

# GUS Protocols: Using the GUS Gene as a Reporter of Gene Expression

*From Academic Press*

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## **GUS Protocols: Using the GUS Gene as a Reporter of Gene Expression** From Academic Press

The *gb*-glucuronidase (GUS) gene is extremely useful as a reporter of the expression of introduced genes and can be used in organisms where other reporter genes are useless. Thus, the GUS gene is the reporter gene of choice for transgenic plant research. Not only can this assay be used to detect whether a gene is being expressed, but it can be used to determine the location of the gene product within cells. Low cost is another advantage of this assay.


GUS Protocols provides instructions and essential background information that will enable researchers to effectively use the GUS gene as a reporter of the expression of introduced genes.

### Key Features

- \* First book on the GUS reporter system
- \* Up-to-date reference lists following each of the fourteen chapters
- \* Comb-bound for convenient bench-top use
- \* Written by leading authorities including R.A. Jefferson, inventor of the GUS assay
- \* Illustrated with color
- \* Easy-to-follow procedures for
- \* Using the GUS system in both plants and animals
- \* GUS detection by fluorometric, spectrophotometric, and histochemical methods
- \* Fast, automated assays

### Background information on

- \* The *gb*-glucuronidase reaction
- \* Substrates
- \* Instrumentation
- \* Construction of GUS fusion vectors

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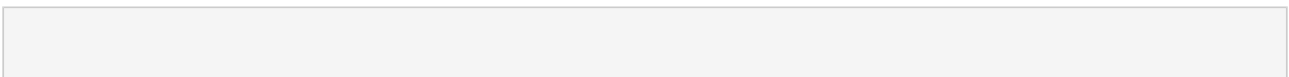
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### **Bibliography**

- Sales Rank: #10872961 in Books
- Published on: 1992-03-24
- Released on: 1992-03-10
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .59" w x 6.00" l, .76 pounds
- Binding: Plastic Comb
- 221 pages



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### Editorial Review

#### Review

"This manual does an excellent job of demonstrating both the power and the versatility of the GUS system in plants... If you think the GUS system may be of use to your studies, this text provides a broad range of protocols, practical tips, and limitations to help use the system efficiently."

--ANALYTICAL BIOCHEMISTRY

"**Gus Protocols** is a laboratory manual that will be of great value to the researcher."

--TRENDS IN BIOTECHNOLOGY

#### From the Back Cover

The b-glucuronidase (GUS) gene is extremely useful as a reporter of the expression of introduced genes and can be used in organisms where other reporter genes are useless. Not only can this assay be used to detect whether a gene is being expressed, but it can be used to determine the location of the gene product within cells.

GUS Protocols provides instructions and essential background information that will enable researchers to effectively use the GUS gene as a reporter of the expression of introduced genes.

#### Key Features and Benefits

- \* Written by leading authorities
- \* Foreword by R.A. Jefferson, inventor of the GUS assay
- \* Up-to-date reference lists following each of the fourteen chapters
- \* Illustrated with nineteen full-color photographs
- \* Offers clearly written, straightforward, easy-to-follow procedures for
- \* Using the GUS system in both plants and animals
- \* GUS detection by fluorometric, spectrophotometric, and histochemical methods
- \* Fast, automated assays
- \* Provides background information on
- \* The b-glucuronidase reaction
- \* Substrates
- \* Instrumentation
- \* Construction of GUS fusion vectors

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The first book on the GUS reporter system.

### Users Review

#### From reader reviews:

#### Latrice Miller:

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**James Connell:**

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