

Table S1. Primers and PCR products used in this study.

Primer or PCR product	Nucleotide sequence (5'-3') or description ^a	PCR product amplified
Primer		
GAR-F	CATAGAGCTCTGTAAGGAGG	A, B, C, D
GARAIM-R	AAGTTAAGCTTGATTACATAG	A, D, E
GARQIM-R	GTAAAGCTTGTATCAGTCTAAG	B, C
MGPJ-F	TGGATTTGTGAGCTTGGA	
MGPJ-R	TTTGTGCGTAGTACCGGTTG	
GARF-BSPHI	ATCCCACTCATCATGAAAAAAAAGATTATCTC	E
NZA1-F	CCCTGACGAAAGTCGACGCCAATAGTTACC	F, J, K
NZA2-R	CATGGTGAGTGCCTCCTATAATTATTTG	F
NZC1-F	CTTCTTGAAACAAAATTAGAAAACCAAG	G
NZC2-R	AATAAGGGTAACTATTGCCGTCGACTTCG	G, J, K
QB1-F	CAAAATAAATTATAAGGAGGCACTCACCATGAAAAAAAAGATTATCTCAG	H
QB2-R	CTTGGTTTCTAATTGGTCAAAGAAAGCTTGTATCAGTCTAAGTAAC	H
QAB1-F	CAAAATAAATTATAAGGAGGCACTCACCATGAAAAAAAATCATTTCAG	I
QAB2-R	CTTGGTTTCTAATTGGTCAAAGAAAGCTTGTATTACATTGAAAATG	I
NZPJ-F	TGTCGATAACGCGAGCATAA	
NZPJ-R	CAAAGCAACACGTGCTGTAA	
PCR product		
A	544-bp <i>SacI/HindIII</i> fragment containing the P ₃₂ ribosome binding site and the SP _{usp45} fused to mature <i>lgnA</i> and <i>lgnI</i>	
B	617-bp <i>SacI/HindIII</i> fragment containing the P ₃₂ ribosome binding site and the SP _{usp45} fused to mature <i>garQ</i> and <i>garI</i>	
C	1,139-bp <i>SacI/HindIII</i> fragment containing the P ₃₂ ribosome binding site and the SP _{usp45} fused to mature <i>lgnA</i> and <i>lgnI</i> , and mature <i>garQ</i> and <i>garI</i>	
D	1,139-bp <i>SacI/HindIII</i> fragment containing the P ₃₂ ribosome binding site and the SP _{usp45} fused to mature <i>garQ</i> and <i>garI</i> , and mature <i>lgnA</i> and <i>lgnI</i>	
E	524-bp <i>BspHI/HindIII</i> fragment containing the SP _{usp45} fused to mature <i>lgnA</i> and <i>lgnI</i>	
F	1,254-bp fragment of pNZ8048c (overlaps PCR product G)	
G	2,089-bp fragment of pNZ8048c (overlaps PCR product F)	
H	636-bp fragment containing the SP _{usp45} fused to mature <i>garQ</i> and <i>garI</i> (overlaps PCR products F and G)	
I	1,158-bp fragment containing the SP _{usp45} fused to mature <i>garQ</i> and <i>garI</i> , and mature <i>lgnA</i> and <i>lgnI</i> (overlaps PCR products F and G)	
J	3,888-bp circular fragment (corresponding to plasmid pNJFQI)	
K	4,410-bp circular fragment (corresponding to plasmid pNJFQIAI)	

^a Cleavage sites for restriction enzymes are italicized; P₃₂ ribosome binding site is shown in bold.

