DNA Sample Submission Instructions

Order Form contains multiple 'Tabs' (found at the bottom of the screen). To select a specific Tab, simply place your cursor over the Tab name and single click left mouse button.

Step 1: Complete RAAA Parentage and Genetic Defect DNA Order Form

- Provide complete animal identification information.
 - For non-registered animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identifiying information such as Date-of-Birth(DOB), ID/Prefix, animals, include all identification and identification all identification and identification
 - For Registered animals, include all identifiying information DOB, ID/Prefix, and Sex.
 - Barcode number can be found on the back of DNA Kit. Typically a 10 or 11 digit number.
 - If semen is provided as the DNA sample, provide the NAAB Semen Code Genetic Defect Tests:
 - Indicate each requested genetic defect test by writing the defect abbreviation(AM, CA, MA, NH, DD, O *Parentage*:
 - Request parentage by placing a Y in the Parentage column.
 - If sire/dam is not an RAAA registered animal, provide breed assoc. information with Reg#
 Ex: Canadian Angus = CAN#######, American Angus = UAN#######, Simmental = USM#######
 - If multiple sire/dam breeding groups were used, specify the sire group (single letter or number) for each progeny and complete the Multi-Sire Breeding Groups sheet. See Step 2.

Pricing

Scientific Name	Abbrev	Common Name	Price		
Arthrogryposis Multiplex	AM	Curly Calf	\$20		
Contractural Arachnodactyly	CA	Fawn Calf	\$20		
Alpha-Mannisodosis	MA		\$20		
Neuropathic Hydrocephalus	NH	Waterhead	\$20		
Osteopetrosis	OS	Marble Bone	\$20		
Developmental Duplication	DD		\$25		
Parentage (per sample)			\$15		
All parentage will be performe	ed using S	NP technology.			
GGP-HD			\$90		
Includes Parent Verification, G	OS,and MA	A testing			
GGP-LD			\$48		
Includes Parent Verification, G	OS, and M	A testing			
GGP-ULD			\$34		
Includes Parent Verification					
* GGP-HD, LD & ULD require registration number for submission					
Neuropathic Hydrocephalus (NH) addeded to Genomic Merit testing					
Bovine Viral Diarrhea (BVD) - Hair or Tissue Sample Only					
Add on to GGP, Parentage or	Defect Te	st	\$4		
Hair Sample Subject to Lab Proce	essing Fee		\$4		

Step 2: Complete Multi-Sire/dam Breeding Groups Sheet (if applicable)

- List ALL sires/dam who potentially parented the submitted offspring.
- Sires MUST be identified with a registration number. If reg# is not RAAA, include breed assoc.
 - Ex: Canadian Angus = CAN######, American Angus = UAN######, Simmental = USM######

Step 3: Submit Order to RAAA:

DNA Sample Collection Basics

While DNA tests have advanced to a technology with endless capabilities, the entire process is dependent on a step that includes little, if any, science-a properly collected DNA sample. Although DNA technology and its associated DNA sample have become part of our general 'know how', it has been estimated that approximately 30% of samples don't meet quality control standards. The two leading causes for a sample to fail quality control standards: Insufficient DNA to perform the requested test; or, sample contaminated with foreign material such as manure. Application of the below information will increase your ability to deliver quality DNA samples.

Hair Sample

- The useable DNA is located in the hair follicle (hair root).
- Collect hair sample from the middle of the animal's tail switch (end of tail).
- · Minimums of 20 to 30 follicles are needed per sample.
- Follicles on young calves contain reduced amounts of DNA; therefore, 40 to 50 follicles are needed per sample.
- Hair must be clean from manure, mud, etc. If necessary, wash foreign matter off the tail prior to collecting sample.
- · Collected sample must be dry. Wet samples quickly deteriorate.
- Place hair sample into 'hair card' as soon as it's collected. Don't place in Ziploc bag chute-side.
- · Keep collected sample out of direct sunlight and/or extreme temperatures.
- Hair samples can be shipped in a standard shipping box or padded envelope.
- · Subject to \$4 lab processing fee.

FTA Blood Card

- · Ideal sample locations include the animal's ear or the underside of the tail.
- Use a NEW needle or pricking device for each animal. DO NOT simply wash the needle/pricking device between each animal, as this does not prevent crosscontamination.
- Ensure that the location of the animal in which the sample will be collected is clean.
- · Fill the entire pre-printed circle on the FTA card with blood, but don't flood the card.
- · Allow collected blood to dry, not in direct sunlight, prior to storing the sample.
- Don't allow direct contact between collected FTA cards, as cross-contamination can occur.
- Keep collected sample out of direct sunlight and/or extreme temperatures.
- · Blood samples can be shipped in a standard shipping box or padded envelope.

