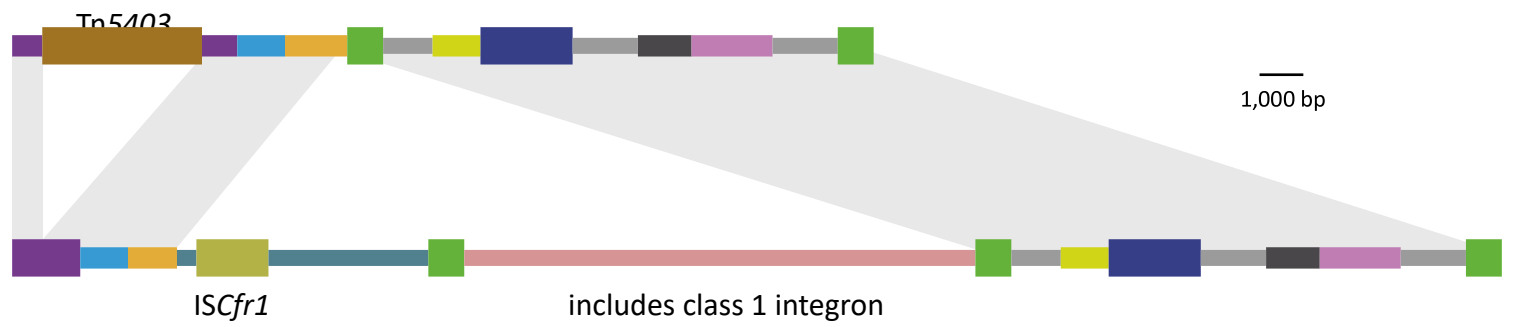


pQEB1



pKP37361-KPC2

Figure S1: Structural variation in the resistance regions of pQEB1 and pKP37361-KPC2 (GenBank accession CP014944). Shared sequences (>99.5% identity) are indicated by grey shading linking the lines that represent each resistance region. Elements unique to each region are labelled. Colours here correspond to those used in Figure 1.

Table S1: pQEB1 variant sequences in the GenBank non-redundant nucleotide database

pQEB1 variant	GenBank accession	Note(s)
pQEB1	PQ162285	Baseline structure reference.
pQEB1_ISKpn26	PQ162286	Acquired ISKpn26 and 4 bp TSD.
pQEB1_merTn::IS4321	PQ162287	Acquired putative mercury resistance transposon and 5 bp TSD. A copy of IS4321 is inserted in the terminal inverted repeat of the transposon.
pQEB1_Tn::IS5	PQ162288	Acquired an unnamed transposon and 5 bp TSD. The transposon is itself interrupted by IS5 and a 4 bp TSD.
pQEB1_inv1	PQ162289	IS26-mediated inversion event 1.
pQEB1_inv1_IS5708	PQ162290	Acquired IS5708 after IS26-mediated inversion event 1.
pQEB1_inv1_arsTn	PQ162291	Acquired putative arsenic resistance transposon and 5 bp TSD after IS26-mediated inversion event 1.
pQEB1_inv1_inv2	PQ162292	IS26-mediated inversion event 2, after IS26-mediated inversion event 1.
pQEB1_inv3_Tn5403	PQ162293	IS26-mediated inversion event 3, and acquired a second copy of Tn5403, which has interrupted the backbone conjugative transfer gene <i>traN</i> .

*TSD = target site duplication

Supplementary File 1:

>pQE1

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