

Detection of c.735delT VWF mutation in
VWF gene causing vWD type III in Shetland
Sheepdogs

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic

Sample:

Sample: 21-12345

Date received: 01.02.2021

Sample type: blood

Information provided by the customer

Name: Lassie DEMO

Breed: Plemeno

Tattoo number: 1392013

Microchip: 123 456 789 012 345

Reg. number: REGQ12345

Date of birth: 1.1.2020

Sex: female

Date of sampling: 01.02.2021

The identity of the animal has been checked.

Result: Mutation was detected in heterozygous status (N/P)

Legend: N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

Explanation

Presence or absence of mutation c.735delT in VWF gene causing vWD type III (von Willebrand disease type III) in Shetland sheepdogs was tested. VWD type III is the most severe form of vWDs, which leads to very strong life-threatening bleeding. VWD type III is characterized by total absence of von Willebrand factor (vWF). VWD III occurs in breeds Shetland Sheepdogs, Scottish Terrier and Kooikerhondje.

Mutation c.735delT in VWF gene is inherited as an autosomal recessive trait. That means the vWD typ III affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). Carriers have lower level of vWF; their homeostasis is normal. In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 50 % N/P and 25 % P/P.

Method: SOPAgriseq_canine, ngs, accredited method

Date of issue: 06.02.2021

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Approved by: Mgr. Martina Šafrová, Laboratory Manager



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Genomia s.r.o, Republikánská 6, 31200 Plzeň, Czech Republic
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999



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