

Table S1. PCR primers used in this study.

Purpose	Gene	Primer name	Primer sequence (5'-3')
Contamination check	<i>IS150</i>	EcIS150F1	AACCCTCTCACTTAAAGCAGCG
		EcIS150R1	ACACTCCACCACAGCATTATCC
qPCR	<i>rpoB</i>	EcrpoBF1	AAGATCCTGAAGGGCAGTATGG
		EcrpoBR1	AAGGCGGTAGCTGACGTATTG
	<i>IS1</i>	EcIS1F1	GACATCAGCGCTATCTCTGCTC
		EcIS1R1	GTATGCGCGAGGTTACCGAC
	<i>IS2</i>	EcIS2F1	GTCATTCTCAGACGAACCGATG
		EcIS2R1	CATACCCGACGATAACCATACG
	<i>IS3</i>	EcIS3F1	GGAGCAGGATTTTTACGCCAG
		EcIS3R1	GACATTGACCAGCCAATAACGG
	<i>IS4</i>	EcIS4F1	TCGACCCCGAACTCATCTCTC
		EcIS4R1	GCCATGCCAACAATACACCAG
	<i>IS5</i>	EcIS5F1	ACGAGCATGACCTCAATCAGC
		EcIS5R1	GATCAGCCAGTCCACATCCAC
	<i>IS30</i>	EcIS30F1	CCCGGAACGATCTTCACTATG
		EcIS30R1	TGACAAACCAGCTCGTATCTCC
	<i>IS186</i>	EcIS186F1	TTTGAGCTAACCGACAGCAGAG
		EcIS186R1	AAGCAAGTGAGCGGATACATTC
<i>IS911</i>	EcIS911F1	CCTGAACAGAGGTGATATGCTCAC	
	EcIS911R1	GATTCGCGTTTAAACTCTGCG	
b1345	EcIS(b1345)F1	CCTGCTCTTGAAGCACTGAAGG	
	EcIS(b1345)R1	TACACACCCTGGGCATGAAAAC	
b1374	EcIS(b1374)F1	GGATCGCCTTGGTTGTAATGC	
	EcIS(b1374)R1	TTTTCTGTTGGACTGGTCAGG	
b1579	EcIS(b1579)F1	AAAACAGTTTCCCTCCTCACGC	
	EcIS(b1579)R1	ATGACGGCACGGTATGTGTTG	

Detecting transposition activity	IS1 (locus b0021/b0022)	EcIS1F2 EcIS1R2	TCAGTCTGAAAAGGCTCGTAAG CGGAGGCGCTTTATTTAACTC
	IS1 (locus b0264/b0265)	EcIS1F3 EcIS1R3	GGTCTATAACCTTGAACGCCC CACAGTATCAGAAACCGCAAAG
	IS1 (locus b0274/b0275)	EcIS1F4 EcIS1R4	GTTCAACAGAGCCGGATAGTTC ACTGAATGCCGTCATACATCC
	IS1 (locus b4516/b0988)	EcIS1F5 EcIS1R5	GTGGTTGAGGTGTTATGAGAACC GACGGTCGTAAAGAAGTTCAGG
	IS1 (locus b1893/b1894)	EcIS1F6 EcIS1R6	CAATAAACGTCTTGTCAACGGG AACTGAGTAATCGTCTGGTGCC
	IS1 (locus b3444/b3445)	EcIS1F7 EcIS1R7	GAACAACAAGGAAGCATCTCC TGACCTATACGCTGAACACCAC
	IS1 (locus b4294/b4576)	EcIS1F8 EcIS1R8	ATACTCCAGACGGAACAGCAG GAGATCAAACAAACAGCAGCC
	IS2 (locus b0360/b0361)	EcIS2F2 EcIS2R2	TATCCTGACGAAAATCCTGGC TAGCCGCTTCGGTATCTTCAG
	IS2/IS30 (locus b1402-b1404)	EcIS2F3 EcIS2R3	ATCAGTACCAACTCCCACACC GATAATAACGTGACGCTGGATG
	IS2 (locus b1996/b1997)	EcIS2F4 EcIS2R4	GAATACCGCCTCCGTTTTTTTC GGATAGTTTCTACTGCAACCGC
	IS2 (locus b2860/b2861)	EcIS2F5 EcIS2R5	CGCGAAGCTAAAGTCAATGAAC GTGTTGATGCAAGTGGTAACG
	IS2 (locus b3044/b3045)	EcIS2F6 EcIS2R6	CAGAGCGGCGAAGTAACTTTAG TACCCATTGGAGGTCAAGGTG
	IS2 (locus b4272/b4273)	EcIS2F7 EcIS2R7	CTAGTGCCTCTTTCAACGCAAG GTGTGCCACTGATTATTACCGC
	IS3 (locus b0299)	EcIS3F2 EcIS3R2	GTTATATTCGGGCTTCTGGCTG GAGGACTGATGGCATTTACCAC
	IS3 (locus b0372)	EcIS3F3 EcIS3R3	TCTACGCAGAGAGATAACTCCCTC GGTTCTGAATGGGATACTACAGGTC

