



LOCUS Exported 2961 bp ds-DNA circular SYN 04-

MAR-2013

DEFINITION Derivative of pBluescript II SK(+) with an SrfI site for inserting blunt PCR products.

ACCESSION .

VERSION .

KEYWORDS pPCR-Script Amp SK(+)

SOURCE synthetic DNA construct

ORGANISM synthetic DNA construct

REFERENCE 1 (bases 1 to 2961)

AUTHORS Agilent Technologies

TITLE Direct Submission

JOURNAL Exported Wednesday, Feb 17, 2016 from SnapGene 3.0.3  
<http://www.snapgene.com>

FEATURES

source

Location/Qualifiers

1..2961

/organism="synthetic DNA construct"

/lab\_host="Escherichia coli"

/mol\_type="other DNA"

rep\_origin

complement(3..458)

/direction=LEFT

/note="f1 ori"

/note="f1 bacteriophage origin of replication; arrow indicates direction of (+) strand synthesis"

CDS

complement(241..816)

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/codon_start=1
/gene="lacZ (fragment)"
/product="LacZ-alpha fragment of beta-galactosidase"
/note="lacZ-alpha"

/translation="MTMITPSAQLTLTKGNKSWSSSTAVAAALARADPPGCRNSISSLSI
PSTSRGGPVPNSPYSESYARSLAVVLQRRDWENPGVTQLNRLAAHPPFASWRNSEEAR
TDRPSQQLRSLNGEWDAPCSGALSAAGVVVTRSVTATLASALAPAPFAFFPSFLATFAG
FPRQALNRGLPLGFRFSALRHLDPKKLD"
    primer_bind    600..616
                   /note="M13 fwd"
                   /note="common sequencing primer, one of multiple
similar
                   variants"
    promoter       626..644
                   /note="T7 promoter"
                   /note="promoter for bacteriophage T7 RNA polymerase"
    misc_feature   653..760
                   /note="MCS"
                   /note="multiple cloning site"
    primer_bind    670..686
                   /note="KS primer"
                   /note="common sequencing primer, one of multiple
similar
                   variants"
    promoter       complement(773..791)
                   /note="T3 promoter"
                   /note="promoter for bacteriophage T3 RNA polymerase"
    primer_bind    complement(812..828)
                   /note="M13 rev"
                   /note="common sequencing primer, one of multiple
similar
    protein_bind   836..852
                   /bound_moiety="lac repressor encoded by lacI"
                   /note="lac operator"
                   /note="The lac repressor binds to the lac operator
to
can be
                   inhibit transcription in E. coli. This inhibition
                   relieved by adding lactose or
                   isopropyl-beta-D-thiogalactopyranoside (IPTG)."
    promoter       complement(860..890)
                   /note="lac promoter"
                   /note="promoter for the E. coli lac operon"
    rep_origin     complement(1214..1802)
                   /direction=LEFT
                   /note="ori"
                   /note="high-copy-number ColE1/pMB1/pBR322/pUC origin
of
    CDS            replication"
                   complement(1973..2833)

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/codon_start=1
/gene="bla"
/product="beta-lactamase"
/note="AmpR"
/note="confers resistance to ampicillin,
carbenicillin, and
related antibiotics"

/translation="MSIQHFRVALIPFFAAFCLPVFAHPETLVKVKDAEDQLGARVGYI
ELDLNSGKILESFRPEERFPMMSTFKVLLCGAVLSRIDAGQEQLGRRIHYSQNDLVEYS
PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAF LHNMGDHSVTRLDRW
EPELNEAIPNDERDTMPVAMATTLRKLTLGELLTLASRQQLIDWMEADKVAGPLL RSA
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LIKHW"
promoter complement (2834..2938)
/gene="bla"
/note="AmpR promoter"

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aatagaccga
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2761 ggtgagcaaa aacaggaagg caaaatgccg caaaaaaggg aataagggcg
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