



VBSS DNA Questions and Answers

Am I required to DNA parent verify my lambs to have them registered/recorded?

DNA-typing with parentage verification is not required for foundation ewes or for lambs less than F3 (87.5%) percentage, unless the progeny is from an embryo transfer. (Any sheep may be optionally DNA-typed if you so choose.) For any sheep that are DNA-typed and/or codon tested, the registry will maintain those records and record it on their certificates.

The Board does retain the right to request random DNA testing of individual Recorded Stock applications for the purpose of verifying parentage, costs of which will be borne by the applicant.

Where do I DNA parent verify my sheep?

We recommend DNA typing be done at Flock 54. Flock54SM is a targeted genotyping panel that allows producers to test their flock's DNA for animal parentage as well as for a variety of traits associated with diseases (including Scrapie genotyping), production, and meat quality – all for only \$20 per sheep.

Am I required to use Flock 54, or may I use another testing facility?

You may use UC Davis, but other facilities must be approved in advance by VBSS. You must provide the UC Davis report along with your other official registry certificate when submitting your application for registration.

Anyone wanting to dual register that is coming from another registry may have already had this done for F1s and F2s. For example, they shouldn't need to retype the foundation ewe if verification of her as dam was already verified – we will accept parentage verification if already done at UC Davis. If they are continuing to dual register each generation, they will have required UC Davis testing by the other registry each generation.

They will not be required to prove parentage again via Flock 54. However, they may optionally want to test at Flock 54 anyway because of all the other data they get incl Scrapie, and the test

is inexpensive. (The cost of Flock 54 testing – incl. parentage, Scrapie (codon 170) and all, is less than the cost of testing codons 136 and 171 at Gene Check.)

How do I submit my sheep DNA to Flock 54 for testing?

Please use the attached form to list your sheep being tested:

Producer Submission Form Flock 54

Please follow the instructions on the attached document for collection and shipping:

INSTRUCTIONS_Flock54 Parentage Testing

NOTE: *The instructions do not list “hair” as an option, but they can do testing from hair (NOT wool). They prefer the sample types listed on the form because there is a greater volume of DNA and so much easier to do many tests.*

What if the ram genetics are not stored at UC Davis or Flock54 yet?

Purebred rams for AI would need to be typed at UC Davis and Flock 54 and should be provided by those selling straws to anyone in either registry. Most of the available pure rams have had samples submitted to Flock 54. We are still working on getting samples from all pure rams for DNA verification. With UC Davis and Flock 54 provide a case number on report that is needed to link to the typing on file. VBSS will make these case/reference numbers available to anyone using their straws for AI so they can type the offspring.

You may assist us getting all the rams in Flock 54. After you use a straw for LAI, you can place the leftover straw in the freezer and verify we do not have a case number already established or in process. If we do not, we will assist in submitting the leftover straw along with the sample submission form to Flock 54.

What if my lambs are produced from Embryo Transfer or shipped in Live from other countries?

This portion is still in discussion by the board and members. We hope to have details soon.

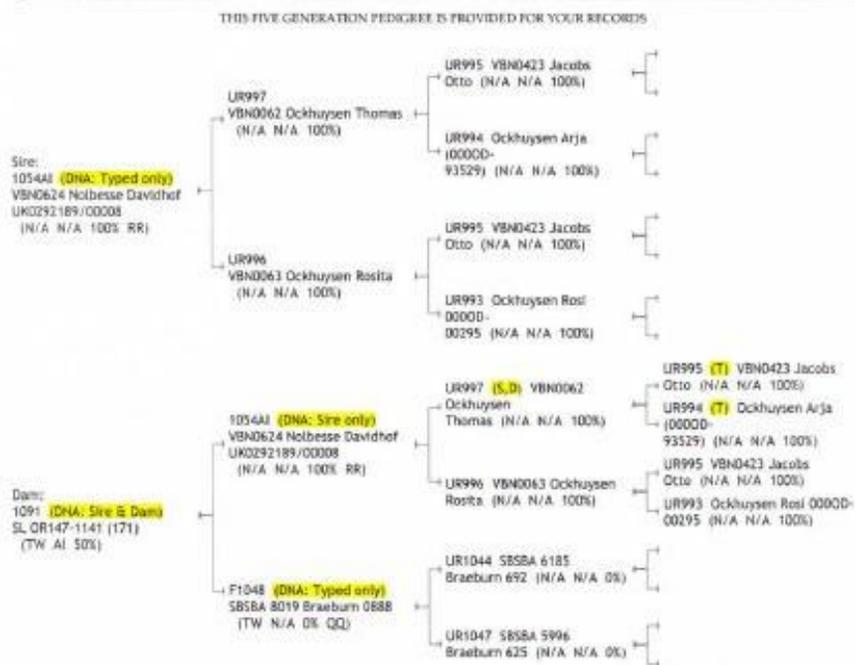
Am I required to check my sheep for Scrapie resistance?

All AI breeding rams are required to have Scrapie genotyping (codon 170) but that test is included in the Flock54 DNA testing results and maybe submitted to the registry on the same DNA results document or other registry certificate. It is desirable for you to test all sheep to protect yourself but not required.

How does the registry record that my sheep are DNA typed/parent verified?

Example Certificate with DNA recorded:

Certificate of Recording		
1570 Shepherds Lane Davina SL OR147-1272 (470)		
Sex: Ewe DOB: 05/23/2019 75% Single Color: White Codon 171: N/A Conception: AI DNA: Sire & Dam		
Sire	1054AI VBN0624 Nolbesse Davidhof UK0292189/00008 (N/A N/A 100% RR)	DNA: Typed only
Dam	1091 SL OR147-1141 (171) (TW AI 50%)	DNA: Sire & Dam
Breeder	Joy & Martin Dally, Shepherds Lane, Lebanon, OR	
Owner	Joy & Martin Dally, Shepherds Lane, Lebanon, OR	
Date Registered	09/02/2019	
		<i>George Morgan</i> George Morgan, Registrar



Valais Blacknose Sheep Society

19508 Tiller Trail Hwy, Days Creek, OR 97429 vbss@glmregistry.com 541-825-8580

DNA: Typed only (this would show an animal who has their DNA on file but has not been matched to sire or dam.).

Depending on which parents have been DNA matched, the text would be **DNA: Sire** or **DNA: Dam** or **DNA: Sire & Dam**. For the last 2 columns of the pedigree, where space is most limited: **(T)** or **(S)** or **(D)** or **(S,D)** to denote the same information as above.

Embryo Transplant progeny will have the text: **ET**

A legend would then be included somewhere on the front of the certificate (most likely in the lower left area) that would give a brief definition of the DNA wording/abbreviations used.