



There *is* a Difference

NEOGEN[®]



Advanced DNA testing solutions for commercial Angus cattle

The Fastest Way to **Better Results**

Scan to learn more today!



Premium Genomic Testing for Commercial Angus Animals

Neogen is proud to partner with Angus Australia to offer comprehensive and cost-effective genomic solutions tailored specifically for Angus commercial cattle in Australia.

Our suite of genomic tests has been developed in Australia, by Australians, for use in Australian and New Zealand Angus cattle, and includes:

Angus HeiferSELECT

- ✓ A genomic selection tool to help inform the selection of Angus replacement heifers in a commercial beef breeding operation.
- ✓ Includes genetic predictions for 14 traits, 3 selection indexes, sire verification and Angus BreedCHECK.

Angus SteerSELECT

- ✓ A genomic selection tool to assist with the sourcing of steers with suitable genetics when purchasing or selecting steers for inclusion in specific beef supply chains.
- ✓ Includes genetic predictions for 9 traits, 1 selection index, sire verification and Angus BreedCHECK.

Neogen's genomic selection tools are a game changer for commercial beef producers. The genomic tools describe the genetic merit of commercial beef animals for economically relevant traits, assisting beef producers to select animals for use in their breeding program with genetics that are most aligned with their breeding objective, while eliminating low genetic merit animals from commercial beef production systems.



Premium genomic testing
delivered in collaboration with



So why should you test with Neogen?...

Because ‘There *is* a Difference’



1. Australia Based Genotyping Laboratory

Why send your samples offshore for testing when you can utilise a world-class genomic laboratory based right here in Australia?

Neogen's new, \$11 million, state-of-the-art genomics laboratory is located at Ipswich, west of Brisbane in Queensland, and is the largest livestock genomics laboratory in the southern hemisphere.



2. Complete & Cost-Effective Product Range

Neogen offers a comprehensive range of premium genomic solutions, ensuring Angus breeders can find a genomic testing option that suits their individual needs.

Rather than rely on generic genotyping platforms, Neogen's genomic test offering for Angus cattle includes the genomic profiling of animals with Neogen's premium, proprietary genotyping array, Angus GS and our custom Angus uLD.

Neogen also retails sample collection equipment, such as Allflex TSUs and TSU applicators, offering customers a 'one-stop-shop' for all their genomic testing needs.



3. Unparalleled Testing Turnaround Times

Neogen understands that time is money and prides itself on offering the fastest testing turnaround times of any livestock genomics laboratory.

By leveraging the operational strength, size and efficiency of our state-of-the-art genotyping laboratory in Ipswich, Queensland, coupled with utilisation of the latest high-end genomic analysis tools and robotic processing, the vast majority of genomic testing is completed within 3-4 weeks of when samples arrive at the lab.



4. Nationwide Network of Territory Managers

Neogen's genomic solution portfolio is supported by our experienced sales, technical support and customer service teams who are on hand to offer guidance and support every step of the way.

Our national team of genomic territory managers are located geographically across Australia, and are available to provide Neogen customers with day-to-day assistance, either on- farm or remotely, in the design and execution of their genomic testing program.



5. Long Term Partner of Angus Australia

Neogen is proud to be a long term partner of Angus Australia in the delivery of genomic services to the Angus industry in Australia.

Neogen continues to be Angus Australia's genotyping laboratory of choice for research and commercial genotyping services, with all progeny in the Angus Sire Benchmarking Program (ASBP) being genotyped through the Neogen laboratory. At the time of writing, over 12,000 animals have been genotyped as part of the ASBP.

To find out more about the 'Neogen Difference', and how we can help your business grow, contact your local Neogen territory manager today, or visit neogenaustralasia.com.au.



Precision Heifer Selection

Angus HeiferSELECT is a genomic selection tool to help inform the selection of Angus replacement females (87.5% Angus content or greater) in a commercial beef breeding operation.

Angus HeiferSELECT complements other sources of information that may be used in commercial replacement heifer selection, such as phenotypic evaluation, age, weight and pedigree information, and provides valuable insight into the genetic potential of heifers, particularly for traits that are otherwise difficult, time consuming or expensive to measure using traditional methods.

Angus HeiferSELECT has been developed in Australia, by Australians, for use in Australian & New Zealand Angus cattle.

Genetic
predictions for
14 traits

**Total
Breeding
Value**

**Cow-Calf
Value**

**Feedlot-
Carcase Value**

Angus
BreedCHECK

**Sire
Verification**

COW-CALF

Calving Ease

Weaning Weight

Milk

Yearling Weight

**Mature Cow
Weight**

**Heifer
Conception**

RESILIENCE

ImmuneDEX

CARCASE

**Carcase
Weight**

Eye Muscle Area

Rib Fat

MSA Marbling

Ossification

FEEDLOT

**Average
Daily Gain**

Daily Feed Intake

Benefits of Angus HeiferSELECT

Angus HeiferSELECT facilitates precision selection of replacement heifers in a commercial Angus beef breeding enterprise. Use Angus HeiferSELECT to:

• Select replacement heifers

Identify females who possess genetics that are most aligned with your breeding objective, and who are the most suitable to retain as replacement heifers.

