GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.2810G>A mutation in CNTNAP1 gene causing LPPN3 in several dog breeds

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.

SAMPLE

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.2810G>A mutation in CNTNAP1 gene causing Laryngeal Paralysis and Polyneuropathy (LPPN3) in Labrador Retrievers, Leonbergers and Saint Bernard dogs was tested. LPPN3 is a disease that causes breathing and swallowing difficulties, increased risk of aspiration pneumonia and worse physical performance and high-stepping and uncoordinated gait. The characteristic signs in affected dogs are increased noisy breathing, wheezing to roaring sound, so-called stridor and bark change (hoarse bark).

Mutation that causes LPPN3 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

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Report verification code is: 12AB-CD34-GENO-MIA0-EFGH. You can verify report online at www.genomia.cz
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