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Result certificate #340925

Detection of c.407G>A mutation in F7 gene causing Factor VII deficiency in several dog breeds by DNA sequencing

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.407G>A mutation (previous nomenclature c.6385G>A) in F7 gene causing Factor VII (FVII) deficiency in several dog breeds (Airedale Terrier, Alaskan Klee, Kai, Beagle, Deerhound, Finnish Hound, Papillon, Phalene, Schnauzer Giant) was tested. Factor VII is a vitamin K-dependent glycoprotein that plays a pivotal role in the initiation of coagulation. The deficiency of FVII affects the blood coagulation and causes excessive bleeding in case of an injury or other intervention in the organism.

Mutation that causes FVII deficiency is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P (positive/positive) genotype only. The dogs with N/P (negative/positive) 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).

Method: SOP188-MPS-canine, MPS, accredited method

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

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