

# Find Grandsire user guide

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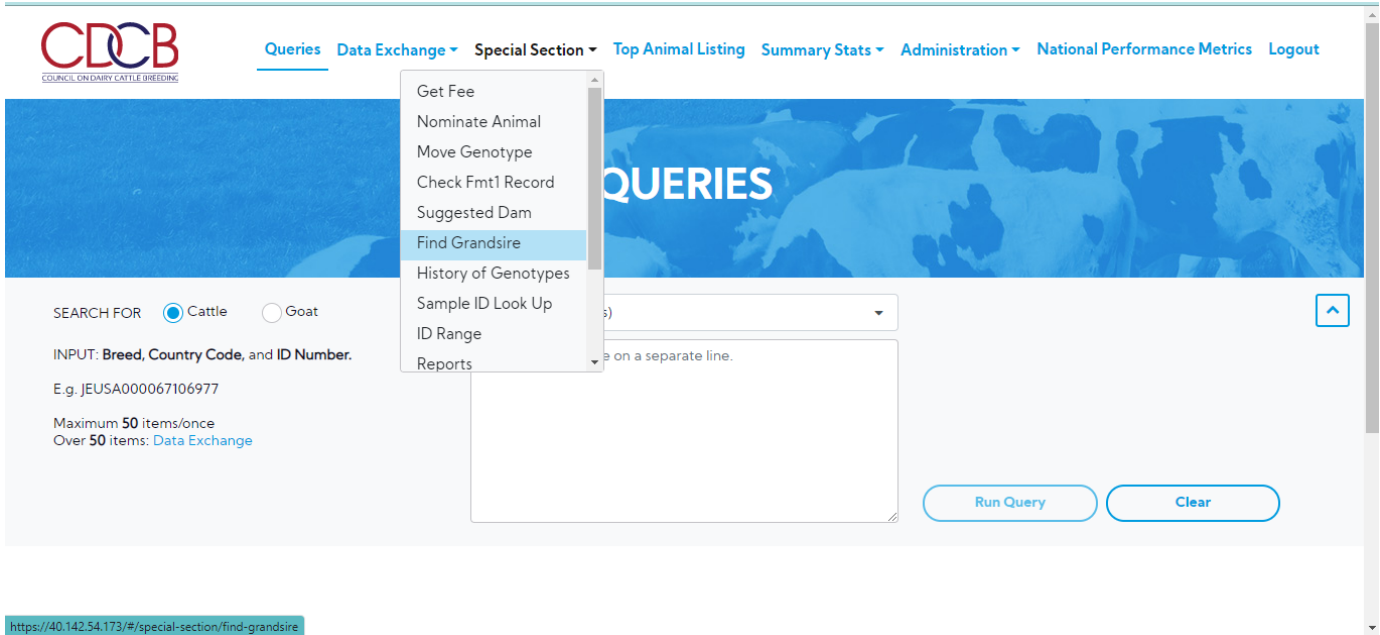
## Description

The Find Grandsire page can be accessed from the Special Section navigation bar. It allows the users to search and view all MGS/PGS candidates of animals using SNP-at-a-time comparisons. The same set of 3552 SNP is now used to determine grandsire likelihood.

This guide describes how to use the Find Grandsire feature.

