

Table S1 The accession number of 100 plasmids

1	KY463454.1	<i>Escherichia coli</i> strain WCHEC1618 plasmid pMCR-WCHEC1618, complete sequence
2	KY463451.1	<i>Escherichia coli</i> strain WCHEC1606 plasmid pMCR-WCHEC1606, complete sequence
3	MK574665.1	<i>Escherichia coli</i> strain DIB-1 plasmid pDIB-1, complete sequence
4	MK836307.1	<i>Escherichia coli</i> strain NMG38 plasmid pMCR-NMG38, complete sequence
5	MK172815.1	<i>Escherichia coli</i> plasmid pMCR-1-Msc, complete sequence
6	MT929278.1	<i>Escherichia coli</i> strain 1253-17-A2 plasmid pMCR-1253-A2, complete sequence
7	CP080094.1	<i>Salmonella enterica</i> strain SLR1-8245 plasmid pS8245-3, complete sequence
8	MK869757.1	<i>Escherichia coli</i> strain MFDS2258 plasmid pMFDS2258.1
9	MK875285.1	<i>Escherichia coli</i> strain MFDS1300 plasmid pMFDS1300.1, complete sequence
10	MK875282.1	<i>Escherichia coli</i> strain MFDS1318 plasmid pMFDS1318.1, complete sequence
11	MK869758.1	<i>Escherichia coli</i> strain MFDS2254 plasmid pMFDS2254.1
12	CP042970.1	<i>Escherichia coli</i> strain CFSAN061769 plasmid pCFSAN061769-01, complete sequence
13	CP018773.2	<i>Escherichia coli</i> strain 2016C-3936C1 plasmid pMCR-1-CT, complete sequence
14	MT929280.1	<i>Klebsiella pneumoniae</i> strain 1525-17-B1 plasmid pMCR-1525-B1, complete sequence
15	MT929279.1	<i>Escherichia coli</i> strain 1449-17-C1 plasmid pMCR-1449-C1, complete sequence
16	MK875286.1	<i>Escherichia coli</i> strain MFDS1029 plasmid pMFDS1029.1, complete sequence
17	MF449287.1	<i>Escherichia coli</i> strain T71115 plasmid pIBMC-mcr1, complete sequence
18	MT929277.1	<i>Escherichia coli</i> strain 1139-17-A1 plasmid pMCR-1139-A1, complete sequence
19	MT929276.1	<i>Escherichia coli</i> strain 1138-17-D1 plasmid pMCR-1138-D1, complete sequence
20	MK875284.1	<i>Escherichia coli</i> strain MFDS1310 plasmid pMFDS1310.1, complete sequence
21	CP092305.1	<i>Salmonella enterica</i> strain PNUSAS070846 plasmid PNUSAS070846-1, complete sequence
22	MT929275.1	<i>Escherichia coli</i> strain 1413-17-E1 plasmid pMCR-1413-E1, complete sequence
23	CP092309.1	<i>Salmonella enterica</i> strain PNUSAS037276 plasmid PNUSAS037276-2, complete sequence
24	MT929282.1	<i>Escherichia coli</i> strain 1525-17-D1 plasmid pMCR-1525-D1, complete sequence
25	CP092316.1	<i>Salmonella enterica</i> strain PNUSAS011707 plasmid PNUSAS011707-2, complete sequence
26	CP037906.1	<i>Escherichia coli</i> strain LHM10-1 plasmid pLHM10-1-MCR-1, complete sequence
27	CP069685.1	<i>Escherichia coli</i> O176:H45 strain MIN9 plasmid pMUB-MIN9-MCR, complete sequence
28	MH938808.1	<i>Escherichia coli</i> strain LHM10-1 plasmid pLHM10-1-mcr-1, complete sequence
29	KX254343.1	<i>Escherichia coli</i> strain GD-8 plasmid pECGD-8-33, complete sequence
30	KY689634.1	<i>Escherichia coli</i> strain 31349 plasmid p31349, complete sequence
31	KY565556.1	<i>Escherichia coli</i> strain Mcp0271 plasmid pMcp0271, complete sequence
32	MH143576.1	<i>Salmonella enterica</i> subsp. enterica serovar California strain SL01 plasmid pMCR-1, complete sequence
33	MT929289.1	<i>Escherichia coli</i> strain 1138-17-A1 plasmid pMCR-1138-A1, complete sequence
34	KX084392.1	<i>Escherichia coli</i> strain B65 plasmid pECJS-B65-33, complete sequence
35	LR882921.1	<i>Escherichia coli</i> genome assembly, plasmid: 1

