

# CROP WILD RELATIVES DATABASE

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National Bureau of Plant Genetic Resources  
(Indian Council of Agricultural Research)

TUTORIAL



# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



HOME ABOUT SIMPLE SEARCH ADVANCED SEARCH HELP CONTACT

## Welcome to Genetic and Genomic Resources

This web portal of genetic and genomic resources of *Vigna* and *Phaseolus* provide linking information of specific gene, EST, Nucleotide and Protein with a functional importance to a germplasm Genebank Id. This may assist molecular breeders in incorporating the germplasm Genebank Id in precision breeding programme. The present scenario of global climatic changes, unsustainability of input intensive agriculture, search for novel genes for food and nutrition, biotic and abiotic stresses have increased the focus on collection, conservation and utilization of potential diversity in the near future to come. So, there is an urgent need to test more and more plant species against the threat of nature and to meet with the challenges by initiating targeted collection and conservation of plant genetic resources including wild relatives of crop plants, and their characterization and evaluation with linking to genomic resources for greater understanding in the form of single window accessibility to botanists, breeders, geneticists, genomic and PGR researchers as well as students.

## CONTACT INFORMATION

Name

Email

Subject

SEND

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## Home >

By clicking on the link or typing <http://www.nbpgr.ernet.in:8080/cwr/iHome.aspx> in the address bar, you reach the homepage of this application.

The Home page of the application to introduce the purpose of the application. It clearly show that the hosting institution is NBPGR which is the part of ICAR, by clicking of the logos you can reach respective homepages.

The gray strip links to other pages of the application. Terms and condition is given at the bottom. Copyright rests with NBPGR.

We can send feedback or any suggestion to contact person through this page.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



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## TAXONOMY Genetic and Genomic Resources

This web portal of genetic and genomic resources of *Vigna* and *Phaseolus* provide linking information of specific gene, EST, Nucleotide and Protein with a functional importance to a germplasm Genebank Id. This may assist molecular breeders in incorporating the germplasm Genebank Id in precision breeding programme. The present scenario of global climatic changes, unsustainability of input intensive agriculture, search for novel genes for food and nutrition, biotic and abiotic stresses have increased the focus on collection, conservation and utilization of potential diversity in the near future to come. So, there is an urgent need to test more and more plant species against the threat of nature and to meet with the challenges by initiating targeted collection and conservation of plant genetic resources including wild relatives of crop plants, and their characterization and evaluation with linking to genomic resources for greater understanding in the form of single window accessibility to botanists, breeders, geneticists, genomic and PGR researchers as well as students.

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## About> Taxonomy

Taxonomic data of *Vigna* and *Phaseolus* species were obtained from USDA ARS-GRIN. The data included information on following 56 species in next image in organism box.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



HOME ABOUT SIMPLE SEARCH ADVANCED SEARCH HELP CONTACT

## Taxonomy

Taxonomic data of *Vigna* and *Phaseolus* species were obtained from USDA ARS-GRIN <https://npgsweb.ars-grn.gov/grnglobal/taxon/taxonomysearchcwr.aspx> The data included information on following 56 species

### Organism Name

Vigna Trilobata  
Vigna Trimenia Var. Bourneae  
Vigna Umbellata Var. Gracilis  
Vigna Unguiculata  
Vigna Unguiculata Group Biflora  
Vigna Unguiculata Group Sesquipedalis  
Vigna Unguiculata Group Unguiculata  
Vigna Unguiculata Subsp. Alba  
Vigna Unguiculata Subsp. Bicolor

### Taxonomy Details

Common\_name

## About> Taxonomy

After clicking on organism name, we can show the taxonomy details as common name, family, genus, species, subspecies and other details.



# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



HOME ABOUT SIMPLE SEARCH ADVANCED SEARCH HELP CONTACT

## Taxonomy

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### Organism Name

- Vigna Trilobata
- Vigna Trinervis Var. Bourneae
- Vigna Umbellata Var. Uniflora
- Vigna Unguiculata**
- Vigna Unguiculata Group Sesquipedalis
- Vigna Unguiculata Group Unguiculata
- Vigna Unguiculata Subsp. Alba
- Vigna Unguiculata Subsp. Baoulensis
- Vigna Unguiculata Subsp. Cylindrica
- Vigna Unguiculata Subsp. Pubescens
- Vigna Unguiculata Subsp. Tenuis
- Vigna Unguiculata Subsp. dekindtiana

### Taxonomy Details



Vigna Unguiculata

Common name

Coverage

## About > Taxonomy

After click on “Vigna Unguiculata” to show the taxonomy details and image of this species.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



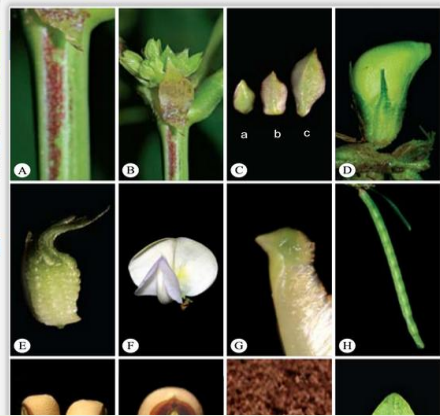
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## Taxonomy

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- Vigna Unguiculata Group Biflora
- Vigna Unguiculata Group Sesquipedalis
- Vigna Unguiculata Group Unguiculata
- Vigna Unguiculata Subsp. Alba
- Vigna Unguiculata Subsp. Baoulensis
- Vigna Unguiculata Subsp. Cylindrica
- Vigna Unguiculata Subsp. Pubescens
- Vigna Unguiculata Subsp. Tenuis
- Vigna Unguiculata Subsp. dekindtiana



## About > Taxonomy

We can zoom image on mouse hover over on the image and also see the full image of this species.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



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## TAXONOMY

**GERMPLASM** : conserve crop species along with crop wild relatives. *Vigna* and *Phaseolus* species germplasm mainly conserved in Indian national genebank and USDA ARS-GRIN. Passport data are available from many sources. Germplasm passport data of *Vigna* and *Phaseolus* species were taken from three different Gene bank database sources, which include ICAR-NBPGR (National Bureau of Plant Genetic Resources) (www.nbpgr.org), USDA ARS-GRIN (<https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearchcw.aspx>) and Genesys PGR genetic resources (<https://www.genesys-pgr.org>). Genesys PGR genetic resources has collected information from major networks: EURISCO (European PGR search catalogue) and SINGER (System wide information network for genetic resources). There were around 53870 Genebank IDs of *Vigna* and *Phaseolus* species collected from all three sources

### Institute Name

- AGES Linz – Austrian Agency For Health And Food Safety/ Seed Collecti
- Agricultural Research Station Simnic-Dolj, Romania, EURISCO
- Agroscope Changins, Switzerland, EURISCO
- Albania Gene Bank, Albania, EURISCO
- Arche Noah Association, Austria, EURISCO
- Azerbaijan State Agrarian University, Azerbaijan, EURISCO
- Banco De Germoplasma - Departamento De Recursos Genéticos E Melh
- Inalhoct4168/Germplasm.acm.y18 - Universidade Da Madeira, Portugal, EURISCO

## About > Germplasm

Genebanks worldwide conserve crop species along with crop wild relatives. *Vigna* and *Phaseolus* species germplasm mainly conserved in Indian national genebank and USDA ARS-GRIN. Passport data are available from many sources. Germplasm passport data of *Vigna* and *Phaseolus* species were taken from three different Gene bank database sources, which include ICAR-NBPGR (National Bureau of Plant Genetic Resources).

This page can be help to search by institute wise species details.

