

Customer: Dušan Kollárik, Belá 33, 03811 Belá-Dulice, Slovak Republic**Sample:**

Sample: 23-01202

Date received: 23.01.2023

Sample type: buccal swab

Information provided by the customer

Name: GIANNA Bella Aurea**Breed:** Golden Retriever

Microchip: 941 000 023 870 583

Reg. number: SPKP 3603/21

Date of birth: 15.5.2019

Sex: female

Date of sampling: 19.01.2023

The identity of the animal has been checked by MVDr. Lenka
Blahušíaková, KVL 0814**Result: Mutation was not detected (N/N)****Explanation**

Presence or absence of c.1006_1019del mutation in ABHD5 gene causing ichthyosis 2 in Golden Retrievers breed was tested. The first symptoms of skin keratinisation begin to develop soon after birth. The degree of symptom expression varies between individuals – from an initial slight formation of light-coloured scales to the gradual formation of larger areas of dark scales. In some cases, secondary infections occur in the affected areas of the skin due to bacteria or fungi. Golden retrievers also have recessively inherited ichthyosis 1, which is caused by a mutation in the PNPLA1 gene.

Mutation that causes ichthyosis 2 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: SOPAgriseq_canine_CP, ngs

Date of issue: 03.02.2023

Date of testing: 23.01.2023 - 03.02.2023

Approved by: Mgr. Martina Šafrová, Laboratory Manager

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