36	LR882918.1	<i>Escherichia coli</i> genome assembly, plasmid: 1
37	CP063489.1	<i>Escherichia coli</i> strain EF7-18-51 plasmid pEF7-18-51-2, complete sequence
38	CP092328.1	<i>Salmonella enterica</i> strain PNUSAS020938 plasmid PNUSAS020938-2, complete sequence
39	CP042607.1	<i>Escherichia coli</i> strain NCYU-29-19 plasmid pNCYU-29-19-1-MCR1, complete sequence
40	MT929281.1	<i>Klebsiella pneumoniae</i> strain 1525-17-C2 plasmid pMCR-1525-C2, complete sequence
41	CP090286.1	<i>Escherichia coli</i> strain E-T344-1 plasmid pE-T344-1-mcr-1, complete sequence
42	CP028167.1	<i>Escherichia coli</i> strain CFSAN064036 plasmid pGMI17-004-2, complete sequence
43	CP016550.1	<i>Escherichia coli</i> strain O177:H21 plasmid unnamed4, complete sequence
44	CP019908.1	<i>Escherichia coli</i> strain MDR-56 plasmid pMCR1-NY, complete sequence
45	CP092303.1	<i>Salmonella enterica</i> strain PNUSAS047891 plasmid PNUSAS047891-2, complete sequence
46	LC511660.1	<i>Escherichia coli</i> 2017.19.01CC plasmid p2017.19.01CC DNA, complete genome
47	CP060967.1	<i>Escherichia coli</i> strain EC7 plasmid pEC7-mcr-1, complete sequence
48	CP059291.1	<i>Escherichia coli</i> strain 1506 plasmid p1506-3-mcr, complete sequence
49	CP048826.1	<i>Escherichia coli</i> strain QEC11-421 plasmid pEcQE11-421-5, complete sequence
50	CP092296.1	<i>Salmonella enterica</i> strain PNUSAS070160 plasmid PNUSAS070160-2, complete sequence
51	CP060524.1	<i>Salmonella enterica</i> strain SLR1-8250 plasmid pS8250-2, complete sequence
52	CP082794.1	<i>Klebsiella pneumoniae</i> strain KP4823 plasmid pKP4823-mcr, complete sequence
53	CP069650.1	<i>Escherichia coli</i> O7:H4 strain MIN14 plasmid pMUB-MIN14-MCR, complete sequence
54	LR882927.1	<i>Escherichia coli</i> genome assembly, plasmid: 1
55	CP069669.1	<i>Escherichia coli</i> O89m:H9 strain MIN11 plasmid pMUB-MIN11-MCR, complete sequence
56	CP069661.1	<i>Escherichia coli</i> O89m:H10 strain MIN12 plasmid pMUB-MIN12-MCR, complete sequence
57	CP092330.1	<i>Salmonella enterica</i> strain PNUSAS006351 plasmid PNUSAS006351-1, complete sequence
58	MG557853.1	<i>Escherichia coli</i> plasmid PN25, complete sequence
59	CP063335.1	<i>Escherichia coli</i> strain BS74R-D plasmid pBS74R-D-3, complete sequence
60	CP011290.1	<i>Salmonella enterica</i> subsp. diarizonae strain 11-01853 plasmid unnamed1, complete sequence
61	CP060977.1	<i>Escherichia coli</i> strain EC4 plasmid pEC4-4, complete sequence
62	CP024919.1	<i>Klebsiella pneumoniae</i> strain NH54 plasmid pKPNH54.3, complete sequence
63	CP033849.1	<i>Escherichia coli</i> strain FDAARGOS-497 plasmid unnamed3, complete sequence
64	LC479085.1	<i>Escherichia coli</i> B2 plasmid pB2 DNA, complete sequence
65	MK477615.1	<i>Salmonella enterica</i> strain SH16G1509 plasmid pSH16G1509, complete sequence
66	KX772777.1	<i>Escherichia coli</i> strain E15004 plasmid pE15004, complete sequence
67	MW557326.1	<i>Salmonella enterica</i> subsp. enterica serovar <i>Typhimurium</i> strain 16062 plasmid p16062-MCR.
68	MW010027.1	<i>Escherichia coli</i> strain EC1283 plasmid pEC1283, complete sequence
69	MW010026.1	<i>Escherichia coli</i> strain EC1280 plasmid pEC1281, complete sequence
70	MW010025.1	<i>Escherichia coli</i> strain EC1279 plasmid pEC1279, complete sequence
71	MW010024.1	<i>Escherichia coli</i> strain EC1281 plasmid pEC1281, complete sequence

