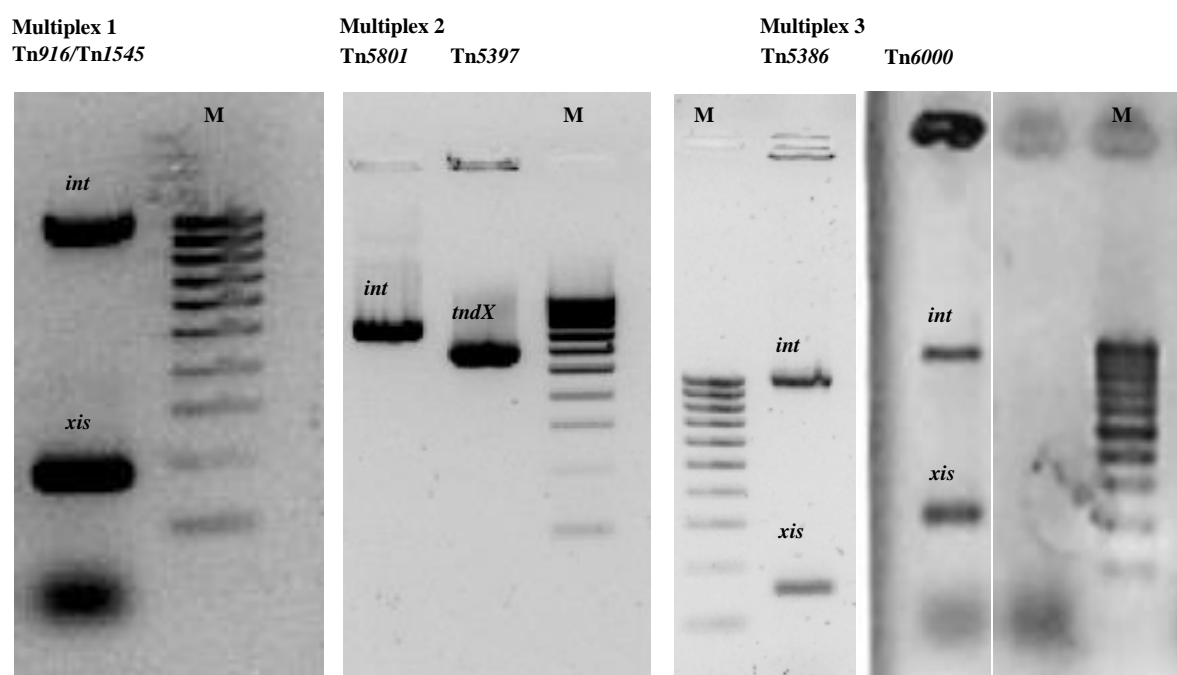


Table S1. PCR typing method for the detection of diverse Tn916-like conjugative transposons



PCR reaction	Primers	Sequence (5'-3')	Amplification conditions	Amplicon size (bp)	GenBank accession No.	Control isolates		
Multiplex 1 Tn916/1545	Int ₉₁₆ -F	GCGTGATTGTATCTCACT	95°C- 10'- 1 cycle; 94°C- 30", 52°C-30",72°C-30"- 25 cycles; 72°C-10'- 1 cycle	1046	U09422.1	<i>E. faecium</i> H638466 (this study)		
	Int ₉₁₆ -R	GACGCTCCTGTTGCTTCT						
	Xi ₉₁₆ -F	AAGCAGACTGACATTCCTA		194				
	Xi ₉₁₆ -R	GCGTCCAATGTATCTATAA						
Multiplex 2 Tn5397	tndX-F	ATGATGGGTTGGACAAAGA	95°C- 10'- 1 cycle; 94°C- 30", 55°C-30",72°C-45"- 25 cycles;72°C-10'- 1 cycle	611	AF333235	<i>E. faecium</i> H446511 (this study)		
	tndX-R	CTTTGCTCGATAGGCTCTA						
	Tn5801 Int ₅₈₀₁ -F	CTGTTTCCGATATTGAGC		857			AF329848.1	<i>E. faecium</i> E240 (this study; KP001176.1)
	Int ₅₈₀₁ -R	GTTTCGCAAGTAGTCTACAG						
Multiplex 3 Tn6000	Int ₆₀₀₀ -F	CATCGAGTCTAACCGATTGT	95°C- 10'- 1 cycle; 94°C- 30", 55°C-30",72°C-30"- 25 cycles; 72°C-10'- 1 cycle	869	FN555436.1	<i>E. faecalis</i> C386 (JN208881.1)		
	Int ₆₀₀₀ -R	GACCCAAACGAACCTTGACT						
	Xi ₆₀₀₀ -F	CGAAGTATTAACCGAACAGA		203				
	Xi ₆₀₀₀ -R	TATCATCGCGATCAAAAACGA						
	Tn5386 Int ₅₃₈₆ -F	CTTGTTCTACGGACAGAGT		1021			DQ321786.1	<i>E. faecium</i> DR344R ²⁵
	Int ₅₃₈₆ -R	AGCCGTGAGCGTAATAATTC						
Xi ₅₃₈₆ -F	ATACTGATGTGCCTGTATGG	155						
	Xi ₅₃₈₆ -R	TCGCTTTATCTGAATACGG						