### Genebanks

Genebanks worldwide conserve crop species along with crop wild relatives. Vigna and Phaseolus species germplasm mainly conserved in Indian national genebank and USDA ARS-GRIN. Passport data are available from many sources. Germplasm passport data of Vigna and Phaseolus species were taken from three different Gene bank database sources, which include ICAR-NBPGR (National Bureau of Plant Genetic Resources) ([www.nbpgr.ernet.in/8000/PGRPortal/](http://www.nbpgr.ernet.in/8000/PGRPortal/)), USDA ARS-GRIN (<http://www.ars-grin.gov/cgi-bin/nph-tolerancesearch.asp>) and Genesys PGR, a gateway to genetic resources (<http://www.genesys-pgr.org>). Genesys PGR genetic resources has collected information from major networks, EURISCO (European PGR search catalogue) and SINGER (System wide information network for genetic resources). There were around 53870 Genebank\_ids of Vigna and Phaseolus species collected from all three sources

Institute Name	Germplasm Details																								
<ul style="list-style-type: none"> <li>Office of the Styrian Regional Government, Department for Plant Health and Special Crops, Austria</li> <li>Plant Breeding and Acclimatization Institute, Poland, EURISCO</li> <li>Plant Production Research Center Priestany, Slovak Republic, EURISCO</li> <li>Plant Variety Protection Office USDA/AMS, United States, USDA ARS NPGR</li> <li>Principado de Asturias, Servicio Regional de Investigación y Desarrollo Agroalimentario, Spain, EI</li> <li>Research Institute for Vegetables and Flower Gardening Vitră-Ilov, Romania, EURISCO</li> <li>Scientific Center of Agrobiotechnology, Armenia, EURISCO</li> <li>Suceava Genebank, Romania, EURISCO</li> <li>University of Agricultural Sciences and Veterinary Medicine Timisoara, Romania, EURISCO</li> <li>Ustyynivka Experimental Station of Plant Production, Ukraine, EURISCO</li> <li>Warwick Genetic Resources Unit, United Kingdom, EURISCO</li> <li>Western Regional Plant Introduction Station, USDA-ARS, Washington State University, United States</li> <li>Asian Vegetable Research and Development Center, Taiwan</li> <li>Centro Nacional de Recursos Fitogenéticos, Spain, EURISCO</li> <li>College of Agriculture at Križevci, Croatia, EURISCO</li> <li>Gemblox agro-biotech, Université de Liège, département des Sciences agronomiques, Phytotech</li> <li>Genetic Resources Institute, Azerbaijan, EURISCO</li> <li>Genetic Resources Institute, University of Banjaluka, Bosnia and Herzegovina, EURISCO</li> <li>Greek Genebank, Agricultural Research Center of Macedonia and Thrace, National Agricultural Research Institute for Plant Genetic Resources 'K. Malkov', Bulgaria, EURISCO</li> <li>Institute of Agriculture &amp; Cattle-breeding of the Western Region, Ukraine, EURISCO</li> <li>Jogera Plant Breeding Institute, Estonia, EURISCO</li> <li>National Bureau of Plant Genetic Resources Delhi, INDIA</li> </ul>	<table border="1"> <tr> <td>Institute Name</td> <td>National Bureau Of Plant Genetic Resources,Delhi,INDIA</td> </tr> <tr> <td>Institute Code</td> <td>NBPGR</td> </tr> <tr> <td>Total Germplasm:</td> <td>16598</td> </tr> <tr> <td colspan="2">Organism Wise</td> </tr> <tr> <th>Organism</th> <th>Number</th> </tr> <tr> <td>Vigna Bourneae</td> <td>4</td> </tr> <tr> <td>Vigna Aconitifolia</td> <td>1489</td> </tr> <tr> <td>Vigna Unguiculata Subsp. Sesquipedalis</td> <td>12</td> </tr> <tr> <td>Vigna Vexillata</td> <td>107</td> </tr> <tr> <td>Phaseolus Lunatus</td> <td>49</td> </tr> <tr> <td>Vigna Trinevia Var. Bourneae</td> <td>3</td> </tr> <tr> <td>Vigna Sp.</td> <td>6</td> </tr> </table>	Institute Name	National Bureau Of Plant Genetic Resources,Delhi,INDIA	Institute Code	NBPGR	Total Germplasm:	16598	Organism Wise		Organism	Number	Vigna Bourneae	4	Vigna Aconitifolia	1489	Vigna Unguiculata Subsp. Sesquipedalis	12	Vigna Vexillata	107	Phaseolus Lunatus	49	Vigna Trinevia Var. Bourneae	3	Vigna Sp.	6
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### About> Germplasm

After click on the name of institute as “National Bureau of Plant Genetic Resources, Delhi, India”, we can see the details of species are conserve in prospective institute.

