



WORLD FEDERATION OF AYRSHIRE BREED SOCIETIES
WESTBURN BUSINESS CENTRE
WESTBURN HOUSE
MCNEE ROAD
PRESTWICK
AYRSHIRE
KA9 2PB

Tel: 01292 471292
Fax: 01292 474686
e-mail: society@ayrshirescs.org
website: www.worldayrshirerefederation.com

8th September 2021

Dear Member,

Following on from the previous communication the World Ayrshire Federation would like to update members on correspondence received from Viking genetics regarding the genetic defect Arthrogyposis Multiplex (AM), or commonly referred to as Curly Calf Syndrome.

We attach on page 2 a letter received from Jakob Lykke Voergaard at Viking Genetics. Also attached to the email is information regarding defect status on red bulls for the five most common red defects in the Ayrshire population.

Please find below information that has been received on testing that is available via Eurofins Genomics UK Limited

- We can accept hair, blood, semen, or ear tissue samples
 - For blood samples, please submit using blood cards
 - For ear tissue samples, we can only process AllFlex TSUs
- Ideally, samples should be submitted in batches of 96, as we charge per batch of 96, total cost 3,456 EUR (36 EUR/sample)
- Batches of <96 samples will be charged as per a full batch of 96 samples.
- Turnaround time is typically 3-4 weeks after sample reception

If you have any questions, please do not hesitate to contact myself or Jakob direct.

Kind Regards,

Claire Kimm
Executive Secretary



World Federation of Ayrshire breed societies

Ebeltoftvej 16
DK-8960 Randers SØ
T +45 8795 9400
F +45 8795 9401
vikinggenetics.com
info@vikinggenetics.com

1. Sep. 2021

Dear WAF and member organizations

As you all know, new defects are discovered frequently and genomic selection has speeded up the process. When a defect is discovered it is normally done by a research group that makes a scientific report of their findings which is published in a scientific journal and made available on the internet. There is afterwards developed a test for the defect.

VikingGenetics is sorry for any misunderstandings regarding AMC and hope we all will be able to find better ways to communicate in the future, for the benefit of all red breeds. We all need to work together to spread information when genetic defects are discovered.

Viking Red is a breeding program including SRB from Sweden, Finnish Ayrshire and RDM from Denmark. The breeding program has worked with the AMC defect since its report was published and all purchased bulls are tested. No males or females carrying AMC are bought to the program, and the last bull carrying the defect from which semen was sold was born in 2017. Today the frequency for AMC in VikingGenetics' area is estimated to 2 %.

Other Ayrshire related defects VikingGenetics are working with are Ayrshire Haplotype 1 and 2 (AH1, also called PIRM, and AH2) and Bos Taurus Autosome 12 and 23 (BTA12 and BTA23). Information about these defects can be found in the link below. The VikingRed breeding program has zero tolerance for AH1 and BTA23 while genetically superior animals with AH2 and BTA12 are used in targeted matings. Status for individual bulls can be found by searching on NAV's website.

[NAV - Nordic Cattle Genetic Evaluation \(nordicebv.info\)](http://nordicebv.info)

All DNA tests and genomic tests in VikingGenetics' member countries are performed by Eurofins in Denmark.

Any questions regarding defects in Nordic red breeds can be sent to Jakob Lykke Voergaard, javoe@vikinggenetics.com

Venlig hilsen

A handwritten signature in black ink, appearing to read 'Jakob L. Voergaard'.

Jakob Lykke Voergaard
Senior Breeding Manager VikingRed