

Title	The blasticidin S resistance gene (bsr) selectable in a single copy state in the bacillus subtilis chromosome
Sub Title	
Author	板谷, 光弘(Itaya, Mitsuhiro) 山口, 勇(Yamaguchi, Isamu) 小林, 香(Kobayashi, Kaori) 遠藤, 豊成(Endo, Toyoshige) 田中, 暉夫(Tanaka, Teruo)
Publisher	共立薬科大学
Publication year	1990
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.35 (1990.) ,p.81- 81
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000035-0081

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.

The Blasticidin S Resistance Gene (*bsr*) Selectable in a Single Copy State in the *Bacillus subtilis* Chromosome*

Mitsuhiro ITAYA**, Isamu YAMAGUCHI***, Kaori KOBAYASHI,
Toyoshige ENDŌ, and Teruo TANAKA**

板谷光弘, 山口 勇, 小林 香, 遠藤豊成, 田中暉夫

The blasticidin S resistance gene (*bsr*), originally isolated from *Bacillus cereus*, was studied in *Bacillus subtilis*. It was found that a 617 bp fragment including the intact *bsr* gene and its 5' flanking region could confer BS resistance on *B. subtilis* when integrated in its chromosome, even in a single copy state. The construction of a *bsr* gene cassette and its practical application as a novel selection marker for *B. subtilis* are reported.

* 本報告は *J. Biochem.* 107, 799—801 (1990) に発表.

** 三菱化成生命科学研究所

*** 理化学研究所