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LOCUS       Exported                               4131 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  DQ649432
VERSION    .
KEYWORDS   pCS107
SOURCE     synthetic DNA construct
  ORGANISM synthetic DNA construct
REFERENCE  1 (bases 1 to 4131)
  AUTHORS  .
  TITLE    Direct Submission
  JOURNAL  Exported Wednesday, Feb 17, 2016 from SnapGene 3.0.3
           http://www.snapgene.com
FEATURES   Location/Qualifiers
     source          1..4131
                   /organism="synthetic DNA construct"
                   /mol_type="other DNA"
     promoter        167..185
                   /note="SP6 promoter"
                   /note="promoter for bacteriophage SP6 RNA
polymerase"
     polyA_signal    304..438
                   /note="SV40 poly(A) signal"
  
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    promoter          /note="SV40 polyadenylation signal"
                    complement(555..573)
                    /note="T3 promoter"
    primer_bind      /note="promoter for bacteriophage T3 RNA polymerase"
                    complement(594..610)
                    /note="M13 rev"
                    /note="common sequencing primer, one of multiple
similar
                    variants"
    protein_bind     618..634
                    /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(642..672)
                    /note="lac promoter"
                    /note="promoter for the E. coli lac operon"
    rep_origin        complement(996..1584)
                    /direction=LEFT
                    /note="ori"
                    /note="high-copy-number ColE1/pMB1/pBR322/pUC origin
of
                    replication"
    CDS               complement(1755..2615)
                    /codon_start=1
                    /gene="bla"
                    /product="beta-lactamase"
                    /note="AmpR"
                    /note="confers resistance to ampicillin,
carbenicillin, and
                    related antibiotics"

/translation="MSIQHFRVALIPFFAAFLPVFFAHPETLVKVKDAEDQLGARVGYI
ELDLSNGKILESFRPEERFPMMSTFKVLLCGAVLSRIDAGQEQLGRRIHYSQNDLVEYS
PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAFLHNMGDHSVTRLDRW
EPELNEAIPNDERDITMPVAMATTLRKLTLGELLTLASRQQLIDWMEADKVAGPLLRSA
LPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIAEIGAS
LIKHW"
    promoter          complement(2616..2720)
                    /gene="bla"
                    /note="AmpR promoter"
    rep_origin        complement(2746..3201)
                    /direction=LEFT
                    /note="f1 ori"
                    /note="f1 bacteriophage origin of replication; arrow
                    indicates direction of (+) strand synthesis"

