

**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:  $E^G/N$

**Explanation**

Presence or absence of c.233G>T variant in MC1R gene was tested – that is  $E^G$  variant of locus E.  $E^G$  variant is responsible for specific grizzle color of Saluki and domino color of Afghan Greyhounds, where the dog carries also  $a^T/a^T$ . The phenotype connected with this variant is light hair on the face and eyebrows.

Locus E hierarchy expression is as follows:  $E^M > E^G > E > E^H > e$ . This test only gives information about the  $E^G$  variant, not about E locus as a whole.

**Possible results:**

- $E^G/E^G$ : the dog carries two  $E^G$  alleles and is grizzle or domino colored, in case the dog is also  $a^T/a^T$ .
- $E^G/N$ : the dog carries one  $E^G$  allele and is grizzle or domino colored, in case the dog is also  $a^T/a^T$  and N in E or e allele. Allele N means any other allele of the E locus except  $E^G$ . For example, the combination of  $E^G/E$  means carrier of E-allele, the combination of  $E^G/e$  means carrier of e-allele.
- N/N: The individual does not carry  $E^G$  variant.

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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