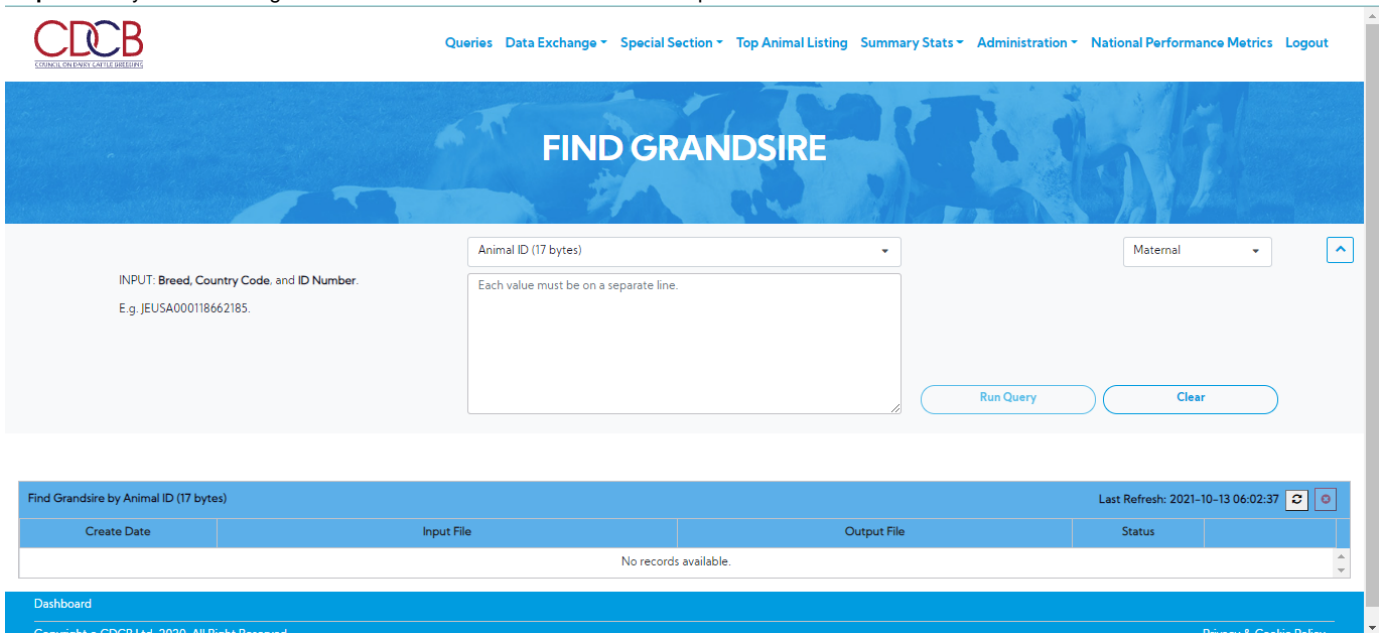
## Procedure 1: Access the Find Grandsire page

**Step 1:** Find the "Special Section" menu and select the "Find Grandsire" sub-menu after login successfully on <https://40.142.54.172/>



The screenshot shows the CDCB website interface. The navigation bar includes 'Queries', 'Data Exchange', 'Special Section', 'Top Animal Listing', 'Summary Stats', 'Administration', 'National Performance Metrics', and 'Logout'. The 'Special Section' dropdown menu is open, and 'Find Grandsire' is highlighted. Below the menu, there is a search form with 'SEARCH FOR' options for 'Cattle' (selected) and 'Goat'. The input field contains 'Breed, Country Code, and ID Number' with an example 'E.g. JEUSA000067106977'. There are 'Run Query' and 'Clear' buttons. The URL in the address bar is <https://40.142.54.173/#/special-section/find-grandsire>.

**Step 2:** The system will navigate to the "Find Grandsire" screen like the picture below:



The screenshot shows the 'Find Grandsire' page. The navigation bar is the same as in Step 1. The page title is 'FIND GRANDSIRE'. The search form has 'INPUT: Breed, Country Code, and ID Number' with an example 'E.g. JEUSA000118662185'. There is a dropdown for 'Animal ID (17 bytes)' and a 'Maternal' dropdown. Below the input field, it says 'Each value must be on a separate line.' There are 'Run Query' and 'Clear' buttons. At the bottom, there is a table titled 'Find Grandsire by Animal ID (17 bytes)' with columns 'Create Date', 'Input File', 'Output File', and 'Status'. The table shows 'No records available.' The footer includes 'Dashboard', 'Copyright © CDCB Ltd. 2020. All Right Reserved', and 'Privacy & Cookie Policy'.

