Pfizer Animal Health
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GeneSTAR MVP Report

US/XP/01/Jan 2010

Job number:	US509314
Date requested:	3.1.2011 11:01:17 PM
Animal count:	7
Customer name:	Paradocs Embryo Transfer
Customer address:	121 Packerland Drive

Bill to:	Paradocs Embryo Tr ansfer
Customer ID:	17464
Customer phone:	920-639-0405
Customer email:	pdocset@sbcglobal.r net
Reported Date:	3.10.2011 01:51:58 F M

Thank you for choosing Pfizer Animal Genetics as your genomics test provider. We are pleased to distribute the accompanying GeneSTAR report, which summ arizes test results based on the DNA samples you recently submitted. In additon to genotypes for homozygous black for applicable animals, GeneSTAR Molecular Value Predictions, or M MVPs, use a panel of 56 markers to predict an animal's genetic merit for feed efficiency, marbling and tenderness. As an added enhancement, this report includes palatability index score s that rank animals from least to most desirable according to net genetic merit for marbling and tenderness, where equal weighting is given to each trait based on the standard devia tion of each trait. Animals are categorized into palatability zones based on index values, where scores below 100 suggest marginal eating satisfaction, scores between 100 and 35 5 indicate acceptable palatability, and scores above 355 identify genetics for superior combinations of tenderness, juiciness and flavor. This collective information helps to identify the respective genetic merit of different animals, allowing you to make more informed selection and breeding decisions. Remember, as it relates to individual trait MVPs:

- Lower MVPs are favorable for feed efficiency, which is measured as Net Feed intake (NFI) in lbs. of dry matter consumed per day
- Generally, for most markets, higher MVPs are favored for marbling, which is reported in units of USDA marbling score
- Lower MVPs are favored for tenderness, which is expressed in lbs. of force required to shear a piece of longissimus dorsi muscle cooked to a standard protoco l
- Percent Ranks for MVPs are reported on a within breed or bos basis (depending on breed), while palatability index ranks are based across all animals and bree ds in the Pfizer database

In the worksheet tabs identified below, you will find trait definitions, animal results, summary statistics, and a list of animals and reasons as to why they may not b e included in this report. For your reference, in the event that data integrity is compromised during sorting in other tabs, Sheet 6 tab in this report includes information that is locked and c annot be sorted.

For additional information or questions, please visit www.pfizeranimalgenetics.com or call (877) 233-3362.

	Feed Efficiency	Marbling	Tenderness	Palatability Index
Across Breed Minimum MVPs:	-2,80	-0,40	-0,98	-454
Across Breed Average MVPs:	0,49	0,48	-0,17	228
Across Breed Maximum MVPs:	2,27	1,15	0,85	848

Palatability Zone
Marginal < 1 00
Acceptable 100 t o 355
Superior > 3 55

Authorized By

Jason Churchman
Laboratory Production Manager