

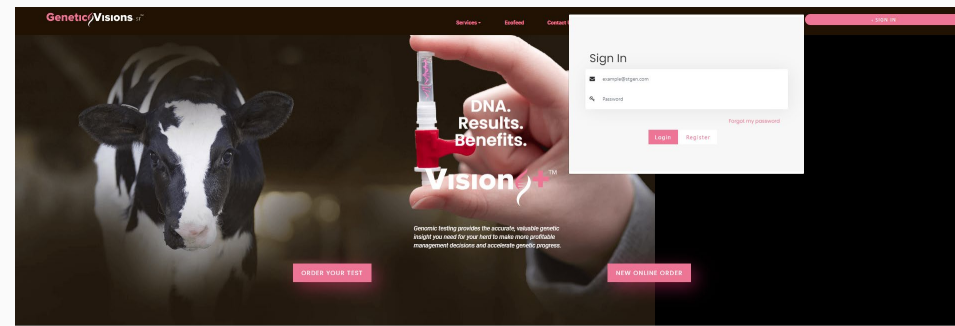


**Josey Morris**

Ayrshire Breeders' Association  
March 2023

- **How to genomic test with Genetic Visions -ST**
- **Vision75 Product Overview – what's all included**
- **Results**
- **Help and resources**

# Getting started



#### Why Genetic Test?

Genetic testing brings a better view of your herd's potential, with 40% more reliability than parent average and with EcoFeedB scores. View beyond the surface with Vision™. Be certain in your test decisions.

#### Opportunity, accuracy and profitability

Have a complete insight into your herd's genetic potential, increasing economic value while adjusting for inbreeding depression.



- Contact your local STgenetics representative or Genetic Services Specialist for assistance!
  - Mena Schmitt – [mena.schmitt@stgen.com](mailto:mena.schmitt@stgen.com) – 608-772-9830
  - Erica Irrthum – [erica.irrthum@stgen.com](mailto:erica.irrthum@stgen.com) – 920-946-0824
  - Josey Morris – [jmorris@stgen.com](mailto:jmorris@stgen.com) – 920-253-8155
  - If you do not have an account with STgenetics or Genetic Visions:
    - Create an Account, please go to [www.geneticvisions.com](http://www.geneticvisions.com) (SIGN IN)

**75**  
Vision+

RESOURCES

Genomic Values are provided by CDCB

\*Vision+75™ for Ayrshire includes:

|        |                      |    |
|--------|----------------------|----|
| CDCB** | Production           | 6  |
|        | Health and Longevity | 22 |
|        | Conformation         | 21 |
|        | Selection Indices    | 5  |

Milk Markers:

Kappa Casein    Beta Casein A2  
Beta Casein AB    Beta Lactoglobulin

Markers Package\*\*\*

19 included

Chromosomal  
**Mating**

Parentage Discovery

Arthrogryposis Multiplex (AM)\*\*\*\*

\*Vision+75™ is STgenetics® complete genomic testing package. The number of traits included varies for each breed.  
\*\*CDCB: Council on Dairy Cattle Breeding.  
\*\*\*All standard marker results (19) will be included with your genomic results.  
\*\*\*\*AM results included with Vision+75™ when tested through U.S. Ayrshire Breeders' Association

- Your Vision75 genomic test includes:
  - CDCB production, health and conformation traits and selection indices
  - Official parentage – when parents have been genotyped and are known to CDCB
  - \*AM at no additional charge
  - Standard markers package
  - Ayrshire specific markers AH1 and AH2 are included

# Results



- Returned in ~ 30 days once samples are received at Genetic Visions-ST
  - Conflicts on registered animals must be resolved by ABA in order to receive results
  - Conflicts and results emailed to you by your Genetic Services Specialist
  - Direct access via your dashboard at [geneticvisions.com](https://geneticvisions.com)
  - CDCB automatically sends your results to the breed association
  - AM results are additionally sent to the breed association from GVI

# Results

Animal ID: AY840003223039519 On-Farm ID: 1011

Born 20200913

Sire: AYCANA000110687717 Dam: AY840003148266441

| LINEAR                | gPTA  |         | -2 | -1 | 0 | 1 | 2 |          |
|-----------------------|-------|---------|----|----|---|---|---|----------|
| Stature               | 0.50  | Short   |    |    |   |   |   | Tall     |
| Strength              | 0.60  | Frail   |    |    |   |   |   | Strong   |
| Body Depth            | 0.10  | Shallow |    |    |   |   |   | Deep     |
| Dairy Form            | -0.10 | Tight   |    |    |   |   |   | Open Rib |
| Rump Angle            | -0.30 | High    |    |    |   |   |   | Sloped   |
| Thurl Width           | -0.70 | Narrow  |    |    |   |   |   | Wide     |
| Rear Legs (Side View) | 0.30  | Posty   |    |    |   |   |   | Sickle   |
| Foot Angle            | 0.00  | Low     |    |    |   |   |   | Steep    |
| Fore Udder Attachment | 0.20  | Loose   |    |    |   |   |   | Strong   |
| Rear Udder Height     | -0.30 | Low     |    |    |   |   |   | High     |
| Rear Udder Width      | -0.10 | Narrow  |    |    |   |   |   | Wide     |
| Udder Cleft           | 0.10  | Weak    |    |    |   |   |   | Strong   |
| Udder Depth           | 0.10  | Deep    |    |    |   |   |   | Shallow  |
| Front Teat Placement  | -0.30 | Wide    |    |    |   |   |   | Close    |
| Teat Length           | 1.30  | Short   |    |    |   |   |   | Long     |

