

## ProdiGene Biopharmaceutical Plant Field Trials in the U.S.: 1991 to June 2002

Adapted from search results at the USDA field trial website ([www.nbiap.vt.edu/cfdocs/fieldtests1.cfm](http://www.nbiap.vt.edu/cfdocs/fieldtests1.cfm)) for the 4 "phenotypes" treated in this report as "biopharmaceuticals": pharmaceutical proteins, novel proteins, antibodies and industrial enzyme(s). A few other phenotypes not included here (e.g. "surface antigen") may also be biopharm crops. "n" after permit number = notification; "r" = permit; "Donor" = organism from which gene is taken; CBI = confidential business information; NptII = neomycin phosphotransferase (antibiotic resistance marker gene); PAT = phosphinothricin acetyl transferase (confers resistance to Liberty and related herbicides); \* in gene field = selectable marker gene. Empty fields indicate no information or CBI. The most recent trials are presented first. This Excel file may be sorted by institution (column B), crop (column C), phenotype (column F) or acreage (column H). Sorting by state does not work due to multiple state listings for many permits; instead, search on your two-letter state abbreviation, capitalized. To sort, first select only those rows with actual permit information (rows 4-201; do not select the title row, this row or the headers). Next, click "Data" on the toolbar, then "Sort." Choose desired column(s), then hit "OK."

Permit	Institution	Organism	Issued or Effective	Gene(s)	Phenotype(s)	Release Location(s)	Acres
02-113-09n	ProdiGene	Corn	05/23/02	PAT *; Laccase - Donor: Turkey tails	Novel protein	NE	5
02-081-13n	ProdiGene	Corn	04/21/02	Brazzein - Donor: Pentadiplandra brazzeana; PAT *	Novel protein	NE	
02-081-12n	ProdiGene	Corn	04/21/02	PAT *; Laccase - Donor: Turkey tails	Novel protein	IL, NE, SD	
02-081-11n	ProdiGene	Corn	04/21/02	PAT *	Novel protein	IL, MN, NE, TX	
02-081-10n	ProdiGene	Corn	04/21/02	CBI - Donor: CBI; PAT *	Novel protein	IL, NE	
02-081-08n	ProdiGene	Corn	04/21/02	CBI - Donor: CBI; PAT *	Novel protein	IL, NE	
01-324-01n	ProdiGene	Corn	12/20/01	PAT *	Novel protein	HI	
01-229-05n	ProdiGene	Corn	09/16/01	PAT *	Novel protein	FL	
01-194-03n	ProdiGene	Corn	08/12/01	CBI - Donor: CBI; PAT *	Novel protein	HI	
01-194-02n	ProdiGene	Corn	08/12/01	PAT *	Novel protein	HI	
01-194-01n	ProdiGene	Corn	08/12/01	PAT *	Novel protein	HI	
01-193-05n	ProdiGene	Corn	07/22/01	PAT *	Novel protein	FL	
01-190-02n	ProdiGene	Corn	08/08/01	Laccase - Donor: Turkey tails; PAT *	Novel protein	FL	
01-190-01r	ProdiGene	Corn	10/05/01	PAT *; Enterotoxin subunit B - Donor: E. coli	Pharmaceutical proteins	FL	
01-187-01r	ProdiGene	Corn	11/13/01	PAT *; Aprotinin - Donor: Pig; CBI - Donor: cbi; Surface antigen - Donor: Hepatitis virus B; Surface antigen - Donor: TGEV; gp120 (glycoprotein 120) - Donor: SIV	Pharmaceutical proteins	HI	
01-114-01r	ProdiGene	Corn	07/12/01	NptII*	Pharmaceutical proteins	HI	1
