



LOCUS	Exported	10861 bp ds-DNA	circular SYN 06-
NOV-2020			
DEFINITION	synthetic circular DNA		
ACCESSION	.		
VERSION	.		
KEYWORDS	pCLIP-Cas9-Nuclease-hCMV-Blasticidin		
SOURCE	synthetic DNA construct		
ORGANISM	synthetic DNA construct		
REFERENCE	1 (bases 1 to 10861)		
AUTHORS	Trial User		
TITLE	Direct Submission		
JOURNAL	Exported Friday, Nov 6, 2020 from SnapGene 5.2.1 https://www.snapgene.com		
FEATURES	Location/Qualifiers		
source	1..10861 /organism="synthetic DNA construct"		

```

        misc_feature      /mol_type="other DNA"
                          23..667
                          /label=CMV-LTR
        misc_feature      720..745
                          /label=psi
        misc_feature      746..840
                          /label=HIV-1 Psi
                          /note="packaging signal of human immunodeficiency
virus
        misc_feature      type 1"
                          1333..1566
                          /label=RRE
                          /note="The Rev response element (RRE) of HIV-1
allows for
        misc_feature      Rev-dependent mRNA export from the nucleus to the
                          cytoplasm."
                          2057..2174
                          /label=cPPT/CTS
                          /note="central polypurine tract and central
termination
        enhancer          sequence of HIV-1"
                          2238..2541
                          /label=CMV enhancer
                          /note="human cytomegalovirus immediate early
enhancer"
        promoter         2542..2745
                          /label=CMV promoter
                          /note="human cytomegalovirus (CMV) immediate early
                          promoter"
        misc_feature      2827..2888
                          /label=MCS
        CDS               2905..7008
                          /codon_start=1
                          /product="Cas9 (Csn1) endonuclease from the
Streptococcus
                          pyogenes Type II CRISPR/Cas system"
                          /label=Cas9
                          /note="generates RNA-guided double strand breaks in
DNA"

/translation="MDKKYSIGLDIGTNSVGWAVITDEYKVPSKKFKVLGNTDRHSIKK
NLIGALLFDSGETAEATRLKRTARRRYTRRKNRICYLQEIFSNEMAKVDDSDFFHRLEES
FLVEEDKKHERHPIFGNIVDEVAYHEKYPTIYHLRKKLVDSTDKADLRLIYLALAHMIK
FRGHFLIEGDLNPDNSVDKLFIQLVQTYNQLFEEENPINASGVDAKAILSARLSKSRRL
ENLIAQLPGEKKNGLFGNLIASLGLTPNFKSNFDLAEDAKLQLSKDITYDDDLNLLAQ
IGDQYADLFLAAKNLSDAILLSDILRVNTEITKAPLSASMIKRYDEHHQDLTLLKALVR
QQLPKEYKEIFFDQSKNGYAGYIDGGASQEEFYKFIKPILEKMDGTEELLVKLNREDLL

```

RKQRTFDNGSIPHQIHLGELHAILRRQEDFYFPFLKDNREKIEKILTFRIPYYVGPLARG
 NSRFAWMTRKSEETITPWNFEVVDKASQAQSFIERMTNFDKNLPNEKVLPKHSLLEYEY
 FTVYNELTKVKYVTEGMRKPAFLSGEQKKAIVDLLFKTNRKVTVKQLKEDYFKKIECFD