72	LC341397.1	<i>Escherichia coli</i> plasmid pEC15-101mcr DNA, complete sequence
73	MN200943.1	<i>Escherichia coli</i> strain E648 plasmid pE648MCR-1, complete sequence
74	LC477294.1	<i>Escherichia coli</i> A2 plasmid pA2 DNA, complete sequence
75	LC477138.1	<i>Escherichia coli</i> A1 plasmid pA1 DNA, complete sequence
76	MK477610.1	<i>Salmonella enterica</i> strain SH15G2167 plasmid pSH15G2167, complete sequence
77	MK477604.1	<i>Salmonella enterica</i> strain SH15G1397 plasmid pSH15G1397, complete sequence
78	MG257881.1	<i>Escherichia coli</i> strain P744T plasmid pP744T-MCR1, complete sequence
79	CP031291.1	<i>Salmonella enterica</i> subsp. enterica serovar 4, 12:i:- strain N17-0346 plasmid pN17-0346, complete sequence
80	MG210937.1	<i>Escherichia coli</i> strain GZ49260 plasmid pGZ49260, complete sequence
81	AP018411.1	<i>Klebsiella pneumoniae</i> plasmid pRYU3223C-1 RYU 3223 DNA, complete sequence
82	MF175191.1	<i>Escherichia coli</i> strain CDF8 plasmid pCDF8, complete sequence
83	KX711706.1	<i>Escherichia coli</i> strain CSZ4 plasmid pCSZ4, complete sequence
84	MF175185.1	<i>Escherichia coli</i> strain PF52 plasmid pPF52, complete sequence
85	MF175184.1	<i>Escherichia coli</i> strain PF91 plasmid pPF91, complete sequence
86	KX711707.1	<i>Escherichia coli</i> strain FS170G plasmid pFS170G, complete sequence
87	KX129783.1	<i>Escherichia coli</i> strain OW3E1 plasmid pOW3E1, complete sequence
88	KX236309.1	<i>Klebsiella pneumoniae</i> strain KP-6884 plasmid pMCR1.2-IT, complete sequence
89	MF175186.1	<i>Escherichia coli</i> strain PF11 plasmid pPF11, complete sequence
90	KY075660.1	<i>Escherichia coli</i> strain GD65 plasmid pGD65-4, complete sequence
91	MT667261.1	<i>Escherichia coli</i> strain GDE6P129 plasmid pHNEP129, complete sequence
92	KY075653.1	<i>Escherichia coli</i> strain Lishui12 plasmid pLishui12-2, complete sequence
93	KY075652.1	<i>Escherichia coli</i> strain GD46 plasmid pGD46-3, complete sequence
94	MF175190.1	<i>Escherichia coli</i> strain ColR598 plasmid pColR598-1, complete sequence
95	KY075655.1	<i>Escherichia coli</i> strain WH03 plasmid pWH03-3, complete sequence
96	KY471146.1	<i>Escherichia coli</i> strain EC111 plasmid pEC111, complete sequence
97	KY120364.1	<i>Salmonella enterica</i> subsp. enterica serovar <i>Typhimurium</i> strain NG14043 plasmid pNG14043.
98	MW264508.1	<i>Salmonella enterica</i> subsp. enterica serovar <i>Typhimurium</i> strain S67 plasmid pS67, complete sequence
99	MW264509.1	<i>Salmonella enterica</i> subsp. enterica serovar <i>Typhimurium</i> strain S69 plasmid pS69, complete sequence
100	MW264507.1	<i>Salmonella enterica</i> subsp. enterica serovar <i>Typhimurium</i> strain S60 plasmid pS60, complete sequence

