

**Sample**

Sample: 16-14432  
Name: Fame Alvernia  
Breed: Landseer (European Continental type)  
Microchip: 203 098 100 338 235  
Reg. number: CMKU/LS/665/13  
Date of birth: 18.11.2013  
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  
28141 Ratboř  
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