 SVEISGVEDRFNASLGTYHDLKIIKDKDFLDNEENEDILEDIVLTLTLFEDREMIEER
 LKTYAHLFDDKVMKQLKRRRYTGWGRLSRKLINGIRDKQSGKTILDFLKSDFANRNF
 QLIHDDSLTFKEDIQKAQVSGQDSLHEHIANLAGSPAIKKILQTVKVVDELVKVMGR
 HKPENIVIAMARENQTTQKGQKNSRERMKRIEEGIKELGSQILKEHPVENTQLQNEKLY
 LYYLQNGRDMYVDQELDINRLSDYDVDHIVPQSFLKDDSIDNKVLTRSDKNRGKSDNVP
 SEEVVKKMKNYWRQLLNAKLITQRKFDNLTKAERGGLSELDKAGFIKRQLVETRQITKH
 VAQILDSRMNTKYDENDKLIREVKVITLKSCLVSDFRKDFQFYKREINNYHHAHDAYL
 NAVVGTALIKKYPKLESEFVYGDYKVDVRKMIKSEQEIGKATAKYFFYSNIMNFFKT
 EITLANGEIRKRPLIETNGETGEIVWDKGRDFATVRKVLSPQVNIKKTEVQTGGFSK
 ESILPKRNSDKLIARKKDWDPKKGFFSPTVAYSVLVAKVEKSKKLSVKELLGI
 TIMERSSEKPNPIDFLEAKGYKEVKKDLIIKLPKYSLELENGRKRMLASAGELQKGNL
 LALPSKYVNFYLLASHYEKLGSPEDNEQKQLFVEQHKHYLDEIIEQISEFSKRVIAD
 ANLDKVL SAYNKHRDKPIREQAENIIHLFTLTNLGAPAAFKYFDTTIDRKRYTSTKEVL

	DATLIHQSI TGLYETRIDLSQLGGD"
CDS	7009..7056
	/codon_start=1
	/product="bipartite nuclear localization signal from nucleoplasmin"
	/label=nucleoplasmin NLS
	/translation="KRPAATKKAGQAKKKK"
CDS	7057..7080
	/codon_start=1
enterokinase	/product="FLAG(R) epitope tag, followed by an cleavage site"
	/label=FLAG
	/translation="DYKDDDDK"
CDS	7090..7146
	/codon_start=1
	/product="2A peptide from porcine teschovirus-1 polyprotein"
	/label=P2A
bond	/note="Eukaryotic ribosomes fail to insert a peptide between the Gly and Pro residues, yielding separate

```

                                polypeptides."
                                /translation="ATNFSLLKQAGDVEENPGP"
CDS                               7147..7545
                                /codon_start=1
                                /gene="Aspergillus terreus BSD"
                                /product="blasticidin S deaminase"
                                /label=BSD
                                /note="confers resistance to blasticidin"

/translation="MAKPLSQEESTLIERATATINSIPISEDYSVASAALSSDGRIFTG
VNVYHFTGGPCAELVVLGTAAAAAAGNLTCIVAIGNENRGILSPCGRCRQVLLDLHPGI
                                KAIVKDSGDGQPTAVGIRELLPSGYVWEG"
misc_feature                       7570..8158
                                /label=WPRE
                                /note="woodchuck hepatitis virus posttranscriptional
                                regulatory element"
misc_feature                       8363..8598
                                /label=3'LTR
promoter                           8692..9021
                                /label=SV40
                                /note="SV40 enhancer and early promoter"
rep_origin                         complement(9110..9695)
                                /direction=LEFT
                                /label=ori
                                /note="high-copy-number Cole1/pMB1/pBR322/pUC origin
of
                                replication"
CDS                               complement(9866..10726)
