GENOMIA
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Result certificate #012345

Detection of c.952_53insC mutation in IQCB1 gene causing CRD2 in American Pit Bull Terriers

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.952_53insC mutation in IQCB1 gene causing Cone-rod dystrophy 2 (CRD2) in American Pit Bull Terriers was tested. Affected dogs suffer from a severe and rapidly progressive loss of function of the cones, which is accompanied by a relatively slower loss of function of the rods. The disease leads to a significant deterioration of vision, both in light and in darkness, up to complete blindness.

Mutation that causes CRD2 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: 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

verified and certified document
GENOMIA genetic laboratory

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SAMPLE