

S4 Table. The main alignment results of pNZ712 and pSH74 to known lactococcal plasmids.

NCDO712 plasmid	Position	Alignmet with plasmid	Position	Sequence identity in %/SNPs	Annotation
pNZ712	12054...21871; 1868...22735	pND306 (accession NG_035558.1) of <i>L. lactis</i> subsp. <i>lactis</i> 1252D (93)	1...9818; 9782...10650	99%, 3 SNPs, 1 gap	Copper resistance associated <i>lcoRSABC</i> genes
	12444...18177	pSK11P (accession NC_017500.1 and NC_008505.1) from <i>L. lactis</i> subsp. <i>cremoris</i> SK11 (8)	49965...55679	99%, 19 gaps and 8 SNP	<i>lcoRSA</i> genes
	46793...49826	pAH82 (accession AF243383)	7830...4798	99%, 3 gaps and 17 SNPs	CDS of unknown function
	25241...32960	pMRC01 from <i>L. lactis</i> DPC3147	45635...53355	99%, 3 gaps and 20 SNPs	Hypothetical and putative proteins
	44946...48234	pNP40 (accession DQ534432, AY530537)	61337...58037	93%, 50 gaps and 170 SNPs	<i>mobD</i>
pSH74	6395...6959	pKP1 (accession NC_016042.1)	8427...8991	99%, 6 SNPs	Transposase <i>IS1216</i>
	6398... 6959	pK214 (accession NC_009751.1) from <i>L. lactis</i> K214	29824...29263	99%, 6 SNPs	<i>tmpA</i>
	6395...6959	pSK11B (accession NC_013551)	9605...9044	99%, 6 SNPs	<i>tmp1-IS6</i>
	4793...5487	pCV56A (accession NC_017483.1) from <i>L. lactis</i> CV56	8618...9312	99%, 10 SNPs	Acetyltransferase
	6398...6959	pIBB-JZK (accession NC_024965.1) of <i>L. lactis</i> ILIBB-JZK	8369...7808	99%, 4 SNPs	Transposase <i>IS1216</i>
	5564...6310	pGdh442 (accession NC_009435) of <i>L. lactis</i> NCDO1867	33352...32607	98%, 13 SNPs, 3 gaps	Transposases <i>tmpR</i>
	5563...6275	pCIS5 (accession NC_019432) from <i>L. lactis</i> UC509.9	7678...8390	99%, 8 SNPS	Resolvase/integrase