                                /codon_start=1
                                /gene="bla"
                                /product="beta-lactamase"
                                /label=AmpR
                                /note="confers resistance to ampicillin,
carbenicillin, and
                                related antibiotics"

/translation="MSIQHFRVALIPFFAAFLPVFFAHPETLVKVKDAEDQLGARVGYI
ELDLSNGKILESFRPEERFPMMSSTFKVLLCGAVLSRIDAGQEQLGRRIHYSQNDLVEYS
PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAFLHNMGDHVTRLDRW
EPELNEAIPNDERDITMPVAMATTLRKLTLGELLTLASRQQLIDWMEADKVAGPLLRSI
LPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIAEIGAS
                                LIKHW"
promoter                           complement(10727..10831)
                                /gene="bla"
                                /label=AmpR promoter
ORIGIN
1 gacggatcgg gagatcctcg cgcgttgaca ttgattattg actagttatt
aatagtaatc

```

61 aattacgggg tcattagttc atagcccata tatggagttc cgcgttacat
aacttacggt
121 aaatggcccg cctggctgac cgccaacga cccccgcca ttgacgtcaa
taatgacgta
181 tgttcccata gtaacgcaa tagggacttt ccattgacgt caatgggtgg
agtatttacg
241 gtaaactgcc cacttggcag tacatcaagt gtatcatatg ccaagtacgc
cccctattga
301 cgtcaatgac ggtaaattggc cgcctggca ttatgccag tacatgacct
tatgggactt
361 tcctacttgg cagtacatct acgtattagt catcgctatt accagctagc
gaggcgtggc
421 ctgggaggga ctggggagtg gcgagccctc agatcctgca tataagcagc
tgctttttgc
481 ctgtactggg tctctctggg tagaccagat ctgagcctgg gagctctctg
gctaactagg
541 gaaccactg cttaagcctc aataaagctt gccttgagtg cttcaagtag
tgtgtgcccg
601 tctgttgtgt gactctggta actagagatc cctcagacc ttttagtcag
tgtggaaaat
661 ctctagcagt ggcgccgaa cagggacttg aaagcgaag ggaaaccaga
ggagctctct
721 cgacgcagga ctcggttgc tgaagcgcgc acggcaagag gcgaggggag
gcgactggtg
781 agtacgcaa aaattttgac tagcggaggc tagaaggaga gagatgggtg
cgagagcgtc
841 agtattaagc gggggagaat tagatcgcga tgggaaaaaa ttcggttaag
gccaggggga
901 aagaaaaaat ataaattaa acatatagta tgggcaagca gggagctaga
acgattcgca
961 gttaatcctg gcctgttaga aacatcagaa ggctgtagac aaatactggg
acagctacaa
1021 ccatcccttc agacaggatc agaagaactt agatcattat ataatacagt
agcaaccctc
1081 tattgtgtgc atcaaaggat agagataaaa gacaccaagg aagctttaga
caagatagag
1141 gaagagcaaa acaaaagtaa gaccaccgca cagcaagcgg ccgctgatct
tcagacctgg
1201 aggaggagat atgagggaca attggagaag tgaattatat aaatataaag
tagtaaaaat
1261 tgaaccatta ggagtagcac ccaccaaggc aaagagaaga gtggtgcaga
gagaaaaaag
1321 agcagtggga ataggagctt tgttccttgg gttcttggga gcagcaggaa
gcactatggg
1381 cgcagcgtca atgacgctga cggtagcagg cagacaatta ttgtctggta
tagtgcagca
1441 gcagaacaat ttgctgaggg ctattgaggc gcaacagcat ctggtgcaac
tcacagtctg
1501 gggcatcaag cagctccagg caagaatcct ggctgtggaa agatacctaa
aggatcaaca
1561 gtccttgggg atttgggggt gctctggaaa actcatttgc accactgctg
