



Fig. S1.—World map showing the approximate global locations from which the eleven completely sequenced strains have been isolated. The information on each strain was extracted from the BioSample database.

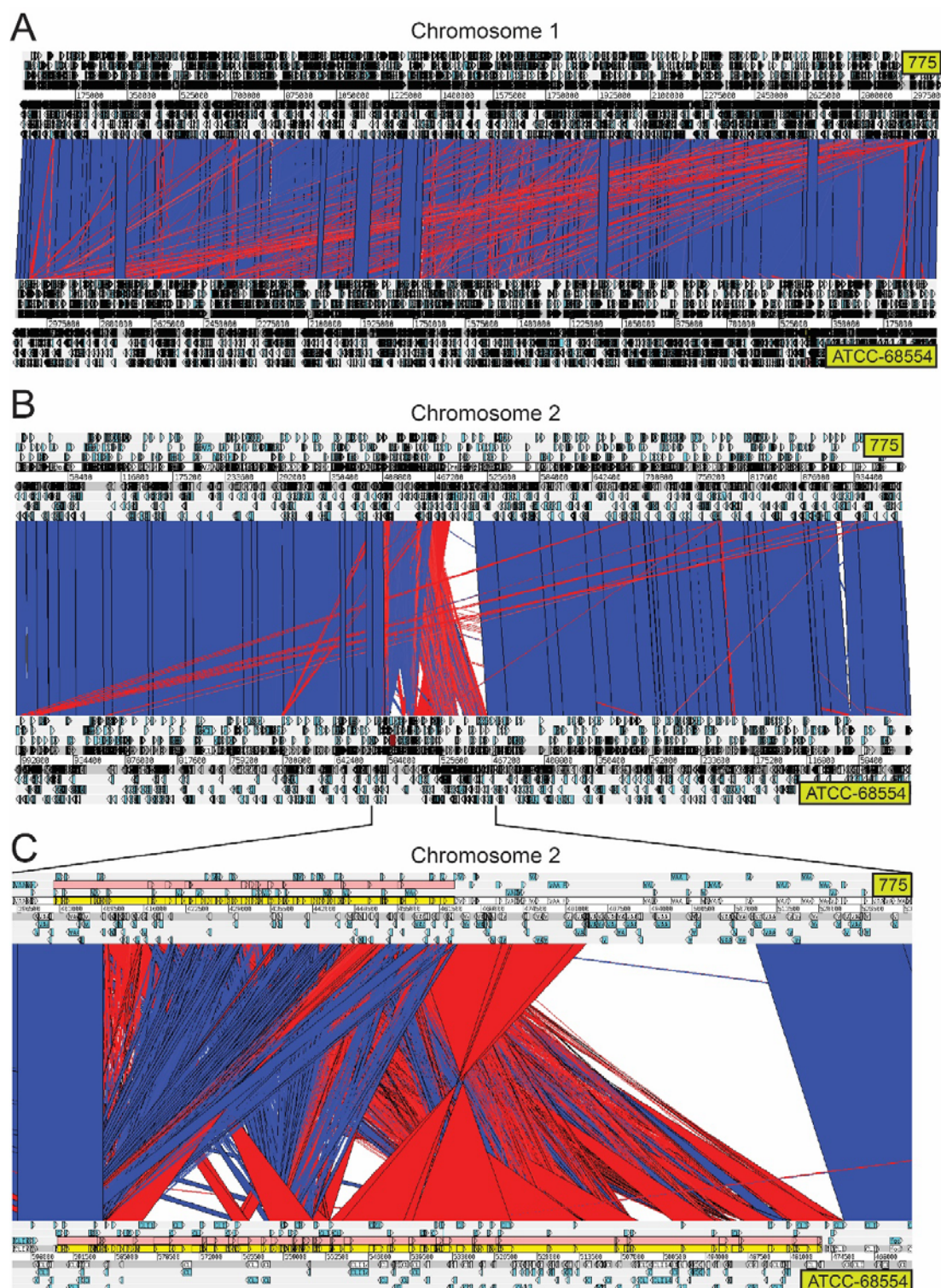


Fig. S2.—Comparison of genome sequences generated from strains ATCC-68554 (this study) and 775. Chromosome 1 (A) and Chromosome 2 (B) from the two strains ATCC-68554 and 775 are shown. In the ATCC Bacteriology Collection, the two strain names are listed as synonymous. Strain ATCC-68554 was acquired from ATCC and sequenced in this study to verify this relationship. Overall the comparison shows that the two sequences are highly similar, except for a ~120kbp region (C) on Chromosome 2. This region represents a well-described superintegron (see Cambray et al 2010). The *attC*-containing regions (i.e., the superintegron) are marked in yellow.

