

Detection of c.605C>T mutation in
SERPINF2 gene causing DEPOH in the
Scottish Deerhounds

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 not detected (N/N)

Explanation

Presence or absence of c.605C>T mutation in SERPINF2 gene causing Delayed Postoperative Hemorrhage (DEPOH) in the Scottish Deerhounds was tested. The disease causes excessive bleeding after surgery or trauma, usually within 24-48 hours after the surgical procedure. The severity of excessive bleeding varies from bruising of the skin surrounding the wound to severe bleeding from the wound. During life, dogs have no clinical signs and lead normal lives. The problem arises in the case of surgery or major bleeding trauma.

The presence of the mutation significantly increases the likelihood of delayed bleeding, a dog with one copy of DEPOH variant (heterozygotes, result N/P) is 28 times more likely to experience delayed bleeding, while a dog with two copies (homozygotes, result P/P) is 1235 times more likely to experience delayed bleeding, compared to dogs without the mutation (result N/N). Inheritance of the mutation is autosomal dominant with incomplete penetrance.

Method: SOP188-MPS-canine, MPS

Date of issue: 06.02.2021

Date of testing: 01.02.2021 - 06.02.2021

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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