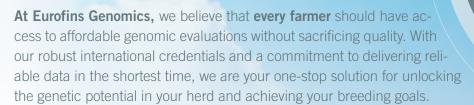


THE POWER OF GENOMICS: TRANSFORMING LIVESTOCK

BREEDING AND PERFORMANCE

Precision Breeding, Simplified.



Genomic evaluation stands as a powerful tool in accelerating selective breeding strategies, helping to cultivate stronger, healthier livestock. However, for many dairy farms, especially those just beginning to integrate genomic selection or those of small to medium size, the cost of implementing these advanced genetic technologies can be prohibitively high and exclusive for only large holdings. Recognizing this challenge, Eurofins Genomics has partnered with **Breedi**, leaders in livestock genomic evaluation systems, to create a **comprehensive and cost-effective solution** covering sample collection, genotyping and sophisticated genomic evaluations. Equally suitable for farms just starting out on their implementation of genomic selection, as well as those looking to enhance their current strategies, our services offer not only affordability but also advanced tools for analytics and mating, capable of supporting complex breeding techniques, such as the use of sexed semen or embryo transfer, thereby **enabling farms of all sizes to achieve superior breeding outcomes** with cutting-edge precision.

Genomic evaluations for any farm, large or small, beginner to advanced

	Basic	Premium			
Evaluation Results	Genetic Passport (.pdf)	Breedi Platform			
Format PDF Onlin		Online			
Primary applications	Simple keep/cull strategies	Keep/cull strategies, as well as more advanced breeding strategies eg. sexed semen, embryo transfer			
Ideal for	Small holdings or farms new to genomic selection	Farms interested to develop their selection program using the most powerful mating tools			

^{*}Minimum of 96 samples. Additional samples must be provided as multiples of 24.

breedi

Breedi platform vs Genetic Passport

Basic

- PDF Genetic Passport
- Breeding index
- 36 genomic breeding evaluations, including: production, fertility, health and longevity, linear traits
- Ancestry confirmation
- Monogenic productive traits
- Marker health traits
- Genomic inbreeding



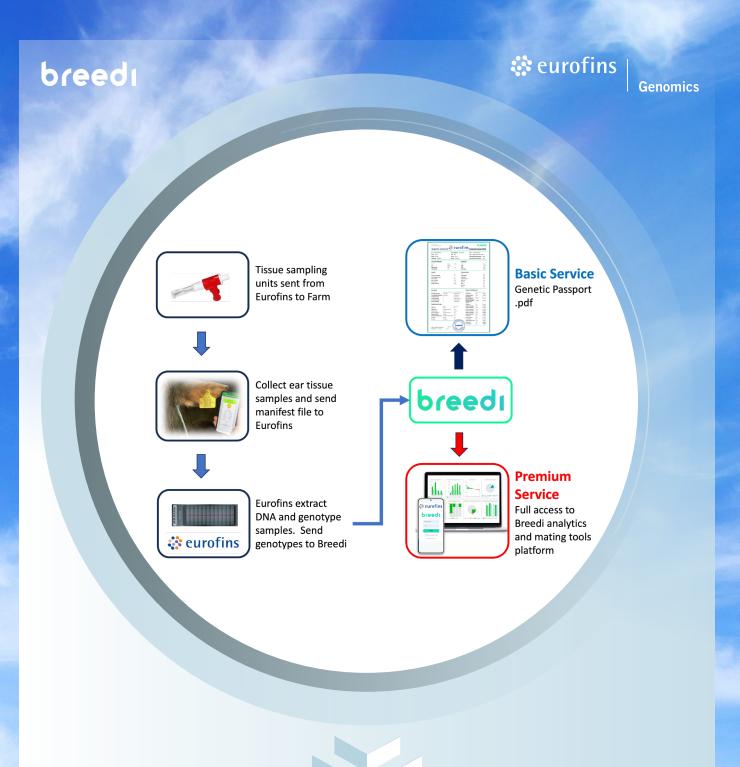
ID CAN123456789	Date	Of Birth 2	0.10.2021	Dam CAN	000124365	
Code 10012		Bull		Sire HONL	.D000123456	789
Name Kanon		m SGC-1		Inbreeding	1,48%	
Company BaeMilk	Bree	ed Holstein		Inbreeding	by ancestry	2.51%
Leader Indexes			Index	ces		
Trait	Value	% Rel	Trait			Valu
IPI	+2663	-	UDC			+1.9
Net Merit \$	+581	73	FLC			+1.0
Feed Saved	-16		PTA Ty	pe		+2.2
Health			Produ	ctivity		
Treit		Value	Traft			Value
Cow Conception Rate		-1.3	Cheese N			+593
Heifer Conception Rate		+2	Fluid Me			+502
Cow Livability		+0.8	Grazing I			+524
Helfer Livability		+0.6	Milk Yiel			+742
Productive Life		+2.9	Fat (Lbs.))		+59
Somatic Cell Score		+2.85	Fat %			+0.11
			Pro (Lbs.))		+38
Ancestry				Marker Test Res		
Ancestor Dam CANODO124365	According To Genotype Confirmed	Milk Yield/Fat/Protein 946/28.4/297		Pathology Brachyspina	Abbreviation	Statu
Sire HONLD000123456789	Confirmed	946/28.4/29.7		Complex Vertebral	CVM	Healt
DD US3010123456	Contirmed	93/3.2/3.9		Maiformation	CVM	Healt
SD CA000123456		1356/43.5/44	^	Bovine Leukocyte	BLAD	Healt
SS US0000004052		371/10.8/10.3		Adhesion Deficiency		
DS U51234567009		540/17.5/16.3		Deficiency Of Uridine Monophosphate Synthase	DUMPS	Healt
Productive Traits				Syndectyly	SY	Healt
Treit	Status	Genetype		Holstein Haplotype 1	HHI	Healt
Coat Color	Red	66		Holstein Haplotype 3	HH3	Healt
Kappa Casein	Average for cheese	AB		Holstein Haplotype 4	HH4	Healt
A2 Beta Caseln	A2 milk	A2/A2		Holstein Haplotype 5	HH5	Healt
Beta Lactoglobulin	Average for cheese	AB		Hoistein Hapiotype 6	HH6	Healt
Haplotype Polled	Horned	HH		Holstein Haplotype 7	HH7	Healt
Growth Hormone Receptor	No effect on milk volume	AA		Axonopathy	AX	Healt
	Single	AA		Cardiomyopathy	CMP	Healt
Twinning				Osteopetrosis	os	Healt
Twinning Fish Milk	No effect	AA				
	No effect	M		Cholesterol Deficiency Buildog Calf	HCD BC	Healt

