

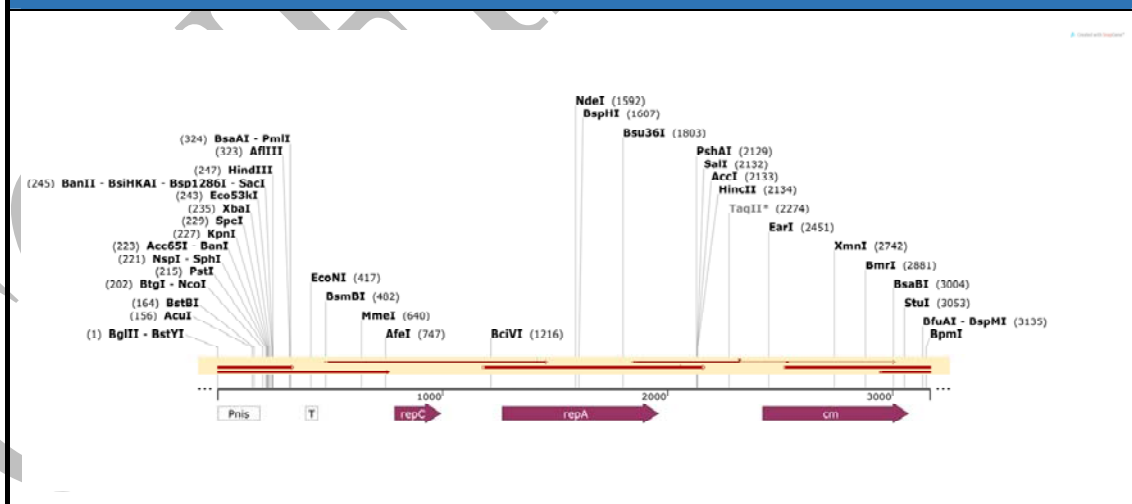
CERTIFICATE OF ANALYSIS

Gene Name	pNZ8148 vector	Catalog No.	V012804
Lot No.	V82120	Vector Size	3,167 bp
Type	Expression plasmid of Lactobacilli	Vector Resistance	Chloramphenicol

QC Results

Test Items	Specifications	Results
Insert Sequence	Insert sequence results consistent with target	Pass
Vector Sequence	Flanking sequence consistent with expected	Pass
ORF Across Junction	Correct and consistent with target	N/A
Restriction Digest	Expected fragment sizes observed	Pass
PCR Amplification	Correct without non - specific bands	Pass
DNA Quantity/Quality	Actual yield (by A 260)	5µg/5µg
	Concentration (n/a if lyophilized)	N/A
	Purity (A 260/A280 = 1.8 - 2.0)	Pass
	# of Tubes	2
	Matrix	TE (lyophilized)
Endotoxin Test	Verified, <0.1 EU/µg (Endo-Free Preps Only)	N/A
Appearance	Clear, no visible particles	Pass
Label	Correct and white	Pass
Comments	-	-