Abbreviations: M, DNA marker- 100bp (Hyperladder IV 100bp-BioRon); *Int*, integrase; *xis*, excisionase, *tndX*, recombinase site-specific resolvase.

B 15	Sag (4)	GBR	-	G1420T	-	-	T6270C	-	Δ8070-8077, T8510C	-	-	-	-	-	-	-
B 20	Sag (1)	unk	-	-	-	-	-	-	Δ8070-8077	-	-	-	-	-	-	-
B 15, B 16, B 17, B 20	Efm (7), Efs (4), Sag (33), Sth (1)	USA (B20), GBR (B16), BEL (B16), ARG (B15), NOR (B15), unk (B17)	-	-	G3107T	-	-	-	Δ8070-8077	-	-	-	-	-	-	-
B 17	Sag (1)	unk	-	-	Δ2237-2319	-	-	-	Δ8070-8077	-	-	-	-	-	G13370A	-
B 20	Sag (1)	unk	-	-	-	-	-	-	-	-	-	-	ΔTC11143	-	-	A13905G
B 19	Sag (1)	unk	-	-	-	-	-	-	Δ8070-8077	T8953C	-	-	-	-	-	-
B 21	Sag (1)	USA	-	A1668C	Δ2237-2319	-	-	-	Δ8070-8077	-	-	-	A10355C	-	-	-
B 23	Efs (3)	GBR, FRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B 23	Efs (2)	unk	-	-	-	-	-	-	-	-	-	-	A12056G	-	-	-
B 23	Efs (1)	unk	-	-	-	-	-	-	-	-	-	-	G12537C	-	-	-
B 23	Efs (2)	USA, GBR	-	-	-	-	C5514T	-	-	-	-	C9645T	-	-	C12525T	-
B 23	Efs (1)	USA	-	-	-	-	-	-	-	-	-	-	G10714T	-	-	-

** The position of each change is given from the alignment of the consensus sequences.

Δ, deletion; IN: insertion;

*These nucleotide changes are related to variants of type A (B18 is a recombinant variant).

