

Result certificate #012345

Detection of mutations in MTMR2 a SH3TC2 genes causing Hypomyelinating polyneuropathy in Golden Retrievers

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: PREVIEW RESULT LINE

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.1924C>T mutation in SH3TC2 gene and mutation c.1479+1G>A in MTMR2 gene causing Hypomyelinating polyneuropathy in Golden Retrievers was tested. Hypomyelinating polyneuropathy is a genetic disease affecting the peripheral nervous system. It results in insufficient production of myelin sheath, causing muscle weakness, loss of reflexes and difficulty coordinating movements.

Mutations that causes Hypomyelinating polyneuropathy are inherited probably 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, 25 % P/P and 50 % N/P.

Method: SOPAgriseq_canine, ngs

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



Genomia s.r.o, Republikánská 6, 31200 Plzeň, Czech Republic www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999

Report verification code is: 12AB-CD34-GENO-MIA0-EFGH. You can verify report online at www.genomia.cz Without a written consent by the lab, the report must not be reproduced unless as a whole. The result refers only to the tested sample, as received. Genomia is not responsible for the accuracy of the information provided by the customer.