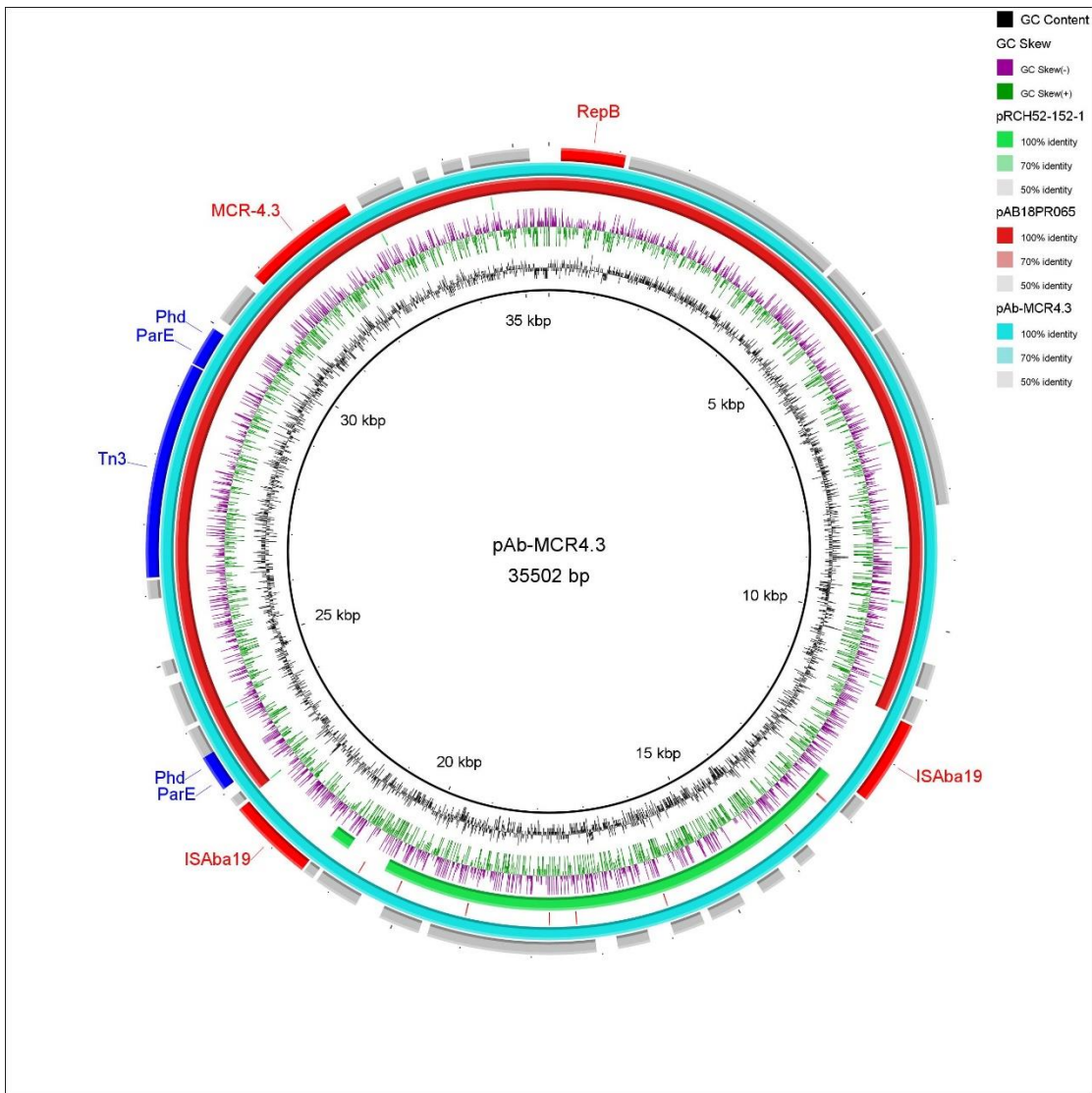


Fig. S2 Circular genetic map of pAB18PR065, pRCH52-1 and pAb-MCR4.3. pAB18PR065 (accession no. MK360916), pRCH52-1 (accession no. KT346360), pAb-MCR4.3 (accession no. NZ_CP033872). The map was drawn using BLAST Ring Image Generator (BRIG) (<http://sourceforge.net/projects/brig/>).