01-045-12n	ProdiGene	Corn	03/16/01	CBI - Donor: CBI; PAT *	Novel protein	NE	0.12
01-045-11n	ProdiGene	Corn	03/16/01	CBI - Donor: CBI; PAT *	Novel protein	NE	0.12
01-045-10n	ProdiGene	Corn	03/16/01	CBI - Donor: CBI; PAT *	Novel protein	NE	0.06
01-045-09n	ProdiGene	Corn	03/16/01	PAT *; CBI - Donor: CBI	Novel protein	NE	0.54
01-045-08n	ProdiGene	Corn	03/16/01	CBI - Donor: CBI; PAT *	Novel protein	NE	0.36
01-045-07n	ProdiGene	Corn	03/16/01	CBI - Donor: CBI; PAT *	Novel protein	NE	0.75
01-045-06n	ProdiGene	Corn	03/16/01	CBI - Donor: CBI; PAT *	Novel protein	NE	0.15
01-032-01n	ProdiGene	Corn	03/03/01	CBI - Donor: CBI; PAT *	Novel protein	TX	0.5
01-023-04r	ProdiGene	Corn	05/08/01	CBI - Donor: CBI; NptII*	Pharmaceutical proteins	NE	0.025
01-023-03r	ProdiGene	Corn	05/08/01	NptII*; PAT *; Aprotinin - Donor: Bos taurus; CBI - Donor: CBI; gp120 (glycoprotein 120) - Donor: Simian immunodeficiency virus	Pharmaceutical proteins	NE	0.14
01-016-03r	ProdiGene	Corn	04/19/01	CBI - Donor: CBI; NptII*	Pharmaceutical proteins	NE	0.25
01-016-02r	ProdiGene	Corn	04/19/01	NptII*; CBI - Donor: CBI	Pharmaceutical proteins	NE	1
01-016-01r	ProdiGene	Corn	04/17/01	NptII*; CBI - Donor: CBI	Pharmaceutical proteins	IA, KS, TX	9
01-012-06n	ProdiGene	Corn	02/11/01	PAT *	Novel protein	MN	1
01-012-05n	ProdiGene	Corn	02/11/01	PAT *; CBI - Donor: CBI	Novel protein	MN	1
00-228-06n	ProdiGene	Corn	09/14/00	CBI - Donor: CBI; PAT *	Novel protein	PR	0.07
00-228-05n	ProdiGene	Corn	09/14/00	CBI - Donor: CBI; PAT *	Novel protein	PR	0.06
00-228-04n	ProdiGene	Corn	09/14/00	CBI - Donor: CBI; PAT *	Novel protein	FL	0.25
00-228-03n	ProdiGene	Corn	09/14/00	CBI - Donor: CBI; PAT *	Novel protein	PR	0.06
00-224-03n	ProdiGene	Corn	09/10/00	CBI - Donor: CBI; PAT *	Novel protein	PR	0.33
00-221-03n	ProdiGene	Corn	09/07/00	CBI - Donor: CBI; PAT *	Novel protein	HI	1
00-221-01r	ProdiGene	Corn	11/03/00		Pharmaceutical proteins	PR	
00-203-04r	ProdiGene	Corn	10/13/00	*	Pharmaceutical proteins	HI	0.1

00-195-01r	ProdiGene	Corn	08/23/00	CBI*; PAT *; CBI - Donor: cbi	Novel protein	FL	0.5
00-192-08n	ProdiGene	Corn	08/09/00	CBI - Donor: CBI; PAT *	Novel protein	FL	13
00-122-05n	ProdiGene	Corn	05/31/00	CBI - Donor: CBI; PAT *	Novel protein	HI	0.15
00-122-01r	ProdiGene	Corn	07/14/00	PAT *; CBI - Donor: CBI	Pharmaceutical proteins	HI	
00-109-07n	ProdiGene	Corn	05/18/00	CBI - Donor: CBI; PAT *	Novel protein	NE	10
00-073-01r	ProdiGene	Corn	05/26/00	CBI* - Donor: CBI; PAT	Pharmaceutical proteins	NE	2
00-067-11n	ProdiGene	Corn	(no date)	CBI - Donor: CBI; PAT *	Novel protein	NE	0.1
00-067-10n	ProdiGene	Corn	04/06/00	CBI - Donor: CBI; PAT *	Novel protein	NE	21.2
00-067-09n	ProdiGene	Corn	04/06/00	CBI - Donor: CBI; PAT *	Novel protein	NE	4.12
00-067-02r	ProdiGene	Corn	04/26/00	CBI*; CBI - Donor: CBI	Pharmaceutical proteins	MN, NE	
00-067-01r	ProdiGene	Corn	05/01/00	PAT *; CBI - Donor: CBI	Pharmaceutical proteins	IA	40
