

Additional File 1: Nucleotide sequences of primers used in this study.

Genes	Description	Primer sequence (5' – 3')	
		Forward	Reverse
<i>relA</i>	Guanosine tetra (penta)-phosphatesynthetase	ACAAAAAGGGTATCGTCCGTACAT	AATCACGCTTGGTATTGCTAAT TG
<i>brpA</i>	Biofilm-regulatory protein	GGAGGAGCTGCATCAGGATTC	AACTCCAGCACATCCAGCAAG
<i>gtfC</i>	Water soluble and insoluble glucan production	GGTTTAACGTCAAATTAGCTGTATTAG C	CTCAACCAACCGCCACTGTT
<i>comDE</i>	Competence-stimulating peptide	ACAATTCCTTGAGTTCCATCCAAG	TGGTCTGCTGCCTGTTGC