



GE-EPDs and Genetic Selection



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Angus Genetics Inc.

New in 2014

GENEMAX ADVANTAGE



AGI

GeneMax Product Line



•Basic Gain and Grade product
•SireMatch feature included
•\$17/test




•Comprehensive heifer selection product
•SireMatch feature included
•\$44/test

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GeneMax Tests

- Intended Use:
 - By commercial cattlemen
 - On high percentage Angus (75% and up) cattle
- Built from a base of Zoetis HD50K Calibration
- Optional Sire Match
- Testing and results delivery is a collaboration between AGI and Zoetis

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GMX™ Focus Results

Tag	Sex	Assn Num	GMX™ Score	GMX™ Marbling	GMX™ Gain	Most Likely Sire	
						Tag	Reg. Num.
1281	C	BIR 622055017	99	4	5	2417	AAA 16004857
X908	C	BIR 622055018	97	5	5		
X838	C	BIR 622055018	97	4	5	67S	AAA 15705880
046Y	C	BIR 622055013	96	4	5	10277	AAA 15656868
054Y	C	BIR 622055014	95	4	5	5050	AAA 13728513
003Y	C	BIR 622055012	82	5	2		
1007C	C	BIR 622055016	79	3	4	454	AAA 14675445
067Y	C	BIR 622055015	63	1	5	2417	AAA 16004857

GMX™ Score	Description
99	Top 1%
75	Top 25%
50	Average
25	Top 75%
1	Top 99%


GMX™ Marbling and Gain	Description
5	Top 20%
4	61-80%
3	Middle 20%
2	21-40%
1	Bottom 20%

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GeneMax Advantage

Product Features

- DNA test for a multitude of traits affecting profitability in commercial females.
- Test features
 - Three economic indexes (pre-weaning, post-weaning and combined)
 - Outlier identification for selected traits of importance.
- Selection, Marketing & Decision tool
 - Commercial replacement heifers

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GeneMax Advantage

Product Features

- Three index scores are based on components of production that contribute to profit.

Total Advantage	• A system-level evaluation of total genetic contribution from conception to CAB® carcass
Cow Advantage	• Evaluates the maternal value from conception to weaned calf
Feeder Advantage	• Evaluates the contribution to post-weaning performance of future progeny through the feedyard and to the rail

GMX™ Cow Advantage

Number of Calves (Heifer pregnancy, calving ease)	66%
Weight of Calves (Weaning wt, milk)	21%
Cost of Production (Mature size, milk)	13%

GMX™ Feeder Advantage

Growth & Efficiency (Yearling wt, feed intake)	61%
Carcass Merit (Carcass wt, marbling, ribeye, fat)	39%

GMX™ Total Advantage

Reproduction & Maternal (Heifer pregnancy, calving ease, milk)	39%
Performance (Weaning wt, yearling wt, feed intake)	40%
Carcass (Carcass wt, marbling, ribeye, fat)	21%

GMX™ Advantage

SMART Outlier Report

- Enables additional selection or mating decisions for specific management situations
- Selection Flags
 - Bottom 5% rank for **Cow Cost**
 - Bottom 5% rank for **Docility**
 - Top and Bottom 25% rank for **Marbling**
 - Bottom 5% rank for **Tenderness**

ANGUS

THE BUSINESS BREED