tgcttggaa
1621 tgctagtgtg agtaataaat ctctggaaca gatttggaaat cacacgacct
ggatggagtg

1681 ggacagagaa attaacaatt acacaagctt aatacactcc ttaattgaag
aatcgcaaaa
1741 ccagcaagaa aagaatgaac aagaattatt ggaattagat aaatgggcaa
gtttgtggaa
1801 ttggtttaac ataacaatt ggctgtggta tataaaatta ttcataatga
tagtaggagg
1861 cttggtaggt ttaagaatag tttttgctgt actttctata gtgaatagag
ttaggcaggg
1921 atattcacca ttatcgtttc agaccacct cccaaccccg aggggacccg
acaggcccga
1981 aggaatagaa gaagaaggtg gagagagaga cagagacaga tccattcgat
tagtgaacgg
2041 atctcgacgg tatcgatttt aaaagaaaag gggggattgg ggggtacagt
gcaggggaaa
2101 gaatagtaga cataatagca acagacatac aactaaaga actacaaaa
caaattacaa
2161 aaattcaaaa ttttcggggt tattacaggg acagcagaga tccagtttgg
aattcatcga
2221 taagcttggg agttccgctg tacataactt acggtaaagt gcccgctgg
ctgaccgccc
2281 aacgaccccc gccattgac gtcaataatg acgtatgttc ccatagtaac
gccaataggg
2341 actttccatt gacgtcaatg ggtggagtat ttacggtaaa ctgcccactt
ggcagtacat
2401 caagtgtatc atatgccaaag tacgcccctt attgacgtca atgacggtaa
atggcccgcc
2461 tggcattatg ccagttacat gaccttacgg gactttccta cttggcagta
catctacgta
2521 ttagtcatcg ctattacat ggtgatgctg ttttggcagt acaccaatgg
gcgtggatag
2581 cggtttgact cacggggatt tccaagtctc caccccattg acgtcaatgg
gagtttgttt
2641 tggcaccaaaa atcaacggga ctttccaaaa tgtcgttaaca actccgcccc
attgacgcaa
2701 atgggcggtg ggcgtgtacg gtgggaggtc tatataagca gagctcgttt
agtgaaccgt
2761 cagatcgctt ggagacgcca tccacgctgt tttgacctcc atagaagaca
ccgactctag
2821 ctagaggatc cactagtcca gtgtggtgga attctgcaga tatccagcac
agtggcggcc
2881 gctcgagtct agagcgtgct caccatggac aagaagtaca gcatcggcct
ggacatcggc
2941 accaactctg tgggctgggc cgtgatcacc gacgagtaca aggtgccag
caagaaattc
3001 aaggtgctgg gcaacaccga ccggcacagc atcaagaaga acctgatcgg
agccctgctg
3061 ttcgacagcg gcgaaacagc cgaggccacc cggctgaaga gaaccgccag
aagaagatac
3121 accagacgga agaaccggat ctgctatctg caagagatct tcagcaacga
gatggccaag
3181 gtggacgaca gcttcttcca cagactggaa gagtccttcc tgggtgaaga
ggataagaag
3241 cacgagcggc acccatctt cggcaacatc gtggacgagg tggcctacca
cgagaagtac

3301 cccaccatct accacctgag aaagaaactg gtggacagca ccgacaaggc
cgacctgcgg
3361 ctgatctatc tggccctggc ccacatgatc aagttccggg gccacttcct
gatcgagggc
3421 gacctgaacc ccgacaacag cgacgtggac aagctgttca tccagctggt
gcagacctac
3481 aaccagctgt tcgaggaaaa ccccatcaac gccagcggcg tggacgcca
ggccatcctg
3541 tctgccagac tgagcaagag cagacggctg gaaaatctga tcgccagct
gcccggcgag
3601 aagaagaatg gcctgttcgg aaacctgatt gccctgagcc tgggcctgac
ccccaacttc
3661 aagagcaact tcgacctggc cgaggatgcc aaactgcagc tgagcaagga
cacctacgac
3721 gacgacctgg acaacctgct ggcccagatc ggcgaccagt acgccgacct
gtttctggcc
3781 gccaaagaacc tgtccgacgc catcctgctg agcgacatcc tgagagtгаа
caccgagatc
3841 accaaggccc ccctgagcgc ctctatgatc aagagatacg acgagcacca
ccaggacctg
3901 accctgctga aagctctcgt gcggcagcag ctgcctgaga agtacaaga
