

## Detection of c.7437G&gt;A mutation in exon 43 of VWF gene causing vWD type I

**Customer:** Lenka Orzelová, Bohumínská 437/42, 710 00 Slezská Ostrava, Czech Republic**Sample:**

Sample: 24-40118

Date received: 30.01.2024

Sample type: buccal swab

Information provided by the customer

**Name:** Carramia Royal Glow**Breed:** Poodle Standard

Microchip: 941000027192388

Reg. number: CMKU/P/23254/22

Date of birth: 17.7.2022

Sex: female

Date of sampling: 27.01.2024

The identity of the animal has been checked by Ing. Nikola Eretová, Genomia s.r.o.

**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.7437G>A mutation in exon 43 of VWF gene causing vWD type I was tested. This mutation causes deficiency or failure of VWF (von Willebrand factor) which is called von Willebrand disease type I (vWD I). VWD manifests as bleeding which is most apparent in tissues having high blood flow shear in narrow vessels. VWD manifests oneself as a tendency to bleeding from skin and tissues.

VWD type I is the most often and simultaneously the least serious form of mammalian vWD. The disease is characterised by low plasma vWF concentration and normal vWF protein structure. VWD type I occurs, for example, in dog breeds Bernese Mountain Dog, Doberman Pinscher, Manchester terrier, Welsh Corgi Pembroke, all Poodles, Labradoodle, Goldendoodle.

Mutation c.7437G>A that causes VWDI 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: SOPAgriseq\_canine, ngs

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Approved by: Mgr. Martina Šafrová, Laboratory Manager



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