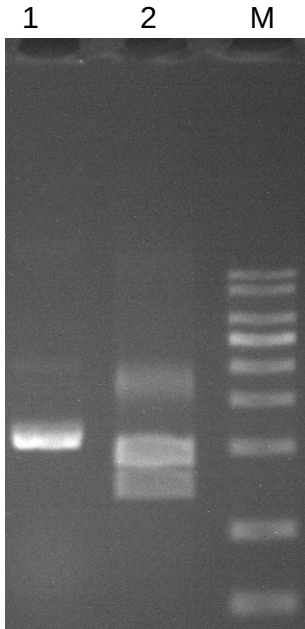
Sequencing Validation



Certified by: Chou Fang

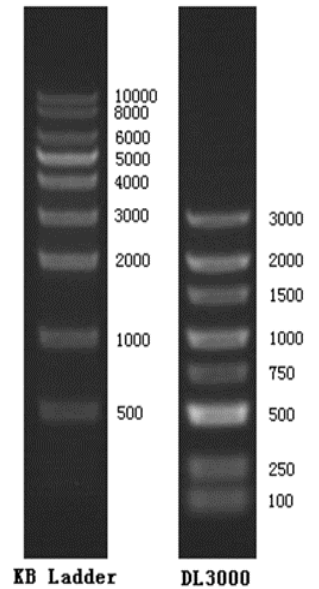
Date: 23/Nov/2022

Enzyme Digestion

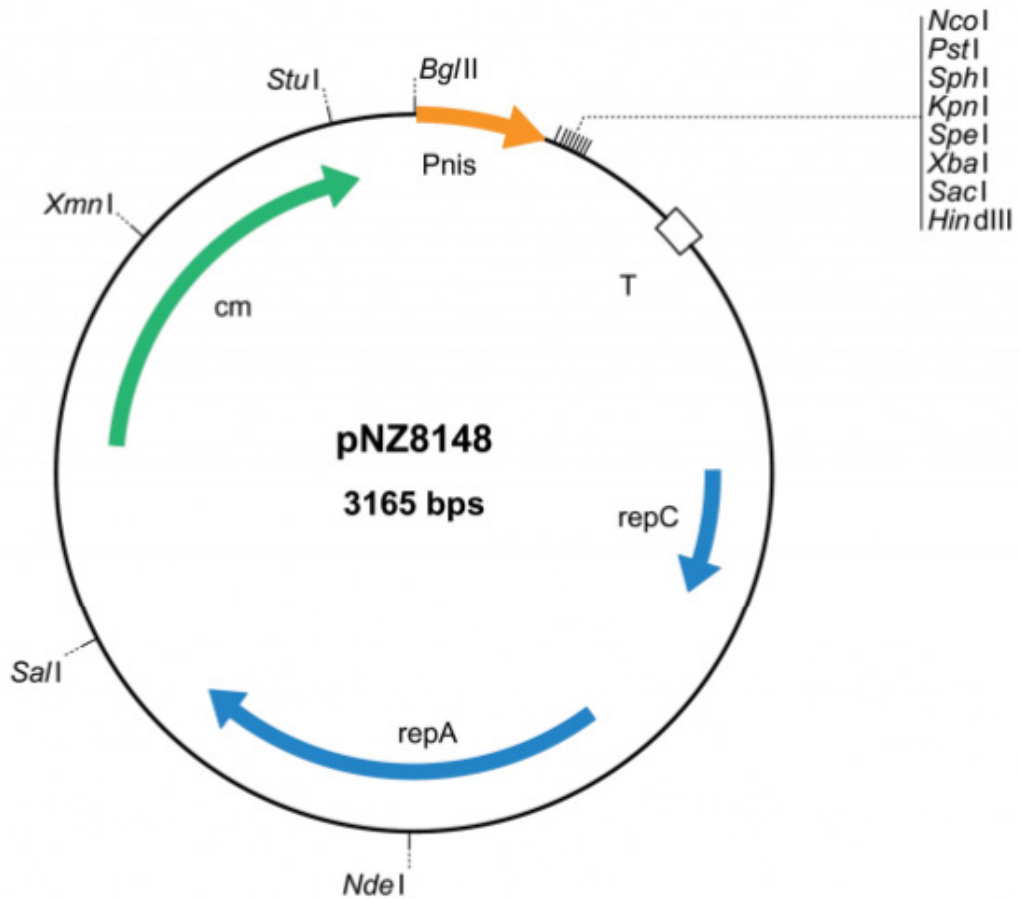


Lane M: KB Ladder
Lane 1: pNZ8148 plasmids
Lane 2: pNZ8148 plasmids digested
by SpeI and NdeI

Restriction digest of plasmid DNA:
About 200-1000 ng of plasmid was digested
at 37°C for 30-60 minutes and analyzed on
1% Agarose Gel



Vector Map



Molecule Features:

Type	Start	End	Name	Description
Region	5	188	Pnis	Nisin A promoter-region
Region	393	445	T	Terminator
Gene	787	996	repC	Replication gene C
Gene	1264	1962	repA	Replication gene A
Gene	2421	3071	cm	Chloramphenicol acetyltransferase gene