

Table S1. Information of plasmids with the five highest matched plasmids to pMCR_10_2641 in NCBI.

Subject ID	Length (bp)	Query cover (%)	Identity (%)	Description
CP040383	194556	45.34	99.99	<i>Escherichia coli</i> strain A1_180 plasmid unnamed2
CP025740	160682	43.43	100	<i>Escherichia coli</i> strain Ec40 plasmid unnamed
CP041047	301036	32.22	98.34	<i>Citrobacter sp.</i> CF971 plasmid pBM527-1,
CP026206	191344	40.58	100	<i>Escherichia coli</i> strain ECONIH5 plasmid pECO-cbb3,
CP023978	213341	36.69	96.43	<i>Klebsiella variicola</i> strain X39 plasmid pX39-1,

Table S2. Plasmids carrying *mcr-10* gene on NCBI.

Species	Strain	Plasmid Name	Plasmid Replicons	Size (bp)	Country	Year	Accession no.
<i>Enterobacter roggenkampii</i>	WCHER090065	pMCR10_090065	IncFIA	71775	China	2019	CP045065
<i>Cronobacter sakazakii</i>	145005	pMCR10_145005	IncFIB	120500	China	2021	JABTXY010000030
<i>Enterobacter roggenkampii</i>	Ecl_20_981	pECL981-1	IncFIB	161986	China	2020	CP048651
<i>Enterobacter roggenkampii</i>	Er_20_983	pEr983-1	IncFIB	100102	China	2020	CP060738
<i>Raoultella ornithinolytica</i>	FDAARGOS_431	unnamed1	IncFIB	231294	USA	2017	CP023893
<i>Citrobacter freundii</i>	B38	pOZ172	IncFIB	127005	China	2001	CP016763
<i>Raoultella ornithinolytica</i>	NUITM-VR1	pNUITM-VR1_2	IncFIB	261835	Japan	2021	AP025011
<i>Enterobacter hormaechei</i>	ECC59	pECC59-2	ND	64293	China	2021	CP080472

<i>Enterobacter cloacae</i>	En37	pEN37S	IncFIB	70277	Japan	2021	AP024497
<i>Enterobacter roggenkampii</i>	STW0522-66	pSTW0522-66-1	IncFIB	324199	Japan	2020	AP022466
<i>Enterobacter kobei</i>	STW0522-51	pSTW0522-51-1	ND	159829	Japan	2020	AP022432
<i>Enterobacter asburiae</i>	RHBSTW-01009	pRHBSTW-01009_2	IncFIB	70650	UK	2020	CP056127
<i>Enterobacter cloacae</i>	RHBSTW-00399	pRHBSTW-00399_2	IncFII	137623	UK	2020	CP056561
<i>Enterobacter roggenkampii</i>	OIPH-N260	pN260-2	IncFIB	244996	Japan	2020	AP023449
<i>Enterobacter roggenkampii</i>	YK16	pYK16-mcr-10	IncFII	117855	China	2020	MT468575
<i>Enterobacter r. sp.</i>	18A13	pECC18A13-1	IncFII	150509	Japan	2019	AP019635
<i>Enterobacter r. sp.</i>	RHBSTW-00175	pRHBSTW-00175_3	IncFIB	68715	UK	2020	CP055932
<i>Enterobacter cloacae</i>	PIMB10EC27	pEC27-2	IncFIA	84602	Viet Nam	2018	CP020091
<i>Klebsiella quasipneumoniae</i>	SB610	pKqs_SB610_4	IncFIB	124980	Australia	2021	CP084774
<i>Klebsiella pneumoniae</i>	INF133-sc-2279960	pINF133-sc-2279960_5	IncFII	120029	Australia	2020	LR890193

ND, not detected; bp, base pair.

Table S4. The PT-qPCR oligonucleotide primer sequences used in this study.

