



LOCUS Exported 4149 bp ds-DNA circular SYN 17-
 FEB-2016
 DEFINITION Vector that allows high-level transient expression in
 vertebrate cells and in vitro transcription/translation.
 ACCESSION DQ649433
 VERSION .
 KEYWORDS pCS108
 SOURCE synthetic DNA construct
 ORGANISM synthetic DNA construct
 REFERENCE 1 (bases 1 to 4149)
 AUTHORS .
 TITLE Direct Submission
 JOURNAL Exported Wednesday, Feb 17, 2016 from SnapGene 3.0.3
<http://www.snapgene.com>

FEATURES Location/Qualifiers
 source 1..4149
 /organism="synthetic DNA construct"
 /mol_type="other DNA"
 promoter 166..1150
 /note="CMV IE94 promoter"
 /note="enhancer/promoter region of simian
 cytomegalovirus major immediate early transcription unit IE94"
 promoter 1185..1203
 /note="SP6 promoter"
 /note="promoter for bacteriophage SP6 RNA
 polymerase"

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polyA_signal      1340..1474
                  /note="SV40 poly(A) signal"
                  /note="SV40 polyadenylation signal"
promoter          complement(1591..1609)
                  /note="T3 promoter"
                  /note="promoter for bacteriophage T3 RNA polymerase"
primer_bind      complement(1630..1646)
                  /note="M13 rev"
                  /note="common sequencing primer, one of multiple
similar
                  variants"
protein_bind     1654..1670
                  /bound_moiety="lac repressor encoded by lacI"
                  /note="lac operator"
                  /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(1678..1708)
                  /note="lac promoter"
                  /note="promoter for the E. coli lac operon"
rep_origin       complement(2032..2620)
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                  /note="high-copy-number ColE1/pMB1/pBR322/pUC origin
of
                  replication"
CDS               complement(2791..3651)
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                  /product="beta-lactamase"
                  /note="AmpR"
                  /note="confers resistance to ampicillin,
carbenicillin, and
                  related antibiotics"

/translation="MSIQHFRVALIPFFAAFLPVFFAHPETLVKVKDAEDQLGARVGYI
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                  /gene="bla"
                  /note="AmpR promoter"
rep_origin       complement(3782..88)
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/note="f1 bacteriophage origin of replication; arrow indicates direction of (+) strand synthesis"

ORIGIN

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