

How to Review Your DNA Testing and Interpret Results

You've got enough information to keep track of, so why not let Herdbook help you with DNA records? Whether you ordered a DNA test years ago or just had that new bull transferred into your name, there's an easy way to view all the DNA testing done on an animal that's owned under your member account.

1. Log in to Herdbook.
2. Look up the animal in question by tattoo or ASA registration number.
3. On the animal's pedigree page, in the bottom right under the box titled "Reports", select "DNA Detail".

Useful Links

[New Animal Search](#)
[Epd Animal Search](#)
[Herd Groups/Reports](#)
[Planned Mating](#)

Reports

▸ [Basic Report](#)
[Expanded Report](#)
[Cow Summary](#)
[Progeny Report](#)
[Genetic Detail](#)
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[DNA Detail](#)
[Active Herd Data](#)

4. From here, you can view a comprehensive list of all DNA testing that was requested or completed.

Below are some common entries with brief explanations:

1. Kit Request. When the request for a DNA kit (or paperwork for a sample already on-hand) is uploaded and billed to your Herdbook account, the DNA record will be in "Kit_Request" status. This status will not change until the sample has finished testing and results are uploaded to Herdbook. If you have requested a sample pull for a specific trait or panel, "Kit_Request" is replaced with "Sample_Pull". When testing is complete, the DNA results or term "Complete" will replace "Kit_Request" or "Sample_Pull".

Barcode	Tattoo	Sex	Owner	Lab	Sample	Exhausted
Barcode 123019010382	Tattoo H01	Sex C	Owner 282182	Lab NEOGEN	Sample Hair	Exhausted false
Trait Requests						
Case 23561812	Order 546387	Type HPS	Code HPC	Translated TESTED_CARRIER	Banked 2020-06-22	Status 2020-07-29 09:57
		DL	S	SAMPLE_PULL		2022-06-29 10:23
Trait Requests						
		100K		K (KIT_REQUEST)		2022-04-19 14:41
Trait Requests						
Case	Order	Type HPS	Code K	Translated KIT_REQUEST	Banked	Status 2022-04-19 14:41

The DNA department encourages members to call our office approximately ONE WEEK after the "Kit_Request" status has been posted to make sure your sample arrived at the lab.

2. Sample Failed Testing. Does your sample or order seem to be taking longer than usual to run? The lab will run a sample three separate times before calling it failed, and it's the responsibility of the owner to collect, submit, and pay for new testing. Occasionally, a sample may pass some testing, but fail others (e.g. the sample may have passed the 100K panel and

receive GE-EPDs, but the coat color add-on testing failed). In these particular cases, Neogen and ASA recommend collecting and submitting a new sample; however, it is possible to request a sample pull on the original sample to run for the failed trait again.*

Barcode	Tattoo	Sex	Owner	Lab	Sample	Exhausted						
62521083414	211H	C	310168	NEOGEN	Blood	false						
<i>This record supplies the primary parentage</i>												
Case	Order	Type	Sire	Dam	Code	ALL/ET Bypass						
34860710	753665	SNP	3506652	2584182	NR	false						
Parentage Requests												
Case	Order	Type	Sire	Found	Qualifies	Dam	Found	Qualifies	Code	Banked	Status	Status Dt
34860710	753665	SNP	3506652	Y	N	2584182	N	N	NR	2022-05-25	SAMPLE FAILED TESTING NEW SAMPLE NEEDED	2022-06-29 10:19
Panel Requests												
Case	Order	Type	Banked	Status	Status Dt							
34860710	753665	100K	2022-05-25	NR (NO_RESULT)	2022-06-29 08:36							
Trait Requests												
Case	Order	Type	Code	Translated	Banked	Status	Status Dt					
34860710	753665	HPS	NR	NO_RESULT	2022-05-25		2022-06-29 10:19					

*Any tissue sample that passed 100K testing but failed in a simple trait (coat color or horned/polled), can be pulled by request of the owner and re-run for the failed simple trait at no cost. Note: if the sample pull failed to produce results again, the member must submit a new sample and they are responsible for all testing charges. The member/owner is responsible to requesting any sort of re-test after a sample or trait failed.

3. Results Uploaded – With Parent Exclusion. Any sire or dam entered on the test request form will be automatically run in a parentage analysis before results are uploaded to Herdbook. If a parent doesn't qualify, the animal's record (including EPDs) will immediately be suspended.* In the example below, the sample did not qualify to the sire; the "Y" under the "Found" column indicates the sire does have DNA on file, but the "N" under "Qualifies" denotes he is not the likely sire of this sample. The dam has "N" under the "Found" column, indicating she does not have DNA on file to compare to the sample.

Barcode	Tattoo	Sex	Owner	Lab	Sample	Exhausted						
31318024884	F50	B	281041	NEOGEN	Hair	false						
<i>This record supplies the primary parentage</i>												
Case	Order	Type	Sire	Dam	Code	ALL/ET Bypass						
34543439	747460	SNP	2790164	3293360	P5	false						
Parentage Requests												
Case	Order	Type	Sire	Found	Qualifies	Dam	Found	Qualifies	Code	Banked	Status	Status Dt
34543439	747460	SNP	2790164	Y	N	3293360	N	N	P5	2022-06-07	12 EXCLUSIONS TO SIRE	2022-06-29 10:19
Panel Requests												
Case	Order	Type	Banked	Status	Status Dt							
34543439	747460	100K	2022-06-07	C (COMPLETE)	2022-06-29 08:36							
34543439	747460	DP2	2022-06-07	C (COMPLETE)	2022-06-29 10:19							
Trait Requests												
Case	Order	Type	Code	Translated	Banked	Status	Status Dt					
34543439	747460	NH	NH FREE	TESTED_FREE	2022-06-07		2022-06-29 10:19					
34543439	747460	TH	TH1 FREE TH2 FREE	TESTED_FREE	2022-06-07		2022-06-29 10:19					
34543439	747460	PHA	PHA1F PHA2F	TESTED_FREE	2022-06-07		2022-06-29 10:19					
34543439	747460	DD	DDF	TESTED_FREE	2022-06-07		2022-06-29 10:19					
34543439	747460	OS	OS FREE	TESTED_FREE	2022-06-07		2022-06-29 10:19					
34543439	747460	AM	AMF	TESTED_FREE	2022-06-07		2022-06-29 10:19					
34543439	747460	CA	CAF	TESTED_FREE	2022-06-07		2022-06-29 10:19					

*The most efficient way to resolve parent exclusions is to send the ASA registration number(s) of alternate sire(s) and/or dam(s) to dna@simmgene.com. These rechecks are run manually by the ASA DNA staff, so please allow for 1-3 business days for results as requests are handled in the order in which they are received. If the alternate parent qualifies, the pedigree is updated and record suspension is removed.