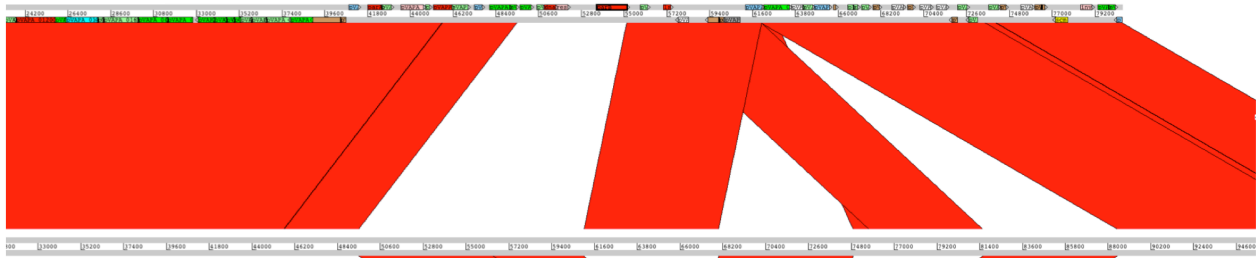


pVAPA1037 (strain 103S)



pVAPA2351  
(PAM 2351 transconjugant, donor PAM 2287)

pRErm46 (PAM 2287) fragment



*TnRErm46*

**FIG S1.** *TnRErm46* insertions in pVAPA from PAM 2351 transconjugant (original donor, MLS<sup>R</sup> equine isolate PAM 2287, Table S2). PAM 2351 has four *TnRErm46* copies as determined by SMRT (PacBio) sequencing. One of them is immediately at the left of the original (position 55,130) insertion and resulted from a secondary transposition into position 49,488 downstream of pVAPA\_0361 in the plasmid partitioning region. According to the plasmid scaffold assembly, this transposition was associated with the deletion of the left region of the original copy of *TnRErm46* (encoding the hypothetical protein, TetR-like regulator and membrane transporter) plus adjacent 5,684-bp plasmid segment encompassing ORFs pVAPA\_0370 to \_0410. Another *TnRErm46* copy was inserted at position 62,049 at the 3' end of ORF pVAPA\_480 (*orf4/virR* virulence regulator) in the plasmid *vap* PAI (8), the transposon's DR providing the stop codon for the gene, thus not obviously affecting its functionality. Interestingly, this insertion was accompanied by a duplication of a portion of the *vap* PAI from pVAPA\_0430 (*lsr2*) to pVAPA\_480 (*orf4/virR*), where a third additional *TnRErm46* insertion took place.