GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.3079G>T mutation in COL4A5 gene causing Nephritis in Samoyeds

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: Xn/Y

Explanation

Presence or absence of c.3079G>T mutation in COL4A5 gene causing Nephritis in Samoyeds was tested. Nephritis is an inflammatory disease of the kidneys. It is manifested by the presence of protein in the urine (proteinuria) and rapidly progressive kidney failure, which is fatal. Affected dogs usually die by one year of age.

The causal mutation of Nephritis is X-linked. This means that it is localized on the X chromosome. Males have an X and a Y chromosome, so they can only be healthy (Xn/Y) or affected (Xm/Y). Females have two X chromosomes, so they can either be healthy (Xn/Xn), carriers (Xn/Xm) or affected (Xm/Xm). Female carriers do not show clinical signs but are able to pass the mutant allele to their offspring.

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

verified and certified document
GENOMIA genetic laboratory

SAMPLE

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