

Sample

Sample: 16-14433
Name: Daffy Alvemía
Breed: Landseer (European Continental type)
Tattoo number: 477
Microchip: 203 098 100 281 333
Reg. number: CMKU/LS/477/09
Date of birth: 21.10.2009
Sex: female
Date received: 02.06.2016
Sample type: buccal swab
The identity of the animal has been checked by
MVDr. Petr Pohořalý

Customer

Renata Cepková
U Kostela 166
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Czech Republic

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.289G>T mutation in COL6A1 gene causing muscular dystrophy in Landseer was tested. Muscular dystrophy is an inherited disease causing progressive muscle weakness.

Mutation that causes muscular dystrophy in Landseer 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), they are healthy but they can transmit the mutation on their offspring. In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 50 % N/P (healthy carriers) and 25 % P/P (affected).

Method: SOP172-MDL, direct DNA sequencing

Report date: 13.06.2016

Responsible person: Mgr. Martina Šafrová, Laboratory Manager