Procedure 2: Find Grandsire with Animal ID (17 bytes) search option

After access successfully the Find Grandsire page the system will show default with **Animal ID (17 bytes)** search option

The screenshot shows the CDCB Find Grandsire page. At the top, there is a navigation menu with links: Queries, Data Exchange, Special Section, Top Animal Listing, Summary Stats, Administration, National Performance Metrics, and Logout. The main heading is "FIND GRANDSIRE". Below the heading, there is a search form with the following elements:

- INPUT: Breed, Country Code, and ID Number. E.g. JEUSA000118662185.
- A dropdown menu labeled "Animal ID (17 bytes)" with a downward arrow.
- A text area with the instruction "Each value must be on a separate line."
- A dropdown menu labeled "Maternal" with a downward arrow and an upward arrow icon.
- Buttons for "Run Query" and "Clear".

Below the search form, there is a table titled "Find Grandsire by Animal ID (17 bytes)". The table has columns: Create Date, Input File, Output File, and Status. The table is currently empty, displaying "No records available." The last refresh time is "2021-10-13 06:02:37".

**Step 1:** Select Maternal or Paternal option

This screenshot is identical to the previous one, but the "Maternal" dropdown menu is open, showing two options: "Maternal" (which is highlighted) and "Paternal".

**Step 2:** Enter input is Animal ID (17 bytes) and clicks on the "Run Query" button

# FIND GRANDSIRE

INPUT: Breed, Country Code, and ID Number.  
E.g. JEUSA000118662185.

Animal ID (17 bytes)

Maternal

AVCAN000000790322  
JEUSA000118662185  
HOUSA000071742683  
HO840003142934801

Run Query

Clear

Find Grandsire by Animal ID (17 bytes)				Last Refresh: 2021-10-13 06:44:47	
Create Date	Input File	Output File	Status		
No records available.					

Dashboard

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The resulting area will show with the format of the Input File is “#USER\_ID#[M or P].#TIMESTAMP[with MS]#.in”

# FIND GRANDSIRE

Animal ID (17 bytes)

Maternal

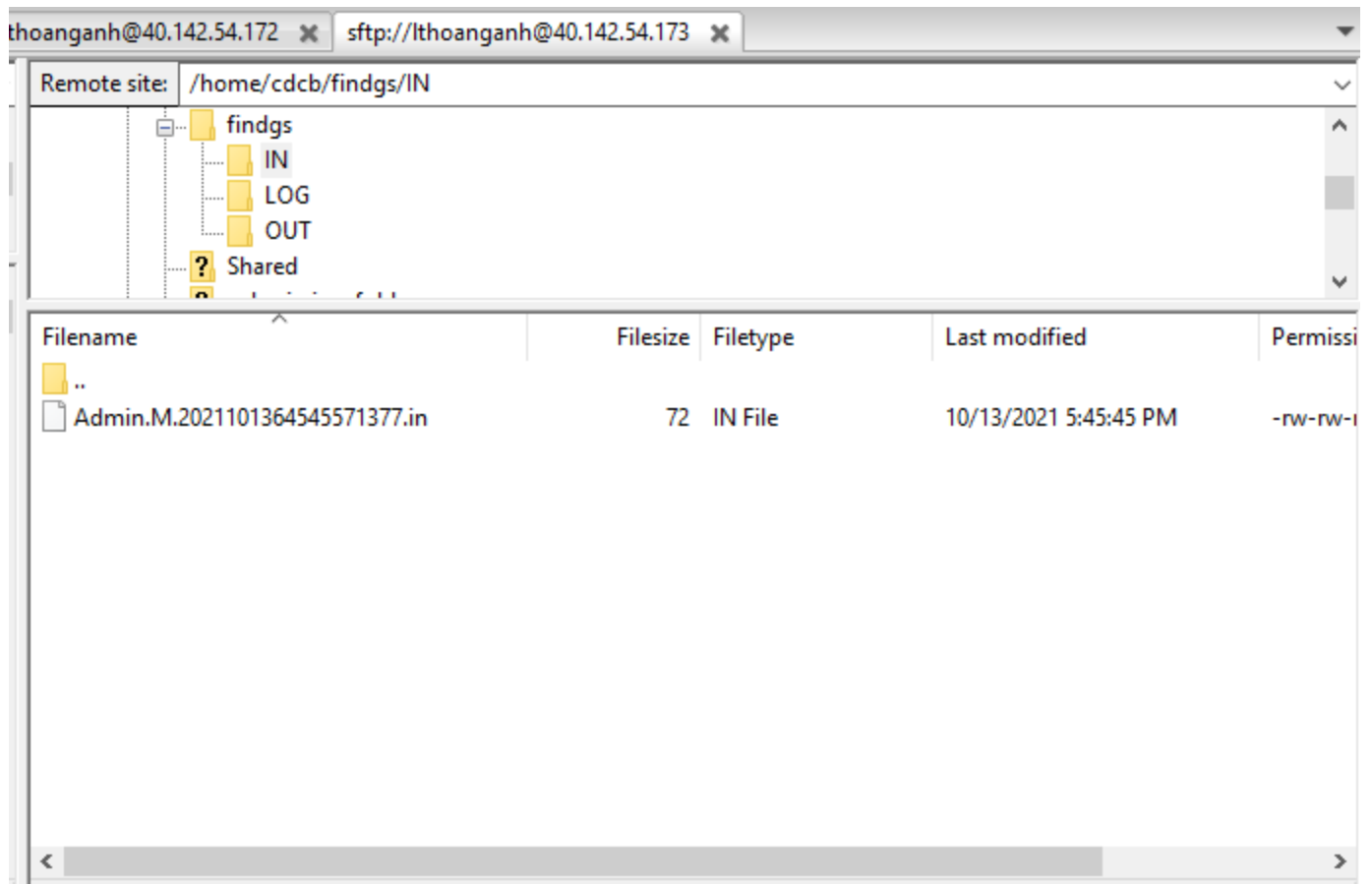
Find Grandsire by Animal ID (17 bytes)				Last Refresh: 2021-10-13 06:45:45	
Create Date	Input File	Output File	Status		
2021-10-13 06:45:45	Admin.M.2021101364545571377.in		IN QUEUE		

