Pfizer Animal Health
Animal Genetics

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GENESTAR CUSTOMER RESULTS REPORT
Final Report

Job No: 11729

Contact: Matt Spangler
Customer: University of Nebraska
Phone: 402-472-6417
Fax: 402-472-6362
Email: jgosey1@unl.edu
Address: 204 Animal Science Bldg.
Lincoln NE 68583

Date Requested: 25-Feb-09
Date Completed: 09-Mar-09
Customer ID: UnivNE
Password: 0310sima
Notes:

Animal ID	Gender	Bar Code	Breed:	Test:		
8016 Reg No: -	M	9000557640	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8037 Reg No: -	M	9000557627	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8045 Reg No: -	M	9000557655	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8055 Reg No: -	M	9000557650	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8060 Reg No: -	M	9000557653	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8065 Reg No: -	M	9000557649	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8094 Reg No: -	M	9000557656	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8102 Reg No: -	M	9000557658	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB
8105 Reg No: -	M	9000557654	Simmental Publish to website[1] ☐	GeneSTAR Black	EDED	HB

Preservation of Sample Identification
Repeatability of Genetic Analysis for:
Genetic Markers for Animal Quality and Management
Genetic Markers for Product Quality and Management
Parentage and DNA Traceability

USDA PROCESS VERIFIED

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Notes:

Animal ID	Gender	Bar Code	Breed:	Test:		
8111	M	9000557647	Simmental	**GeneSTAR Black**	EDe	not HB
Reg No: -			Publish to website[1] ☐			
8117	M	9000557657	Simmental	**GeneSTAR Black**	EDED	HB
Reg No: -			Publish to website[1] ☐			
8127	M	9000557626	Simmental	**GeneSTAR Black**	EDED	HB
Reg No: -			Publish to website[1] ☐			
8135	M	9000557651	Simmental	**GeneSTAR Black**	EDED	HB
Reg No: -			Publish to website[1] ☐			
8147	M	9000557652	Simmental	**GeneSTAR Black**	EDe	not HB
Reg No: -			Publish to website[1] ☐			
8149	M	9000557648	Simmental	**GeneSTAR Black**	EDED	HB
Reg No: -			Publish to website[1] ☐			

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Notes:

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RESULT PUBLICATION AUTHORIZATION:

I,_____-hereby authorize for the publication of the results of those animals indicated above to be displayed on the public results portion of the Website.

Signed:_____ Date: _____

DISCLAIMER: Pfizer Animal Genetics has not made any and hereby excludes all warranties, terms conditions or undertakings, whether expres or implied, written or oral, statutory or otherwise including and implied warranty of merchantability of fitness for a particular purpose in respect of the information contained in this report.

[1] Place a checkmark in the box next to the results you would like to have displayed in the Public Results area of the website www.pfizeranimalgenetics.com. To have these results displayed you must sign at end of this form and check the animals to be displayed and fax form to the number at the bottom of the page.

[2] GPDs™ (genetic progeny differences) are a logical, simple calculation used to describe the actual genetic makeup of the animal and the true effect of each allele, or combination of alleles within the trait. The unit of measure for Tenderness is Pounds of Warner Bratzler Shear Force, so a lower number is better. The unit of measure for Quality Grade is Percentage likelihood of grading Choice or Better, so a higher number is better.

Results explanation: Arthrogryposis Multiplex is a recessive genetic abnormality which is lethal to animal carrying two copies of the abnormal gene. Animals carrying a single copy show no symptoms, but may pass on the mutation to their offspring. When two carrier animals are mated, there is a 25% chance that the progeny will be affected by Arthrogyposis Multiplex and most likely stillborn.

The Pfizer Animal Genetics Arthrogryposis Multiplex test distinguishes between the three possible genotypes for this mutation, as follows:

AMF: Indicates that the animal has been tested for the causative mutation and been found to be free of the mutation. This animal is homozygous, meaning that it has two copies of the normal variant (or allele) of the gene. This animal is unable to transmit the AM mutation to its progeny.
AMC: Indicates that the animal has been tested for the causative mutation and been found to be a carrier of the mutation. This animal is heterozygous for the mutation, meaning that it has one mutant allele and one normal allele. This animal will pass the mutation on to approximately half of its progeny.
AMA: Although affected calves are rarely tested, they would be homozygous for the mutation and have two copies of the mutant variant of the gene. These calves will typically be dead at birth.