

Supplementary Materials

Table S1. Plasmid vectors and bacterial strains used herein.

	Profiles	Reference
Plasmids		
pNZ8110	cm ^r , <i>E. coli</i> - <i>L. lactis</i> shuttle vector with the usp45 signal sequence and the <i>nisA</i> promoter	NIZO Food Research, Netherlands
pNZ-Δsp- <i>napA</i>	cm ^r , pNZ8110 carrying <i>napA</i> and deleting the usp45 signal sequence	CGMCC* No.14933
pMAL-c2x-linker- <i>napA</i>	ap ^r , pMAL-c2x (NEB, England) carrying a linker (5'-GGAGGCGGT-3') and <i>napA</i> gene	Previous study
Strains		
<i>L. lactis</i> NZ3900	Derivatives of <i>L. lactis</i> subsp. cremoris MG1363, lacF ⁻ , pepN::nisRnisK, food grade	NIZO Food Research, Netherlands
<i>L. lactis</i> NZ3900 -pNZ-sp- <i>ltB</i>	<i>L. lactis</i> NZ3900 harboring pNZ-sp- <i>ltB</i>	Previous study
<i>L. lactis</i> NZ3900 -pNZ-Δsp- <i>napA</i>	<i>L. lactis</i> NZ3900 harboring pNZ-Δsp- <i>napA</i>	CGMCC* No.14933
<i>E. coli</i> TB1 -pMAL-c2x-linker- <i>napA</i>	<i>E. coli</i> TB1 harboring pMAL-c2x-linker- <i>napA</i> , amp ^r	Previous study
<i>H. pylori</i> MEL-Hp27	<i>cagA</i> ⁺ , <i>vacA</i> ⁺ , isolated from a Chinese patient with chronic atrophy gastritis	CGMCC* No.1338
<i>H. pylori</i> 11637	<i>cagA</i> ⁺ , <i>vacA</i> ⁺ , type strain	NCTC11637

*CGMCC, China General Microbiological Culture Collection Center