

**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: PREVIEW RESULT LINE

**Explanation**

Presence or absence of mutations c.1877C>G in KIRREL2 gene and c.3067G>A in NPHS1 gene related to the development of Glomerulopathy (Protein Losing Nephropathy, PLN) in Airedale Terriers and Soft-Coated Wheaten Terriers were tested.

Glomerulopathy is a kidney disease that affects the glomeruli. When they are damaged, protein leaks into the urine. Symptoms usually appear after the animal reaches reproductive age. Initial symptoms may include increased drinking and urination, gradual weight loss, loss of energy, vomiting, or diarrhea. Later, edema, fluid in the abdominal cavity, hypoalbuminemia, hypercholesterolemia, and gradual deterioration of kidney function may occur, which can lead to kidney failure. Complications also include high blood pressure and an increased risk of thrombosis.

However, the genetic basis of glomerulopathy is polygenic and complex. The presence of mutations in the KIRREL2 and NPHS1 genes in a homozygous state (P/P) is a risk factor for the development of PLN. Heterozygotes (N/P) are at low risk of developing PLN. N/N individuals are at no risk of developing PLN.

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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