Supplementary Table S1. MinHash similarity matrix representing the proportion of kmers shared by the different *Enterobacter cloacae* isolates characterised in this study.

	A	B	C	D	E	F	G	H	I
A	100.0	99.0	99.2	99.1	99.1	98.6	15.9	15.8	15.8
B	99.0	100.0	99.4	99.3	99.4	99.0	15.9	15.9	15.9
C	99.2	99.4	100.0	99.5	99.6	99.0	15.9	15.9	15.9
D	99.1	99.3	99.5	100.0	99.5	99.0	15.9	15.9	15.9
E	99.1	99.4	99.6	99.5	100.0	99.2	15.9	15.9	15.9
F	98.6	99.0	99.0	99.0	99.2	100.0	15.8	15.8	15.8
G	15.9	15.9	15.9	15.9	15.9	15.8	100.0	99.2	99.3
H	15.8	15.9	15.9	15.9	15.9	15.8	99.2	100.0	99.7
I	15.8	15.9	15.9	15.9	15.9	15.8	99.3	99.7	100.0

Supplementary Table S2. MinHash similarity matrix representing the proportion of kmers shared by the different *Escherichia coli* isolates characterised in this study.

	J	K	L	M	N	O	P	Q
J	100.0	99.9	99.9	99.7	99.9	99.8	99.7	99.5
K	99.9	100.0	99.9	99.8	99.9	99.8	99.7	99.6
L	99.9	99.9	100.0	99.7	99.8	99.7	99.7	99.5
M	99.7	99.8	99.7	100.0	99.8	99.7	99.6	99.4
N	99.9	99.9	99.8	99.8	100.0	99.8	99.7	99.6
O	99.8	99.8	99.7	99.7	99.8	100.0	99.6	99.5
P	99.7	99.7	99.7	99.6	99.7	99.6	100.0	99.4
Q	99.5	99.6	99.5	99.4	99.6	99.5	99.4	100.0