GENOMIA
genetic laboratory

Result certificate #319824

Detection of c.5G>A mutation in PRCD gene causing PRA-prcd in many dog breeds

Customer: Serhii Korenchenko, Mladé gardy 2781, 8, 434 01 Most, Czech Republic
Sample:
Sample: 25-33529
Date received: 02.01.2026
Sample type: buccal swab

Information provided by the customer
Name: DANALIYA FLY FINKI
Breed: Papillon
Microchip: 900 233 001 513 475
Reg. number: CMKU/PAP/6014/-25/24
Date of birth: 22.05.2024
Sex: female
Date of sampling: 22.12.2025
The identity of the animal has been checked by MVDr. Alice Šimková, KVL 7073

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 c.5G>A mutation in PRCD gene causing PRA-prcd (Progressive Retinal Atrophy) was tested. Disease causes degeneration of retinal cells. That results in complete blindness of the animal. The age of onset of disease varies, but, generallly, it cannot be recognized before the adulthood of the animal.

Mutation that causes PRA-prcd 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.

It is necessary to be aware that not all retinal diseases belong in progressive retina atrophy group of disorders and not all are a variant of PRA-prcd. In many breeds, the cause of PRA inheritance has not been still clarified. It is also possible that several mutations can be responsible for retinal atrophy in one breed. Therefore, we recommend that an eye examination by a veterinary ophthalmologist is performed every year.

The analysis was carried out by partner laboratory.

Method: SOP188-MPS-canine, MPS

Date of issue: 08.01.2026
Date of testing: 02.01.2026 - 08.01.2026
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

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