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Result certificate #200438

Detection of c.1940delA mutation in PDE6A gene causing RCD3 disease dogs

Customer: Ms Jenny Joffer, Jobsbovaegen 21, S-777 33 Smedjebacken, Sweden
Sample:
Sample: 22-08755
Date received: 11.04.2022
Sample type: buccal swab

Information provided by the customer
Name: Joffers Arna Albicilla
Breed: Chinese Crested Dog
Microchip: 941 000 026 015 485
Reg. number: SE17348/2021
Date of birth: 2021 02 09
Sex: female
Date of sampling: 04.04.2022

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 mutation c.1940delA in canine PDE6A gene causing PRA-rcd3 (Progressive Retinal Atrophy form Rod Cone Dysplasia 3) in Cardigan Welsh Corgi and Chinese Crested dog was tested. PRA-rcd3 is a cureless disease; affected individuals become usually blind in very early age.

Mutation that causes PRA-rcd3 in Cardigan Welsh Corgi and Chinese Crested dog 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-RCD3, fragment analysis

Date of issue: 14.04.2022
Date of testing: 11.04.2022 - 14.04.2022
Approved by: Mgr. Martina Šafrová, Laboratory Manager

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