IS3 (locus b0541)	EcIS3F4 EcIS3R4	CAGTTGGATAGAGCAACGACC CCTGTAGGAATATAAGCCAGCG
IS3 (locus b1026)	EcIS3F5 EcIS3R5	TGCCACCAGAGGTTGTGTAAG GCGTTAACTGGCGATAATCC
IS3 (locus b2089)	EcIS3F6 EcIS3R6	ATGAAATACTTCCGGCTCTCG TTGGATGAACTACTCCAGCCC
IS5 (locus b0259)	EcIS5F2 EcIS5R2	GTTCACTGCCACCATAGTCATC TGCGTCTGATAACACAACCAG
IS5 (locus b0552)	EcIS5F3 EcIS5R3	AGGTTTGTTCAGGTACGTCAGC ATTCATGTCACTGGCAGGTAAG
IS5 (locus b0656)	EcIS5F4 EcIS5R4	TACCTACAACACCATCATCACG GAGCGTCATCCATCATAAAGG
IS5 (locus b1331)	EcIS5F5 EcIS5R5	TTTCAGCATCTCACGTACAGC CCAGCAACACAGTAAAGACCAG
IS5 (locus b1370)	EcIS5F6 EcIS5R6	GCATCACTGGCTGACTTCTTC GTATTAAGCAATTCGGCTGGAC
IS5 (locus b1994)	EcIS5F7 EcIS5R7	AAAGCTGTGTCTGAGAATGCAG CTGTTCCATCGCCTGATAATC
IS5 (locus b2030)	EcIS5F8 EcIS5R8	GTTCATTTCCCTCGGGTACTTG ACTGCTCAGTTCACCGTTATTC
IS5 (locus b2192)	EcIS5F9 EcIS5R9	GACATTGAGTTTACGCAGCAG CATCATTCCTCTGACTGAAAC
IS5 (locus b2982)	EcIS5F10 EcIS5R10	GTTGCAGAGAGTATCGAACGG TAGGCTCCAGTAATGTCGTGAG
IS5 (locus b3218)	EcIS5F11 EcIS5R11	TACGCTTATCACAGCTTTCCC TTCACTTGGGCTAACAACCAG
IS5 (locus b3505)	EcIS5F12 EcIS5R12	CTCACCGCATTGGTGTAGTAAG TAATACGCTGGAGATGATCCG
IS5 (Lac ⁻ insertion)	EclacZF6 EclacYR1	CGTCAGTATCGGCGGAATTC TCCGTTATGATATGTTGGTCCG

IS30/IS911 (locus b0256/b4587)	EcIS5F2 EcIS5R2	TCGTTAAATCCCCGCTGTATG CTGGTAGTGGCCTGAGAGTAATTC
IS30/IS911 (locus b4284/b4623)	EcIS5F3 EcIS5R3	CATAAAGTGAAGGCAGACGGG AAGTATGTGGGAATTGCCAGC
IS186 (locus b0016)	EcIS5F2 EcIS5R2	TCAGGTTTCAGGTTAAACAGCAC GGATCGGCATAGTTAAAAGCC
IS186 (locus b0582)	EcIS5F3 EcIS5R3	AGCTCCAGCATACTTTCGGTG TGCGGTTTAGCCTTTTCTCTG
IS186 (locus b2394)	EcIS5F4 EcIS5R4	GAAAATTGCTTCCACGCTCTC CCGGATATGCCAACTACGAAC