GENOMIA
genetic laboratory

Result certificate #340922

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

Customer: Serhii Korenchenko, Mladé gardy 2781/1, 43401 Most 1, Czech Republic
Sample:
Sample: 26-14508
Date received: 18.06.2026
Sample type: buccal swab

Information provided by the customer
Name: DANALIYA FLY KODI-ARCH
Breed: Papillon
Microchip: 900 263 004 156 117
Reg. number: CMKU/PAP/6125/-26/25
Date of birth: 05.05.2025
Sex: male
Date of sampling: 17.06.2026
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: 25.06.2026
Date of testing: 18.06.2026 - 25.06.2026
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document GENOMIA genetic laboratory

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: 9XTN-W627-TQ51-ABCY-1AFM. 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 tested sample, as received. Genomia is not responsible for the accuracy of the information provided by the customer.