

Supplemental Table 1. Plasmids and primers used in this study.		
Name	Description plasmid/5'to 3'sequence primer	gene id
pUC21	Vieira J, Messing J. <i>Gene</i> 1991, 100:189-194.	
pCR [®] -Blunt II -TOPO [®]	Invitrogen	
pCR [®] 4-TOPO [®]	Invitrogen	
pAN52-1yes	TNO, the Netherlands	
pIC20-arg	I. Nikolaev, Danisco A/S	
pExpress1	I. Nikolaev, Danisco A/S	
pCDA21	Chaver Roche MK, Ghigo JM, d'Enfert C. <i>Nucleic Acids Res</i> 2000, 28(22):E97	
pSFH1	3.8 kb <i>araR</i> fragment in pCR [®] -Blunt II-TOPO [®]	
pSFH3	<i>araR</i> disruption construct	
pSFH4	<i>xlnR</i> disruption construct	
pExPntR	2.5 kb <i>araR</i> fragment in pExpress1	
R1.7 T40	GCGGGGAGCATAATATATACAGGTCCAGTT	
R1.7 B3795	TGAATCTCGTCTTGGAAGGATTCAAGATG	
R1.7 <i>SpeI</i> T603	GGACTAGTGCAGGATGATCGCATCGACAATTATATAAG	
R1.7 <i>NdeI</i> B4008	GGAATTCCATATGAAAGTCTGGAAGGAATCAGGGAAGCG	
<i>xlnR</i> T245 <i>XhoI</i>	CCGCTCGAGGCGGTCTGATGACCCTGAGTTGCAAGC	
<i>xlnR</i> B2067 <i>KpnI</i>	CGGGGTACCCGCGGACGGAGGATGGCTTGAAAGTA	
<i>xlnR</i> T3501 <i>BamHI</i>	CGGGATCCTCAGGACGGCGAGCGAGAAAAACGAGG	
<i>xlnR</i> B5510 <i>NotI</i>	ATAAGAATGCGGCCGCAAAGACGCTGCCGCTGCCGTGAAAGCCC	
<i>argB</i> T1 <i>KpnI</i>	GGGGTACCCAGTCTCCCTTCCAGCCAGTCGACGG	
<i>argB</i> B2690 <i>BamHI</i>	CGGGATCCCCGAGCTTGTGATGCCGAGGACTGTTT	
<i>ladA</i> probe dw	GATGCATTGGTCCCATGATC	AN0942
<i>ladA</i> probe up	GACCTTAATGGCTCCTGTCTT	
<i>larA</i> probe dw	CTCGGCAAGAAGGTTACGC	AN7193
<i>larA</i> probe up	CTTGGGAATGACCGAGTGG	
<i>lxA</i> probe dw	CGCTCCCGAACTGAAGAA	AN10169
<i>lxA</i> probe up	CGCAACCTCCTCCGTAAAC	
<i>xdhA</i> probe dw	TCGTCTCGAAGGCATTC	AN9064
<i>xdhA</i> probe up	TTGATCTGCCCAGAAGCC	
<i>xyrA</i> probe dw	ACCGTCAAACCTCAACAGCG	AN0423
<i>xyrA</i> probe up	CGAACCCAACAACATCCAG	
<i>xkiA</i> probe dw	ACTGGTCCTCAGATTCTG	AN8790
<i>xkiA</i> probe up	TCTTCTCAATGAACTCCTC	