



LOCUS Exported 2990 bp ds-DNA circular SYN 05-
 MAR-2013
 DEFINITION Bacterial vector for cloning full-length cDNAs. Also known as
 pFLCI
 or pFLC1.
 ACCESSION .
 VERSION .
 KEYWORDS pFLC-I
 SOURCE synthetic DNA construct
 ORGANISM synthetic DNA construct
 REFERENCE 1 (bases 1 to 2990)
 AUTHORS Carninci P, Shibata Y, Hayatsu N, Itoh M, Shiraki T, Hirozane
 T,
 TITLE Watahiki A, Shibata K, Konno H, Muramatsu M, Hayashizaki Y.
 Balanced-size and long-size cloning of full-length, cap-
 trapped
 cDNAs into vectors of the novel lambda-FLC family allows
 enhanced
 gene discovery rate and functional analysis.
 JOURNAL Genomics 2001;77:79-90.
 PUBMED 11543636
 REFERENCE 2 (bases 1 to 2990)
 AUTHORS Xenbase
 TITLE Direct Submission

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

FEATURES Location/Qualifiers

source 1..2990
 /organism="synthetic DNA construct"
 /lab_host="Escherichia coli"
 /mol_type="other DNA"

rep_origin complement(6..461)
 /direction=LEFT
 /note="f1 ori"
 /note="f1 bacteriophage origin of replication; arrow indicates direction of (+) strand synthesis"

primer_bind 603..619
 /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"

protein_bind 677..710
 /bound_moiety="Cre recombinase"
 /note="loxP"
 /note="Cre-mediated recombination occurs in the 8-bp core sequence (GCATACAT)."

promoter complement(805..823)
 /note="T3 promoter"
 /note="promoter for bacteriophage T3 RNA polymerase"

primer_bind complement(844..860)
 /note="M13 rev"
 /note="common sequencing primer, one of multiple similar variants"

protein_bind 868..884
 /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(892..922)
 /note="lac promoter"
 /note="promoter for the E. coli lac operon"

rep_origin complement(1246..1834)
 /direction=LEFT
 /note="ori"
 /note="high-copy-number ColE1/pMB1/pBR322/pUC origin of replication"

CDS complement(2005..2865)
 /codon_start=1

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        /product="beta-lactamase"
        /note="AmpR"
        /note="confers resistance to ampicillin,
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        related antibiotics"

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        /note="AmpR promoter"

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