

Prodigene

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ProdiGene™ is a biopharmaceutical and industrial protein company that develops and commercializes novel recombinant proteins from genetically enhanced plants. ProdiGene is the first and only company to have commercialized recombinant products from transgenic plants for the biopharmaceutical and industrial markets. Using a broad proprietary technology platform, ProdiGene has developed a unique production and delivery system, which is now bringing novel products to the marketplace.

ProdiGene's recombinant proteins from plants, in many cases, require less purification than those from fermentation or animal sources. Proteins from plants are more cost efficient and easier to handle and transport than those produced from traditional production methods, thus offering significant product advantages to the pharmaceutical and industrial enzyme industries.

ProdiGene's technology provides the delivery system for future applications, including the production of high-volume, high-value industrial enzymes, as well as developing vaccines for both the human and animal pharmaceutical industries. ProdiGene is developing cost-effective vaccines that can be fed to livestock rather than injected. The company is also investigating the next breakthrough for this technology - the production of edible human vaccines, such as a vaccine for hepatitis B, in genetically enhanced plants.

Recent Publications by Prodigene:



- [Manganese peroxidase from the white-rot fungus *Phanerochaete chrysosporium* is enzymatically active and accumulates to high levels in transgenic maize seed.](#)

Manganese peroxidase (MnP) has been implicated in lignin degradation and... 27th January, 2007
ProdiGene, Inc., 101 Gateway Blvd., Suite 100, College Station, TX 77845,- Plant Biotechnol J. 2006
Jan;4(1):53-62. ([DOI Direct Link](#))

- [Analysis of the maize polyubiquitin-1 promoter heat shock elements and generation of promoter variants with modified expression characteristics.](#)

- The maize polyubiquitin-1 (Ubi-1) promoter is one of a few select...* 23rd February, 2005
ProdiGene, 101 Gateway Boulevard Suite 100, College Station, TX 77845,- Transgenic Res. 2004 Aug;13(4):299-312.
- [Plant production systems for vaccines.](#)
Plants offer an attractive alternative for the production and delivery of... 30th October, 2004
ProdiGene, Inc., 101 Gateway Boulevard, College Station, TX 77845, USA.- Expert Rev Vaccines. 2003 Dec;2(6):763-75. ([DOI Direct Link](#))
 - [Phacilitate Vaccine Forum, Spring 2004.](#)
The maize polyubiquitin-1 (Ubi-1) promoter is one of a few select... 8th October, 2004
ProdiGene, 101 Gateway Blvd., College Station, TX 77845, USA.- Expert Rev Vaccines. 2004 Aug;3(4):387-9. ([DOI Direct Link](#))
 - [Advantageous features of plant-based systems for the development of HIV vaccines.](#)
Plants have recently become an attractive option for the production of... 8th September, 2004
ProdiGene, College Station, TX 77845, USA.- J Drug Target. 2003;11(8-10):539-45. ([DOI Direct Link](#))
 - [A corn-based delivery system for animal vaccines: an oral transmissible gastroenteritis virus vaccine boosts lactogenic immunity in swine.](#)
Recombinant plant expression systems offer a means to produce large... 8th September, 2004
ProdiGene, 101 Gateway Boulevard, Suite 100, College Station, TX 77845,- Vaccine. 2004 Jun 23;22(19):2420-4. ([DOI Direct Link](#))
 - [Plant molecular farming: systems and products.](#)
Plant molecular farming is a new and promising industry involving plant... 9th July, 2004
ProdiGene, 101 Gateway Blvd. Suite 100, College Station, TX 77845, USA.- Plant Cell Rep. 2004 May;22(10):711-20. Epub 2004 Feb 28. ([DOI Direct Link](#))
 - [Maize \(Zea mays\)-derived bovine trypsin: characterization of the first large-scale, commercial protein product from transgenic plants.](#)
Bovine trypsin (EC 3.4.21.4) is an enzyme that is widely used for... 21st June, 2004
ProdiGene, Inc., 101 Gateway Blvd., Suite 100, College Station, TX- Biotechnol Appl Biochem. 2003 Oct;38(Pt 2):123-30. ([DOI Direct Link](#))
 - [Improved recovery of active recombinant laccase from maize seed.](#)
Lignolytic enzymes such as laccase have been difficult to over-express in... 24th March, 2004
ProdiGene, 101 Gateway Blvd. Suite 100, College Station, TX 77845, USA.- Appl Microbiol Biotechnol. 2004 Jan;63(4):390-7. Epub 2003 Jun 12. ([DOI Direct Link](#))
 - [Corn as a production system for human and animal vaccines.](#)
The synthesis of selected antigens in plants and their oral delivery has... 5th December, 2003
ProdiGene, 101 Gateway Boulevard, Suite 100, College Station, TX 77845,- Vaccine. 2003 Jan 30;21(7-8):812-5.
 - [Selecting the fruits of your labors.](#)
Generation of transgenic plants exhibiting traits of interest requires the... 31st October, 2003
ProdiGene, 101 Gateway Blvd. Suite 100, College Station, TX 77845, USA.- Trends Plant Sci. 2003 Aug;8(8):357-8.
 - [Plant-based vaccines.](#)
Plant systems are reviewed with regard to their ability to express and... 8th October, 2003
ProdiGene, Inc., 101 Gateway Boulevard, College Station, TX 77845, USA.- Int J Parasitol. 2003 May;33(5-6):479-93.
 - [Delivery of subunit vaccines in maize seed.](#)
The use of recombinant gene technologies by the vaccine industry has... 11th June, 2003
ProdiGene, 101 Gateway Boulevard, Suite 100, College Station, TX 77845,- J Control Release. 2002 Dec 13;85(1-3):169-80.
 - [Monoclonal antibody manufacturing in transgenic plants--myths and realities.](#)
The number and types of antibodies expressed in plants has increased... 22nd May, 2003
ProdiGene, Inc., 101 Gateway Blvd, Suite 100, College Station, Texas- Curr Opin Biotechnol. 2002 Dec;13(6):630-5.



Prodigene Patents:

- 7541515- [Method of increasing expression of heterologous proteins in plants](#)
- 5914123- [Vaccines expressed in plants](#)
- 6034298- [Vaccines expressed in plants](#)
- 6087558- [Commercial production of proteases in plants](#)
- 6136320- [Vaccines expressed in plants](#)
- 6504085- [Methods of commercial production and extraction of protein from seed](#)
- 6632930- [Method of increasing recovery of heterologous active enzymes produced in plants](#)
- 6800792- [Commercial production of laccase in plants](#)
- 7393998- [Commercial production of insulin and insulin-like proteins in plants](#)
- 7504560- [Vaccines expressed in plants](#)
- 5804694- [Commercial production of .beta.-glucuronidase in plants](#)

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