Tissue

- ONLY to be collected from the ear with an approved TSU (Tissue Sampling Unit) device(Allflex).
- · Make sure the sample does not include an area of the ear that has been tattooed.
- . Ensure that the TSU is sealed properly by noting the green ball is inside the tube.
- Check to see that there is liquid visible inside of the TSU, to preserve the sample.
- Ensure that there is a visible amount of tissue sample inside of the tube.
- Keep the TSU's at room temperature before use and only freeze once the sample is collected and the TSU will be stored for more than 1 year.

Semen

- The greatest risk with semen is samples damaged during shipment to lab.
- Carefully package semen straw in a protected manner. The preferred method is inside an ink pen with the cartridge removed. Another optional method is between pieces of cardboard in a padded envelope or wrapped in bubble wrap.
- Place each individual packaged semen straw in a Ziploc bag. This prevents cross contamination in the case that a straw leaks.
- Semen samples do not need to be shipping in liquid nitrogen; however, it is good practice to keep the semen in a deep freezer until shipped.

RAAA DNA Order Form





Name:		RAAA Acct#:				
Address:		Phone:				
City:	State:	ZIP:	Fax:		<u></u>	
**Email:	**Test resu	ılts & all communica	tion regarding your orde	er will be via e-ma	ail, unless otherwise requested.	
Effective July 1,2016 Submissions r	•		•			
Expected Turnaround Time: 20 Business		•				
Please review "DNA Sample Basics" to en	sure a quality sa nal Information	imple is received a	t the lab. Questions if the lab. Genetic Abnorr	nust be directe	d to the RAAA National Office. DO Parentage	
/		typelethiti DOB Set White h	Defected And Did of	nality Tests	babe site group site Reest Probable Date Must Reest Probable Date	
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Terms: Upon submitting samples to the Red Angus Association of Americ sample in an effort to describe the animal's genetics. The submitting party determined through the genetic testing publicly available. In the event tha RAAA Rules and Regulations. The submitting party agrees that all sample beef industry. Therefore, RAAA shall not be held responsible for damages results. The term 'submitting party' shall mean any RAAA member/custom	y further agrees and acknowle t the submission of this/these as are submitted to RAAA in a of any kind, including but not	edges that it assumes all risks that samples results in a parentage e in effort to fulfill the RAAA missior t limited to, lost profits, lost value	at are associated with the genetic testing exclusion(s) or identification of genetic donor of advancing the quality, reliability, and of progeny, lost value of embryos and/o	results and any associated efect carrier(s), the process value of Red Angus and Rosensen, interruption of busi	implications. RAAA has the right to make any results through which owners/breeders are notified will follow ed Angus influenced seedstock used in the commercial iness that may arise from the publication of genetic testing	

RAAA DNA Order Form





DNA10.1.16

	Animal Information	G	enetic Abnormality Tests	Parentage
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Multi-Sire/Dam Breeding Group Information

(Complete for Multi-Sire Pastures)

If sample is enclosed for sire/dam also list on Order Form and mark Parentage.

breeu	ing Group:		•			
	Association	Reg #	Tattoo	Sample Enclosed?		
Sire 1						
Sire 2						
Sire 3						
Sire 4						
Sire 5						
Sire 6						
	l	J	l	l		
Breedir	Breeding Group:					
	Association	Reg#	Tattoo	Sample Enclosed?		
Sire 1						
Sire 2						
Sire 3						
Sire 4						
Sire 5						
Sire 6						
D						
Breed	ling Group: Association	Reg #	Tattoo	Sample Enclosed?		
Sire 1		Reg#	Tattoo	Sample Enclosed?		
		Reg#	Tattoo	Sample Enclosed?		
Sire 1		Reg#	Tattoo	Sample Enclosed?		
Sire 1 Sire 2 Sire 3		Reg#	Tattoo	Sample Enclosed?		
Sire 1 Sire 2 Sire 3 Sire 4		Reg #	Tattoo	Sample Enclosed?		
Sire 1 Sire 2 Sire 3 Sire 4		Reg#	Tattoo	Sample Enclosed?		
Sire 1 Sire 2 Sire 3 Sire 4 Sire 5 Sire 6		Reg #	Tattoo	Sample Enclosed?		
Sire 1 Sire 2 Sire 3 Sire 4 Sire 5 Sire 6	Association	Reg #	Tattoo	Sample Enclosed? Sample Enclosed?		
Sire 1 Sire 2 Sire 3 Sire 4 Sire 5 Sire 6	Association					
Sire 1 Sire 2 Sire 3 Sire 4 Sire 5 Sire 6	Association					
Sire 1 Sire 2 Sire 3 Sire 4 Sire 5 Sire 6	Association					
Sire 1 Sire 2 Sire 3 Sire 4 Sire 5 Sire 6 Breed	Association					
Sire 1 Sire 2 Sire 3 Sire 4 Sire 5 Sire 6 Breed Sire 1 Sire 2 Sire 3	Association					

^{*}This breeding group page can also be utilized for listing multiple dams.