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HKK010

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Genomics Order: 189524  
LIMS Order: 1110971

Igenity® – Confident Selection

Neogen GeneSeek Operations  
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Detailed Report

Animal Information						Results		
Animal ID	Electronic ID	Sample Barcode Number	Gender (M/F)	Breed	Batch ID	Igenity Terminal Index	Igenity Branded Tier	Igenity DOF Index
54		NE05433297	M	OT		7.70	Elite	8.18
90		NE05433386	M	OT		7.65	Elite	6.81
35		NE05433324	M	OT		7.60	Elite	6.97
5		NE05433304	M	OT		7.55	Elite	5.49
63		NE05433283	M	OT		7.35	Elite	5.04
14		NE05433323	M	OT		7.25	Elite	7.27
36		NE05433305	M	OT		7.15	Elite	6.37
1		NE05433387	M	OT		7.10	Elite	4.08
77		NE05433326	M	OT		7.05	Elite	6.13
87		NE05433368	M	OT		7.05	Elite	6.86
81		NE05433320	M	OT		7.00	Elite	5.02
34		NE05433281	M	OT		6.85	Elite	5.88
76		NE05433366	M	OT		6.85	Elite	7.11
44		NE05433389	M	OT		6.70	Elite	6.59
40		NE05433316	M	OT		6.60	Elite	6.79
41		NE05433294	M	OT		6.60	Elite	7.28
61		NE05433309	M	OT		6.60	Elite	5.04
22		NE05433361	M	OT		6.55	Elite	5.02
49		NE05433381	M	OT		6.55	Elite	7.24
74		NE05433398	M	OT		6.55	Elite	5.25
2		NE05433377	M	OT		6.50	Elite	5.22
62		NE05433328	M	OT		6.50	Elite	6.96
8		NE05433348	M	OT		6.50	Elite	7.01
15		NE05433296	M	OT		6.40	Elite	7.40
24		NE05433390	M	OT		6.35	Elite	6.67
51		NE05433315	M	OT		6.35	Elite	5.54
68		NE05433312	M	OT		6.35	Elite	6.34
72		NE05433306	M	OT		6.35	Elite	6.73
13		NE05433336	M	OT		6.30	Elite	5.47
37		NE05433300	M	OT		6.30	Elite	5.89
59		NE05433346	M	OT		6.30	Elite	7.27
73		NE05433290	M	OT		6.30	Elite	6.60
50		NE05433364	M	OT		6.25	Elite	7.54
60		NE05433317	M	OT		6.20	Elite	6.49
86		NE05433395	M	OT		6.20	Elite	4.84
58		NE05433318	M	OT		6.15	Elite	6.42
78		NE05433330	M	OT		6.15	Elite	5.29
9		NE05433308	M	OT		6.10	Elite	7.03
48		NE05433375	M	OT		6.05	Elite	7.01
7		NE05433383	M	OT		6.00	Elite	5.98
75		NE05433337	M	OT		6.00	Elite	7.02
38		NE05433349	M	OT		5.95	Elite	6.35
42		NE05433393	M	OT		5.90	Premier	6.26
83		NE05433358	M	OT		5.90	Premier	4.91
29		NE05433319	M	OT		5.85	Premier	6.18
31		NE05433332	M	OT		5.85	Premier	3.79
43		NE05433392	M	OT		5.85	Premier	6.99
27		NE05433334	M	OT		5.80	Premier	5.66
39		NE05433380	M	OT		5.80	Premier	6.00
64		NE05433343	M	OT		5.80	Premier	6.69
3		NE05433359	M	OT		5.75	Premier	4.87
56		NE05433329	M	OT		5.70	Premier	3.71
80		NE05433345	M	OT		5.65	Premier	6.29
23		NE05433282	M	OT		5.60	Premier	3.82
30		NE05433331	M	OT		5.60	Premier	4.63
6		NE05433372	M	OT		5.60	Premier	5.55
71		NE05433399	M	OT		5.60	Premier	4.75
84		NE05433385	M	OT		5.55	Premier	4.51
11		NE05433351	M	OT		5.50	Premier	5.20
33		NE05433285	M	OT		5.50	Premier	6.15
47		NE05433280	M	OT		5.45	Choice	4.36
66		NE05433397	M	OT		5.45	Choice	5.23
79		NE05433335	M	OT		5.40	Choice	6.68
25		NE05433321	M	OT		5.35	Choice	4.83
57		NE05433314	M	OT		5.35	Choice	7.19
65		NE05433310	M	OT		5.35	Choice	5.96
82		NE05433327	M	OT		5.30	Choice	4.64
4		NE05433357	M	OT		5.25	Choice	6.85
55		NE05433292	M	OT		5.25	Choice	4.47
19		NE05433311	M	OT		5.20	Choice	4.49
12		NE05433291	M	OT		5.10	Choice	6.65
21		NE05433342	M	OT		5.10	Choice	7.36
70		NE05433298	M	OT		5.10	Choice	4.35
26		NE05433369	M	OT		5.05	Choice	5.70
28		NE05433301	M	OT		5.05	Choice	5.08
45		NE05433373	M	OT		5.05	Choice	5.17
67		NE05433347	M	OT		5.00	Choice	5.18
88		NE05433340	M	OT		5.00	Choice	3.96
46		NE05433344	M	OT		4.95	Choice	4.98
53		NE05433302	M	OT		4.90	Tested	6.71
69		NE05433303	M	OT		4.90	Tested	6.09
17		NE05433322	M	OT		4.85	Tested	7.04
18		NE05433354	M	OT		4.85	Tested	5.89
16		NE05433295	M	OT		4.80	Tested	5.17
85		NE05433299	M	OT		4.80	Tested	5.16
10		NE05433379	M	OT		4.75	Tested	5.68
32		NE05433284	M	OT		4.65	Tested	4.39
89		NE05433394	M	OT		4.30	Tested	5.14
52		NE05433382	M	OT		4.15	Tested	3.25
20		NE05433325	M	OT		4.05	Tested	7.05

