GENOMIA
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Result certificate #012345

Detection of gene variant c.67_69delGGA in CBD103 gene (locus K)

Sample
Sample: 08-12345
Name: Lassie DEMO
Breed: ---
Tattoo number: 1392013
Microchip: 123 456 789 012 345
Reg. number: REGQ12345
Date of birth: 31.12.1909
Sex: female
Date received: 25.11.2008
Sample type: blood
The identity of the animal has been checked.

Customer
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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 phaeomelanin 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

Report date: 25.11.2008
Responsible person: Mgr. Martina Šafrová, Laboratory Manager

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