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promoter          3279..132
                  /note="CMV IE94 promoter"
                  /note="enhancer/promoter region of simian
cytomegalovirus   major immediate early transcription unit IE94"
ORIGIN
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gcaaattgggc
    61 gttccattga cgtaaattggg cggtaggcgt gcctaattggg aggtctatat
aagcaatgct
    121 cgttttaggga accgccattc tgcctgggga cgtcggagca agcttgattt
aggtgacact
    181 atagaataca agctacttgt tctttttgca ggatcccatc gattcgaatt
cgtcgcacagg
    241 ccaatctggc cgcgggccgca aggcctctcg agcctctcgc cctatagtga
gtcgtattac
    301 gtagatccag acatgataag atacattgat gagtttggac aaaccacaac
tagaatgcag
    361 tgaaaaaaaaat gctttatttg tgaaatttgt gatgctattg ctttatttgt
aaccattata
    421 agctgcaata aacaagttaa caacaacaat tgcattcatt ttatgtttca
ggttcagggg
    481 gaggtgtggg aggtttttta attcgcggcg cgccgcggcg ccaatgcatt
gggcccggtg
    541 cccagctttt gttcccttta gtgagggtta attgcgcgct tggcgtaatc
atggtcatag
    601 ctgtttcctg tgtgaaattg ttatccgctc acaattccac acaacatacg
agccggaagc
    661 ataaagtgta aagcctgggg tgccaatga gtgagctaac tcacattaat
tgcgttgcgc
    721 tcaactgcccg ctttcagtc gggaaacctg tcgtgccagc tgcattaatg
aatcgccaa
    781 cgcgcgggga gaggcggttt gcgtattggg cgctcttccg cttcctcgct
cactgactcg
    841 ctgcgctcgg tcgttcggct gcggcgagcg gtatcagctc actcaaaggc
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ccagcaaaag
    961 gccaggaacc gtaaaaaggc cgcgttgctg gcgtttttcc ataggctccg
ccccctgac
    1021 gagcatcaca aaaatcgacg ctcaagtcat aggtggcgaa acccgacagg
actataaaga
    1081 taccaggcgt ttccccctgg aagctccctc gtgcgctctc ctggtccgac
cctgccgctt
    1141 accggatacc tgtccgcctt tctcccttcg ggaagcgtgg cgcttttctca
tagctcacgc
    1201 tgtaggtatc tcagttcggg ttaggtcgtt cgctccaagc tgggctgtgt
gcacgaacct
    1261 cccgttcagc ccgaccgctg cgccttatcc ggtaactatc gtcttgagtc
caacctcgta
    1321 agacacgact tatcgccact ggcagcagcc actggtaaca ggattagcag
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tagaaggaca
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gcagcagatt
1561 acgcgcagaa aaaaaggatc tcaagaagat ctttgatct tttctacggg
gtctgacgct
1621 cagtggaacg aaaactcacg ttaagggatt ttggatcatga gattatcaaa
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1681 acctagatcc ttttaaatta aaaatgaagt tttaaatcaa tctaaagtat
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1741 acttggctctg acagttacca atgcttaatc agtgaggcac ctatctcagc
gatctgtcta
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1861 ttaccatctg gccccagtgc tgcaatgata ccgagagacc cacgctcacc
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1921 ttatcagcaa taaaccagcc agccggaagg gccgagcgca gaagtggctc
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ctcgtcgttt
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2281 gtaagatgct tttctgtgac tgggtgagtac tcaaccaagt cattctgaga
atagtgtatg
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acatagcaga
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2641 agcatttatc agggttattg tctcatgagc ggatacatat ttgaatgtat
ttagaaaaat
2701 aaacaaatag gggttccgcg cacatttccc cgaaaagtgc cacctaaatt
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2761 atatthttgtt aaaattcgcg ttaaattttt gttaaatcag ctcatthttt
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2881 ttccagtttg gaacaagagt ccactattaa agaacgtgga ctccaacgtc
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2941 aaaccgtcta tcagggcgat ggcccactac gtgaaccatc accctaatca
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tttagagctt

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3121 ctagggcgct ggcaagtgta gcggtcacgc tgcgcgtaac caccacaccc
gccgcgctta
3181 atgcgccgct acagggcgcg tcccattcgc cattcaggct gcgcaactgt
tggaagggc
3241 gatcgggtgcg ggcctcttcg ctattacgcc agtcgatcga ccatagccaa
ttcaatatgg
3301 cgtatatgga ctcatgccaa ttcaatatgg tggatctgga cctgtgccaa
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3361 cgtatatgga ctcgtgccaa ttcaatatgg tggatctgga cccagccaa
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3421 cggacttggc accatgccaa ttcaatatgg cggacttggc actgtgccaa
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3481 gtctacttgg cacggtgcca agtttgagga ggggtcttgg ccctgtgcca
agtccgcat
3541 attgaattgg catggtgcca ataatggcgg ccatattggc tatatgccag
gatcaatata
3601 taggcaatat ccaatatggc cctatgccaa tatggctatt ggccaggttc
aatactatgt
3661 attggcccta tgccatatag tattccatat atgggttttc ctattgacgt
agatagcccc
3721 tccaatggg cgggccata taccatata ggggcttct aataccgcc
atagccactc
3781 cccattgac gtcaatggtc tctatatatg gtctttccta ttgacgtcat
atggcggtc
3841 ctattgacgt atatggcgcc tccccattg acgtcaatta cggtaaattg
ccgcctggc
3901 tcaatgcca tgacgtcaa taggaccacc caccattgac gtcaatggga
tggtcattg
3961 cccattcata tccgttctca cgccccctat tgacgtcaat gacggtaaatt
ggcccacttg
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//
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