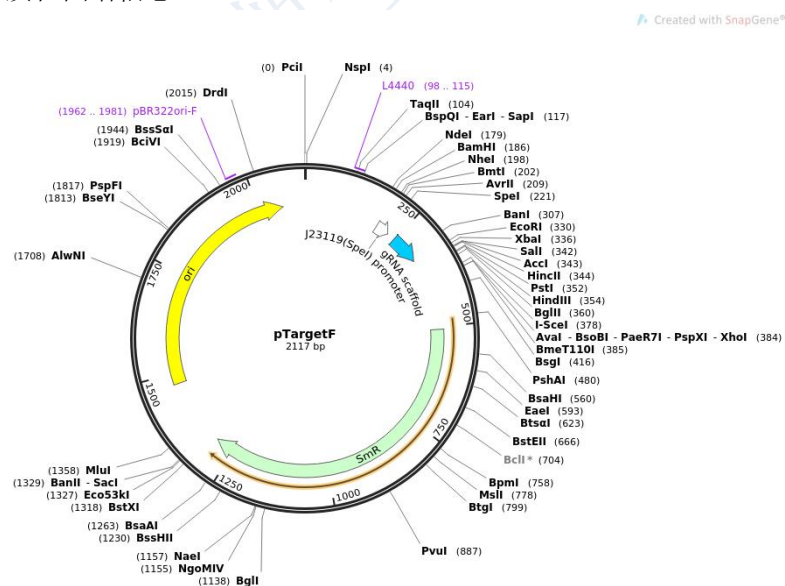


质粒基本信息

质粒名称:	pTargetF
平台编号:	bio-82477
载体骨架基本信息	
载体名称:	Trc99a
载体抗性:	壮观霉素
空载体大小:	2117 bp
载体修饰:	Replaced Amp with aadA
载体类型:	细菌表达, CRISPR
高拷贝/低拷贝:	高拷贝
生长条件:	37 °C
插入基因信息	
插入基因名称:	sgRNA
物种来源:	Synthetic
启动子	pij23119
克隆方法:	限制性内切酶
5' 克隆位点:	未知(未破坏)
3' 克隆位点:	未知 (未破坏)
5' 测序引物	MoClo-F (agcgaggaagcggaagagcg)
文献引用方法	
材料和方法部分:	pTargetF was a gift from Sheng Yang (addgene plasmid # 62226) Multigene editing in the Escherichia coli genome using the CRISPR-Cas9 system. Jiang Y, Chen B, Duan C, Sun B, Yang J, Yang S. Appl Environ Microbiol. 2015 Jan 30. pii: AEM.04023-14. 10.1128/AEM.04023-14 PubMed 25636838
参考文献部分:	

