



LOCUS Exported 8012 bp DNA circular SYN 21-DEC-2021
 DEFINITION synthetic circular DNA
 ACCESSION .
 VERSION .
 KEYWORDS pZIP-SFFV-mCherry-Blasticidin
 SOURCE synthetic DNA construct
 ORGANISM recombinant plasmid
 REFERENCE 1 (bases 1 to 8012)
 AUTHORS Transomic
 TITLE Direct Submission
 JOURNAL Exported Dec 21, 2021 from SnapGene 6.0.0
<https://www.snapgene.com>
 FEATURES Location/Qualifiers
 source 1..8012
 /mol_type="other DNA"
 /organism="recombinant plasmid"
 enhancer 27..404
 /label=CMV enhancer
 /note="human cytomegalovirus immediate early
 enhancer"

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LTR                411..668
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                   /note="truncated 5' long terminal repeat (LTR) from
HIV-1"
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                   /label=HIV-1 Psi
                   /note="packaging signal of human immunodeficiency
virus
  misc_feature     type 1"
                   1337..1570
                   /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."
                   2062..2178
                   /label=cPPT/CTS
                   /note="central polypurine tract and central
termination
  misc_feature     sequence of HIV-1 (lacking the first T)"
                   2213..2214
                   /label=MCS
  primer_bind     2225..2625
                   /label=seq.ZsGrev
  promoter        2225..2625
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  primer_bind     2488..2625
                   /label=seq.SFFVfw
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protein
                   (Shaner et al., 2004)"
                   /label=mCherry
                   /note="mammalian codon-optimized"

/translation="MVSKGEEDNMAIIKEFMRFKVHMEGSVNGHEFEIEGEGEGRPYEG
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                   /gene="Aspergillus terreus BSD"
                   /product="blasticidin S deaminase"
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        /note="confers resistance to blasticidin"

/translacion="MAKPLSQEESTLIERATATINSIPISEDYSVASAALSSDGRIFTG
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                        /label=Illumina actual seq primer
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    misc_feature      4586..4607
                        /label=For 5' for Pool qPCR
                        /note="Twelve replicate reactions containing 825 ng
gDNA
cycle
was
number of
product
serially
An
served as
using
common
of 127
    misc_feature      4697
                        /label=UltramiR3'
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                        /label=WPRE
                        /note="woodchuck hepatitis virus posttranscriptional
                        regulatory element"
    CDS                complement(5188..5199)

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(LTR) from HIV-1"
promoter 5842..6171
/label=SV40 promoter
/note="SV40 enhancer and early promoter"
rep_origin 6022..6157
/label=SV40 ori
/note="SV40 origin of replication"
rep_origin complement(6260..6845)
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/note="high-copy-number ColE1/pMB1/pBR322/pUC origin
of replication"
CDS complement(7016..7876)
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carbenicillin, and related antibiotics"

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