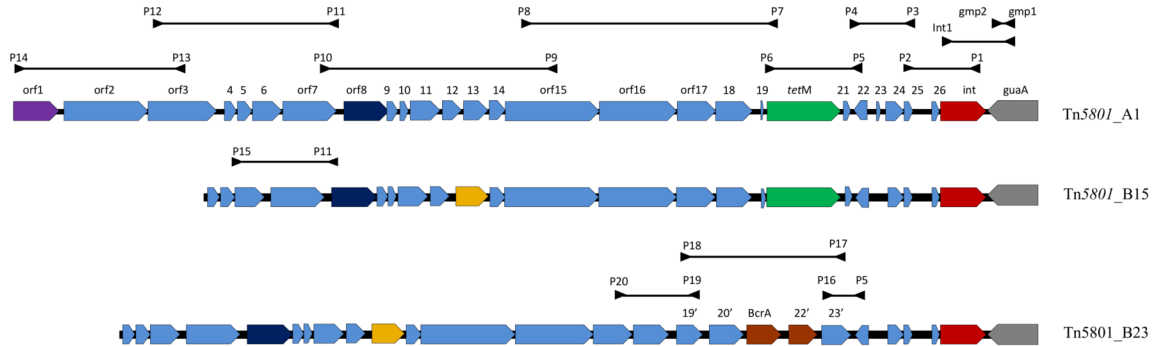


Figure S1

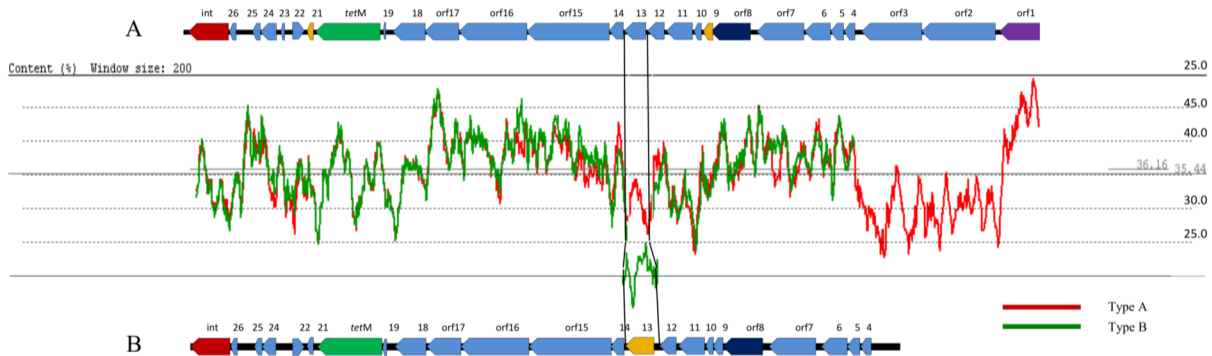


Figure S2

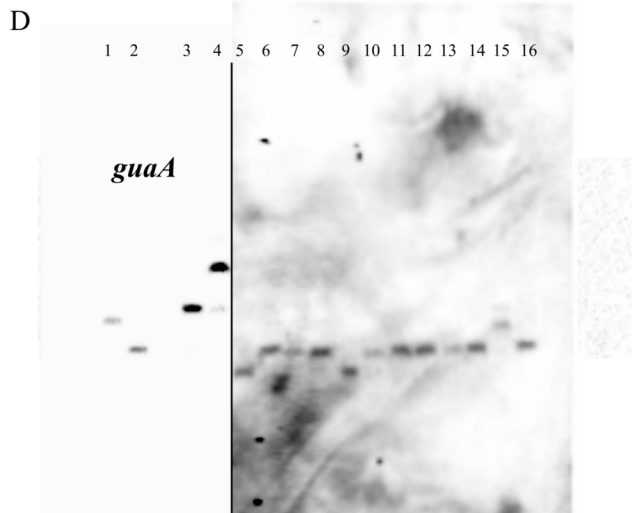
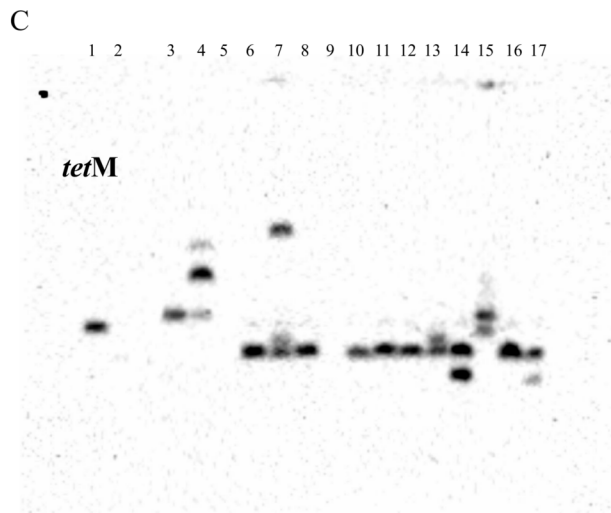
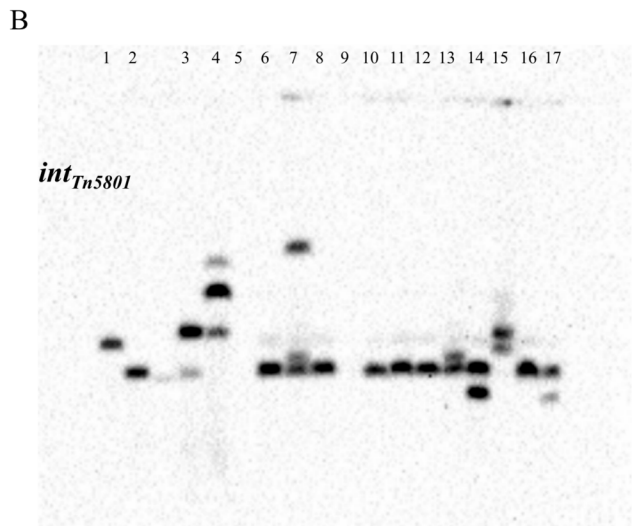
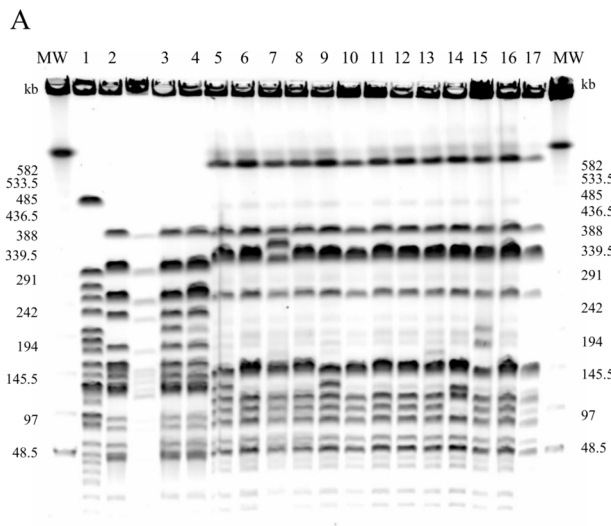


Figure S3

FIG S1. Characterization of Tn5801: PCR strategy.

FIG S2. GC% content of Tn5801 A1 and B15.

FIG S3. Location of Tn5801 markers *int*_{Tn5801}, *tet*(M) and *guaA* genes. *Sma*I-PFGE of *E. faecalis* donors, recipients and tranconjugant strains (A); hybridization of *Sma*I digested genomic *E. faecalis* DNA with a *int*_{Tn5801}, *tet*(M) and *guaA* probes (panels B, C, D, respectively). Primary transconjugants were represented in lines 3, 4, 10, 11 and 12; and secondary transconjugants in lines 6, 7, 8, 13, 14, 15, 16 and 17. MW= molecular weight marker (PFGE-standard lambda ladder, 48.5–1,000 kb; New England Biolabs); lane 1, Ef1; lane 2, *Efs* strain JH2-2; lane 3, *Efs* strain JH2-2::Tn5801_1; lane 4, *Efs* strain JH2-2::Tn5801_2; lane 5, *Efs* strain OG1SS; lane 6, *Efs* strain OG1SS::Tn5801_1.1; lane 7, *Efs* strain OG1SS::Tn5801_1.2; lane 8, *Efs* strain OG1SS::Tn5801_1.3; lane 9, *Efs* strain OG1RF; lane 10, *Efs* strain OG1RF::Tn5801_1; lane 11, *Efs* strain OG1RF::Tn5801_2; lane 12, *Efs* strain OG1RF::Tn5801_3; lane 13, *Efs* strain OG1SS::Tn5801_2.1; lane 14, *Efs* strain OG1SS::Tn5801_2.2; lane 15, *Efs* strain OG1SS::Tn5801_2.3; lane 16, *Efs* strain OG1SS::Tn5801_2.4; lane 17, *Efs* strain OG1SS::Tn5801_2.5. Panel D comprises two different hybridization experiments.