Tree scale: 0.1

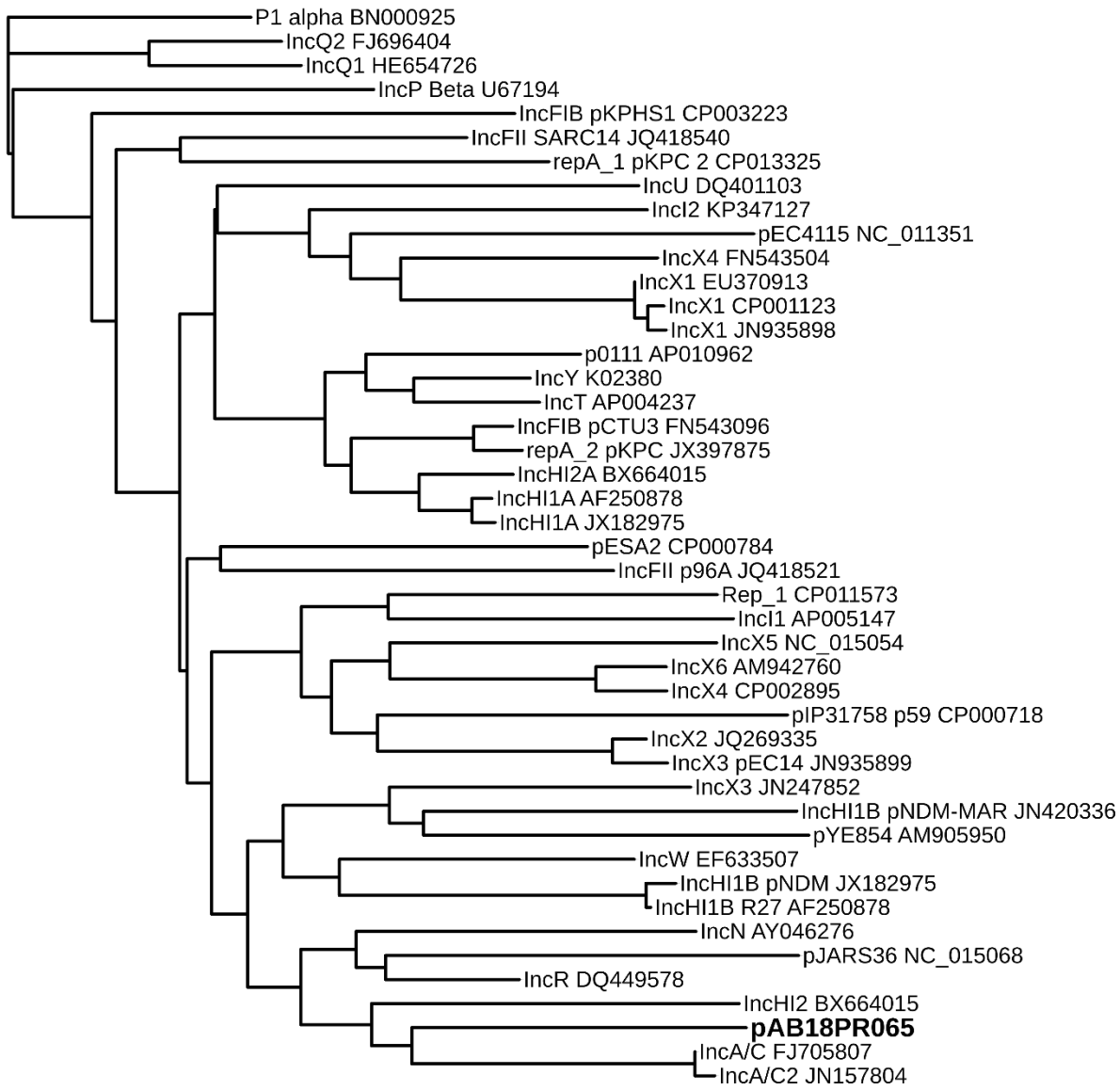


Fig. S3 Phylogenetic analysis of the replicon sequences across various plasmids.

Table S1 Distribution of *mcr*-harboring isolates from different sources

Source	Total	Species	Number of <i>mcr</i> -harboring isolates	<i>mcr</i> gene					
				<i>mcr-1</i>	<i>mcr-2</i>	<i>mcr-3</i>	<i>mcr-4</i>	<i>mcr-5</i>	<i>mcr-1</i> and <i>mcr-3</i>
Pig	185	<i>E. coli</i>	58	54	-	1	-	-	3
		<i>Shewanella</i> spp.	4	-	-	-	4	-	-
		<i>A. baumannii</i>	1	-	-	-	1	-	-
Healthy individual	320	<i>E. coli</i>	11	11	-	-	-	-	-
		<i>Shewanella</i> spp.	-	-	-	-	-	-	-
		<i>A. baumannii</i>	-	-	-	-	-	-	-
Patient	170	<i>E. coli</i>	10	10	-	-	-	-	-
		<i>Shewanella</i> spp.	-	-	-	-	-	-	-
		<i>A. baumannii</i>	-	-	-	-	-	-	-

Table S2 Antibacterial drugs susceptibility profiles of *A. baumannii* AB18PR065

Strain	MIC (μ g/mL)															
	CST	PMB	TGC	AMP	AMC	CTX	CAZ	FEP	GEN	AMK	ETP	IPM	MEM	FOF	CIP	
AB18PR065	8	8	1	16	64	8	4	2	≤ 1	8	2	0.25	0.25	64	0.125	

Abbreviations: CST, colistin; PMB, polymyxin B; TGC, tigecycline; AMP, ampicillin; CTX, cefotaxime; CAZ, ceftazidime; FEP, cefepime; GEN, gentamicin; AMK: amikacin; ETP, ertapenem; IPM, imipenem; MEM, meropenem; FOF, fosfomycin; CIP, ciprofloxacin.

Table S3 Alleles of the seven house-keeping genes of Oxford and Pasteur schemes among *A. baumannii*

Strain	ST(Oxf)	<i>cpn60</i>	<i>gdhB</i>	<i>gltA</i>	<i>gpi</i>	<i>gyrB</i>	<i>recA</i>	<i>rpoD</i>
AB18PR065	New	48	49	51	25	90	11	4
MRSN15313	233	28	8	1	106	15	10	32
Strain	ST(Pas)	<i>cpn60</i>	<i>fusA</i>	<i>gltA</i>	<i>pyrG</i>	<i>recA</i>	<i>rplB</i>	<i>rpoB</i>
AB18PR065	1303	3	3	16	1	13	1	15
MRSN15313	79	26	2	2	2	29	4	5

Table S4 Primers used in this study to close pAB18PR065

Purpose	Name	Nucleotide sequence (5'→3')	Amplicon size (bp)	Annealing temperature (°C)
Circularization	CF	TGAGGATCAGCATCAACTAACAC	779	56
	CR	TTTTAAGCCCTTCATAGGCTGC		
Identification	IF	TCTGTCCATGCGAGATGCAG	1551	54
	IR	GTAGTTCTGTGTTAGCCGATC		