

Customer: Lucie Glaserová, Doubek 109, 25101 Doubek, Czech Republic

Sample:

Sample: 21-27144

Date received: 06.10.2021

Sample type: blood

Information provided by the customer

Name: Bezinka z Modrého království

Breed: Collie Smooth

Microchip: 900 085 001 081 321

Reg. number: CMKU/CK/1647/20

Date of birth: 2.3.2020

Sex: female

Date of sampling: 04.10.2021

The identity of the animal has been checked by MVDr. Michaela Oravská, KVL 5097

Result: Mutation was detected in heterozygous status (N/P)

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 22 bp insertion in exon 4 of RD3 gene causing RCD2 disease (rode-cone dysplasia 2) in rough and smooth collies was tested. RCD2 is manifested by retina degeneration that leads to early onset night blindness in puppies about 6 weeks of age. RCD2 affected dogs are usually totally blind in one year of age.

Insertion in RD3 gene 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, 25 % P/P and 50 % N/P.

Method: SOP171-RCD2, fragment analysis

Date of issue: 19.10.2021

Date of testing: 06.10.2021 - 19.10.2021

Approved by: Mgr. Markéta Dajbychová, Deputy 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: A5QJ-A484-89F2-DRH4-QKX1. 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 sample as received. Genomia is not responsible for the accuracy of the information provided by the customer.