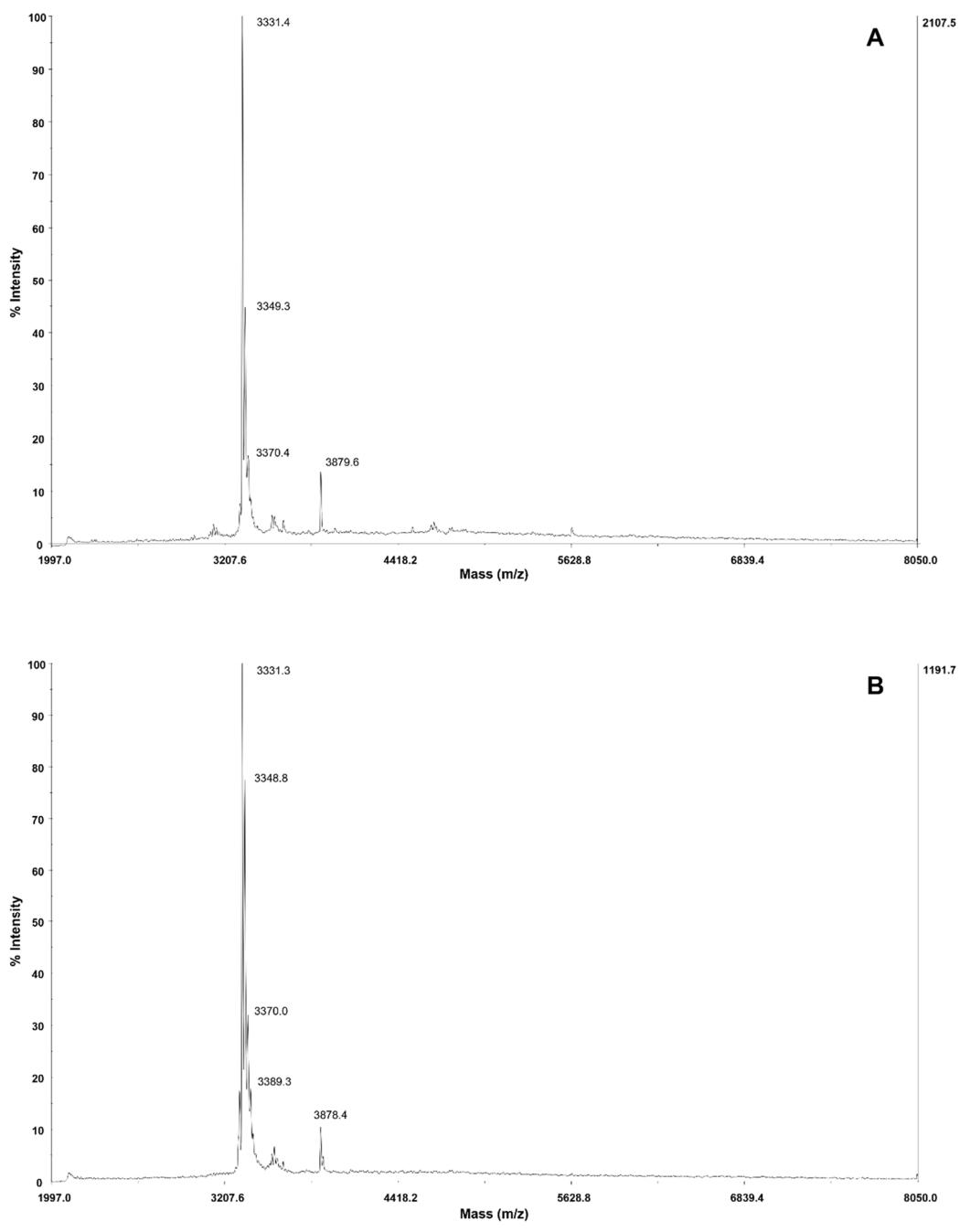


Figure S1. MALDI-TOF MS analysis of purified NisZ from *Lactococcus lactis* subsp. *cremoris* WA2-67 (pJFQI) (A), and *Lactococcus lactis* subsp. *cremoris* WA2-67 (pJFQIAI) (B). Numbers indicate the molecular mass in daltons of major peptide fragments.