

## 基本信息

启动子:	PnisA
平台编号:	bio-82440
复制子:	repA, repC
终止子:	T
质粒分类:	乳酸杆菌表达质粒
质粒大小:	3167bp
原核抗性:	氯霉素 chloramphenicol
筛选标记:	氯霉素 chloramphenicol
克隆菌株:	MC1061
培养条件:	37°C, 有氧, LB
表达宿主:	乳酸杆菌
5'测序引物:	根据序列设计

## 质粒简介

The pNZ8148 vector contains an origin of replication (ORI), the gene for the resistance to chloramphenicol, two genes for the replication proteins repA and repC, the nisin-inducible promoter (P nisA), and the transcription terminator (T). The gene, tagged with a Strep-tag II (STREP) followed by a stop codon (\*), can be inserted between the necessary NcoI site and another endonuclease site from the multicloning site (MCS) such as PstI, SphI, KpnI, SpeI, XbaI, SacI and HindIII.

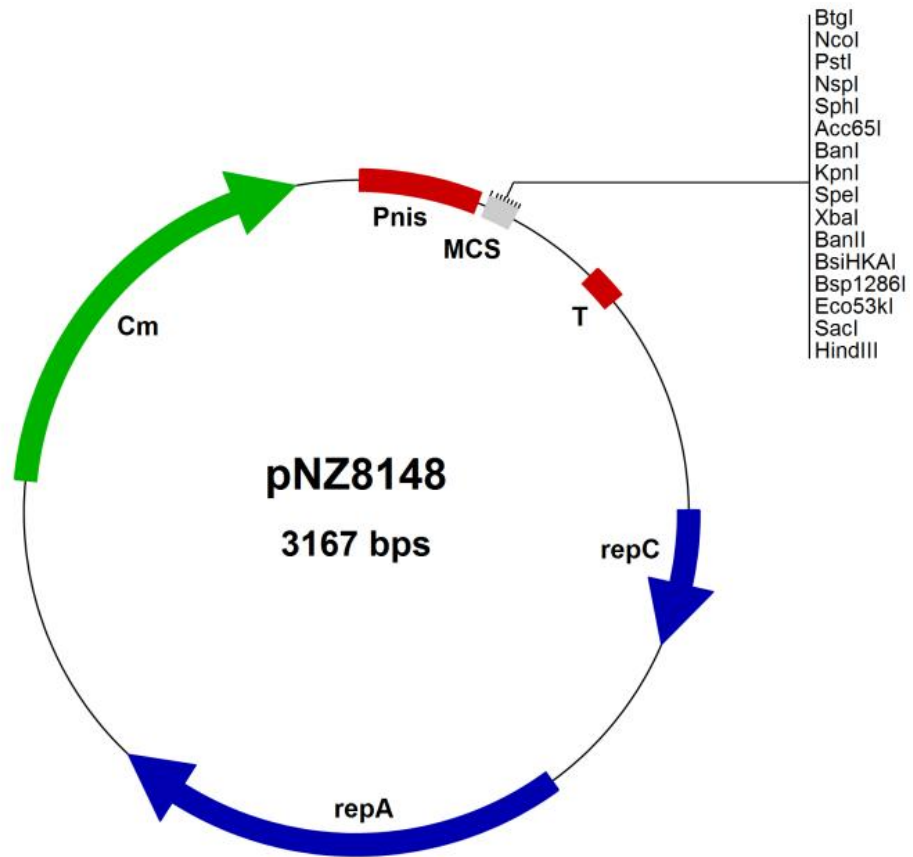
The replicons of the vectors pNZ8008, pNZ8148, pNZ8149 and pNZ8150 are identical and came originally from the *Lactococcus lactis* plasmid pSH71. However, this replicon has a broad host range. Plasmids with this replicon can replicate in many Gram-positive bacteria, such as *Lactobacillus plantarum* and *Streptococcus thermophilus*.

pNZ8148 – In this vector the nisA promoter is followed by an NcoI site for translational fusions at the ATG. It contains a terminator after the MCS. Sequence adaptation for cloning in NcoI can result in a change in the second amino acid of a protein (Mierau and Kleerebezem, 2005).

