



LOCUS Exported 2897 bp ds-DNA circular SYN 05-MAR-2013

DEFINITION Directional cDNA cloning vector. Also known as pT7T3-Pac, pT7T3Pac, pT7T3D-Pac, or pT7T3D.

ACCESSION .

VERSION .

KEYWORDS pT7T3D-PacI

SOURCE synthetic DNA construct

ORGANISM synthetic DNA construct

REFERENCE 1 (bases 1 to 2897)

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TITLE Direct Submission

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<http://www.snapgene.com>

FEATURES

source	Location/Qualifiers
	1..2897
	/organism="synthetic DNA construct"
	/lab_host="Escherichia coli"
	/mol_type="other DNA"
primer_bind	142..158
	/note="M13 fwd"
	/note="common sequencing primer, one of multiple variants"

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promoter          169..187
                  /note="T3 promoter"
                  /note="promoter for bacteriophage T3 RNA polymerase"
misc_feature      192..259
                  /note="MCS"
                  /note="multiple cloning site"
promoter          complement(266..284)
                  /note="T7 promoter"
                  /note="promoter for bacteriophage T7 RNA polymerase"
primer_bind       complement(299..315)
                  /note="M13 rev"
                  /note="common sequencing primer, one of multiple
similar
                  variants"
protein_bind      323..339
                  /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
promoter          complement(347..377)
                  /note="lac promoter"
                  /note="promoter for the E. coli lac operon"
rep_origin        complement(701..1289)
                  /direction=LEFT
                  /note="ori"
                  /note="high-copy-number Cole1/pMB1/pBR322/pUC origin
of
                  replication"
CDS               complement(1460..2320)
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                  /product="beta-lactamase"
                  /note="AmpR"
                  /note="confers resistance to ampicillin,
carbenicillin, and
                  related antibiotics"

/translation="MSIQHFRVALIPFFAAFLPVFSAHPETLVKVKDAEDQLGARVGYI
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LIKHW"
promoter          complement(2321..2425)
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                  /note="AmpR promoter"

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ORIGIN

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