

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 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.28697542-28705340del7799 mutation in NHEJ1 gene causing Collie eye anomaly (CEA) was tested. CEA is known to affect Australian Shepherd, Border Collie, Boykin Spaniel, Lancashire heeler, Longhaired whippet, Nova Scotia Duck Tolling retriever, Rough and Smooth Collie, Shetland Sheepdog and Silken windhound.

Mutation that causes CEA 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).

Analysis was performed by the partner laboratory. Genomia guarantees the quality of its partner's services.

Method: SOP176-CEA, ASA-PCR

Date of issue: 15.10.2021

Date of testing: 06.10.2021 - 15.10.2021

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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Report verification code is: A3TT-YK33-46A2-9KRX-XNFH. You can verify report online at www.genomia.cz

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The result refers only to the sample as received. Genomia is not responsible for the accuracy of the information provided by the customer.