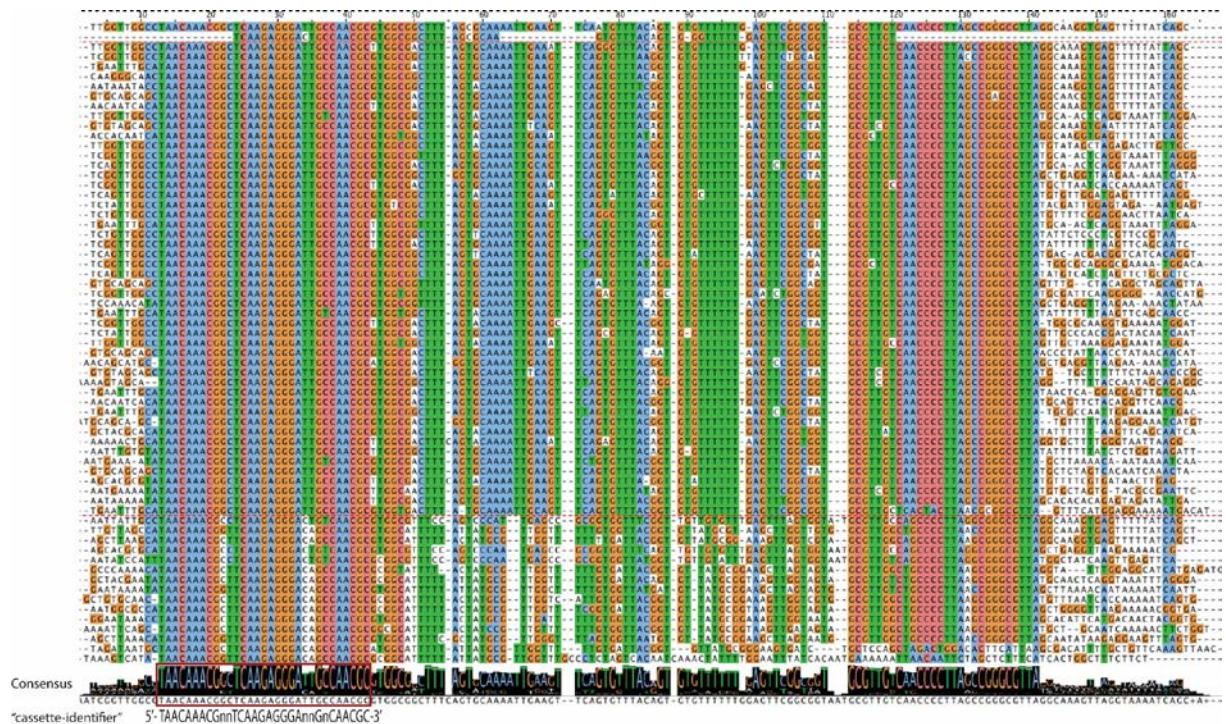


Fig. S3: Alignment of *attC*-sites from strain NB10 showing the consensus sequence of the conserved 31-nt region used as gene cassette (VAR) identifier within the superintegrants.

VchIntIA-gi | 3095165 | gb|AAC38424.1 |
pacbVIB12 (02) c2_VangIntIA
WP_017043784 (VangIntIA)
pacbVIB43 (01) c2_VangIntIA
S349 (01) c2_VangIntIA
JLL237 (01) c2_VangIntIA
CNEVA_NB11008 (03) c2_VangIntIA
9011286 (01) c2_VchIntIA-like
VanB10 (01) c2_VangIntIA_Ntrunc (ISVa5)
ATCC68554 (01) c2_VangIntIA_Ntrunc (ISVa5)
879116 (01) c2_VangIntIA_Ntrunc (ISVa5)
9011287 (01) c2_VangIntIA_Ntrunc (ISVa5)

VchIntIA-gi | 3095165 | gb|AAC38424.1 |
pacbVIB12 (02) c2_VangIntIA
WP_017043784 (VangIntIA)
pacbVIB43 (01) c2_VangIntIA
S349 (01) c2_VangIntIA
JLL237 (01) c2_VangIntIA
CNEVA_NB11008 (03) c2_VangIntIA
9011286 (01) c2_VchIntIA-like
VanB10 (01) c2_VangIntIA_Ntrunc (ISVa5)
ATCC68554 (01) c2_VangIntIA_Ntrunc (ISVa5)
879116 (01) c2_VangIntIA_Ntrunc (ISVa5)
9011287 (01) c2_VangIntIA_Ntrunc (ISVa5)

VchIntIA-gi | 3095165 | gb|AAC38424.1 |
pacbVIB12 (02) c2_VangIntIA
WP_017043784 (VangIntIA)
pacbVIB43 (01) c2_VangIntIA
S349 (01) c2_VangIntIA
JLL237 (01) c2_VangIntIA
CNEVA_NB11008 (03) c2_VangIntIA
9011286 (01) c2_VchIntIA-like
VanB10 (01) c2_VangIntIA_Ntrunc (ISVa5)
ATCC68554 (01) c2_VangIntIA_Ntrunc (ISVa5)
879116 (01) c2_VangIntIA_Ntrunc (ISVa5)
9011287 (01) c2_VangIntIA_Ntrunc (ISVa5)

VchIntIA-gi | 3095165 | gb|AAC38424.1 |
pacbVIB12 (02) c2_VangIntIA
WP_017043784 (VangIntIA)
pacbVIB43 (01) c2_VangIntIA
S349 (01) c2_VangIntIA
JLL237 (01) c2_VangIntIA
CNEVA_NB11008 (03) c2_VangIntIA
9011286 (01) c2_VchIntIA-like
VanB10 (01) c2_VangIntIA_Ntrunc (ISVa5)
ATCC68554 (01) c2_VangIntIA_Ntrunc (ISVa5)
879116 (01) c2_VangIntIA_Ntrunc (ISVa5)
9011287 (01) c2_VangIntIA_Ntrunc (ISVa5)