LOCUS CZP40\pu6c:sgRNA-4 3012 bp DNA circular SYN 8-OCT-2022

SOURCE synthetic DNA construct.

 ORGANISM synthetic DNA construct

REFERENCE 1 (bases 1 to 3012)

 AUTHORS zhangchong

 TITLE Direct Submission

 JOURNAL Exported Tuesday, Sep 27, 2022 from SnapGene 5.0.5 to Vector NTI(R)

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 https://www.snapgene.com

COMMENT This file is created by Vector NTI

 http://www.invitrogen.com/

COMMENT ORIGDB|GenBank

COMMENT VNTDATE|-14589763|

COMMENT VNTDBDATE|-14603707|

COMMENT LSOWNER|

COMMENT VNTNAME|CZP40 pu6c:sgRNA-4|

COMMENT VNTAUTHORNAME|xf|

COMMENT VNTOAUTHORNAME|zhangchong|

FEATURES Location/Qualifiers

 primer\_bind 1..17

 /vntifkey="28"

 /label=M13\fwd

 /note="common sequencing primer, one of multiple similar variants"

 misc\_feature 40..43

 /vntifkey="21"

 /label=feature\sequences

 promoter 44..443

 /vntifkey="30"

 /label=U6c\promoter

 misc\_feature 440..479

 /vntifkey="21"

 /label=sgRNA\replace\site

 misc\_feature 572..575

 /vntifkey="21"

 /label=feature\sequences

 CDS 942..1733

 /codon\_start=1

 /gene="aadA"

 /product="aminoglycoside adenylyltransferase (Murphy,

 1985)"

 /vntifkey="4"

 /label=SmR

 /note="confers resistance to spectinomycin and streptomycin"

 rep\_origin 1826..2414

 /direction=RIGHT

 /vntifkey="33"

 /label=ori

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

 terminator 2744..2771

 /vntifkey="43"

 /label=rrnB\T2\terminator

 /note="transcription terminator T2 from the E. coli rrnB gene"

 terminator 2863..2949

 /gene="Escherichia coli rrnB"

 /vntifkey="43"

 /label=rrnB\T1\terminator

 /note="transcription terminator T1 from the E. coli rrnB gene"

BASE COUNT 728 a 774 c 814 g 696 t

ORIGIN

 1 gtaaaacgac ggccagtctt aagctcgggc ccggtctctc caatccgaga gtctgtgaat

 61 gtttcgatgg gccgtttgct ggcgtctgag catgttgtcc tctggtctgc ggcgggggaa

 121 ggtccgcgca tgcctgtggg ggaaggcgaa ggacacgagg acaaaagatc agttacgtca

 181 cagaagaact catccaatca cacaagccta aaaccagctt cctctgcata tgctttacag

 241 ttcaaaaata ctacggtaaa cctctacaaa actgctggtt tcaaactttg aaggttttaa

 301 gcgtttgcag gtttgccccg aagaggttta ctgtcatgtt tgaggtaaat gagttgaata

 361 agtaggttta tccacttacc acatggcaga aacataccca gaagtcccgg gtttatatag

 421 cagttctcca ggctcctagt tcgagagacg acactgcaga ctgtcgaccg tctctgttta

 481 agagctatgc tggaaacagc atagcaagtt taaataaggc tagtccgtta tcaacttgaa

 541 aaagtggcac cgagtcggtg ctttttttaa acctgagaga cctctagacc agccaggaca

 601 gaaatgcctc gacttcgctg ctacccaagg ttgccgggtg acgcacaccg tggaaacgga

 661 tgaaggcacg aacccagtgg acataagcct gttcggttcg taagctgtaa tgcaagtagc

 721 gtatgcgctc acgcaactgg tccagaacct tgaccgaacg cagcggtggt aacggcgcag

 781 tggcggtttt catggcttgt tatgactgtt tttttggggt acagtctatg cctcgggcat

 841 ccaagcagca agcgcgttac gccgtgggtc gatgtttgat gttatggagc agcaacgatg

 901 ttacgcagca gggcagtcgc cctaaaacaa agttaaacat tatgagggaa gcggtgatcg

 961 ccgaagtatc gactcaacta tcagaggtag ttggcgtcat cgagcgccat ctcgaaccga

 1021 cgttgctggc cgtacatttg tacggctccg cagtggatgg cggcctgaag ccacacagtg

 1081 atattgattt gctggttacg gtgaccgtaa ggcttgatga aacaacgcgg cgagctttga

 1141 tcaacgacct tttggaaact tcggcttccc ctggagagag cgagattctc cgcgctgtag

 1201 aagtcaccat tgttgtgcac gacgacatca ttccgtggcg ttatccagct aagcgcgaac

 1261 tgcaatttgg agaatggcag cgcaatgaca ttcttgcagg tatcttcgag ccagccacga

 1321 tcgacattga tctggctatc ttgctgacaa aagcaagaga acatagcgtt gccttggtag

 1381 gtccagcggc ggaggaactc tttgatccgg ttcctgaaca ggatctattt gaggcgctaa

 1441 atgaaacctt aacgctatgg aactcgccgc ccgactgggc tggcgatgag cgaaatgtag

 1501 tgcttacgtt gtcccgcatt tggtacagcg cagtaaccgg caaaatcgcg ccgaaggatg

 1561 tcgctgccga ctgggcaatg gagcgcctgc cggcccagta tcagcccgtc atacttgaag

 1621 ctagacaggc ttatcttgga caagaagaag atcgcttggc ctcgcgcgca gatcagttgg

 1681 aagaatttgt ccactacgtg aaaggcgaga tcaccaaggt agtcggcaaa taaccctcga

 1741 gccacccatg accaaaatcc cttaacgtga gttacgcgtc gttccactga gcgtcagacc

 1801 ccgtagaaaa gatcaaagga tcttcttgag atcctttttt tctgcgcgta atctgctgct

 1861 tgcaaacaaa aaaaccaccg ctaccagcgg tggtttgttt gccggatcaa gagctaccaa

 1921 ctctttttcc gaaggtaact ggcttcagca gagcgcagat accaaatact gtccttctag

 1981 tgtagccgta gttaggccac cacttcaaga actctgtagc accgcctaca tacctcgctc

 2041 tgctaatcct gttaccagtg gctgctgcca gtggcgataa gtcgtgtctt accgggttgg

 2101 actcaagacg atagttaccg gataaggcgc agcggtcggg ctgaacgggg ggttcgtgca

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 2521 cctttgagtg agctgatacc gctcgccgca gccgaacgac cgagcgcagc gagtcagtga

 2581 gcgaggaagc ggaagagcgc ccaatacgca aaccgcctct ccccgcgcgt tggccgattc

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 2701 ttaatacgcg taccgctagc caggaagagt ttgtagaaac gcaaaaaggc catccgtcag

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 3001 agtcacgacg tt

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