LITMUSTM 28i Vector





N3528S

20 µg 500 ua/ml Lot: 0021208

Exp: 8/14 Store at -20°C

Description: LITMUS 28i is a multi-purpose cloning/in vitro transcription phagemid vector. The molecule is a small, double-stranded circle 2.823 base pairs in length (molecular weight =1.8 x 106 daltons).

Supplied in: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA.

The key features of this vector are:

 Extensive set of restriction sites in polylinker, many with unique 4-base overhangs

T7 Promoter \rightarrow

EcoRI

SacI

5 '... AGCTACGTAATACGACTCACTATAGGGCAGATCTTCGAATGCATCGCGCGC

PstI EcoRV

KpnI

Acc 65I

BglII

ACCGTACGTCTCGAGGAATTCCTGCAGGATATCTGGATCCACGAAGCTTCCCATGGTGACGTCACCGGT

TCTAGATACCTAGGTGAGCTCTGGTACCCTCTAGTCAAGGCCTATAGTGAGTCGTATTACGGActq...3

BamHI

StuI

NsiI

+1

HindIII

- · Blue/white selection
- Small (< 3 kb), high copy number
- Ampicillin resistance

LITMUS 28i Polylinker Region:

SnaBI

BsiWI

XbaI

XhoI

AvrII

- Single-stranded (M13) DNA replication origin
- Opposing T7 promoters for making RNA transcripts in either direction or doublestranded RNA
- Compatible with pUC/M13 sequencing primers as well as LITMUS sequencing primers

Bss HII

NcoI

AatII

AgeI

Preparation: LITMUS 28i is isolated from E. coli ER2738 by a standard plasmid purification procedure.

Note: Appropriate strains of *E. coli* containing the LITMUS 28i plasmid form blue colonies on X-gal plates; when a fragment is inserted in the polylinker, the colonies are white. Blue/white selection is best achieved by plating on a rich media (e.g. LB) supplemented with X-gal (40 µgml) and IPTG (0.1 mM).

Notice to Buyer/User: The Buyer/User has a non-exclusive license to use this vector for RESEARCH PURPOSES ONLY.* Commercial use of the LITMUS Vectors may require a license from New England Biolabs, Inc.

*Use of this vector for double-stranded RNA interference by For-Profit organizations may require a license from the Carnegie Institution of Washington. For further information. contact the Director of Administration and Finance at the Carnegie Institution of Washington at 1530 P Street, N.W., Washington D.C., 20005-1910. Tel 202-939-1118.

CERTIFICATE OF ANALYSIS

LITMUSTM 28i Vector



1-800-632-7799 info@neb.com www.neb.com

BioLabs

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← T7 Promoter

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LITMUS 28i Polylinker Region:

T7 Promoter \rightarrow 5 '... AGCTACGTAATACGACTCACTATAGGGCAGATCTTCGAATGCATCGCGCGC SnaBI BglII NsiI Bss HII ACCGTACGTCTCGAGGAATTCCTGCAGGATATCTGGATCCACGAAGCTTCCCATGGTGACGTCACCGGT NcoI BsiWI XhoI EcoRI PstI EcoRV **BamHI** HindIII AatII AgeI +1 TCTAGATACCTAGGTGAGCTCTGGTACCCTCTAGTCAAGGCCTATAGTGAGTCGTATTACCGGActq...3 XbaI AvrII SacI KonI StuI ← T7 Promoter Acc 65I

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