

**Customer:** Míšek Pavel, Radošov 192, 36272 Kyselka, Czech Republic

**Sample:**

Sample: 22-31704

Date received: 15.11.2022

Sample type: buccal swab

Information provided by the customer

**Name: Nelson Golden Victory**

**Breed: Golden Retriever**

Tattoo number: BNY 4513

Microchip: 643 099 011 505 604

Reg. number: ČLP/GR/23461

Date of birth: 11.06.2021

Sex: male

Date of sampling: 14.11.2022

The identity of the animal has been checked by MVDr. Sabina Marie Štekllová, KVL 4726

**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, ngs

Date of issue: 11.07.2023

Date of testing: 23.06.2023 - 11.07.2023

Approved by: Mgr. Martina Šafrová, Laboratory Manager



Genomia s.r.o, Republikánská 6, 31200 Plzeň, Czech Republic  
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999

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