



**Supplementary Figure S1.** Organization and comparison of the relaxase regions from pB and pC. (A) Organization of the putative origins of transfer (*oriT*) and the cognate genes for the RAP proteins (MobC) and the relaxases MobB (MOB<sub>p</sub> family) and TraA (MOB<sub>Q</sub> family). Location and extent of the *oriT* associated to *traA* are only speculative, based on origins associated to other MOB<sub>Q</sub> family relaxases. Needle alignment of the RAP proteins (B) and their associated MOB<sub>p</sub> relaxases (C) from pB and pC, as indicated to the left. Alignments were done with the Needle program at the EMBL-EBI; identical (dark red) and similar (light red) amino acids were boxed using the Sequence Manipulation Suite (<http://www.bioinformatics.org/sms/>). Relevant Pfam domains in the MobB proteins are boxed and described above and below the alignment in C.