



LOCUS pLMPd-Ametrine-V 6740 bp DNA circular SYN 13-JAN-2021

DEFINITION synthetic circular DNA

ACCESSION .

VERSION .

KEYWORDS pLMPd-Ametrine

SOURCE synthetic DNA construct

ORGANISM synthetic DNA construct

REFERENCE 1 (bases 1 to 6740)

AUTHORS Transomic

TITLE Direct Submission

JOURNAL Exported Jun 12, 2023 from SnapGene Viewer 6.1.2

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https://www.snapgene.com
FEATURES             Location/Qualifiers
    source            1..6740
                     /mol_type="other DNA"
                     /organism="synthetic DNA construct"
    misc_feature      579..920
                     /label=MESV Psi
                     /note="packaging signal of murine embryonic stem
cell
                     virus"
    misc_feature      1440..1534
                     /label=5'-UltramiR
    misc_feature      1530..1567
                     /label=Illumina actual seq primer
    misc_feature      1535..1646
                     /label=shRNA
    gap                1568..1589
                     /estimated_length=22
    gap                1609..1630
                     /estimated_length=22
    misc_feature      1647..1758
                     /label=3'-UltramiR
    misc_feature      1650..1671
                     /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
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'aatttataaccatttttaattcagctttg), generating a product
                     bp."
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                     /note="mouse phosphoglycerate kinase 1 promoter"

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 et al., 2008)"  
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 LTR 3102..3616  
 /label=3' LTR  
 /note="3' long terminal repeat from murine embryonic  
 stem cell virus"  
 primer\_bind complement(3785..3801)  
 /label=M13 rev  
 /note="common sequencing primer, one of multiple  
 similar variants"  
 protein\_bind 3809..3825  
 /label=lac operator  
 /bound\_moiety="lac repressor encoded by lacI"  
 /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 complement(3833..3863)  
 /label=lac promoter  
 /note="promoter for the E. coli lac operon"  
 protein\_bind 3878..3899  
 /label=CAP binding site  
 /bound\_moiety="E. coli catabolite activator protein"  
 /note="CAP binding activates transcription in the  
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        LTR            join(6739..6740,1..515)
                        /label=5' LTR
                        /note="5' long terminal repeat from murine embryonic
stem
                        cell virus"

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