	Type	Start	End	Name	Description
	Promoter	5	188	PnisA	<i>nisin A</i> promoter region
	Region	202	247	MCS	Multiple Cloning Site
	Terminator	393	445	T	Termination sequence of <i>pepN</i> gene
	Gene	788	997	<i>repC</i>	Replication gene C
	Gene	1266	1964	<i>repA</i>	Replication gene A
	Selectable Marker	2424	3074	<i>Cm (cat)</i>	Chloramphenicol resistance



## 质粒图谱



### 质粒序列

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LOCUS       Exported                3167 bp ds-DNA   circular SYN 29-AUG-2016
DEFINITION  synthetic circular DNA.
ACCESSION   .
VERSION     .
KEYWORDS    pNZ8148
SOURCE      synthetic DNA construct
  ORGANISM  synthetic DNA construct
REFERENCE   1  (bases 1 to 3167)
  AUTHORS   .
  TITLE     Direct Submission
  JOURNAL   Exported 2016-2-19
REFERENCE   2  (bases 1 to 3167)
  AUTHORS   .
  
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TITLE Direct Submission  
JOURNAL Exported Monday, August 29, 2016 from SnapGene Viewer 3.1.4  
http://www.snapgene.com

FEATURES Location/Qualifiers

source 1..3167  
/organism="synthetic DNA construct"  
/mol\_type="other DNA"

misc\_feature 5..188  
/note="Pnis"

misc\_feature 393..445  
/note="Terminator"

misc\_feature 787..996  
/note="repC"

misc\_feature 1264..1962  
/note="repA"

misc\_feature 2421..3071  
/note="Cm"

ORIGIN

1 agatctagtc ttataactat actgacaata gaaacattaa caaatctaaa acagtcttaa  
61 ttctatcttg agaaagtatt ggtaataata ttattgtcga taacgcgagc ataataaacg  
121 gctctgatta aattctgaag tttgttagat acaatgattt cgttcgaagg aactacaaaa  
181 taaattataa ggaggcactc accatgggta ctgcaggcat gcggtaccac tagttctaga  
241 gagctcaagc tttctttgaa ccaaaattag aaaaccaagg cttgaaacgt tcaattgaaa  
301 tggcaattaa acaaattaca gcacgtggtt ctttgattga tagccaaaaa gcagcagttg  
361 ataaagcaat tactgatatt gctgaaaaat tgtaatttat aaataaaaaat caccttttag  
421 agtggtttt tttatttata aattattcgt ttgatttcgc tttcgataga acaatcaaat  
481 cgtttctgag acgttttagc gtttatttcg tttagttatc ggcataatcg ttaaaacagg  
541 cgttatcgta gcgtaaaagc ccttgagcgt agcgtggctt tgcagcgaag atgttgtctg  
601 ttagattatg aaagccgatg actgaatgaa ataataagcg cagcgtcctt ctatttcggt  
661 tggaggaggc tcaagggagt ttgagggaaat gaaattccct catgggtttg attttaaaaa  
721 ttgcttgcaa ttttgccgag cggtagcgtt ggaaaatttt tgaaaaaaat ttggaatttg  
781 gaaaaaaatg gggggaaagg aagcgaattt tgcttccgta ctacgacccc ccattaagtg  
841 ccgagtgcc aattttgtgc caaaaacgct ctatcccaac tggctcaagg gtttgagggg  
901 tttttcaatc gccaacgaat cgccaacggt ttcgccaacg ttttttataa atctatattt  
961 aagtagcttt atttttgttt ttatgattac aaagtgatac actaatttta taaaattatt  
1021 tgattggagt tttttaaagtg gtgatttcag aatcgaaaaa aagagttatg atttctctga  
1081 caaaagagca agataaaaaa ttaacagata tggcgaaaca aaaagatttt tcaaaatctg  
1141 cggttgccgc gttagctata gaagaatag caagaaagga atcagaacaa aaaaaataag  
1201 cgaaagctcg cgtttttaga aggatacagag ttttcgctac ttgtttttga taaggtaatt  
1261 atatcatggc tattaaaaat actaaagcta gaaattttgg atttttatta tatcctgact  
1321 caattcctaa tgattggaaa gaaaaattag agagtttggg cgtatctatg gctgtcagtc  
1381 ctttacacga tatggacgaa aaaaaagata aagatacatg gaatagtagt gatgttatac