质粒图谱信息





质粒简介

质粒序列

```
LOCUS       pTargetF                2117 bp ds-DNA     circular SYN 10-JAN-2018

DEFINITION  Constitutive expression of sgRNA without donor editing template DNA.

ACCESSION   .

VERSION     .

KEYWORDS    pTargetF

SOURCE      synthetic DNA construct

   ORGANISM  synthetic DNA construct

REFERENCE   1  (bases 1 to 2117)

   AUTHORS   Jiang Y, Chen B, Duan C, Sun B, Yang J, Yang S

   TITLE     Multigene editing in the Escherichia coli genome using the
             CRISPR-Cas9 system.

   JOURNAL   Appl Environ Microbiol. 2015 Jan 30. pii: AEM.04023-14.

   PUBMED   25636838

COMMENT     This file is created

COMMENT     ORIGDB|GenBank

COMMENT     VNTAUTHORNAME COMMENT      VNTNAME|pTargetF|

FEATURES             Location/Qualifiers

     source           1..2117

                     /organism="synthetic DNA construct"

                     /mol_type="other DNA"

     primer_bind     98..115

                     /label=L4440
```



```
/note="L4440 vector, forward primer"

promoter      192..226

               /label=J23119(SpeI) promoter

               /note="bacterial promoter (Registry of Standard Biological
               Parts BBa_J23119) modified to end with an SpeI site"

misc_RNA      247..322

               /label=gRNA scaffold

               /note="guide RNA scaffold for the Streptococcus pyogenes
               CRISPR/Cas9 system"

CDS           508..1299

               /codon_start=1

               /gene="aadA"

               /product="aminoglycoside adenyltransferase (Murphy,
               1985) "

               /label=SmR

               /note="confers resistance to spectinomycin and
               streptomycin"

               /translation="MREAVIAEVSTQLSEVVGVIERHLEPTLLAVHLYGSAVDGGLKPH
               SDIDLLVTVTVRLDETTRRALINDLLETSASPGESEILRAVEVTIVVHDDIIPWRYPAK
               RELQFGEWQRNDILAGIFEPATIDIDLAILLTKAREHSVALVGPAAEELFDPVPEQDLF
               EALNETLTLWNSPDWAGDERNVVLTLSRIWYSAVTGKIAPKDVAADWAMERLPAQYQP
               VILEARQAYLGQEEDRLASRADQLEEFVHYVKGEITKVVGK"

rep_origin    1473..2061

               /direction=RIGHT
```



```
/label=ori

/note="high-copy-number ColE1/pMB1/pBR322/pUC origin of
replication"

primer_bind    1962..1981

/label=pBR322ori-F

/note="pBR322 origin, forward primer"

ORIGIN

    1 catgttcttt cctgcgttat ccctgattc tgtggataac cgtattaccg cctttgagtg
   61 agctgatacc gctcgccgca gccgaacgac cgagcgcagc gagtcagtga gcgaggaagc
  121 ggaagagcgc ctgatgcggt attttctcct tacgcatctg tgcggtatth cacaccgcat
  181 atgctggatc cttgacagct agctcagtcc taggtataat actagtcatc gccgcagcgg
  241 tttcaggttt tagagctaga aatagcaagt taaaataagg ctagtccggt atcaacttga
  301 aaaagtggca ccgagtcggt gctttttttg aattctctag agtcgacctg cagaagctta
  361 gatctattac cctgttatcc ctactcgagt tcatgtgcag ctccataagc aaaaggggat
  421 gataagttha tcaccaccga ctatttgcaa cagtgccggt gatcgtgcta tgatcgactg
  481 atgtcatcag cggtaggagt caatgtcatg agggaagcgg tgatcgccga agtatcgact
  541 caactatcag aggtagttgg cgtcatcgag cgccatctcg aaccgacggt gctggccgta
  601 catttgtagc gctccgcagt ggatggcggc ctgaagccac acagtgatat tgatttgctg
  661 gttacggtga ccgtaaggct tgatgaaaca acgcggcgag ctttgatcaa cgacctttg
  721 gaaacttcgg cttcccctgg agagagcgag atttcccgcg ctgtagaagt caccattggt
  781 gtgcacgacg acatcattcc gtggcgttat ccagctaagc gcgaactgca atttggagaa
  841 tggcagcgca atgacattct tgcaggatc ttcgagccag ccacgatcga cattgatctg
  901 gctatcttgc tgacaaaagc aagagaacat agcgttgctt tggtaggtcc agcggcggag
  961 gaactccttg atccggttcc tgaacaggat ctatttgagg cgctaaatga aaccttaacg
```



1021 ctatggaact cgccgcccga ctgggctggc gatgagcgaa atgtagtgct tacgttgtcc
1081 cgcatttggc acagcgcagt aaccggcaaa atcgcgccga aggatgtcgc tgccgactgg
1141 gcaatggagc gctgcccgc ccagtatcag cccgtcatac ttgaagctag acaggcttat
1201 cttggacaag aagaagatcg cttggcctcg cgcgagatc agttggaaga atttgtccac
1261 tacgtgaaag gcgagatcac caaggtagtc ggcaaataag atgccgctcg ccagtcgatt
1321 ggctgagctc ataagttcct attccgaagt tccgcaacg cgtaaaggat ctaggtgaag
1381 atcctttttg ataatctcat gaccaaatac cctaacgtg agttttcgtt ccaactgagcg
1441 tcagaccccg tagaaaagat caaaggatct tcttgagatc ctttttttct gcgcgtaatc
1501 tgctgcttgc aaacaaaaaa accaccgcta ccagcggctg tttgtttgc ggatcaagag
1561 ctaccaactc tttttccgaa ggtaactggc ttcagcagag cgcagatacc aaatactgtc
1621 cttctagtgat agccgtagtt aggcaccac ttcaagaact ctgtagcacc gcctacatac
1681 ctgctcttgc taatcctggt accagtggct gctgccagtg gcgataagtc gtgtcttacc
1741 gggttggact caagacgata gttaccggat aaggcgcagc ggtcgggctg aacggggggt
1801 tcgtgcacac agcccagctt ggagcgaacg acctacaccg aactgagata cctacagcgt
1861 gagctatgag aaagcggcac gcttcccga gggagaaag cggacaggta tccggtaagc
1921 ggcagggctg gaacaggaga ggcacgagc gagcttccag ggggaaacgc ctggtatctt
1981 tatagtcttg tcgggtttcg ccacctctga cttgagcgtc gatttttgtg atgctcgtca
2041 ggggggcgga gcctatggaa aaacgcagc aacgcggcct ttttacggtt cctggccttt
2101 tgctggcctt ttgctca

//