Table S1: Primer sequences used in this study

Primer name	Primer sequence	Source
Primers for insertions mutants		This study
Bbr_0651f (500bp insert product)	TGCGGAAAGCTTCGGTTCATCGCGAGGGACAG	This study
Bbr_0651r	CTATGCTCTAGACTCCATCTGCAACCATAG	This study
Bbr_1586f (400bp insert product)	TGCGGAAAGCTTGTATACAAATTCATCGAGCAC	This study
Bbr_1586r	CTATGCTCTAGAGCATGATGGTGTCGAGGTCG	This study
Pori19f	ATTGTGAGCGGATAACAATTTCAC	Law *et al.* (1995)
Pori19r	GATTAAGTTGGGTAACGCCAG	Law *et al.* (1995)
Primers for complementation study and additional plasmid-encoded gene tests		
Bbr_0651fhind3	TCGCTTAAGCTTGCTGCGCTTGTTCCATGACC	This study
Bbr_0651rxbaI	GAACTGTCTAGACTCGTTGGTGCCCGTCGCCG	This study
Bbr_0651+ 0650r2xbaI	CTGCCATCTAGAGACCGATGAGGCCACCGTG	This study
Bbr_1586fhind3	TCGCTTAAGCTTGAGACCTTCGACCTTCAGCCCAG	This study
Bbr_1586xbaI(1586 complement strain)	GAACTGTCTAGAGCGCCGCCCGTAACCAGAACAGT	This study

References

Law, J., G. Buist, A. Haandrikman, J. Kok, G. Venema, and K. Leenhouts. 1995. A system to generate chromosomal mutations in Lactococcus lactis which allows fast analysis of targeted genes. Journal of bacteriology **177:**7011-7018.