



LOCUS Exported 11280 bp ds-DNA circular SYN 18-
 DEC-2020
 DEFINITION synthetic circular DNA
 ACCESSION .
 VERSION .
 KEYWORDS pINT-dCas9-KRAB-EFS-Puromycin
 SOURCE synthetic DNA construct
 ORGANISM synthetic DNA construct
 REFERENCE 1 (bases 1 to 11280)
 AUTHORS Transomic
 TITLE Direct Submission
 JOURNAL Exported Friday, Dec 18, 2020 from SnapGene 5.2.4
<https://www.snapgene.com>
 FEATURES Location/Qualifiers
 source 1..11280
 /organism="synthetic DNA construct"
 /mol_type="other DNA"

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promoter      6..232
              /label=RSV promoter
              /note="Rous sarcoma virus enhancer/promoter"
LTR          233..413
              /label=5' LTR (truncated)
              /note="truncated 5' long terminal repeat (LTR) from
HIV-1"
misc_feature 460..585
              /label=HIV-1 Psi
              /note="packaging signal of human immunodeficiency
virus
misc_feature type 1"
              1078..1311
              /label=RRE
              /note="The Rev response element (RRE) of HIV-1
allows for
              Rev-dependent mRNA export from the nucleus to the
              cytoplasm."
misc_feature 1818..1933
              /label=cPPT/CTS
              /note="central polypurine tract and central
termination
              sequence of HIV-1 (lacking the first T)"
promoter     1984..2195
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              /note="core promoter for human elongation factor
              EF-1-alpha"
regulatory   2202..2211
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              /label=Kozak sequence
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initiation
              of translation (Kozak, 1987)"
CDS         2214..2234
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              /translation="PKKKRKV"
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endonuclease from the Streptococcus pyogenes Type II
CRISPR/Cas system"
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/note="RNA-guided DNA-binding protein that lacks
endonuclease activity due to the D10 mutation in the
RuvC-like domain and the H840A mutation in the HNH
domain"

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         /gene="ZNF10"
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transcriptional
repression domain from the human zinc finger protein
ZNF10
(Margolin et al., 1994)"
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bond
between the Gly and Pro residues, yielding separate
polypeptides."
/translation="ATNFSLLKQAGDVEENPGP"
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         /gene="pac from Streptomyces alboniger"
         /product="puromycin N-acetyltransferase"
         /label=PuroR
         /note="confers resistance to puromycin"

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LTR         8021..8254
             /label=3' LTR (Delta-U3)

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              /note="SV40 polyadenylation signal"
rep_origin   8487..8622
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              /note="SV40 origin of replication"
rep_origin   complement(9057..9645)
              /direction=LEFT
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of
           replication"
CDS         complement(9816..10676)
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           /product="beta-lactamase"
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carbenicillin, and
           related antibiotics"

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promoter    complement(10677..10781)
           /gene="bla"
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