gattttcttc
3961 gaccagagca agaacggcta cgccggctac attgacggcg gagccagcca
ggaagagttc
4021 tacaagttca tcaagccat cctggaaaag atggacggca ccgaggaact
gctcgtgaag
4081 ctgaacagag aggacctgct gcggaagcag cggaccttcg acaacggcag
catccccac
4141 cagatccacc tgggagagct gcacgccatt ctgcggcggc aggaagattt
ttaccattc
4201 ctgaaggaca accgggaaaa gatcgagaag atcctgacct tccgcatccc
ctactacgtg
4261 ggccctctgg ccaggggaaa cagcagattc gcctggatga ccagaaagag
cgaggaaacc
4321 atcacccctt ggaacttcga ggaagtggcg gacaagggcg cttccgcca
gagcttcac
4381 gagcggatga ccaacttcga taagaacctg cccaacgaga aggtgctgcc
caagcacagc
4441 ctgctgtacg agtacttcac cgtgtataac gagctgacca aagtгааata
cgtgaccgag
4501 ggaatgagaa agcccgcctt cctgagcggc gagcagaaaa aggccatcgt
ggacctgctg
4561 ttcaagacca accggaaagt gaccgtgaag cagctгааag aggactactt
caagaaaatc
4621 gagtgcttcg actccgtgga aatctccggc gtggaagatc ggttcaacgc
ctccctgggc
4681 acataccacg atctgctgaa aattatcaag gacaaggact tcctggacia
tgaggaaaac
4741 gaggacattc tggaagatat cgtgctgacc ctgacactgt ttgaggacag
agagatgatc
4801 gaggaacggc tgaaaaccta tgcccacctg ttcgacgaca aagtgatгаа
gcagctgaag
4861 cggcggagat acaccggctg gggcaggctg agccggaagc tgatcaaagg
catccgggac

4921 aagcagtccg gcaagacaat cctggatttc ctgaagtccg acggcttcgc
caacagaaac
4981 ttcatgcagc tgatccacga cgacagcctg acctttaaag aggacatcca
gaaagcccag
5041 gtgtccggcc agggcgatag cctgcacgag cacattgcca atctggccgg
cagccccgcc
5101 attaagaagg gcatcctgca gacagtgaag gtggtggacg agctcgtgaa
agtgatgggc
5161 cggcacaagc ccgagaacat cgtgatcgaa atggccagag agaaccagac
caccagaag
5221 ggacagaaga acagccgca gagaatgaag cggatcgaag agggcatcaa
agagctgggc
5281 agccagatcc tgaagaaca ccccgaggaa aacaccagc tgcagaacga
gaagctgtac
5341 ctgtactacc tgcagaatgg gcgggatag tacgtggacc aggaactgga
catcaaccgg
5401 ctgtccgact acgatgtgga ccatatcgtg cctcagagct ttctgaagga
cgactccatc
5461 gacaacaagg tgctgaccag aagcgacaag aaccggggca agagcgacaa
cgtgccctcc
5521 gaagaggctc tgaagaagat gaagaactac tggcggcagc tgctgaacgc
caagctgatt
5581 acccagagaa agttcgacaa tctgaccaag gccgagagag gcggcctgag
cgaactggat
5641 aaggccggct tcatcaagag acagctggtg gaaaccggc agatcacaaa
gcagctggca
5701 cagatcctgg actcccggat gaacactaag tacgacgaga atgacaagct
gatccgggaa
5761 gtgaaagtga tcaccctgaa gtccaagctg gtgtccgatt tccggaagga
tttccagttt
5821 taaaaagtgc gcgagatcaa caactaccac cacgcccacg acgcctacct
gaagcccgtc
5881 gtgggaaccg ccctgatcaa aaagtaccct aagctggaaa gcgagttcgt
gtacggcgac
5941 tacaaggtgt acgacgtgag gaagatgatc gccaagagcg agcaggaaat
cggcaaggct
6001 accgccaagt acttcttcta cagcaacatc atgaactttt tcaagaccga
gattaccctg
6061 gccaacggcg agatccggaa gcggcctctg atcgagacaa acggcgaaac
cggggagatc
6121 gtgtgggata agggccggga ttttgccacc gtgcggaag tgctgagcat
gccccagtg
6181 aatatcgtga aaaagaccga ggtgcagaca ggcggttca gcaaagagtc
tatcctgccc
6241 aagaggaaca gcgataagct gatcgccaga aagaaggact gggaccctaa