Premium

- Contains all information from the Genetic Passport, provided in a modern online web-based application, accessible from any device. This application provides powerful decision supporting tools for farmers and breeders at any scale of production.
- Bulls' performance analytics within a herd: Understand the performance of each bull through progeny testing, revealing how choice of bull impacts the herd genetic landscape.
- **Genetic progress analytics:** Track how evaluations and performance have changed over time, to learn how different breeding decisions influence future herd performance and progress.
- Seamlessly form animal groups: Flexible filtering, sorting and ranking according to the breeding strategy.
- Genetic traits frequencies: Track herd health and make informed mating and culling decisions.
- Inbreeding analytics: Control inbreeding rates within a herd and within different animal groups.
- **Genomic mating tool:** Pair animals automatically and independently from semen companies to achieve the best future herd progress.







A complete solution for livestock genomic evaluations

Sample collection tubes (TSUs) are ordered through Eurofins' dedicated app, and delivered to the farm with the collection tool. Ear tissue samples are collected and the corresponding ear tag barcodes scanned. The samples and the sample manifest file are sent to Eurofins Genomics genotyping facility in Denmark for genotyping using Illumina's Infinium genotyping platform, which ensures the highest quality of data whilst minimising costs. The genotype data for each animal is then delivered to Breedi to perform genomic evaluation. Results are delivered to the farmer as either a Genetic Passport (Basic) or online via the Breedi Platform (Premium) within 3-4 weeks.



Why partner with us?

It is our mission to democratise access to the latest cutting edge tools to help farmers meet the need for increased productivity and sustainability. The combined forces of Eurofins Genomics and Breedi brings the most affordable and accessible solutions for livestock genomic evaluation to farms and breeding organisations.

	Turnaround time (working days)	#Traits	Diseases	Genomic mating tool	Breeds	
Eurofins & Breedi	15-20	36	Yes	Yes	Holstein, Jersey, Brown Swiss, Ayrshire, and Guernsey	
Competitor A	15-25	20 production and health traits	No	Yes	Holstein, Jersey, Brown Swiss, Ayrshire, and Guernsey	
Competitor B	15-20 (subject to submission dates)	36	Yes	No	Holstein, Jersey, Brown Swiss	
Competitor C	15-20	15 production traits only	No	No	Holstein, Jersey, Brown Swiss, Ayrshire, and Guernsey	

Begin reaping the reward of genomic insights today with as little as 96 animals.



Contact us to discuss how we can help you reach your _____ breeding goals! _____

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