If we have click on institute code as “NBPGR” then go to FAO categorised institute page.

We click on red circle as number 2 as “Vigna Bourneae” then after we can see the next image which are full details of germplasm.

## Genetic and Genomic Resources of Vigna and Phaseolus species



### Genebanks

Genebanks worldwide conserve crop species along with crop wild relatives. Vigna and Phaseolus species germplasm mainly conserved in Indian national genebank and USDA ARS-GRIN. There were around 53870 Genebank\_ids of Vigna and Phaseolus species collected from all three sources

Institute Name	Species
National Bureau of Plant Genetic Resources, Delhi, INDIA	Phaseolus coccineus

Genebank Id	Common name	Organism	CollNum	Cultivar Name	BioStatus	Source	Date of Collection	Genebank	DB Id
IC0312431	Scarlet Runner	Phaseolus coccineus			OTHERS	INDIA	03-01-2000	NBPGR	
IC0278524	Scarlet Runner	Phaseolus coccineus	LB/200040	Bellavara	OTHERS	INDIA	14/12/2000	NBPGR	
IC0278479	Scarlet Runner	Phaseolus coccineus	LB/200054	Bellavara	OTHERS	INDIA	12-12-2000	NBPGR	

### About> Germplasm

We see here institute name and species details as Genebank\_Id, Common\_name, Organism, CollNum, Cultivar\_Name, BioStatus, Source Country, Date\_of\_Collection, Genebank, DB\_Id.

## Genetic and Genomic Resources of Vigna and Phaseolus species



### TAXONOMY

Genetic and Genomic Resources

### GERMPLASM

This link in incorporates the genetic and genomic resources of Vigna and Phaseolus provide of specific gene, EST, Nucleotide and Protein with a functional germplasm Genebank\_Id. This may assist molecular breeders in germplasm Genebank\_Id in precision breeding programme. The presence of global climatic changes, unsustainability of input intensive agriculture, search for novel genes for food and nutrition, biotic and abiotic stresses have increased the focus on collection, conservation and utilization of potential diversity in the near future to come. So, there is an urgent need to test more and more plant species against the threat of nature and to meet with the challenges by initiating targeted collection and conservation of plant genetic resources including wild relatives of crop plants, and their characterization and evaluation with linking to genomic resources for greater understanding in the form of single window accessibility to botanists, breeders, geneticists, genomic and PGR researchers as well as students.

### CONTACT INFORMATION

Name

Email

Subject

### About> Genomic

The genomic data mainly included sequences of nucleotide, EST, protein and gene of Vigna and Phaseolus species.

This page used to search genomic data.

**Organism Name**

- Phaseolus Polytachios Subsp. Polytachios
- Phaseolus Polytachios Subsp. 3frutosus
- Phaseolus Vulgaris**
- Phaseolus Vulgaris Var. Vulgaris
- Phaseolus Aciflorus
- Phaseolus Pedicellatus
- Phaseolus Polytachios
- Vigna Angularis
- Vigna Angularis Var. Angularis
- Vigna Angularis Var. Niipponensis
- Vigna Bourneae
- Vigna Dalzelliana
- Vigna Hainiana
- Vigna Khandalensis
- Vigna Konkaniensis
- Vigna Minima
- Vigna Mungo Var. Mungo
- Vigna Mungo Var. Silvestris
- Vigna Pilosa
- Vigna Radiata
- Vigna Radiata Var. Radiata
- Vigna Radiata Var. Sublobata

**Genomic Details**

Organism Name  
Phaseolus Vulgaris

EST	128968
Nucleotide	102026
<b>Protein</b>	<b>774</b>
Gene	28266

**About> Genomic**

After clicking on organism name, we can see the number of genomic resources. We can see the full details of genomic resources after click on hyperlink as number. If we click on red oval as protein “774” then we can show in next image.