Dashboard

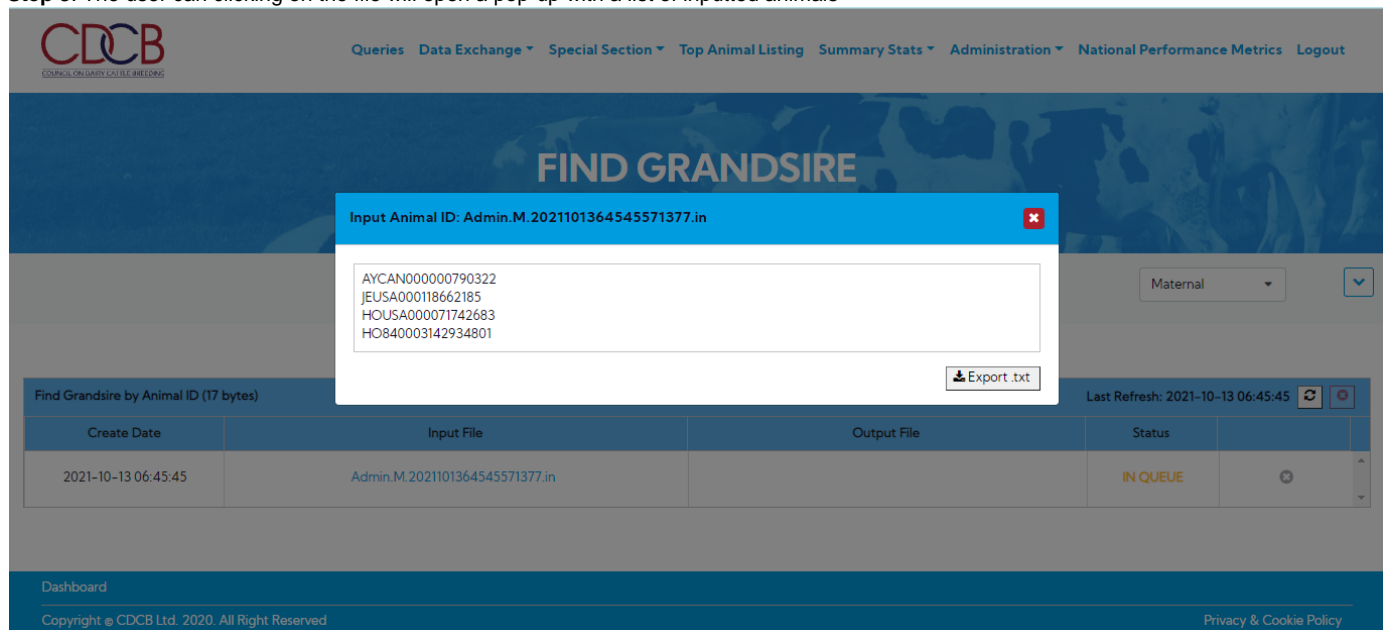
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Simultaneously, when the user submits a request, Web connect will create an input file and place it in the FindGS/IN/ directory on the server



