



LOCUS Exported 8824 bp DNA circular SYN 21-DEC-2021
 DEFINITION synthetic circular DNA
 ACCESSION .
 VERSION .
 KEYWORDS pZIP-hCMV-mCherry-Hygromycin
 SOURCE synthetic DNA construct
 ORGANISM recombinant plasmid
 REFERENCE 1 (bases 1 to 8824)
 AUTHORS Transomic
 TITLE Direct Submission
 JOURNAL Exported Dec 21, 2021 from SnapGene 6.0.0
<https://www.snapgene.com>
 FEATURES Location/Qualifiers
 source 1..8824
 /mol_type="other DNA"
 /organism="recombinant plasmid"
 enhancer 27..404
 /label=CMV enhancer
 /note="human cytomegalovirus immediate early
 enhancer" LTR 411..668
 /label=5' LTR (truncated)

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HIV-1"
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                    /note="packaging signal of human immunodeficiency
virus
    misc_feature    type 1"
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                    /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
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termination
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                    2213..2214
                    /label=MCS
    enhancer        2235..2538
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protein
                    (Shaner et al., 2004)"
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	/label=shRNA
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misc_feature	5398..5419
	/label=For 5' for Pool qPCR
	/note="Twelve replicate reactions containing 825 ng

gDNA

were amplified and each carried out to a different

cycle

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

electrophoresis. An aliquot of each product was

serially

diluted 25 000-, 100 000- and 400 000-fold in water.

An

aliquot from each dilution of each PCR replicate

served as

template for SYBR qPCR reactions that were prepared

using

Absolute Blue qPCR SYBR Green master mix (Thermo

Scientific, Epsom, UK) and primers that amplify

common

sequence of the shRNA barcode PCR products

(For-5?caaggggctacttttaggagcaa, Rev-

5?aatttataaccatttttaattcagctttg), generating a product

of 127

bp."

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(LTR) from
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