

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: a^y/a^t **Explanation**

Presence of ASIP (locus A – Agouti signal peptide) c.244G>T (p.A82S), c.248G>A (p.R83H) and c.286C>T (p.R96C) gene variants was examined. It is a set of locus A (Agouti) alleles. There have been described 4 alleles with the dominance hierarchy as follows $a^y > a^w > a^t > a$. Alleles a^y , a^w , a^t are designated jointly A-alleles (Agouti) and a-allele is called non-agouti. To distinguish a^t and a^w alleles, 231 bp SINE insertion was tested.

The wild type allele a^w causes the change from production of eumelanin to phaeomelanin in an individual hair so-called agouti colour. The allele a^y is responsible for fawn or sable colour. The a^t allele produces a black to light brown, so-called black and tan (tricolour) phenotype. The a-allele causes recessive black colour (nonagouti).

Final coat color is influenced by other loci (B, E, D, K).

Method: SOPAgriseq_canine, ngs

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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