

**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:** EG/N**Explanation**

Presence or absence of c.233G>T variant in MC1R gene was tested – that is  $e^G$  variant of locus E. Allele  $e^G$  (mutation in MC1R gene c.233G>T) is responsible for grizzle colour in Saluki, Barzoi, Polish Greyhound and domino colour in Afghan Hounds. Expression of  $e^G$  in other breeds is not excluded.

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

If the genotype contains the  $e^G$  allele in combination with the  $E^M$  or E allele, which are dominant to it, the resulting phenotype will not show grizzle colouration. The grizzle and Domino effect will only occur when the  $e^G$  allele is combined with another  $e^G$  allele or the  $e1$  allele. Grizzle and Domino colouration is expressed in different colour variants depending on which combination of genotypes the individual carries. The resulting grizzle colour is then determined by the genotype of loci A and K. Phenotypically, grizzle may appear as: classic grizzle, cream grizzle, shaded grizzle, agouti grizzle, brindle grizzle and faded black grizzle.

Method: SOPAgriseq\_canine, ngs, accredited method

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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Report verification code is: 12AB-CD34-GENO-MIA0-EFGH. You can verify report online at [www.genomia.cz](http://www.genomia.cz)

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