**Step 3:** The user can clicking on the file will open a pop-up with a list of inputted animals



**Step 4:**

- On the production server, there will be a script that will run every X sec, searching in FindGS/IN/ files to be processed
- The production server executes the FindGS and then put all the output results in files with the same name as input, but store them in FindGS/OUT/ directory and update the suffix ".done" to the file input name in the FindGS/IN/ directory

hoanganh@40.142.54.172 x sftp://lthoanganh@40.142.54.173 x

Remote site: /home/cdcb/findgs/OUT

- findgs
  - IN
  - LOG
  - OUT
  - Shared

Filename	Filesize	Filetype	Last modified	Permissi
..				
Admin.M.2021101364545571377.out	567	OUT File	10/13/2021 5:50:10 PM	-rw-rw-r

hoanganh@40.142.54.172 x sftp://lthoanganh@40.142.54.173 x

Remote site: /home/cdcb/findgs/IN

- findgs
  - IN
  - LOG
  - OUT
  - Shared

Filename	Filesize	Filetype	Last modified	Permissi
..				
Admin.M.2021101364545571377.in.done	72	DONE File	10/13/2021 5:45:45 PM	-rw-rw-r

**Step 5:** When the production server executes FindGS and then puts all the outputs and stores them in the FindGS/OUT/ directory, the status of this process will be completed.

- The user clicks on the refresh button to see the changing status

The screenshot shows the CDCB website header with navigation links: Queries, Data Exchange, Special Section, Top Animal Listing, Summary Stats, Administration, National Performance Metrics, and Logout. Below the header is a blue banner with the text "FIND GRANDSIRE". Underneath the banner are two dropdown menus: "Animal ID (17 bytes)" and "Maternal".

The main content area features a table titled "Find Grandsire by Animal ID (17 bytes)" with a "Last Refresh: 2021-10-13 06:45:45" timestamp and refresh/stop icons. The table has the following structure:

Create Date	Input File	Output File	Status	
2021-10-13 06:45:45	Admin.M.2021101364545571377.in		IN QUEUE	

At the bottom of the page is a blue footer bar containing "Dashboard", "Copyright © CDCB Ltd. 2020. All Right Reserved", and "Privacy & Cookie Policy".

- The resulting area will show with the format of the Output File is “#USER\_ID#[M or P].#TIMESTAMP[with MS]#.out”

This screenshot is identical to the previous one, showing the CDCB website header and the "FIND GRANDSIRE" banner. The table in the main content area now shows the entry with a status of "COMPLETED" and an output file name.

Create Date	Input File	Output File	Status	
2021-10-13 06:45:45	Admin.M.2021101364545571377.in	Admin.M.2021101364545571377.out	COMPLETED	

The footer bar remains the same, containing "Dashboard", "Copyright © CDCB Ltd. 2020. All Right Reserved", and "Privacy & Cookie Policy".

