Supplementary Information

Table S1: The primer pairs used in the current study, the product sizes, and PCR annealing conditions.

Gene	Sequence	Product size (bp)	Annealing temperature	Reference
csgA	F: (5'- ACTCTGACTTGACTATTACC-3') R: (5'- AGATGCAGTCTGGTCAAC -3')	200	43ºC	[66]
fimA	F: (5'- TGTCCCTCAGTTCTACAGCG -3') R: (5'- TCCTAACTGAACGGTTTGATC-3')	134	47ºC	[67]
fliC	F: (5'- CCAGTCTGCGCTGTCGAG -3') R: (5'- CACGTTCACGCCGTTGAAC -3')	349	53ºC	[68]
gapA	F: (5'- AGTTGACCTGACCGTTCGT -3') R: (5'- CACCCGCTTTAGCATCGAAC -3')	176	52ºC	[69]
luxS	F: (5'- CATACCCTGGAGCACCTGTT -3') R: (5'- TGATCCTGCACTTTCAGCAC -3')	191	51ºC	[70]

Table S2: MIC values of selected antibiotics and the calculated MAR index against the tested *E. coli* isolates.

	MIC values in µg/mL *										MAR index
***E. coli* isolates**	**AK**	**CTR**	**CIP**	**MRP**	**LE**	**CPM**	**CL**	**TGC**	**DO**	**AZ**	
E1	4	>4096	62.5	<0.125	15.6	512	2	0.5	4	16	0.4
E2	8	>4096	125	<0.125	15.6	1024	2	1	32	64	0.6
E3	8	>4096	250	<0.125	15.6	2048	2	1	16	32	0.6
E4	4	>4096	125	<0.125	15.6	2048	0.25	1	64	16	0.5
E5	8	4096	125	<0.125	31.25	64	0.5	1	32	16	0.5
E6	2	>4096	250	<0.125	31.25	128	0.25	1	32	512	0.6
E7	4	>4096	>1000	<0.125	62.5	4096	1	1	32	64	0.6
E8	8	>4096	500	32	62.5	1024	1	2	32	8	0.6
E9	1	4096	62.5	<0.125	31.25	64	0.25	1	128	64	0.6
E10	8	>4096	500	<0.125	31.25	512	2	1	4	8	0.4
E11	4	4096	62.5	<0.125	15.6	128	0.5	1	16	128	0.6
E12	2	4096	125	<0.125	62.5	128	0.25	1	16	64	0.6
E13	8	>4096	125	32	62.5	2048	2	2	32	8	0.6
E14	4	>4096	62.5	<0.125	31.25	512	2	1	16	32	0.6
E15	4	4096	1000	<0.125	500	4096	0.25	1	4	16	0.4
E16	4	>4096	62.5	<0.125	31.25	1024	8	1	16	128	0.7
E17	4	0.5	>1000	<0.125	31.25	2048	2	1	128	64	0.5
E18	16	>4096	125	<0.125	7.8	1024	4	1	8	128	0.6
E19	8	>4096	125	64	31.25	512	0.5	1	16	64	0.7
E20	8	>4096	125	2	62.5	1024	4	2	32	64	0.7
E21	4	>4096	62.5	<0.125	31.25	128	16	2	32	64	0.7
E22	4	4096	125	<0.125	62.5	256	16	2	16	4	0.6

Table S2: continued.

E. coli isolates	MIC values in µg/mL *										MAR index
	AK	CTR	CIP	MRP	LE	CPM	CL	TGC	DO	AZ	
E23	>512	>4096	125	64	31.25	4096	1	1	64	512	0.8
E24	16	>4096	125	<0.125	31.25	512	4	1	16	256	0.7
E25	8	>4096	250	1	15.6	1024	16	1	32	256	0.7
E26	1	256	<0.125	<0.125	<0.125	128	0.25	1	16	256	0.4
E27	8	>4096	125	<0.125	15.6	1024	2	1	16	256	0.6
E28	16	>4096	62.5	0.25	15.6	512	4	1	8	32	0.6
E29	16	>4096	250	<0.125	15.6	2048	2	1	8	64	0.5
E30	8	>4096	125	<0.125	15.6	64	1	1	4	8	0.4
E31	8	1	125	0.25	7.8	512	0.25	2	8	16	0.3
E32	4	1	<0.125	<0.125	2	<0.125	1	0.5	2	4	0
E33	8	>4096	62.5	<0.125	31.25	4096	1	1	16	64	0.6
E34	4	1	<0.125	<0.125	0.25	<0.125	1	1	32	8	0.1
E35	4	4096	250	<0.125	15.6	512	4	1	8	1024	0.6
E36	>512	>4096	250	64	62.5	2048	2	1	4	512	0.7
E37	16	>4096	250	64	15.6	2048	1	1	64	256	0.7
E38	4	>4096	125	<0.125	15.6	1024	2	1	16	256	0.6
E39	2	>4096	125	0.25	62.5	256	1	2	>128	8	0.5
E40	4	>4096	250	0.25	62.5	256	2	2	64	32	0.6
E41	4	>4096	62.5	<0.125	31.25	256	4	2	16	128	0.7
E42	8	>4096	62.5	0.25	31.25	512	8	1	16	64	0.7
E43	8	>4096	1000	<0.125	31.25	2048	1	1	64	32	0.6
E44	4	>4096	250	0.25	15.6	1024	2	1	16	32	0.6
E45	4	>4096	250	<0.125	62.5	512	2	1	8	64	0.5
E46	4	>4096	250	<0.125	31.25	2048	1	2	128	16	0.5
E47	4	>4096	250	256	125	2048	1	2	32	64	0.7

