



LOCUS Exported 7471 bp ds-DNA circular SYN 30-
OCT-2020
DEFINITION synthetic circular DNA
ACCESSION .
VERSION .
KEYWORDS pZIP-hEF1a-Blasticidin
SOURCE synthetic DNA construct
ORGANISM synthetic DNA construct
REFERENCE 1 (bases 1 to 7471)
AUTHORS .
TITLE Direct Submission
JOURNAL Exported Friday, Oct 30, 2020 from SnapGene 5.1.7
<https://www.snapgene.com>
FEATURES Location/Qualifiers
source 1..7471
/organism="synthetic DNA construct"

gDNA /note="Twelve replicate reactions containing 825 ng
cycle were amplified and each carried out to a different
number from 15-27. Each replicate reaction vessel
was placed on ice immediately after the designated
number of cycles completed to arrest the reaction. 10 µl of
product from each reaction was analyzed using agarose gel
serially electrophoresis. An aliquot of each product was
An diluted 25 000-, 100 000- and 400 000-fold in water.
served as aliquot from each dilution of each PCR replicate
using template for SYBR qPCR reactions that were prepared
common Absolute Blue qPCR SYBR Green master mix (Thermo
Scientific, Epsom, UK) and primers that amplify
of 127 sequence of the shRNA barcode PCR products
(For-5?caaggggctacttttaggagcaa, Rev-
5?aatttataaccattttaattcagcttg), generating a product
bp."
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regulatory element"
LTR 4972..5205
/label=3' LTR (Delta-U3)
/note="self-inactivating 3' long terminal repeat
(LTR) from HIV-1"
promoter 5301..5630
/label=SV40 promoter
/note="SV40 enhancer and early promoter"
rep_origin 5481..5616
/label=SV40 ori
/note="SV40 origin of replication"
rep_origin complement(5719..6304)
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/note="high-copy-number Cole1/pMB1/pBR322/pUC origin
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CDS complement(6475..7335)
/codon_start=1
/gene="bla"
/product="beta-lactamase"
/label=AmpR

carbenicillin, and /note="confers resistance to ampicillin,
related antibiotics"

/translation="MSIQHFRVALIPFFAAFLPVFAHPETLVKVKDAEDQLGARVGYI
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LIKHW"

promoter complement (7336..7440)
/gene="bla"
/label=AmpR promoter

ORIGIN

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