Table S2 The virulence gene on chromosome KPTA-2108

VFclass	Virulence factors	Related genes
Adherence	Type 3 fimbriae	<i>mrkA, mrkB, mrkC, mrkD, mrkF, mrkH, mrkI, mrkJ</i>
	Type I fimbriae	<i>fimA, fimB, fimC, fimD, fimE, fimF, fimG, fimH, fimG, fimH, fimI, fimK</i>
Antiphagocytosis	Capsule	<i>Capsule I</i>
Efflux pump	AcrAB	<i>arcA, acrB</i>
	Aerobactin	<i>iucA, iucB, iucC, iucD, iutA</i>
Iron uptake	Enterobactin	<i>entA, entB, entC, entD, entE, entF, entS, fepA, fepB, fepC, fepD, fepG, fes</i>
	Salmochelin	<i>iroE, iroN</i>
	Yersiniabactin	<i>ybtP</i>
Regulation	RcsAB	<i>rcsA, rcsB</i>
	RmpA	<i>rmpA</i>
Secretion system	T6SS-I	<i>clpV/tssH, impA/tssA, ompA, dotU/tssL, hcp/tssD, icmF/tssM, sciN/tssJ, tliI, tleI, tssF, tssG, vasE/tssK, vgrG/tssI, vipA/tssB, vipB/tssC</i>
	T6SS-II	<i>clpV</i>
	T6SS-III	<i>ompA, dotU, icmF, impA, impF, impG, impH, impJ, lysM, sciN, vgrG</i>
Serum resistance	LPS rfb locus	<i>gluP, wbmI, bplA</i>
Toxin	Colibactin	<i>clbL, clbG, clbD, clbP</i>

Table S3 Mobile genetic elements and resistance genes carried by chromosome KPTA-2108

Strain	Length (bp)	Compound transposon (position in contig)	Carrier of resistance factors
chromosome	5306347	cn-9244-IS26 (3836210-3845454)	<i>rmtB</i> , <i>tet(G)</i> , <i>bla<sub>TEM-1B</sub></i>
		cn-2946-IS26 (3844634-3847580)	<i>bleO</i>
		cn-18551-IS26 (3818479-3837030)	<i>qnrB4</i> , <i>sul1</i> , <i>bla<sub>DHA-1</sub></i> , <i>qacE</i>
		cn-50151-IS26 (3846761-3896912)	<i>msr(E)</i> , <i>armA</i> , <i>msr(E)</i> , <i>mph(E)</i>

Table S4 Mobile genetic elements and resistance genes carried by plasmid KPTA-2108

Plasmid name	Length (bp)	Plasmid type	Mobile genetic elements (position in contig)	Drug resistance gene (accession number) (position in contig)
pMJ4-1	164378	IncFIB	IS26 (163143-163962)	<i>bleO</i> (AF051917) (131623-132016)
			IS26 (4022-4841)	<i>aac(6')-Ib-cr</i> (DQ303918) (149103-149702)
			ISKpn24 (39991-42444)	<i>aadA16</i> (EU675686) (146922-147767)
			ISEcl1 (43464-44799)	<i>aph(6)-Id</i> (M28829) (163971-164378)
			ISKpn26 (49498-50692)	<i>aac(3)-IId</i> (EU022314) (160253-161113)
			IS903 (82220-83275)	<i>aph(3')-Ia</i> (V00359) (162240-163055)
			IS903 (54251-55307)	<i>ARR-3</i> (JF806499) (148554-149006 )
			cn-2680-IS26 (161282-163962)	<i>mph(A)</i> (D16251) (141337-142242)
			cn-9025-IS903 (54250-83275) ( <i>aph(3')-Ia</i> )	<i>sul1</i> (U12338) (145625-146464)
				<i>sul2</i> (HQ840942) (1344-2159)
				<i>dfrA27</i> (FJ459817) (147948-148421)
				<i>tet(A)</i> (AJ517790) (137905-139104 )
				<i>aadA16</i> (EU675686) (146922-147767 )
				<i>qacE</i> (X68232) (146524-14680)
				<i>floR</i> (AF118107) (154945-156158)
pMJ4-2	98026	IncII-I	ISEc37 (11297-13125)	—
pMJ4-3	72739	—	IS26 (47266-48085)	<i>bla<sub>CTX-M-15</sub></i> (AY044436) (48405-49280)
			ISKpn19 (54291-57139)	<i>bla<sub>TEM-1B</sub></i> (AY458016) (43894-44754)
			cn-11610-ISKpn19 (41025-52635) ( <i>bla<sub>CTX-M-15</sub></i> ) ( <i>bla<sub>TEM-1B</sub></i> )	<i>qnrS1</i> (AB187515) (52886-53542)
			cn-4640-ISKpn19 (52499-57139) ( <i>qnrS1</i> )	
pMJ4-44-MCR	30124	IncX4	—	<i>mcr-1</i> (KP347127) (25134-26759)