

# IGENITY<sup>®</sup> Results Key

*for beef*

**Using the power of DNA, IGENITY helps you understand and manage the potential for animals to perform and transmit traits of economic importance. The comprehensive profile includes:**

## **Carcass Composition**

The IGENITY profile scores for Yield Grade, Ribeye Area, and Backfat Thickness are calculated using multiple DNA markers that reflect the animal's genetic potential for these traits. For example, animals with an IGENITY profile score of 10 for Ribeye Area will have a 2.56 in<sup>2</sup> larger ribeye than animals which score a one. Ribeye Area is scored in square inches, Backfat in inches, and Yield Grade in Yield Grade scores (1-5). These IGENITY results provide a more complete picture of the Carcass Composition potential for an animal.

## **Carcass Quality**

The IGENITY profile scores for Quality Grade and Marbling reflect extremely powerful multiple marker analyses which are indicative of an animal's potential for intramuscular fat deposition and Choice or better Quality Grade carcasses. The IGENITY profile score for Marbling Scores translate to the 100 to 999 scale, where 400 represents low Choice. Marbling score is particularly useful in deciding between animals with similar marbling EPDs or ultrasound data. The IGENITY profile for Quality Grade reflects the percent Choice or higher – so 64.4% more animals with an IGENITY Quality Grade score of 10 will grade Choice or higher than animals with a score of 1.

The IGENITY profile score for Tenderness score represents animals' genetic potential for tenderness as measured by the Warner Bratzler shear force test, with 10 being the most tender and 1 the least tender.

## **Maternal and Reproductive Traits**

Reproduction is arguably the most economically important trait for Cow/Calf producers.<sup>1</sup> Heifer Pregnancy Rate is a heifer's chance at becoming pregnant over a normal breeding season, relative to other heifers. Stayability is the chance a heifer will remain in the herd until at least six years old, relative to other animals. Maternal Calving Ease is measured as the percentage of unassisted births – a higher value is greater calving ease. These IGENITY profiles can be used to make replacement heifer decisions as well as be used to select future maternal sires.



## **Using the 1 to 10**

The values listed in the chart on the back reflect the relative difference expected in animals compared to contemporaries with an IGENITY profile score of 1. Higher scores are not necessarily better – it just means that the animal has the potential for more of that trait. For the most informed decisions use IGENITY profiles in conjunction with other selection and management tools like conformation and EPDs. Select the scores which are best for your animals and your operation.