Table S2: continued.

E. coli isolates	MIC values in µg/mL *										MAR index
	AK	CTR	CIP	MRP	LE	CPM	CL	TGC	DO	AZ	
E48	16	1	125	1	15.6	16	0.5	1	32	32	0.5
E49	4	>4096	62.5	<0.125	62.5	512	2	2	64	128	0.6
E50	16	>4096	250	<0.125	62.5	1024	1	1	64	1024	0.6
E51	8	<0.125	0.5	<0.125	31.25	16	0.5	1	4	128	0.3
E52	2	<0.125	0.5	<0.125	0.5	<0.125	0.5	1	4	2	0
E53	>512	>4096	512	512	31.25	2048	0.5	1	32	512	0.8
E54	>512	>4096	250	256	62.5	4096	1	1	64	256	0.8
E55	4	>4096	250	<0.125	31.25	128	0.5	1	4	128	0.5
E56	4	>4096	1000	<0.125	250	2048	1	1	64	64	0.6
E57	8	1	125	<0.125	62.5	512	2	1	32	256	0.5
E58	2	>4096	0.5	<0.125	1	64	2	2	4	8	0.2
E59	4	>4096	1000	<0.125	250	4096	2	1	128	8	0.5
E60	8	>4096	62.5	<0.125	125	1024	2	2	8	2	0.4
E61	8	>4096	125	<0.125	62.5	1024	4	1	4	4	0.5
E62	16	>4096	250	<0.125	31.25	1024	1	1	64	2	0.5
E63	4	>4096	62.5	<0.125	31.25	256	4	2	128	32	0.7
E64	8	>4096	125	<0.125	15.6	512	2	1	16	128	0.6
E65	4	>4096	250	<0.125	15.6	512	0.5	1	64	256	0.6
E66	16	>4096	125	<0.125	15.6	512	1	1	16	64	0.6
E67	2	<0.125	62.5	<0.125	15.6	0.25	0.5	1	64	2	0.3
ATCC 8739	8	<0.25	<0.125	<0.125	<0.125	<0.125	0.5	0.5	2	8	-

AK: amikacin, CTR: ceftriaxone, CIP: ciprofloxacin, MRP: meropenem, LE: levofloxacin, CPM: cefepime, CL: colistin, TGC: tigecycline, DO: doxycycline, and AZ: azithromycin.

Table S3: Fold change in the gene expression levels in selected *E. coli* isolates upon treatment with 0.5XMIC of azithromycin.

Isolate	Average fold change in expression levels of genes			
	luxS	***csgA***	***fimA***	***fliC***
E13	1± 0.4	1.5±0.1	$2.11\pm 0.2^{+++}$	1+0.4
E35	-1.2± 0.6	-1.1± 0.05	1.4± 0.06	$-3.33+0.01^{*}$
E51	-1.33± 0.1	1.49± 0.1	$2.2\pm 0.1^{+++}$	$-3.33+0.1^{*}$
E52	-1.67± 0.3	-1.3± 0.3	$2.35\pm 0.3^{++++}$	-1.3+0.3
E58	$-2\pm 0.6^{*}$	-1.5± 0.07	-1.5± 1	-1.3+0.08
E63	1± 0.4	$1.57\pm 0.4^{+}$	$3.5\pm 0.4^{++++}$	1+0.08

* represents the significance of fold decrease at $p < 0.05$. The significance of fold increase is denoted by $^{+}$ at $p < 0.05$, $^{+++}$ at $p < 0.001$, and $^{++++}$ at $p < 0.0001$.