

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic

Sample:

Sample: 21-12345

Date received: 01.02.2021

Sample type: blood

Information provided by the customer

Name: Lassie DEMO

Breed: Plemeno

Tattoo number: 1392013

Microchip: 123 456 789 012 345

Reg. number: REGQ12345

Date of birth: 1.1.2020

Sex: female

Date of sampling: 01.02.2021

The identity of the animal has been checked.

Result: Mutation was not detected (N/N)

Explanation

Presence or absence of g.11979724G>A mutation in NEBL3 gene associated with the development of myxomatous mitral valve disease (MMVD) in dogs was examined. MMVD is a progressive degenerative disease affecting the mitral valve, which gradually leads to pathological changes. It has been diagnosed in a wide range of breeds, including the Cavalier King Charles Spaniel, Dachshund, Miniature Poodle, and Yorkshire Terrier. The highest prevalence of MMVD is observed in Cavalier King Charles Spaniels, in which the disease often develops at an early age and frequently follows a severe course.

MMVD is a multifactorial and polygenic disease. The tested mutation increases the risk of MMVD manifestation and is inherited in an autosomal recessive manner. Individuals that inherit the mutated gene from both parents (result P/P) have an increased risk of developing the disease. Carriers of the mutated gene (result N/P) inherit the mutation from only one parent and are not at risk of developing MMVD. Individuals with the N/N result do not carry the risk mutation.

Method: SOP188-MPS-canine, MPS

Date of issue: 06.02.2021

Date of testing: 01.02.2021 - 06.02.2021

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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