**Genetic and Genomic Resources of Vigna and Phaseolus species**

HOME ABOUT SIMPLE SEARCH ADVANCED SEARCH HELP CONTACT

Search Results 774 search results keyword: Phaseolus vulgaris

Germplasm EST Nucleotide Gene **Protein**

Search :  Filter

Genebank_Id	Organism	GI	Version	Locus	Length	Type	Definition	Cultivar	Product	EC_number	Organism
ESW35209	Phaseolus vulgaris	561036679	ESW35209.1	ESW35209	119 aa	linear	hypothetical protein PHAVU_001G215800g [Phaseolus vulgaris].	G19833	hypothetical protein		
FSW35210	Phaseolus	561036680	FSW35210.1	FSW35210	460 aa	linear	hypothetical protein PHAVU_001G215900n	G19833	hypothetical		

**About> Genomic**

If we want to show the EST, Nucleotide, Germplasm and gene then click on respective tab.

**Genetic and Genomic Resources of Vigna and Phaseolus species**

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This is boolean search

Enter Search key

Recent search [vigna radiata\\_0024\\_00](#)

Search

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**Simple Search>**

This page is used for Boolean search for this application. We can enter any key in textbox after that click on search button, to show the number of species.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



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This is boolean search

vigna radiata

Recent search [vigna radiata 0024 oo](#)

Search



Germplasm: **4221** EST: **829**  
 Gene: **190** Nucleotide: **99024**  
 Protein: **668**

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## Simple Search>

We enter key "vigna radiata" in textbox after that click on search button, to show the number species as in image. Click on protein hyperlink to show details of species of protein.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



HOME ABOUT SIMPLE SEARCH ADVANCED SEARCH HELP CONTACT

Search Results

668 search results keyword: vigna radiata

Germplasm EST Nucleotide Gene **Protein**

Search :

Filter

Genebank_Id	Organism	GI	Version	Locus	Length	Type	Definition	Cultivar	Product	EC_number	Orga
AAC12797	Vigna radiata	2502085	AAC12797.1	AAC12797	145 aa	linear	adenosine triphosphatase, partial [Vigna radiata].		adenosine triphosphatase	3.6.1.3	
AAC12798	Vigna radiata	2502087	AAC12798.1	AAC12798	164 aa	linear	adenosine triphosphatase [Vigna radiata].		adenosine triphosphatase	3.6.1.3	
AAQ95731	Vigna radiata	37654368	AAQ95731.1	AAQ95731	448 aa	linear	phospholipase C, partial [Vigna radiata].		phospholipase C		

## Simple Search>

See full details of genomic resource of protein as GenebankId, GI, Version, Locus, Length, Type, definition, cultivar, product, EC\_number, organelle, gene, pubmed and authors. If we click on another tab to show prospective details.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



HOME ABOUT SIMPLE SEARCH ADVANCED SEARCH HELP CONTACT

Search Results

668 search results keyword: vigna radiata

Germplasm EST Nucleotide Gene **Protein**

Search :

Filter

Genebank_Id	Organism	GI	Version	Locus	Length	Type	Definition	Cultivar	Product	EC_number	Orga
AAC12797	Vigna radiata	2502085	AAC12797.1	AAC12797	145 aa	linear	adenosine triphosphatase, partial [Vigna radiata].		adenosine triphosphatase	3.6.1.3	
AAC12798	Vigna radiata	2502087	AAC12798.1	AAC12798	164 aa	linear	adenosine triphosphatase [Vigna radiata].		adenosine triphosphatase	3.6.1.3	
AAQ95731	Vigna radiata	37654368	AAQ95731.1	AAQ95731	448 aa	linear	phospholipase C, partial [Vigna radiata].		phospholipase C		

## Simple Search>

This page also provides facility to search data in populated view, and also we can sort data on clicking header name as red circle in image.

