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Genomics Customer ID: 28082
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# Igenity® – Confident Selection

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## Detailed Report

| *Animal Information* | | | | *Decision Indexes* | | *Maternal* | | | | | | | *Growth* | | | | Carcass | | | | | *Screening* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Animal ID Number | Sample Barcode Number | Gender (M/F) | Breed | Igenity Production Index | Igenity Maternal Index | BW | CED | CEM | HPR | Milk | STAY | Doc | WW | ADG | YW | RFI | Marb | REA | Fat | Tend | HCW | HP | CC | BVD PI |
| F500 | 42816131833 | | | 7.70 | 6.15 | 4 | 7 | 8 | 7 | 7 | 7 | 5 | 8 | 9 | 9 | 6 | 10 | 6 | 6 | 7 | 8 | | | |
| F505 | 42816131863 | | | 7.65 | 5.95 | 4 | 7 | 6 | 9 | 7 | 7 | 6 | 8 | 10 | 9 | 8 | 10 | 5 | 6 | 10 | 8 | | | |
| F047 | 42816131892 | | | 7.50 | 6.30 | 4 | 8 | 9 | 8 | 9 | 7 | 7 | 9 | 10 | 10 | 7 | 10 | 7 | 7 | 4 | 7 | | | |
| 509F | 42816131884 | | | 7.50 | 6.25 | 3 | 7 | 6 | 8 | 6 | 8 | 6 | 8 | 10 | 9 | 7 | 9 | 7 | 10 | 6 | 7 | | | |
| F532 | 42816131882 | | | 7.40 | 6.20 | 4 | 7 | 5 | 9 | 5 | 7 | 6 | 8 | 8 | 8 | 7 | 10 | 7 | 10 | 10 | 7 | | | |
| 520F | 42816131865 | | | 7.35 | 6.55 | 7 | 6 | 6 | 9 | 5 | 8 | 7 | 9 | 9 | 10 | 5 | 7 | 7 | 6 | 7 | 10 | | | |
| 538F | 42816131895 | | | 7.35 | 6.50 | 4 | 7 | 5 | 8 | 9 | 8 | 5 | 8 | 8 | 8 | 6 | 9 | 6 | 9 | 7 | 8 | | | |
| 502F | 42816131819 | | | 7.30 | 6.10 | 3 | 8 | 6 | 7 | 7 | 7 | 7 | 8 | 9 | 8 | 8 | 10 | 6 | 9 | 8 | 6 | | | |
| 508F | 42816131864 | | | 7.30 | 6.10 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 6 | 5 | 10 | 7 | | | |
| F526 | 42816131888 | | | 7.30 | 5.65 | 4 | 7 | 6 | 7 | 7 | 7 | 7 | 8 | 9 | 10 | 8 | 10 | 6 | 9 | 8 | 8 | | | |
| 535F | 42816131878 | | | 7.20 | 6.70 | 6 | 6 | 5 | 9 | 6 | 8 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 8 | 6 | | | |
| 533F | 42816131822 | | | 7.15 | 6.70 | 7 | 5 | 7 | 8 | 8 | 8 | 8 | 9 | 7 | 9 | 5 | 6 | 10 | 3 | 9 | 9 | | | |
| 516F | 42816131898 | | | 7.15 | 6.15 | 4 | 7 | 9 | 8 | 8 | 7 | 8 | 8 | 9 | 9 | 7 | 9 | 6 | 7 | 4 | 7 | | | |
| 523F | 42816131824 | | | 7.00 | 6.55 | 6 | 7 | 10 | 8 | 6 | 8 | 7 | 6 | 5 | 6 | 6 | 8 | 6 | 5 | 5 | 7 | | | |
| 530F | 42816131861 | | | 7.00 | 6.35 | 7 | 6 | 6 | 8 | 5 | 7 | 7 | 9 | 9 | 9 | 6 | 7 | 7 | 6 | 8 | 10 | | | |
| F512 | 42816131849 | | | 7.00 | 6.05 | 7 | 5 | 5 | 8 | 8 | 7 | 5 | 9 | 9 | 10 | 6 | 8 | 6 | 8 | 7 | 8 | | | |
| 503F | 42816131879 | | | 6.75 | 5.85 | 5 | 7 | 8 | 8 | 5 | 6 | 5 | 8 | 9 | 9 | 7 | 8 | 6 | 8 | 6 | 7 | | | |
| 522F | 42816131852 | | | 6.70 | 5.80 | 5 | 6 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 6 | 5 | 5 | 9 | 6 | | | |
| 521F | 42816131853 | | | 6.60 | 6.85 | 4 | 6 | 7 | 7 | 5 | 9 | 6 | 7 | 5 | 6 | 6 | 6 | 7 | 4 | 5 | 6 | | | |
| 528F | 42816131885 | | | 6.55 | 6.10 | 6 | 6 | 7 | 8 | 7 | 7 | 7 | 8 | 8 | 9 | 6 | 7 | 6 | 6 | 4 | 7 | | | |
| 517F | 42816131880 | | | 6.55 | 6.05 | 4 | 8 | 5 | 9 | 7 | 7 | 7 | 8 | 7 | 8 | 9 | 9 | 7 | 7 | 8 | 7 | | | |
| 510F | 42816131850 | | | 6.50 | 5.90 | 4 | 6 | 6 | 8 | 7 | 6 | 6 | 7 | 7 | 8 | 4 | 8 | 6 | 8 | 4 | 8 | | | |