# 微生物菌种查询网

1441 gaaatggaaa gcactataaa aaaccacact atcacgttat atatattgca cgaaatcctg  
1501 taacaataga aagcgtagg aacaagatta agcgaaaatt ggggaatagt tcagttgctc  
1561 atgttgagat acttgattat atcaaaggtt catatgaata tttgactcat gaatcaaagg  
1621 acgctattgc taagaataaa catatatacg acaaaaaaga tattttgaac attaatgatt  
1681 ttgatattga ccgctatata acacttgatg aaagccaaaa aagagaattg aagaatttac  
1741 ttttagatat agtggatgac tataatttgg taaatacaaa agatttaatg gcttttattc  
1801 gccttagggg agcggagttt ggaattttaa atacgaaatga tgtaaaagat attgtttcaa  
1861 caaactctag cgcctttaga ttatggtttg agggcaatta tcagtgtgga tatagagcaa  
1921 gttatgcaaa ggttcttgat gctgaaacgg gggaaataaa atgacaaaaca aagaaaaaga  
1981 gttatttgcg gaaaaagagg aattaaaaaa agaaattaag gacttaaaag agcgtattga  
2041 aagatacaga gaaatggaag ttgaattaag tacaacaata gatttattga gaggagggat  
2101 tattgaataa ataaaagccc cctgacgaa agtcgacggc aatagttacc cttattatca  
2161 agataagaaa gaaaaggatt tttcgctacg ctcaaactct ttaaaaaaac acaaaagacc  
2221 acatttttta atgtggtcct ttattcttca actaaagcac ccattagttc acaaacgaa  
2281 aattggataa agtgggatat ttttaaaata tataattatg ttacagtaat attgactttt  
2341 aaaaaggat tgattctaata gaagaagca gacaagtaag cctcctaaat tcactttaga  
2401 taaaaattta ggaggcatat caaatgaact ttaataaaat tgatttagac aattggaaga  
2461 gaaaagagat atttaacat tatttgaacc acaaacgac ttttagtata accacagaaa  
2521 ttgatattag tgttttatac cgaacataa aacaagaagg atataaattt taccctgcat  
2581 ttattttcct agtgacaagg gtgataaact caaatacagc ttttagaact ggttacaata  
2641 gcgacggaga gttaggttat tgggataagt tagagccact ttatacaatt tttgatggtg  
2701 tatctaaaac attctctggt atttggactc ctgtaaagaa tgacttcaaa gagttttatg  
2761 atttatacct ttctgatgta gagaaatata atggttcggg gaaattgttt cccaaaacac  
2821 ctatacctga aaatgctttt tctctttcta ttattccttg gacttcattt actgggttta  
2881 acttaaatat caataataat agtaattacc ttctacccat tattacagca ggaaaattca  
2941 ttaataaagg taattcaata tatttaccgc tatctttaca ggtacatcat tctgtttgtg  
3001 atggttatca tgctggattg tttatgaact ctattcagga attgtcagat aggccaatg  
3061 actggctttt ataatatgag ataatgccga ctgtactttt tacagtcggt tttctaattg  
3121 cactaacctg ccccgtagt tgaagaaggt ttttatatta cagctcc

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