Definitions	
<b>Igenity Terminal Index</b>	Index designed to rank cattle according to their genetic potential for terminal traits. Higher ITI values indicate animals with increased grid potential. Weightings: HCW 45%, REA 10%, MARB 15%, TEND 5%, FAT -10%, RFI -10%, CED 5%.
<b>Igenity Branded Tier</b>	Cattle can be grouped according to their genetic potential in order to obtain market premiums. Elite: Rank in the top 25% of cattle for terminal traits Premier: Rank in the top 50% for terminal traits Choice: Cattle do not rank in the top 50% for terminal traits
<b>Igenity DOF Index</b>	Index designed to rank cattle according to their genetic potential for gain and fattening. Higher DOF index values indicate animals with increased gain potential, who fatten at lower weights, resulting in fewer estimated DOF. Combine this index with animal enrollment weights to assist in grouping cattle in a feedlot setting according to their optimal DOF.
<b>Envigor Score</b>	A measure of heterosis in a crossbred animal. Higher value is an indication of increased hybrid vigor, thus increased longevity, and less susceptibility to health events.

## SORT, MANAGE AND MARKET YOUR CATTLE

- Rank and manage feeder cattle based on genetic potential
- Market superior feeder cattle for a premium
- Sell/ship load lots of cattle with increased uniformity

## TERMINAL INDEX THAT FOCUSES ON CARCASS PERFORMANCE

- Indexes designed for multi-trait selection
- Pinpoint herd strengths to assist with management
- Easy-to-read 1 to 10 scoring

## IGENITY BRANDED TO HELP MARKET SUPERIOR CATTLE

- Calves with increased genetic potential deserve a premium
- Elite tiered cattle brought an additional \$65/hd in revenue compared to Choice, based on carcass merit

## DAYS ON FEED INDEX TO HELP SORT CATTLE INTO UNIFORM PENS

- Combine with enrollment weight to assist in grouping cattle according to their optimal days on feed
- Create uniform pens of cattle to ensure optimum profitability

# WHAT IS IGENITY BRANDED?

Igenity Branded is a program geared towards providing you with more marketing opportunities for Igenity tested cattle. Whether selling or buying, know that Igenity tested cattle have been selected with confidence.

## For The Seller

To qualify, test at least 35% of calf crop to qualify heifers and/or steers. Then, certify lots of cattle based on Igenity results to market cattle based on genomic merit through Igenity Terminal.