# Detailed Report

| *Animal Information* | | | | *Decision Indexes* | | *Maternal* | | | | | | | *Growth* | | | | Carcass | | | | | *Screening* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Animal ID Number** | **Sample Barcode Number** | **Gender (M/F)** | **Breed** | **Igenity Production Index** | **Igenity Maternal Index** | **BW** | **CED** | **CEM** | **HPR** | **Milk** | **STAY** | **Doc** | **WW** | **ADG** | **YW** | **RFI** | **Marb** | **REA** | **Fat** | **Tend** | **HCW** | **HP** | **CC** | **BVD PI** |
| F514 | 42816131846 | | | 6.45 | 5.40 | 5 | 6 | 5 | 7 | 7 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 5 | 7 | 9 | 7 | | | |
| 511F | 42816131875 | | | 6.35 | 6.10 | 5 | 6 | 7 | 6 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 8 | 5 | 7 | 6 | | | |
| 529F | 42816131897 | | | 6.35 | 5.90 | 5 | 8 | 7 | 9 | 8 | 6 | 6 | 7 | 8 | 8 | 6 | 6 | 7 | 5 | 7 | 7 | | | |
| 504F | 42816131836 | | | 6.25 | 5.30 | 7 | 4 | 5 | 7 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 6 | 6 | 7 | 8 | | | |
| 531F | 42816131886 | | | 6.15 | 5.85 | 5 | 6 | 8 | 8 | 6 | 5 | 6 | 8 | 8 | 8 | 6 | 7 | 6 | 6 | 5 | 7 | | | |
| 518F | 42816131890 | | | 6.15 | 5.60 | 4 | 8 | 5 | 5 | 5 | 6 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 6 | | | |
| 513F | 42816131808 | | | 6.10 | 5.65 | 5 | 5 | 5 | 8 | 5 | 7 | 6 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 8 | 6 | | | |
| 501F | 42816131847 | | | 6.10 | 5.60 | 5 | 6 | 7 | 7 | 4 | 6 | 5 | 5 | 6 | 6 | 5 | 7 | 5 | 6 | 4 | 6 | | | |
| 519F | 42816131811 | | | 6.00 | 5.75 | 6 | 6 | 5 | 9 | 5 | 5 | 8 | 9 | 8 | 9 | 7 | 9 | 6 | 6 | 4 | 9 | | | |
| 527F | 42816131889 | | | 6.00 | 5.75 | 7 | 5 | 3 | 9 | 5 | 6 | 8 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 5 | | | |
| 534F | 42816131873 | | | 5.90 | 6.10 | 6 | 6 | 6 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 9 | 4 | 4 | 8 | | | |
| F515 | 42816131896 | | | 5.90 | 5.35 | 5 | 5 | 5 | 9 | 7 | 6 | 7 | 6 | 7 | 7 | 8 | 7 | 5 | 9 | 7 | 6 | | | |
| 524F | 42816131891 | | | 5.80 | 6.05 | 6 | 6 | 7 | 9 | 6 | 5 | 6 | 8 | 7 | 7 | 6 | 7 | 5 | 9 | 4 | 6 | | | |
| 506F | 42816131867 | | | 5.45 | 5.60 | 5 | 7 | 6 | 8 | 4 | 5 | 8 | 8 | 8 | 8 | 8 | 6 | 7 | 5 | 5 | 8 | | | |
| 507F | 42816131876 | | | 4.75 | 5.10 | 8 | 4 | 4 | 7 | 5 | 5 | 5 | 6 | 6 | 7 | 6 | 3 | 6 | 3 | 6 | 7 | | | |

