GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.1438C>A mutation in UNC93B1 gene causing ECLE in Vizslas and German Shorthaired Pointers

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)

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 c.1438C>A mutation in UNC93B1 gene causing Exfoliative cutaneous lupus erythematosus (ECLE) in Vizslas and German Shorthaired Pointers was tested. This disease is characterised by scaly and crusty skin lesions that occur initially on the face, ears and back but gradually spread over the whole body. The first symptoms usually appear by ten months of age. In later stages, the disease can become systemic and affect other organs – lupus nephritis, joint pain or infertility may develop. The disease results in severe immune deficiency. Secondary infections are common.

Mutation that causes ECLE is inherited autosomally recessively which means that the disease develops only in those dogs who inherit mutated allele from both parents; disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

Method: SOPAgriseq_canine, ngs, accredited method

Date of issue: 06.02.2021
Date of testing: 01.02.2021 - 06.02.2021
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

Genomia is accredited in compliance with ISO/IEC 17025:2018 under #1549
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