Primer use and target gene	Nucleotide sequence (5'→3')	Amplicon size (bp)	Annealing temperature (°C)
<i>16s</i>	F: TCCACGATTACTAGCGATTC R: AGCAAGCGGACCTCATAA	87	55
<i>mcr-10</i>	F: ACCTGCTATGACGATGTTAT R: TGAAGTGACGATGCTCTG	124	55

F, forward; R, reverse; bp, base pair

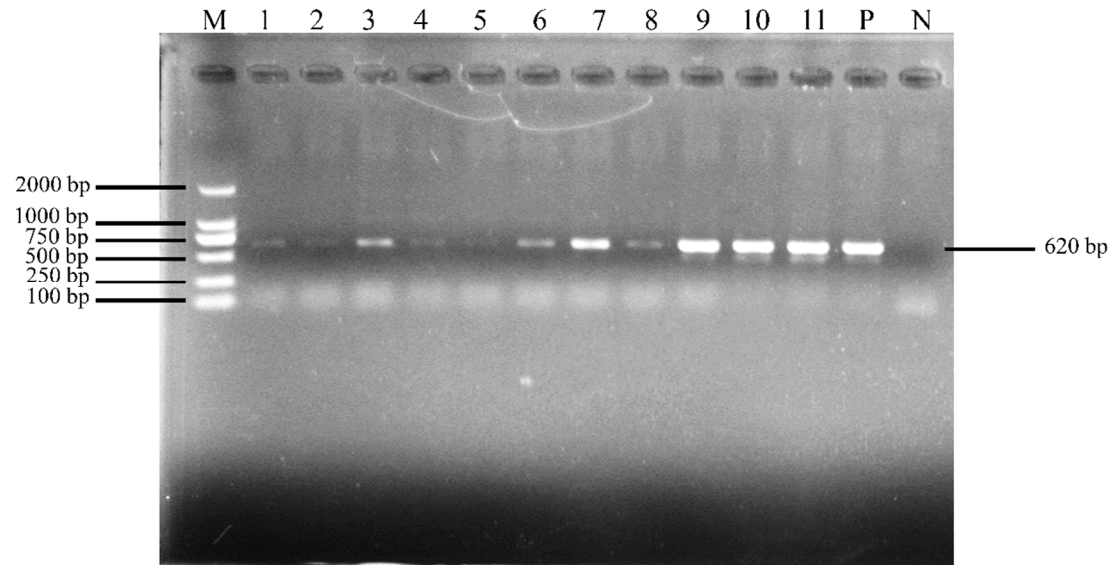


Figure S1. Agarose gel electrophoresis of the *mcr-10* PCR product from DNA extracts of the transconjugants. M lane is marker; lanes 1-11 are transconjugants; P lane is *mcr-10* carrying strain EC2641 as a positive control; N lane is using recipient bacterium J53 as a negative control. *mcr-10* amplification product size is 620 bp.

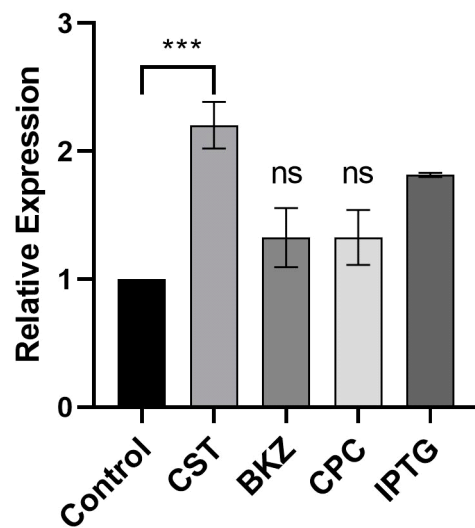


Figure S2. Relative expression of the resistance gene *mcr-10* in *Escherichia coli* EC2641 (the original host of *mcr-10* gene) under colistin, benzalkonium chloride, Cetylpyridinium Chloride and IPTG stress. CST, colistin; BKZ, benzalkonium chloride; CPC, Cetylpyridinium Chloride; IPTG, Isopropyl- β -D-thiogalactopyranoside. and antibiotic free LB was used as control. The data are shown as the means \pm SD of the results from three individual assays. ns, $p > 0.05$; ***, $p < 0.001$.