00-060-06n	ProdiGene	Corn	03/30/00	CBI - Donor: CBI; PAT *	Novel protein	NE	1.46
00-049-14n	ProdiGene	Corn	03/19/00	CBI - Donor: CBI; PAT *	Novel protein	TX	25
00-049-13n	ProdiGene	Corn	03/19/00	CBI - Donor: CBI; PAT *	Novel protein	TX	2
99-343-01r	ProdiGene	Corn	02/22/00	PAT *; CBI - Donor: CBI	Pharmaceutical proteins	HI	
99-340-09n	ProdiGene	Corn	01/05/00	PAT *; CBI - Donor: CBI	Novel protein	HI	12.2
99-340-08n	ProdiGene	Corn	01/05/00	CBI - Donor: CBI; PAT *	Antibody	HI	0.13
99-307-01r	ProdiGene	Corn	11/18/99	CBI - Donor: CBI; PAT *	Pharmaceutical proteins	FL	
99-302-13n	ProdiGene	Corn	11/28/99	CBI - Donor: CBI; PAT *	Novel protein	FL	20
99-279-02r	ProdiGene	Corn	11/18/99	CBI - Donor: CBI; PAT *	Pharmaceutical proteins	PR	
99-279-01r	ProdiGene	Corn	11/18/99	CBI - Donor: CBI; PAT *	Pharmaceutical proteins	PR	0.2
99-278-01n	ProdiGene	Corn	11/04/99	CBI - Donor: CBI; PAT *	Novel protein	HI	0.25
99-274-01n	ProdiGene	Corn	10/31/99	CBI - Donor: CBI	Novel protein	PR	0.35
99-271-05n	ProdiGene	Corn	10/28/99	PAT *; CBI - Donor: CBI	Novel protein	PR	0.28
99-271-04n	ProdiGene	Corn	10/28/99	CBI - Donor: CBI; PAT *	Antibody	PR	0.33
99-271-03n	ProdiGene	Corn	10/28/99	CBI - Donor: CBI	Novel protein	PR	0.013
99-271-02n	ProdiGene	Corn	10/28/99	CBI - Donor: CBI; PAT *	Novel protein	PR	0.16
99-145-03n	ProdiGene	Corn	06/24/99	CBI*; CBI - Donor: CBI	Novel protein	TX	15
99-055-15n	ProdiGene	Corn	03/26/99	CBI - Donor: CBI; PAT *	Novel protein	PR	0.6
99-055-14n	ProdiGene	Corn	03/26/99	PAT *; CBI - Donor: CBI	Novel protein	NE	0.05
99-055-13n	ProdiGene	Corn	03/26/99	CBI - Donor: CBI; PAT *	Novel protein	NE	2
99-055-12n	ProdiGene	Corn	03/26/99	CBI - Donor: CBI; PAT *	Novel protein	IA, NE	4
99-055-11n	ProdiGene	Corn	03/26/99	CBI - Donor: CBI; PAT *	Novel protein	NE	12
99-055-10n	ProdiGene	Corn	03/26/99	CBI - Donor: CBI; PAT *	Novel protein	NE	0.2
99-055-09n	ProdiGene	Corn	03/26/99	PAT *; CBI - Donor: CBI	Novel protein	NE	0.2
99-034-03r	ProdiGene	Corn	03/03/99	*	Pharmaceutical proteins	IA	
99-034-02r	ProdiGene	Corn	03/04/99	CBI - Donor: CBI; PAT *	Pharmaceutical proteins	IA	
99-034-01r	ProdiGene	Corn	03/03/99	PAT * - Donor: Strep. viridochromogenes; CBI - Donor: CBI	Novel protein	IA	
98-356-05n	ProdiGene	Corn	01/21/99	PAT *; CBI - Donor: CBI	Novel protein	PR	0.1
98-273-11n	ProdiGene	Corn	10/30/98	CBI - Donor: CBI; PAT *	Novel protein	PR	0.35
98-273-10n	ProdiGene	Corn	10/30/98	PAT *; CBI - Donor: CBI	Novel protein	PR	0.35
98-257-01r	ProdiGene	Corn	11/25/98	CBI* - Donor: CBI; PAT *	Pharmaceutical proteins	PR	
98-085-42n	ProdiGene	Corn	04/25/98	CBI - Donor: CBI; PAT *	Novel protein	NE	4
97-253-03n	ProdiGene	Corn	10/10/97	CBI - Donor: CBI; PAT *	Novel protein	PR	0.2
97-098-07n	ProdiGene	Corn	05/08/97	PAT *; CBI - Donor: CBI	Novel protein	NE	5
97-301-01r	ProdiGene	Tomato	01/29/98	NptII*	Pharmaceutical proteins	TX	1