gaagtacggc
6301 ggcttcgaca gccccaccgt ggcctattct gtgctggtgg tggccaaagt
ggaaaagggc
6361 aagtccaaga aactgaagag tgtgaaagag ctactgggga tcaccatcat
ggaaagaagc
6421 agcttcgaga agaatcccat cgactttctg gaagccaagg gctacaaaga
agtgaaaaag
6481 gacctgatca tcaagctgcc taagtactcc ctgttcgagc tggaaaacgg
ccggaagaga

6541 atgctggcct ctgccggcga actgcagaag ggaaacgaac tggccctgcc
ctccaaatat
6601 gtgaacttcc tgtacctggc cagccactat gagaagctga agggctcccc
cgaggataat
6661 gagcagaaac agctgtttgt ggaacagcac aagcactacc tggacgagat
catcgagcag
6721 atcagcgagt tctccaagag agtgatcctg gccgacgcta atctggacaa
agtgtgttcc
6781 gcctacaaca agcaccggga taagcccatc agagagcagg ccgagaatat
catccacctg
6841 tttaccctga ccaatctggg agcccctgcc gccttcaagt actttgacac
caccatcgac
6901 cggaagaggt acaccagcac caaagagggt ctggacgcca ccctgatcca
ccagagcatc
6961 accggcctgt acgagacacg gatcgacctg tctcagctgg gaggcgacaa
gcgacctgcc
7021 gccacaaaga aggctggaca ggctaagaag aagaagatt acaaagacga
tgacgataag
7081 ggatccggcg caacaaactt ctctctgctg aaacaagccg gagatgtcga
agagaatcct
7141 ggaccgatgg ccaagccttt gtctcaagaa gaatccacc tcattgaaag
agcaacggct
7201 acaatcaaca gcatcccat ctctgaagac tacagcgctg ccagcgcagc
tctctctagc
7261 gacggccgca tcttactgg tgtcaatgta tatcatttta ctgggggacc
ttgtgcagaa
7321 ctctgtgtgc tgggactgc tgctgctgcg gcagctggca acctgacttg
tatctctgcg
7381 atcggaaatg agaacagggg catcttgagc ccctgcggac ggtgccgaca
ggtgcttctc
7441 gatctgcatc ctgggatcaa agccatagtg aaggacagtg atggacagcc
gacggcagtt
7501 gggattcgtg aattgctgcc ctctggttat gtgtgggagg gctaagaatt
cgatatcaag
7561 cttatcggtg atcaacctct ggattacaaa atttgtgaaa gattgactgg
tattcttaac
7621 tatgttgctc cttttacgct atgtggatac gctgctttaa tgcctttgta
tcatgctatt
7681 gcttcccgtg tggctttcat tttctcctcc ttgtataaat cctggttgct
gtctctttat
7741 gaggagtgtg ggcccgttgt caggcaacgt ggcgtggtgt gcaactgtgtt
tgctgacgca
7801 acccccactg gttggggcat tgccaccacc tgtcagctcc tttccgggac
tttcgcttcc
7861 cccctcccta ttgccacgga ggaactcatc gccgcctgcc ttgcccgtg
ctggacaggg
7921 gctcggtgtg tgggactga caattccgtg gtgttgctcg ggaaatcatc
gtcctttcct
7981 tggctgctcg cctgtgttgc cacctggatt ctgcgcggga cgtccttctg
ctacgtccct
8041 tcggccctca atccagcggg ccttccttcc cgcggcctgc tgccggctct
gcggcctctt
8101 ccgctcttcc gccttcgccc tcagacgagt cggatctccc tttgggccgc
ctccccgcat

8161 cgataccgtc gacctcgaga cctagaaaaa catggagcaa tcacaagtag
caatacagca
8221 gctaccaatg ctgattgtgc ctggctagaa gcacaagagg aggaggaggt
gggttttcca
8281 gtcacacctc aggtacctt aagaccaatg acttacaagg cagctgtaga
tcttagccac
8341 tttttaaaag aaaagagggg actggaaggg ctaattcact cccaacgaag
acaagatctg
8401 ctttttgctt gtactgggtc tctctgggta gaccagatct gagcctggga
gctctctggc
8461 taactagga acccactgct taagcctcaa taaagcttgc cttgagtgtc
tcaagtagtg
8521 tgtgcccgtc tgttgtgtga ctctggtaac tagagatccc tcagaccctt
ttagtcagtg
8581 tggaaaatct ctagcagtag tagttcatgt catcttatta ttcagtattt
