

**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: Based on gene variants examination genotype was determined  $K^B/K^B$

**Explanation**

Presence of c.67\_69delGGA gene variant in CBD103 gene (locus K) was tested. In K locus, three alleles with the following hierarchy have been identified:  $K^B$  (dominant black) >  $k^{br}$  (brindle - causing the change of eumelanin and pheomelanin production) >  $k^y$  (recessive yellow).

Phenotype expression of  $K^B$  allele is inherited in autosomal dominant trait. Final coat color is influenced by loci E and A. In case eumelanin is expressed, final coat color is black or brown (presence of wild type E allele). In case feomelanin is expressed, final coat color is light, red-brown, red or brindle.

The examination does not exclude the presence of any other unknown mutation in CBD103 gene.

Method: SOP171-locusK, fragment analysis

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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