

7 Anhang

7.1 Vektor pQE30NST

7.1.1 MCS des Vektors pQE30NST

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XhoI
|
CTCGAGAAATCATAAAAAATTTATTTGCTTTGTGAGCGGATAACAATTATAATAGATTCA
1 -----+-----+-----+-----+-----+-----+-----+-----+ 60
GAGCTCTTTAGTATTTTTTAAATAAACGAAACACTCGCCTATTGTTAATATTATCTAAGT

                                     EcoRI
                                     |
pQE65                               < RBS >
ATTGTGAGCGGATAACAATTTACACAGAAATTCATTAAAGAGGAGAAATTAACATGAGA
61 -----+-----+-----+-----+-----+-----+-----+ 120
TAACTACTCGCCTATTGTTAAAGTGTGTCTTAAGTAATTTCTCCTCTTTAATTGATACTCT

                                     BamHI
                                     |
                                     NST-rev
                                     |
GGATCGCATCACCATCACCATCACGGATCCtatttaggtgacactatagaatcgtcgacc
121 -----+-----+-----+-----+-----+-----+-----+ 180
CCTAGCGTAGTGGTAGTGGTAGTGCCTAGGataaatccactgtgatatcttagcagctgg

EagI
BgIII   NotI
|         |
tgcaagatctgcccgcctccctatagtgagtcgtattAAGCTTAATTAGCTGAGCTTGG
181 -----+-----+-----+-----+-----+-----+-----+ 240
acgttctagacgcccgcgagggatatcactcagcataaTTCGAATTAATCGACTCGAACC

                                     NST-for
                                     |
                                     pQE276
ACTCCTGTTGATAGATCCAGTAATGACCTCAGAACTCCATCTGGATTTGTTTCAGAACGCT
241 -----+-----+-----+-----+-----+-----+-----+ 300
TGAGGACAACTATCTAGGTCATTACTGGAGTCTTGAGGTAGACCTAAACAAGTCTTGCGA

CGGTTGCCCGCCGGCGTTTTTTTATTTGGTGAGAATCCAAGCTAGCTTGGCG
301 -----+-----+-----+-----+-----+-----+-----+ 350
GCCAACGGCGGCCCGCAAAAAATAACCACTCTTAGGTTTCGATCGAACCGC

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Abb. 7-1 Multi Cloning Site des Vektor pQE30NST

In der Abbildung ist die MCS des Vektors pQE30NST mit den angrenzenden Bereichen dargestellt. Die Bindestellen für die Primer sind farblich unterlegt.

7.1.2 Sequenz des Vektors pQE30NST

!!NA_SEQUENCE 1.0

LOCUS AF074376 3494 bp DNA circular SYN 19-JUL-1998

DEFINITION Cloning vector pQE30NST, complete sequence.

ACCESSION AF074376

NID g3328183

KEYWORDS

SOURCE Cloning vector pQE30NST.

ORGANISM Cloning vector pQE30NST, artificial sequence; cloning vectors.

REFERENCE 1 (bases 1 to 3494)

AUTHORS Bussow,K., Cahill,D., Nietfeld,W., Bancroft,D., Scherzinger,E., Lehrach,H. and Walter,G.

TITLE A method for protein expression and antibody screening on high-density filters of an arrayed cDNA library

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 3494)

AUTHORS Bussow,K., Cahill,D., Nietfeld,W., Bancroft,D., Scherzinger,E., Lehrach,H., Walter,G., Doebeli,H., Eggimann,B., Gentz,R., Hochuli,E. and Stueber,D.

TITLE Direct Submission

JOURNAL Submitted (25-JUN-1998) Lehrach, Max-Planck-Institut fuer Molekulare Genetik, Ihnestr. 73, Berlin 14195, Germany

FEATURES Location/Qualifiers

source 1. .3494

/organism="Cloning vector pQE30NST"

/db_xref="taxon:78926"

/lab_host="Escherichia coli"

/note="derived from sequence deposited under GenBank

Accession Number A02229"

-35_signal 30. .35

-10_signal 48. .53

RBS 101. .107

misc_feature 115

/note="translation start site for inserts cloned into the multiple cloning site"

misc_feature 145. .224

/note="multiple cloning site for BamHI, SalI, BglII, NotI and HindIII"

promoter 151. .173

/note="SP6 RNA polymerase promoter"

promoter complement(199. .218)

/note="T7 RNA polymerase promoter"

gene complement(2429. .3289)

/gene="bla"

CDS complement(2429. .3289)

/gene="bla"

/EC_number="3.5.2.6"

/note="penicillinase"

/codon_start=1

/transl_table=11

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/db_xref="PID:g3328184"

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VEYSPVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAF LHNMG
DHVTRLDRWEPENEAIPNDERD TTMPVAMATTLRKLTTGELLTLASRQLIDW
MEADKVAGPLLRSAIPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGS
QAAMDERNRQIAEIGASLIKHW"

BASE COUNT 909 a 834 c 841 g 910 t

ORIGIN

AF074376 Length: 3494 November 17, 1998 10:00 Type: N Check: 1670 ..

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151 TATTTAGGTG  AACTATAGTA  ATCGTCGACC  TGCAAGATCT  GCGGCCGCTC
201 CCTATAGTGA  GTCGTATTA  GCTTAATTAG  CTGAGCTTGG  ACTCCTGTGT
251 ATAGATCCAG  TAATGACCTC  AGAACTCCAT  CTGGATTTGT  TCAGAACGCT
301 CGTTTCCGCG  CGGGCGTTTT  TTATTGGTGA  GAATCCAAGC  TAGCTTGGCG
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401 TACCACCGTT  GATATATCCC  AATGGCATCG  TAAAGAACAT  TTTGAGGCAT
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501 ACGGCCTTTT  TAAAGACCGT  AAAGAAAAAT  AAGCACAAGT  TTTATCCGGC
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2701 GTAGTTCGCC  AGTTAATAGT  TTGCGCAACG  TTGTTGCCAT  TGCTACAGGC
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2801 CCAACGATCA  AGGCGAGTTA  CATGATCCCC  CATGTTGTGC  AAAAAAGCGG
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3451 TAACCTATAA  AAATAGGCGT  ATCACGAGGC  CCTTTCGTCT  TCAC

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Abb. 7-2

Sequenz des Vektors pQE30NST

7.2 Referenzen

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Erklärung zu Dissertation

Ich versichere, die vorliegende Arbeit selbständig verfaßt und keine anderen Quellen und Hilfsmittel, als die angegebenen, verwendet zu haben.

Die Stellen der Arbeit, die anderen Werken dem Sinn oder dem Wortlaut entnommen wurden, sind in jedem Fall unter der Angabe der Quelle kenntlich gemacht.

Berlin, Mai 2002

Jana Illiger