

Customer: Michal Glaser, Doubek 109, 25101 Doubek, Czech Republic

Sample:

Sample: 23-15207

Date received: 05.06.2023

Sample type: buccal swab

Information provided by the customer

Name: Emilka z Modrého království

Breed: Collie Smooth

Microchip: 900 085 001 644 611

Reg. number: CMKU/CK/2155/23

Date of birth: 19.4.2023

Sex: female

Date of sampling: 01.06.2023

The identity of the animal has been checked by MVDr. Pavel
Mádr, CSc. KVL4735

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 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: 16.06.2023

Date of testing: 05.06.2023 - 16.06.2023

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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