1 2 3 4 5 6 7 8 9 10 ...

The above strip is navigate to another page of data in populated view.



# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



HOME ABOUT SIMPLE SEARCH ADVANCED SEARCH HELP CONTACT

Search Results

668 search results keyword: vigna radiata

Germplasm EST Nucleotide Gene **Protein**

Filter 

Version	Locus	Length	Type	Definition	Cultivar	Product	EC_number	Organelle	Gene	Pubmed	Authors
1 AAC12797.1	AAC12797	145 aa	linear	adenosine triphosphatase, partial [Vigna radiata].		adenosine triphosphatase	3.6.1.3				Hung.S.
2 AAC12798.1	AAC12798	164 aa	linear	adenosine triphosphatase [Vigna radiata].		adenosine triphosphatase	3.6.1.3				Hung.S.
3 AAQ95731.1	AAQ95731	448 aa	linear	phospholipase C, partial [Vigna radiata].		phospholipase C			PLC1	14706839	Kim, Y. J., Kim, J. E., Lee, J.-H., and Kim, W.

## Simple Search>

This page also provides facility to export data in excel file. Click on excel logo for download data in respective tab. After download excel file we can see bellow image.

Genebank Id	Organism	GI	Version	Locus	Length	Type	Definition	Cultivar	Product	EC number	Organelle
AAC12797	Vigna radiata	2502085	AAC12797.1	AAC12797	145 aa	linear	adenosine triphosphatase, partial [Vigna radiata].		adenosine triphosphatase	3.6.1.3	
AAC12798	Vigna radiata	2502087	AAC12798.1	AAC12798	164 aa	linear	adenosine triphosphatase [Vigna radiata].		adenosine triphosphatase	3.6.1.3	
AAQ95731	Vigna radiata	2502088	AAQ95731.1	AAQ95731	448 aa	linear	phospholipase C, partial [Vigna radiata].		phospholipase C		

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



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Advance Search

## Advance search

“Advanced search” facilitates the enhanced use of this CWR database. It provide search facility to select species scientific name with their genomic data (Nucleotide, EST and protein) and also their respective germplasm data and their source (genebank source) based on common cultivar. The advanced search is an attempt to join the genebank and genbank ends in anticipation of adding value to germplasm leading to their enhanced utilization.

Species:

Country:

Genebank:

Genomic Resources:

Search

## Advanced Search>

“Advanced search” facilitates the enhanced use of this CWR database. It provides search facility to select species scientific name with their genomic data (Nucleotide, EST and protein) and also their respective germplasm data and their source (genebank source) based on common cultivar. The advanced search is an attempt to join the genebank and genbank ends in anticipation of adding value to germplasm leading to their enhanced utilization.

# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



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Species: ---Select Species---  
Country: ---Select Species---  
Genebank: ---Select Data Source---  
Genomic Resources: ---Select Type---

Phaseolus vulgaris  
Vigna radiata  
Vigna unguiculata  
Vigna angularis

Search

### Advanced Search>

In advanced search there are four criteria based on different selection.

First criteria are based on species name, select species from drop down list and click on search button, find respective data.

# Vigna and Phaseolus species



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## Advance Search

### Advance search

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Species: Phaseolus vulgaris  
Country: ja  
Genebank: ---Select Data Source---  
Genomic Resources: ---Select Type---

JAPAN

Search

### Advanced Search>

Second criteria is country name, we are start typing in textbox to display automatically country name, select and click search button.

# Vigna and Phaseolus species



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## Advance Search

### Advance search

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Species: ---Select Species---  
Country: SEARCH COUNTRY  
Genebank: ---Select Data Source---  
Genomic Resources: ---Select Type---

---Select Data Source---  
---Select Data Source---  
NBPGR  
Others

Search

### Advanced Search>

Third criteria is genebank, we can select from dropdown list, after that click on search button.