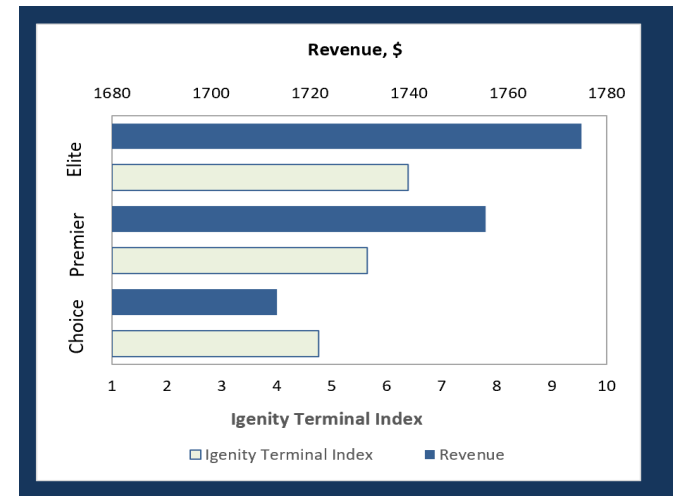
## For The Buyer

Simply look for these represented by an Igenity Terminal logo within sale books, web, and television to ensure the identification of genetically superior calves and bid with confidence.

In a set of 4,200 feeder cattle tested on Igenity Feeder, cattle that qualified as Elite earned \$20 more, per head, than those qualified as Premier and \$62 more than those qualified as Choice. All these calves were managed the same - imagine the additional revenue if cattle had been managed according to their genetic potential to grade?

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Average revenue generated per animal based on Igenity Branded Program tier



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# Days on Feed Index Table

While the Igenity Terminal Index helps to inform how cattle will perform on a grid, the Igenity Days on Feed (DOF) Index takes genomic insight just one step further. Using information on how cattle grow and deposit weight and fat, the Igenity DOF index can help feedlot operators better estimate the number of days to feed a group of cattle for optimum profitability. Simply find the approximate enrollment weight (rows) and DOF index (columns) for an individual animal. Then, locate their intersection for the estimated optimal DOF based on the individuals genetic potential and market assumptions provided below.

For example, a steer with an enrollment weight of 647 lbs and Igenity DOF index of 7.2 would reach peak body composition and weight at approximately 187 DOF.

Enrollment Weight (lbs)	Days on Feed Index: Optimal Days on Feed																		
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
500	395	381	367	353	338	324	309	295	280	266	251	237	223	209	194	180	165	151	136
550	375	362	348	335	321	308	294	281	267	254	240	227	213	200	186	173	159	146	132
600	354	342	329	317	304	291	278	266	253	241	228	216	203	191	178	165	152	140	127
650	333	322	310	298	286	275	263	252	240	228	216	205	193	181	169	158	146	135	123
700	312	302	291	280	269	259	248	237	226	215	204	194	183	172	161	151	140	129	118
750	292	282	272	262	252	242	232	223	213	203	193	183	173	163	153	143	133	123	113
800	271	262	253	244	235	226	217	208	199	190	181	172	163	154	145	136	127	118	109
850	250	242	234	226	218	210	202	194	185	177	169	161	153	145	137	129	121	113	104
900	229	222	215	208	201	194	186	179	172	165	157	150	143	136	129	122	114	107	100
950	209	203	196	190	184	178	171	165	158	152	146	140	133	127	120	114	108	102	95
1000	188	183	177	172	166	161	156	151	145	140	134	129	123	118	112	107	102	97	91

## Revenue and Cost Assumptions

Below are the basic revenue and cost assumptions that were included in the model used to estimate the DOF tables above. These are merely industry average values that are subject to change at any time. For questions on the use of these data, or if interested in customized predictions for your own operation, please contact your NEOGEN Territory Manager or call 1-877-IGENITY.

### Grid Assumptions

USDA Quality Grade	USDA Yield Grade				
	1	2	3	4	5
Prime	15.36	13.25	11.57	-0.79	-6.36
High Choice	8.42	6.31	4.63	-7.73	-13.30
Choice	3.79	1.68	Base	-12.36	-17.93
Select	-11.13	-13.24	-14.92	-27.28	-32.85
Standard	-23.68	-25.79	-27.47	-39.83	-45.40
Base Price/CWT: \$179.12					
400-500 lb	-30.71		900-1000 lb		-1.00
500-550 lb	-23.47		1000-1050 lb		-7.67
550-600 lb	-11.80		Over 1050 lb		-16.00

### Cost Assumptions

Daily Yardage Fee	0.45	
Cost Per Ton of Dry Matter	200.00	
Maintenance: 2.2 Mcal/kg NE		
Gain: 1.4 Mcal/kg NE		
Animal Purchase Cost/CWT	Heifer	Steer
< 600 lb	144.00	161.00
600 -700 lb	133.00	138.00
700 -800 lb	111.00	125.00
800 -900 lb	101.00	115.00
>900 lb	99.00	113.00