Pfizer Animal Health
Animal Genetics

AGI
Angus Genetics, Inc.

Nothing is more dependable for predicting genetic potential.

GE-EPDs powered by HD 50K.

Angus breeders and their customers now have access to genomic-enhanced expected progeny differences (GE-EPDs), powered by the High-Density 50K (HD 50K) platform.

- Combines the industry-leading American Angus Association National Cattle Evaluation EPDs with the industry's first and only 54,000-marker panel
- Nothing delivers greater dependability to help predict the genetic merit of young, unproven Angus cattle, and enhance the scope of selection for relatively proven animals for difficult, time-consuming and hard-to-measure traits

Angus EPDs: The industry's largest, most frequent and only genomic-enhanced genetic evaluation	• Combines pedigree information, performance data from the animal, its relatives and progeny, and HD 50K genomic information • A single EPD value for each trait enables simple, dependable comparisons of genetic merit between Black Angus animals • Includes accuracy values that range from zero to one – Higher accuracy values mean the EPD has greater reliability and less potential to change as additional progeny data accumulates
HD 50K: The industry's first and only commercially adapted high-density marker platform	• More than 54,000 DNA markers • 18 economically important traits • Results reported as percentile ranks associated with molecular breeding values, benchmarked against more than 5,000 HD 50K-tested Black Angus animals and reported to the nearest 1 percent
Together, more dependable predictions for more profitable decisions	• HD 50K information, when combined with Angus EPDs, provide the most accurate and complete picture of the animal's genetic potential • Enhances selection, mating and marketing decisions to accelerate genetic progress

Powerful information to help accelerate genetic improvement.

Sire prospects and herd sires

With GE-EPDs powered by HD 50K, you can more dependably identify:

- Sires to use extensively, strategically or sparingly, based on your breeding objectives
- Genetically superior young sires to accelerate genetic improvement
- Calving-ease sires for use on replacement heifers
- Sires more likely to produce more productive replacement females
- Sires that excel in feedlot growth, efficiency and carcass merit

Replacement heifers and donor prospects

GE-EPDs powered by HD 50K enable:

- More accurate and complete evaluation of genetic strengths and weaknesses in females at an earlier age, for a lifetime of wiser mating decisions
- Prediction of genetic merit in females with reliabilities equivalent to more than a lifetime of natural calf production
- Reduced risk associated with embryo transfer (ET) production through more informed donor selection

ET progeny

The addition of HD 50K data to EPDs helps you:

- Determine differences in genetic merit among ET full siblings at a young age and independent of recipient dam effects
- Make more informed selection, mating and marketing decisions about ET calves

See how more comprehensive genetic information can work for you.

- All samples must be sent to Angus Genetics, Inc. (AGI)
- Samples should be submitted on blood cards
- Results reported as GE-EPDs, associated accuracies and HD 50K percentile ranks
- Complete information and order forms are available at www.pfizeranimalgenetics.com and www.angus.org

HD 50K

Traits with HD 50K genomic predictions

- Production
  - Calving ease direct
  - Birth weight
  - Weaning weight
  - Yearling weight
  - Yearling height
  - Mature weight
  - Mature height
  - Dry matter intake
  - Residual feed intake
  - Scrotal circumference
  - Docility
- Maternal
  - Calving ease maternal
  - Milking ability
- Carcass
  - Carcass weight
  - Fat thickness
  - Ribeye area
  - Marbling score
  - Tenderness

To learn more, contact your Pfizer Animal Genetics or American Angus Association representative, or visit www.pfizeranimalgenetics.com or www.angus.org.

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