

Title	Nucleotide sequence of the bsr gene and N-terminal amino acid sequence of blasticidin S deaminase from blasticidin S resistant escherichia coli TK121
Sub Title	
Author	小林, 香(Kobayashi, Kaori) 鎌倉, 高志(Kamakura, Takashi) 田中, 暉夫(Tanaka, Teruo) 山口, 勇(Yamaguchi, Isamu) 遠藤, 豊成(Endo, Toyoshige)
Publisher	共立薬科大学
Publication year	1992
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.37 (1992.) ,p.98- 98
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000037-0098

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the KeiO Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

Nucleotide Sequence of the *bsr* Gene and N-Terminal Acid Sequence of Blastocidin S Deaminase from Blastocidin S Resistant *Escherichia coli* TK121*

Kaori KOBAYASHI, Takashi KAMAKURA**, Teruo TANAKA***,
Isamu YAMAGUCHI** and Toyoshige ENDŌ

小林 香, 鎌倉高志**, 田中暉夫***, 山口 勇**, 遠藤豊成

Nucleotide sequence of the blastocidin S resistant (*bsr*) gene was determined as below.

```

C ATATGAACAG CTTATTTACA TAATTCACGT TATTGGTAGT TATAAATGAA ATTCCTAATA
EcoRI ← G TATACTTGTG GAATAAATGT ATTAAGTGCA ATAACCATCA ATATTACTT TAAGGATTAT
NdeI

-35 ← < 16 base > → -10
TCGGTTATGA AGTGAAATIG AATTCTACT TGATCTTCT CTCTATTTT GTAAAATAAA ATTAAGAATA TTTAAATAT CAATGATTCA
AGCCAATACT TCACCTTAAAC TTAAGATGA ACTAGAAAGA GAGATAAAAA CATTTTATT TAATCTTTAT AAATTTATAA GTTACTAAGT
DraI Hinfl

S.D. MetLysThr PheAsnIleSer GlnGlnAsp LeuGluLeuVal GluValAla ThrGluLys
TTTTTGCAGA AATCGGAGGA AGAAGAATAT ATGAAACAT TTAACATTC TCAACAAGAT CTAGAATTAG TAGAAGTAGC GACAGAGAAG
AAAAACGTCG TTAGCCTCCT TCTTCTTATA TACTTTTGA AATTGTAAAG AGTTGTTCTA GATCTTAATC ATCTTCATCG CTGTCTCTTC
ORF/1 BgIII 60

11eThrMet LeuTyrGluAsp AsnLysHis HisValGly AlaAlaIleArg ThrLysThr GlyGluIle IleSerAlaVal HisIleGlu
ATTACAATGC TTTATGAGGA TAATAACAT CATGTGGGAG CGGCAATTCG TACGAAAACA GGAGAAATCA TTTCCGCAGT ACATATTGAA
TAATGTTACG AAATACTCCT ATTATTGTA GTACACCCTC GCCGTTAAGC ATGCTTTTGT CCTCTTTAGT AAAGCCGTCA TGTATAACTT
150

AlaTyrIle GlyArgValThr ValCysAla GluAlaIle AlaIleGlySer AlaValSer AsnGlyGln LysAspPheAsp ThrIleVal
GCGTATATAG GACGAGTAAAC TGTTTGTGCA GAAGCCATTG CGATTGGTAG TGCAGTTTCG AATGGACAAA AGGATTTTGA CACGATTGTA
CGCATATATC CTGCTCATTG ACAAACACGT CTTCCGTAAC GCTAACCATC ACGTCAAAGC TTACCTGTTT TCCTAAAACG GTGCTAACAT
240

AlaValArg HisProTyrSer AspGluVal AspArgSer IleArgValVal SerProCys GlyMetCys ArgGluLeuIle SerAspTyr
GCTGTTAGAC ACCCTTATTC TGACGAAGTA GATAGAAGTA TTCGAGTGGT AAGTCCTTGT GGTATGTGTA GGGAGTTGAT TTCAGACTAT
CGACAATCTG TGGGAATAAG ACTGCTTCAT CTATCTTCAT AAGCTCACCA TTCAGGAACA CCATACACAT CCTCAACTA AAGTCGTGATA
AluI 330

AlaProAsp CysPheValLeu IleGluMet AsnGlyLys LeuValLysThr ThrIleGlu GluLeuIle ProLeuLysTyr ThrArgAsn
GCACCAGATG GTTTTGTGTT AATAGAAATG AATGGCAAGT TAGTCAAAC TACGATTGAA GAATCATTC CACTCAAATA TACCCGAAAT
CGTGGTCTAA CAAAACACAA TTATCTTTAC TTACCGTTCA ATCAGTTTGT ATGCTAACTT CTTGAGTAAG GTGAGTTTAT ATGGGCTTTA
XmnI 420

TAAAAGTTTT ACCATATGGT GATTACTTGA AGTAAGAAAG ATTAGTTGTA TATCTATATT CATATAAAGT TGAC
ATTTTCAAAA TGGTATACCA CTAATGAACT TCATTCTTTC TAATCAACAT ATAGATATAA GTATATTTCA ACTG
NdeI HincII → BamHI
    
```

Nucleotide Sequence of the *bsr* Gene Region.

The broken line over the nucleotide sequence indicates the amino acid sequence found by a sequencer. Inverted repeats are shown by double and dotted lines.

* 本報告は, *Agric. Biol. Chem.*, 55 (12), 3155-3157 (1991) に発表

** 理化学研究所

*** 東海大学海洋学部