• Inform culling decisions

Identify females that are genetically inferior and who are the best choice for culling.

• Understand breed composition

Utilise Angus BreedCHECK information to understand the breed composition of your potential replacement heifers.

• Inform bull purchasing

Utilise results from heifers tested with Angus HeiferSELECT to better understand the genetics in your herd, and identify the priorities for your next bull purchasing decision.

• Understand bull reproductive performance

Use sire information to identify those bulls in your sire team that have produced low numbers of progeny, and remove these bulls from your breeding program.

• Manage inbreeding

Use sire information to avoid inbreeding and the associated depression in performance.

• Market surplus heifers

Utilise results from heifers tested with Angus HeiferSELECT to market surplus heifers.



Feeder Steer Selection & Marketing

Angus SteerSELECT is a genomic selection tool which provides valuable insight into the genetic profile of Angus steers (87.5% Angus content or greater), which can be used to assist with the sourcing of steers with suitable genetics when purchasing or selecting steers for inclusion in specific beef supply chains.

Angus SteerSELECT complements other sources of information that may be used in sorting and marketing of Angus steers, such as age, weight and background vendor information like past feedlot and carcass grading performance.

Angus SteerSELECT is suitable for both Angus steers and heifers entering the beef supply chain. For breeding heifers, Angus HeiferSELECT is more suitable.

Angus SteerSELECT has been developed in Australia, by Australians, for use in Australian and New Zealand Angus cattle and production systems.

Genetic
predictions for
9 traits

**Angus Steer
Value**

Angus
BreedCHECK

Sire
Verification

GROWTH

Yearling Weight

FEEDLOT

**Average
Daily Gain**

Daily Feed Intake

RESILIENCE

ImmuneDEX

CARCASS

**Carcass
Weight**

Eye Muscle Area

Rib Fat

MSA Marbling

Ossification

Benefits of Angus SteerSELECT

Angus SteerSELECT enables more informed decisions across the Angus beef supply chain. Use Angus SteerSELECT to:

• Identify genetic suitability

Identify steers that have the genetic profile suitable for specific Angus beef supply chains (i.e. feedlots or beef brands).

• Direct steers into suitable supply chains

Manage steers according to their genetic profile, such as directing steers with an unsuitable genetic profile into shorter fed programs or other endpoints, rather than a longer fed program.

• Understand breed composition

Utilise Angus BreedCHECK information to understand the breed composition of steers, particularly their Angus breed content.

• Improve feedlot performance and carcass compliance

Selecting steers with a suitable genetic profile increases the proportion of steers that meet feedlot performance targets and carcass specifications, increasing the efficiency of resource use and returns from investment of capital.

• Exploit marketing opportunities

Provide objective data on Angus content and genetic potential for marketing Angus steers into the beef supply chain.

• Inform bull purchasing

Utilise results from steers tested with Angus SteerSELECT to better understand the genetics in your herd, and identify the priorities for your next bull purchasing decision.

The Genomic Testing Process

Genomic testing for Angus commercial cattle, including Angus HeiferSELECT and Angus SteerSELECT, can be ordered directly from Neogen using the process below:

Get Organised

- Contact the relevant Neogen Australasia Territory Manager to identify the genomic testing that best fits the needs of your breeding program.
- Determine when results will be required by, noting that there is a 4-6 week turnaround time from when samples are received.
- Purchase your TSU applicator and TSUs from Neogen Australasia.
- If sire verification is required, ensure that a DNA profile is recorded with Angus Australia for the sires of any steers for which you wish to obtain DNA sire verification. Details of whether a DNA profile is stored for each registered sire can be viewed on the Angus Database Search facility on the Angus Australia website. If a genomic profile has not previously been recorded, you can collect a DNA sample for the sire and request a genomic profile from Angus Australia, providing the bull has been transferred into your ownership on the Angus Australia database.

Collect DNA Samples

- Collect DNA samples from your animals.
- TSUs are the most common form of DNA sample, however tail hairs or semen straws can also be submitted for testing.

Submit Your DNA Order

- Complete an Excel based 'DNA Application Form'. Forms for Angus HeiferSELECT and Angus SteerSELECT are available for download from the Neogen Australasia website.
- Email an electronic copy of the application form to naa-lab@neogen.com
- Print and mail a hard copy of the application form, along with your DNA samples to Neogen Australasia, 14 Hume Drive, Bundamba QLD 4304.

Genotyping & Analysis

- When received at the Neogen lab, genotyping of your samples will be undertaken.
- Once genotyping is completed, the genomic profiles for your animals will be sent to Angus Australia for analysis, and results (e.g. parentage verification, genetic predictions, Angus BreedCHECK) will be returned to Neogen Australasia.

Access results

- Results will be provided to you via email by Neogen Australasia.
- Results are usually available within 4-6 weeks.

To find out how we can help your business grow, contact your local Neogen territory manager today.

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