



## World Federation of Ayrshire breed societies

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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](mailto:javoe@vikinggenetics.com)

Venlig hilsen

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

Jakob Lykke Voergaard  
Senior Breeding Manager VikingRed