GENOMIC TEST
Product Information

NEOGEN Australasia

Product Description

The GGP 50K Test is the standard test used by industry to genotype animals.
The test will predict genomic breeding values for the traits listed in Table 1. The genomic information is included in the single-step analysis to generate ASBV's. This test increases the accuracy of ASBV estimates particularly those traits measured later in life (adult wool weight) or hard to measure traits (intramuscular fat or shear force).

Did you know?
Increasing ASBV accuracy increases the rate of genetic gain in your flock.

This multi-purpose test can also be used to undertake Parentage and Poll/Horn analysis. If parentage is required a potential sire/dam list must be provided.

To receive genotypic data from this product for ASBV's you will need to be a member of Sheep Genetics. Genomic results are incorporated in the following breed analysis:
Merino, Poll Dorset, White Suffolk, Border Leicester, Composite Maternal, Coopworth, Corriedale, Dorper, White Dorper, Hampshire Down, Southdown, Suffolk & Texel.
Contact your Consultant or Sheep Genetics for advice on how best to incorporate genomic testing into your breeding program.

Table 1 - Genomic Breeding Values

Trait	Name	Unit	Merinos	Terminals	Maternal
BWT	Birth Weight	kg	Y	Y	Y
WWT	Weaning Weight	kg	Y	Y	Y
PWT	Post Weaning Weight	kg	Y	Y	Y
PEMD	Post Weaning Eye Muscle Depth	mm	Y	Y	Y
PFAT	Post Weaning GR Fat Depth	mm	Y	Y	Y
GFW	Greasy Fleece Weight	%	Y		
FD	Fibre Diameter	µ	Y		
FDCV	Fibre Diameter CV%	%	Y		
SL	Staple Length	mm	Y		
SS	Staple Strength	N/ktex	Y		
EBWR	Early Breech Wrinkle	Score	Y		
FEC	Worm Egg Count	%	Y	Y	Y
HCWT	Hot Carcase Weight	kg	Y	Y	Y
CEMD	Carcase Eye Muscle Depth	mm	Y	Y	Y
CFAT	Carcase Fat Depth	mm	Y	Y	Y
LMY	Lean Meat Yield	%	Y	Y	Y
IMF	Intra Muscular Fat	mm	Y	Y	Y
SHEAR5	Shear Force at 5 Days	kg	Y	Y	Y
DRESSPERC	Dressing %	%	Y	Y	Y
Poll/Horn	Poll Horn	PP, PH or HH	Y		

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Product Use

Purchase a SheepDNA Collection Kit
Create or login to your Neogen SheepDNA account (sheepdna.com.au), you can purchase your collection kits here or alternatively TSU's can be purchased at any Allflex reseller.

Selecting Sample Animals
Identify animals to be tested. It is recommended that you consult with your breeding adviser or Sheep Genetics for advice on animal selection.

Taking DNA Samples
Please consult the Collection Kit information available at sheepdna.com.au or by contacting the Neogen SheepDNA office.

Submitting Samples
Complete the sheep submission form with TSU and animal details (including a list of potential sires and dams if parentage is required), email this form to the SheepDNA office.
Send your samples to the lab along with a completed and signed sample ID form. Forms available at sheepdna.com.au or by contacting the Neogen SheepDNA office.

Confirmation and Payment
Samples are checked by our Quality Assurance staff before a confirmation email is sent prompting payment. Testing will not commence until payment is received in full.

Results
The GGP 50K Test will provide genomic estimates for the traits located in Table 1, provided accuracy thresholds can be met. For more information on accuracy thresholds please contact Sheep Genetics.

The SheepDNA test results are combined with the pre-existing data in the Sheep Genetics system, using a Single Step analysis, to increase the accuracy of ASBV's.

Your updated ASBV's can be accessed through your Sheep Genetics account.

Contact Us

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