**Step 5:** Clicking on the output will open a pop-up as the picture below

Output File: Admin.M.2021101364545571377.out

INPUT	COMPARISON TYPE	ANIMAL	MGS	CONFLICT PERCENTAGE	MESSAGE
JEUSA000118662185	Trio	JEUSA000118662185	JEUSA000115883929	6.8	
JEUSA000118662185	Trio	JEUSA000118662185	JEUSA000117168941	11.2	
JEUSA000118662185	Trio	JEUSA000118662185	JEUSA000117168914	11.8	
JEUSA000115883929	Duo	JEUSA0001142044404	JEUSA000117168914	8.3	
JEUSA000115883929	Duo	JEUSA000115883929	JEUSA0000000655767	11.2	
JEUSA0001146332333					No genotype for anima_key 47478081
JEUSA000112118277	Trio	JEUSA000112118277	JEUSA000110119021	7.6	No 4k genotype for sire_key 2972605. 3514 called for sire of key 41180211

Export File(s)

Procedure 3: Find Grandsire with "A plain ASCII text file" search option

Step 1: After access successfully the Find Grandsire page. The user selects the "A plain ASCII text file" search option

## FIND GRANDSIRE

INPUT: A plain ASCII text file with Animal ID (17 bytes).

A plain ASCII text file

Animal ID (17 bytes)

A plain ASCII text file

Drag and Drop to UpLoad or [Browse for a File](#)

Maximum upload file size: 5MB

Maternal

Run Query Clear

Find Grandsire by Animal ID (17 bytes) Last Refresh: 2021-10-13 06:56:57

Create Date	Input File	Output File	Status
2021-10-13 06:45:45	Admin.M.2021101364545571377.in	Admin.M.2021101364545571377.out	COMPLETED

Dashboard

Step 2: Select Maternal or Paternal option

# FIND GRANDSIRE

INPUT: A plain ASCII text file with Animal ID (17 bytes).

A plain ASCII text file

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

Maternal

Maternal

Paternal

Run Query    Clear

---

Find Grandsire by Animal ID (17 bytes) Last Refresh: 2021-10-13 06:56:57

Create Date	Input File	Output File	Status	
2021-10-13 06:45:45	Admin.M.2021101364545571377.in	Admin.M.2021101364545571377.out	COMPLETED	✖

Dashboard ↑

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**Step 3:** Drag and Drop to UpLoad Or Browse For a File into attachment box a file contains the information related to the selected (Animal ID (17 bytes)) search option will be attached to the box and click on the "Run Query" button

# FIND GRANDSIRE

INPUT: A plain ASCII text file with Animal ID (17 bytes).

A plain ASCII text file

\_TEST\_2000\_ANIMALS.txt

↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

Maternal

Run Query    Clear

---

Find Grandsire by Animal ID (17 bytes) Last Refresh: 2021-10-13 06:56:57

Create Date	Input File	Output File	Status	
2021-10-13 06:45:45	Admin.M.2021101364545571377.in	Admin.M.2021101364545571377.out	COMPLETED	✖

Dashboard ↑

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- Step 4:** (The similar with Animal ID (17 bytes) option)
- The resulting area will show with the format of the Input File is "**#USER\_ID#[M or P].#TIMESTAMP[with MS]#.in**"
  - Simultaneously, when the user submits a request, Web connect will create an input file and place it in the FindGS/IN/ directory on the server








# FIND GRANDSIRE

A plain ASCII text file

Maternal



Find Grandsire by Animal ID (17 bytes)				Last Refresh: 2021-10-13 07:02:18  	
Create Date	Input File	Output File	Status		
2021-10-13 07:02:18	<a href="#">Admin.M.202110137218464904.in</a> 		IN QUEUE		
2021-10-13 06:45:45	<a href="#">Admin.M.2021101364545571377.in</a>	<a href="#">Admin.M.2021101364545571377.out</a>	COMPLETED		





**Step 5:** When the production server executes FindGS and then puts all the outputs and stores them in the FindGS/OUT/ directory, the status of this process will be completed (This process is the same as Animal ID (17 bytes) search option)

# FIND GRANDSIRE

A plain ASCII text file

Maternal



Find Grandsire by Animal ID (17 bytes)				Last Refresh: 2021-10-13 07:05:36  	
Create Date	Input File	Output File	Status		
2021-10-13 07:02:18	<a href="#">Admin.M.202110137218464904.in</a> 	<a href="#">Admin.M.202110137218464904.out</a>	COMPLETED		
2021-10-13 06:45:45	<a href="#">Admin.M.2021101364545571377.in</a>	<a href="#">Admin.M.2021101364545571377.out</a>	COMPLETED	