ataacttgca
8641 aagaaatgaa tatcagagag tgagaggcct tgacattggt taaactggaa
tgtgtgtcag
8701 ttaggggtgtg gaaagtcccc aggctcccca gcaggcagaa gtatgcaaag
catgcatctc
8761 aattagtcag caaccaggtg tggaaagtcc ccaggctccc cagcaggcag
aagtatgcaa
8821 agcatgcatc tcaattagtc agcaaccata gtcccgcccc taactccgcc
catcccgcc
8881 ctaactccgc ccagttccgc ccattctccg ccccatggct gactaatatt
ttttatttat
8941 gcagaggccg aggccgcctc tgccctctgag ctattccaga agtagtgagg
aggctttttt
9001 ggaggcctag gcttttgcaa aaagctcccg ggagcttgta tatccattac
atgtgagcaa
9061 aaggccagca aaaggccagg aaccgtaaaa aggccgcggt gctggcggtt
ttccataggc
9121 tccgcccccc tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg
cgaaaccgga
9181 caggactata aagataccag gcgtttcccc ctggaagctc cctcgtgcbc
tctcctgttc
9241 cgaccctgcc gcttaccgga tacctgtccg cttttctccc ttcgggaagc
gtggcgcttt
9301 ctcatagctc acgctgtagg tatctcagtt cgggtgtaggt cgttcgctcc
aagctgggct
9361 gtgtgcacga acccccgtt cagcccgacc gctgcgcctt atccggtaac
tatcgtcttg
9421 agtccaacc ggtaagacac gacttatcgc cactggcagc agccactggt
aacaggatta
9481 gcagagcgag gtatgtagge ggtgctacag agttcttgaa gtggtggcct
aactacggct
9541 aactagaag aacagtattt ggtatctgcb ctctgctgaa gccagttacc
ttcggaaaaa
9601 gagttggtag ctcttgatcc ggcaaaaaa ccaccgctgg tagcggtttt
ttgtttgca
9661 agcagcagat tacgcbcaga aaaaaaggat ctcaagaaga tcctttgatc
ttttctacgg
9721 ggtctgacgc tcagtggaac gaaaactcac gttaagggat tttggtcatg
agattatcaa

```
    9781 aaaggatcct cacctagatc cttttaaatt aaaaatgaag ttttaaatca
atctaaagta
    9841 tatatgagta aacttgggtct gacagttacc aatgcttaat cagtgaggca
cctatctcag
    9901 cgatctgtct atttcgttca tccatagttg cctgactccc cgctcgtgag
ataactacga
    9961 tacgggaggg cttaccatct ggccccagtg ctgcaatgat accgcgagac
ccacgctcac
    10021 cggctccaga tttatcagca ataaaccagc cagccggaag ggccgagcgc
agaagtggtc
    10081 ctgcaacttt atccgcctcc atccagtcta ttaattgttg ccgggaagct
agagtaagta
    10141 gttcgccagt taatagtttg cgcaacgttg ttgccattgc tacaggcatc
gtgggtgcac
    10201 gctcgtcgtt tggatggct tcattcagct ccggttccca acgatcaagg
cgagttacat
    10261 gatcccccat gttgtgcaaa aaagcgggta gtccttcgg tcctccgatc
gttgtcagaa
    10321 gtaagttggc cgcagtgta tcaactcatgg ttatggcagc actgcataat
tctcttactg
    10381 tcatgccatc cgtaagatgc ttttctgtga ctggtgagta ctcaaccaag
tcattctgag
    10441 aatagtgtat gcggcgaccg agttgctctt gcccggcgtc aatacgggat
aataccgcgc
    10501 cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg
cgaaaactct
    10561 caaggatcct accgctgttg agatccagtt cgatgtaacc cactcgtgca
cccaactgat
    10621 cttcagcatc ttttactttc accagcgttt ctgggtgagc aaaaacagga
aggcaaatg
    10681 ccgcaaaaaa gggaataagg gcgacacgga aatggtgaat actcatactc
ttcctttttc
    10741 aatattattg aagcatttat caggggttatt gtctcatgag cggatacata
ttgfaatgta
    10801 tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagtg
ccacctgacg
    10861 t
//
```