| Definition | | | |
|---|---|---|---|
| **Igenity Production Index (IPI)** | The Igenity Production Index is well balanced for maternal, production and carcass progeny traits. It is designed for producers who raise their own heifers and want broad improvement across multiple traits. Weightings: Stay 30%; CEM 10%; ADG 15%; RFI -15%; Marb 20%; Tend 10%. | **Yearling Weight (YW)** | Difference in average 365-day weight. The higher the number, the greater the yearling weight. |
| **Igenity Maternal Index (IMI)** | This index is highly maternal and designed to select replacement heifers for fertility, longevity, moderate cow size and higher weaned calf weight. It is a tool developed for producers who sell calves at weaning or after a short backgrounding period. Trait Weightings: CED 5%, CEM 5%, HPG 5%, Stay 25%, WW 30%, -20% YW, -10% RFI. | **Residual Feed Intake (RFI)** | This is an indicator of feed efficiency. It is the difference in animals' daily consumption of feed to achieve the same level of daily gain. Lower RFI indicates greater feed efficiency. |
| **IPI Quartile Ranking** | This ranking uses Igenity Production Index scores to sort quartiles (4-star down to 1 star) so it is easy to keep the 3-star and 4-star heifers. | **Marbling (Marb)** | USDA marbling score at a similar end-point. The higher the marbling, the higher the USDA quality grade. |
| **Birth Weight (BW)** | Higher score is higher birthweight potential. Heavy calves can cause calving difficulty but also have more growth potential. (CED or CEM in selection indexes are preferred over BW alone.) | **Ribeye Area (REA)** | Ribeye area as measured on a carcass. REA estimates muscling in a beef carcass in square inches of ribeye at the 12th rib. Larger REA progeny have more muscle and higher percentage of retail product. |
| **Calving Ease Direct (CED)** | Greater probability a calf will be born unassisted out of a first-calf heifer, including birth weight and shape of the calf. A higher value is greater calving ease. | **Fat** | Backfat as measured on a carcass. Fat thickness is scored as depth of fat in inches over the ribeye muscle at the 12th rib. Higher fat thickness scores equate to lower lean yield. |
| **Calving Ease Maternal (CEM)** | Includes all genetic factors that impact a first-calf heifer's ability to calve unassisted, such as pelvic area and her genetics for birth weight. Higher value is more calving ease. | **Tenderness (Tend)** | Genetic potential for beef tenderness (Warner-Bratzler Shear Force). A higher 1-10 score is more tender. |
| **Heifer Pregnancy Rate (HPR)** | A heifer's potential to conceive during breeding season, relative to other heifers. A higher value is desired. | **Hot Carcass Weight (HCW)** | Unchilled weight of a beef carcass. The higher the HCW, the greater the dressing percentage. |
| **Milk** | Pounds of calf weaning weight due to dam's milk production. Optimize "milk" to the forage environment. | **Horned Polled (HP)** | Polled is a dominant trait. (Results do not reveal the presence or absence of scurs.)<br>HH - Homozygous Horned<br>HP Heterozygous Horned/Polled<br>PP Homozygous Polled. |
| **Stayability (STAY)** | The chance a heifer will remain in the herd as a productive cow until at least six years of age. A higher value is desired. | **Coat Color (CC)** | Coat color genes determine red or black coat. Black is the dominant trait. Results are reported as:<br>**Yes= Homozygous Black –** all progeny will be black when mated to recessive red carrier animals.<br>**No= Not Homozygous black** – ½ progeny will be black and ½ will be red when mated to recessive red carrier animals. |
| **Docility (Doc)** | Genetic potential to be calm or have calm offspring. Higher scores indicate a higher probability acceptable disposition. | **BVD PI** | Negative animals are free of the BVD virus. Positive animals are likely persistently infected. (Discuss positive test confirmation with Neogen veterinary diagnostics.) |
| **Weaning Weight (WW)** | Difference in average 205-day weight. The higher the number, the greater the weaning weight of calves. | **SeekSire parentage** | SeekSire uses gene markers for *Bos taurus* and *Bos indicus* parentage validation. It is designed for multi-sire parentage verification when bull battery DNA is on file at Neogen. |
| **Average Daily Gain (ADG)** | Based on pounds of gain per day. The Igenity score for Average Daily Gain (ADG) identifies genetic potential for post-weaning growth. | **Custom Indexes** | If you wish to create your own index criteria to compare or sort cattle, go to your online Igenity Beef Dashboard account and use the custom indexing tools. Visit www.igenitybeefdashboard.com. |

**SELECT, MANAGE AND MARKET YOUR CATTLE**

- Select replacement heifers that move you ahead on your fertility, production and quality goals
- Use DNA scores to manage breeding and production potential
- Leverage data in calf marketing, bred heifer sales or retained-ownership decisions

**MATERNAL, PERFORMANCE AND CARCASS TRAITS**

- Pinpoint herd strengths and improvement areas
- Easy-to-read 1 to 10 scoring
- Predict traits heifers will pass on to their offspring

**INDEXES FOR SELECTION DECISIONS**

- Designed for multi-trait selection
- Emphasize balanced, maternal or beef system qualities
- Online tools to build your own index