



LOCUS Exported 10321 bp ds-DNA circular SYN 30-
OCT-2020
DEFINITION synthetic circular DNA
ACCESSION .
VERSION .
KEYWORDS pZIP-TRE3G-ZsGreen-Puromycin
SOURCE synthetic DNA construct
ORGANISM synthetic DNA construct
REFERENCE 1 (bases 1 to 10321)
AUTHORS Transomic
TITLE Direct Submission
JOURNAL Exported Friday, Oct 30, 2020 from SnapGene 5.1.7
<https://www.snapgene.com>
FEATURES Location/Qualifiers
source 1..10321
/organism="recombinant plasmid"
/mol_type="other DNA"
LTR 1..635
/label="5' LTR"
/note="5' LTR"
misc_feature 681..806

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misc_feature 1303..1536
        /label=RRE
        /note="RRE"
misc_feature 2028..2143
        /label=cPPT/CTS
        /note="cPPT/CTS
        central polypurine tract and central termination
        sequence of HIV-1 (lacking the first T)"
polyA_signal 2187..2321
        /label=SV40 poly(A) signal
        /note="SV40 poly(A) signal
        SV40 polyadenylation signal"
misc_feature 2489..2600
        /label=3'-UltramiR
        /note="3'-UltramiR"
misc_feature 2576..2597
        /label=For 5' for Pool qPCR
        /note="For 5' for Pool qPCR
        Twelve replicate reactions containing 825 ng gDNA
        were amplified and each carried out to a different
cycle
was
number of
product
serially
An
served as
using
common
of 127
        /label=shRNA
        /note="shRNA"
gap 2617..2638
        /estimated_length=22
gap 2658..2679
        /estimated_length=22
misc_feature 2680..2717

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        /label=Illumina actual seq primer
        /note="Illumina actual seq primer"
misc_feature 2713..2807
              /label=5'-UltramiR
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CDS          complement(2879..3574)
              /codon_start=1
              /label=ZsGreen
              /note="ZsGreen"

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CICNADITVSVEENCMYHESKFYGVNFPADGPMKKMTDNWEPSCEKIIPVVKQGILKG
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AIASGSALP"
promoter    complement(3614..3981)
              /label=TRE3Gs
              /note="TRE3GS promoter
              3rd-generation Tet-responsive promoter that can be
              eliminate binding sites for endogenous mammalian transcription
              factors"
protein_bind 3739..3757
              /gene="tetO"
              /label=tet operator
              /bound_moiety="tetracycline repressor TetR"
              /note="bacterial operator O2 for the tetR and tetA
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protein_bind 3775..3793
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    CDS              4531..5277
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                    /label=Tet-On 3G
                    /note="Tet-On 3G"

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    CDS              5626..6225
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                    APRNLPPFYERLGFTVTADVEVPEGPRTWCMTRKPGA"
    misc_feature     6243..6831
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                    /note="WPRE"
    LTR              7039..7672
                    /label=3' LTR
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    primer_bind      complement(7801..7817)

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        /label=M13 rev
        /note="common sequencing primer, one of multiple
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        protein_bind 7825..7841
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        /note="The lac repressor binds to the lac operator
to
        inhibit transcription in E. coli. This inhibition
can be
        relieved by adding lactose or
        isopropyl-beta-D-thiogalactopyranoside (IPTG)."
        promoter 7849..7879
        /label=lac promoter
        /note="promoter for the E. coli lac operon"
        protein_bind 7894..7915
        /label=CAP binding site
        /bound_moiety="E. coli catabolite activator protein"
        /note="CAP binding activates transcription in the
presence
        of cAMP."
        rep_origin 8203..8788
        /direction=LEFT
        /label=ori
        /note="ori
        high-copy-number ColE1/pMB1/pBR322/pUC origin of
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        CDS 8959..9819
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        /label=AmpR
        /note="AmpR"

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        SV40 polyadenylation signal"
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