GENOMIA
genetic laboratory

Result certificate #012345

Detection of g.1,432,293G>A mutation in HIVEP3 gene causing Progressive Retinal Atrophy in Miniature Schnauzer

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 g.1,432,293G>A mutation in HIVEP3 gene causing Progressive Retinal Atrophy type PRA1 in Miniature Schnauzer was tested. Clinical symptoms usually apear at the age of 4 years. The symptoms start with night blindness which is followed with a slow deterioration of vision and complete blindness under any light conditions.

Mutation that causes PRA1 is inherited as an autosomal recessive trait. That means the 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 (healthy non-carriers), 25 % P/P (affected), and 50 % N/P (healthy carriers).

In Miniature Schnauzers, the finding of other mutations causing progressive retinal atrophy is expected, so also dogs with N/N and N/P results should be regularly ophthalmologically examined.

Method: SOP188-MPS-canine, MPS, accredited method

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

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