| LEADER INDEXES                  | gPTA       | %Rel      |
|---------------------------------|------------|-----------|
| <b>PTI</b>                      | <b>541</b> |           |
| <b>Net Merit (\$)</b>           | <b>498</b> | <b>33</b> |
| <b>Ecofeed<sup>heifer</sup></b> |            |           |
| <b>Ecofeed<sup>cow</sup></b>    |            |           |

| PRODUCTION         | gPTA | %Rel |
|--------------------|------|------|
| Cheese Merit (\$)  | 510  |      |
| Fluid Merit (\$)   | 405  |      |
| Grazing Merit (\$) | 476  |      |
| Milk (lb)          | 923  | 34   |
| Fat (lb)           | 52   | 34   |
| Fat (%)            | 0.07 | 34   |
| Protein (lb)       | 47   | 35   |
| Protein (%)        | 0.09 | 35   |

| HEALTH                        | gPTA | %Rel |
|-------------------------------|------|------|
| Daughter Pregnancy Rate (DPR) | -0.3 | 28   |
| Heifer Conception Rate        | 1.7  | 27   |
| Cow Conception Rate           | -0.2 | 28   |
| Livability                    | 0.9  | 25   |
| Gestation Length              | 0.0  | 34   |
| Productive Life               | 1.7  | 29   |
| Somatic Cell Score            | 2.94 | 30   |

| Calving | gPTA | %Rel |
|---------|------|------|
|---------|------|------|

### CDCB Haplotypes

AH1: 1  
AH2: 0  
AHC: 0

| INDEXES         | gPTA | %Rel |
|-----------------|------|------|
| PTAT            | 0.30 | 31   |
| UDC             |      |      |
| FLC             |      |      |
| BWC             |      |      |
| Fertility Index |      |      |

### Marker Test Results\_GV

#### Milk Proteins\_GV

|                  |        |
|------------------|--------|
| BCN A2           | NoCall |
| BLG              | BB     |
| BCN AB           | AA     |
| KCN AB           | AA     |
| KCN AE           | AE     |
| KCN Haplotype AE |        |

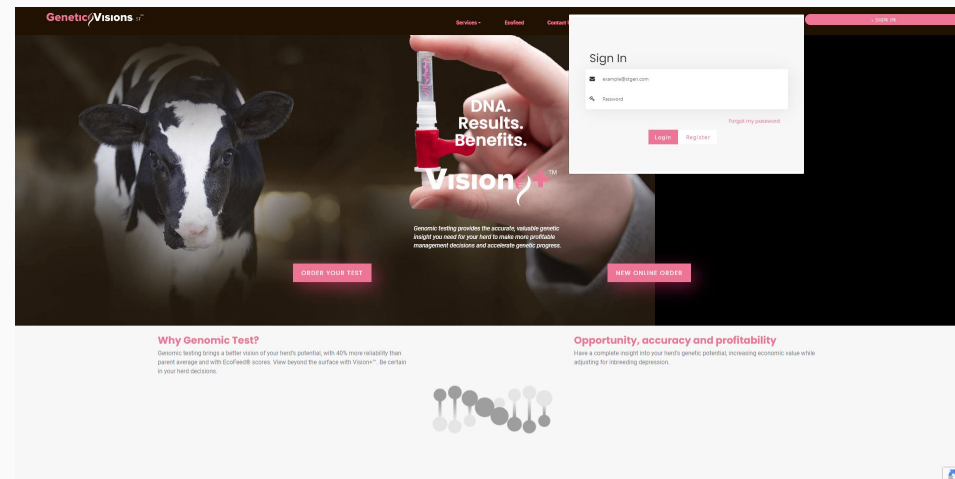
#### Genetic Abnormalities\_GV

|               |    |                |         |      |   |
|---------------|----|----------------|---------|------|---|
| BLAD          | TL | AH1            | Carrier | HH3  | N |
| Brachyspina   | TY | AH2            | -       | HH4  | N |
| Citrullinemia | TN | BH2            | N       | *HH5 | N |
| CVM           | TV | CWC15/JH1      | N       | HH6  | N |
| DUMPS         | TD | FishyOffFlavor | N       | SDM  | N |
| HCD           | TC | HH1            | N       | SMA  | N |

#### Additional Traits\_GV

|              |    |
|--------------|----|
| Red Factor   | -  |
| Dominant Red | dd |
| DGAT         | BB |

# I need help!



- The below Genetic Services Specialists would be pleased to assist you:
  - Mena Schmitt – [mena.schmitt@stgen.com](mailto:mena.schmitt@stgen.com) – 608-772-9830
  - Erica Irrthum – [erica.irrthum@stgen.com](mailto:erica.irrthum@stgen.com) – 920-946-0824
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The best way to predict  
**the future** is to *Create it*