# Genetic and Genomic Resources of *Vigna* and *Phaseolus* species



## Advanced Search >

Forth criteria are based on species, country, genebank, and Genomic Resources. We are select species, country, genebank and also select genomic resource, after that click on search button to show data view in next image.

### Advance Search

#### Advance search

"Advanced search" facilitates the enhanced use of this CWR database. It provide search facility to select species scientific name with their genomic data (Nucleotide, EST and protein) and also their respective germplasm data and their source (genebank source) based on common cultivar. The advanced search is an attempt to join the genebank and genbank ends in anticipation of adding value to germplasm leading to their enhanced utilization.

Species: Phaseolus vulgaris  
 Country: COLOMBIA  
 Genebank: NBPGR  
 Genomic Resources: EST

Search

### Numbers of records

species

country

Genebank

Genomic type

### Genomic Records Details

11215 Records for Phaseolus vulgaris species from COLOMBIA country from NBPGR genebank and for genomic resources of EST type

Organism	Comman_name	Genebank_Id	Cultivar_Name	Source Country	Genebank	Date_of_Collection	GI Number	
<input type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	20/7/2002	<a href="#">256404049</a>
<input type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	20/7/2002	<a href="#">256404050</a>
<input type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	20/7/2002	<a href="#">256404051</a>
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<input type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	20/7/2002	<a href="#">256404056</a>
<input type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	20/7/2002	<a href="#">256404057</a>
<input type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	20/7/2002	<a href="#">256404058</a>

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11215 Records for Phaseolus vulgaris species from COLOMBIA country from NBPGR genebank and for genomic resources of EST type

Organism	Comman_name	Genebank	Date_of_Collection	GI Number	
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404049</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404050</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404051</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404052</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404053</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404054</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404055</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404056</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404057</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	NBPGR	20/7/2002	<a href="#">256404058</a>

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Genomic Records Details

11215 Records for **Phaseolus vulgaris** species from **COLOMBIA** country from **NBPGR** genebank and for genomic resources of **EST** type

Organism	Common_name	Genebank_Id	Cultivar_Name	Source Country	Genebank	Date_of_Collection	GI Number	
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404949</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404950</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404951</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404952</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404953</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404954</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404955</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404956</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404957</a>
<input checked="" type="checkbox"/>	Phaseolus vulgaris	French Bean	EC0500880	G19833	COLOMBIA	NBPGR	207/2002	<a href="#">256404958</a>
Organism	Common_name	Genebank_Id	Cultivar_Name	Source Country	Genebank	Date_of_Collection	GI Number	

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## Genetic and Genomic Resources of *Vigna* and *Phaseolus* species

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GI Details	Genebank_Id	Version	Organism	Length	Mol_Type	Definition	Cultivar	Product	Organelle	Gene	Pubmed	Authors
256404049	GO477897	GO477897.1	Phaseolus vulgaris	150 bp	mRNA	Clone 1243 Phaseolus vulgaris leaf EST library PV_GEA Phaseolusvulgaris cDNA, mRNA sequence.	G19833				19646251	Blair M.W., Munoz Torres M., Giraldo M.C. and Pedraza F.

Fasta File: TCTCCACACACTCTCTAACTCTGACATCACTTCTTTCCCTCCCAACACACACCCTCTCTCTCAAGCTGACG

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After click "GI Number" to show the Geanbank id, Version, Organism, Lenth, Mol\_type, Difinitio n, Cutivar, Product, Organelle, Gene, Pubmed, Authors and also see the sequence of fasta file.

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### Acknowledgments

Dr. Sunil Archak is funded by ICAR National Fellowship.

Data collection and analysis was part of M.Sc. thesis work of Mohd. Asif, Khan who was supported by IARI junior research fellowship. Firoz Ahmad was supported by CRP7 project.

Computational facilities at ICAR-NBPGR were established partly by NRRD project funded by the Department of Biotechnology, Government of India and are maintained by ICAR-NBPGR institutional funding.

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